LIEBHERR

LR 1600/2 0048036

S, SW

==> Wind 12.8m/s Incline 0.3°

Load chart manual

Edition: 27.08.2019

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Preface

Manufacturer

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California Proposition 65

Proposition 65 of the US State of California warns against chemicals that are known to cause cancer, birth defects and other reproductive harm.

For additional information, see the website: www.P65Warnings.ca.gov.

Proposition 65



WARNING: This product can expose you to chemicals, which are known to the State of California to cause cancer, birth defects or other reproductive harm.

For more information see: www.P65Warnings.ca.gov.

Fig.147844: Example of a Proposition 65 sign for USA: Chemicals

Proposition 65



WARNING: This product can expose you to chemicals, including exhaust emissions, which are known to the State of California to cause cancer.

For more information see: www.P65Warnings.ca.gov.

Fig.147842: Example of a Proposition 65 sign for USA: Exhaust emissions

Proposition 65



WARNING: This product can expose you to chemicals, including lead and lead compounds, which are known to the State of California to cause birth defects or other reproductive harm.

For more information see: www.P65Warnings.ca.gov.

Fig.147843: Example of a Proposition 65 sign for USA: Lead and lead compounds

General

This crane was built according to the state of technology and recognized safety technical regulations. Despite that, danger to body and life for the user and / or third persons or damage to the crane and / or other material assets is still possible.

This crane may only be used:

- when in a perfect technical condition.
- for destined use.
- by trained personnel, which acts in a safety and danger conscious way.
- when no safety relevant problems are present.
- when no modifications were made on the crane.

Any problems, which could affect safety must be fixed immediately.

Modifications on the crane may only be made with written approval by Liebherr-Werk Ehingen GmbH.

Data logger

This crane is equipped with a data recording device. Among others, the following data is recorded:

- Date and time of day
- Entered set up configuration of the crane
- Actual load
- Percentage of crane utilization
- Boom radius (working radius)
- Main boom angle, luffing jib angle
- Total telescopic boom length, length of each telescopic section
- Every actuation of bypass devices

The recorded data can be read with a respective software.

Safety and warning display

The safety and warning display is directed to all persons who work with the crane.

The terms **DANGER**, **WARNING**, **CAUTION** and **NOTICE** used in the crane documentation are intended to point out certain rules of conduct to all persons working with the crane.

Warn- ing signs	Signal word	Explanation
\triangle	DANGER	Designates a dangerous situation which will lead to death or serious injury if it is not prevented. 1)
\triangle	WARNING Designates a dangerous situation, which can lead to death or serious in it is not prevented. 1)	
Designates a dangerous situation, which can lead to slight or med injuries if it is not prevented. 1)		Designates a dangerous situation, which can lead to slight or medium-grade injuries if it is not prevented. 1)
	NOTICE	Designates a dangerous situation, which can lead to property damage if it is not prevented.

¹⁾ This could also result in property damage.

Additional notes

The term **Note** is used in the crane documentation to make all persons working with the crane aware of useful information and tips.

Sign	Signal word	Explanation
1	Note	Designates useful information and tips.

Crane documentation

The crane documentation is comprised of:

- all supplied documents on paper and in digital form.
- all supplied programs and applications.
- all subsequently supplied information, updates and addenda for the crane documentation.

The crane documentation:

- makes it possible for you to operate the crane safely.
- supports you in using the permissible application possibilities of the crane.
- provides you with information about the functionality of important components and systems.



Note

Terminology in the crane documentation.

Certain expressions are used in the crane documentation.

▶ In order to avoid misunderstandings, the same expressions should always be used.

Translations from the German version of the crane documentation: The crane documentation has been translated to be best of one's knowledge. Liebherr-Werk Ehingen GmbH assumes no liability for translation errors. The German version of the crane documentation is solely applicable for factual accuracy. If you find any errors or if any misunderstandings arise when reading the crane documentation, please contact Liebherr-Werk Ehingen GmbH immediately.



WARNING

Danger of accident due to incorrect operation of the crane!

Incorrect operation of the crane can lead to accidents.

Death, severe bodily injuries, property damage.

- ▶ Only authorized and trained expert personnel are permitted to work on the crane.
- ▶ The crane documentation is part of the crane and must be accessible on the crane.
- ▶ The crane documentation and on-site regulations and specifications (such as accident prevention regulations) must be observed.

Using the crane documentation:

- makes it easier to become familiar with the crane.
- avoids problems due to improper operation.

Observing the crane documentation:

- increases reliability in use.
- extends the service life of the crane.
- minimizes repair costs and downtime.

Place the crane documentation accessible in the driver's cab or in the crane cab.



WARNING

Outdated version of crane documentation!

If subsequently supplied information, updates and addenda to the crane documentation are not observed and added, there is a danger of accident.

Death, severe bodily injuries, property damage.

- ▶ Observe and add all subsequently supplied information, updates and addenda for the crane docu-
- Make sure that all affected persons always know and understand the latest version of the crane documentation.



WARNING

Crane documentation is not understood!

If parts of the crane documentation are not understood and the tasks are carried out on or with the crane, then there is a danger of accident.

Death, severe bodily injuries, property damage.

► Clear up open questions regarding the crane documentation with Liebherr Service before carrying out the respective task.

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All accident prevention guidelines, operating instructions, load charts etc. are based on the destined use of the crane.

2



Fig.110001

CE marking

The CE marking is a mark according to EU laws:

- Cranes with CE-marking are compliant with the European Directives applicable at the moment of placing the cranes on the market, and in particular European machinery directive 2006/42/EC and product standard EN 13000! Data tag Crane with CE-marking, see illustration 1.
- Cranes that are operated outside the respective area of application of the European machinery directive do not require a CE marking. Data tag Crane without CE marking, see illustration 2.
- It is prohibited to market and operate cranes without a CE marking, which do not meet the productspecific regulations valid in Europe, when a CE marking is specified for the country, especially in the single European market.
- It is prohibited to operate cranes with a tipping load utilization of 85 % or a bypass device that does not comply with EN 13000 within the European Union or in countries that only permit a lower tipping load utilization! The national regulations apply. These cranes may not have a CE marking.

EU Declaration of Conformity

Upon delivery of the equipment with a CE marking, the EU Declaration of Conformity according to Directive 2006/42/EC is provided directly after the cover sheet. The EU Declaration of Conformity is valid in the following form and language in all countries of the European Union, as well as in countries that recognise the Directives of the European Union. Keep the EU Declaration of Conformity in a safe place.



Note

- ▶ This declaration of conformity is only valid when this mobile crane meets the directives and standards stated in this EU Declaration of Conformity. This applies especially for the programming and function of the safety-relevant overload protection. The CE sign must be removed if changes were made on the crane, which do not conform to the stated directives and standards. These include in particular a tipping load utilization (85 % load charts) that are not permissible in Europe and a changed version of the bypass device for the overload protection.
- ▶ If this modified mobile crane is re-imported later into a country which is within the validity range of the EC machine directive, then the importer is responsible for the verification and the written confirmation, that the condition of the mobile crane at importation into the EC meets the directives and standards, which are stated in this declaration of conformity.
- ▶ The complete crane documentation must be complete and present in the official language of the community of the member state, in which the machine is placed into service and / or where it is operated.
- ► For the verification and confirmation we recommend that the importer contacts the crane manufacturer or a person authorized by him.
- ▶ After writing confirmation of the importer on the mobile crane manufacturer, the mobile crane may be labelled again with a CE label and the EU Declaration of Conformity become valid again. For this crane the directives and standard valid at initial delivery consequently continue to apply.

EUDeclaration of conformity

If changes are made to the equipment that were not approved in writing by Liebherr-Werk Ehingen GmbH, then this EU declaration of conformity becomes invalid.

Also observe the note regarding validity on the back of the page.

Type of machine: Mobile crane

Type: XXX
Serial No.: XXX
Year of construction: XXX

Power output of the diesel engine: XXX kW / XXX rpm

 L_{WA} measured¹⁾: XXX dB L_{WA} guaranteed¹⁾: XXX dB

We herewith declare that the above declared machine in its delivery condition complies with all relevant provisions of the following EU Directives:

- Directive 2006/42/EC of the European Parliament on machinery
- Directive 2005/88/EC of the European Parliament amending the Directive 2000/14/EC relating to noise emission¹⁾
- Directive 2014/53/EU of the European Parliament relating to the making available on the market of radio equipment

Applied harmonized standards:

Applied evaluation procedure according to Annex VIII of Directive 2000/14/EC Name of the notified body:

TÜV Rheinland LGA Products GmbH, D-90014 Nürnberg, Identification No.: 0197

Authorized agent for the compilation of the technical documentation:

Head of Design Department Dr.-Hans-Liebherr-Straße 1 89584 Ehingen/Donau

1) during crane operation

Ehingen

(Head of Design Department)

Liebherr-Werk Ehingen GmbH Dr.-Hans-Liebherr-Straße 1 89584 Ehingen Germany 04.07.2017_en



Fig.147811-en: Reprint of the crane's EU Declaration of Conformity

Intended use

The intended use of the crane consists solely in the vertical lifting and lowering of free and unfixed loads, whose weight and center of gravity are known.

To do so, a hook or hook block approved by Liebherr must be reeved on the hoist rope and it may only be operated within the permissible set up configurations.

Driving with the crane, with or without an attached load is only permissible if a corresponding driving or load chart is available. The set up configurations intended for it and the safety conditions must be observed according to the corresponding crane documentation.

Any other use or any other exceeding utilization is **not** destined use.

Destined use also includes the adherence of the required safety guidelines, conditions, prerequisites, set up conditions and working steps in the crane documentation (for example: Operating instructions, load charts, erection and take down charts, job planner).

The manufacturer is **not** liable for damage caused by non-destined use or improper use of the crane. Any associated risk it is carried solely by the owner, the operator and the user of the crane.

Non-destined use

Non-destined use is:

- Working outside the permissible set up configurations according to the load chart.
- Working outside the permissible boom radii and slewing ranges according to the load chart.
- Selecting load charts, which do not correspond to the actual set up configuration.
- Selection of a set up configuration via code or via manual entry, which does not correspond to the actual set up configuration.
- Working with bypassed / deactivated safety equipment, for example bypassed load torque limiter or with bypassed hoist limit switch.
- Increasing the boom radius of the lifted load after a LMB shut-off, for example by diagonally pulling the load.
- Using the support pressure display as information in order to utilize the crane up to the tipping limit!
- Use of equipment parts which are not approved for the crane.
- Operation of the crane in an area exposed to explosion hazards.
- Using the crane at sports and recreational events, especially for "Bungee" jumps and / or "Dinner in the sky".
- On-road driving in an impermissible travel condition (axle load, dimension).
- Driving with the equipment in place in an impermissible travel condition.
- Pushing, pulling or lifting loads with the level control, the sliding beams or the support cylinders.
- Pushing, pulling or lifting loads by actuating the slewing gear, the luffing gear or the telescoping gear.
- Ripping stuck objects loose with the crane.
- Utilizing the crane for a longer period of time for material handling tasks.
- Releasing the crane suddenly (grapple or dumping operation).
- Utilizing the crane when the weight of the load is suspended on the crane is changed, for example by filling a container suspended on the load hook, except:
 - The load torque limiter was checked before for function with a known load.
 - The crane cab is occupied.
 - · The crane is operational.
 - The container size is selected in such a way that an overload of the crane with full load is eliminated within the valid utilized load chart.

The crane may **not** be used for:

- Fastening a stuck load for which the weight and center of gravity are not known and which is released only by flame cutting, for example.
- Letting persons drive along outside the driver's cab.
- Letting persons drive along outside the crane cab.
- Transporting personnel in the crane cab while driving.
- Transporting personnel with the load handling equipment and on the load.
- Transporting of persons with work baskets (cherry pickers), if the national regulations of the responsible work safety organization are not observed.
- Transporting loads and objects on the crane chassis.
- Transporting loads and objects on the crane superstructure.
- Transporting loads and objects on the ballast trailer.
- Transporting loads and objects on the suspended ballast.
- Transporting loads and objects on the boom lattice sections and / or the crane boom.
- Two hook operation without auxiliary equipment.

- Extended material handling operation.
- Crane operation on a floating device if the conditions in chapter "Crane on a floating device" are not fulfilled and the written release by Liebherr Werk Ehingen GmbH is not present.

The crane documentation must be read and used by all persons who are involved in use, operation, assembly and maintenance of the crane.

Ambient temperature

The crane is designed for an ambient temperature of -20 °C to +50 °C.

If the ambient temperature is lower than -20 °C the crane must be modified with "auxiliary equipment for working at low temperatures".



WARNING

Working at low temperatures without the corresponding auxiliary equipment! The crane components can be damaged and fail. The load can rip off. Death, severe bodily injuries, property damage.

If the crane is operated at an ambient temperature lower than -20 °C:

- ▶ Make sure that the crane is equipped with the corresponding "auxiliary equipment for working at low temperatures". Observe and comply with chapter 2.08.
- ▶ Use the operating fluids for the corresponding ambient temperature in time. Observe and comply with chapter 7.07.

Safety equipment

Special attention must be paid to the safety equipment built into the crane. The safety equipment must constantly be checked for functionality. The crane may not be operated if the safety equipment are not working or not working correctly.



Note

Your motto must always be:

► Safety first!

The crane has been built in accordance with the applicable regulations for crane operation and travel operation and has been approved by the relevant authorities.

Equipment and spare parts



WARNING

Danger of fatal injury if original equipment parts are **not** used!

If the crane is operated with **not** original equipment parts, the crane can fail.

Death, severe bodily injuries, property damage.

- ▶ Operate the crane only with original equipment parts!
- ► Crane operation with equipment parts, which do **not** belong to the crane is prohibited!
- ▶ If there is any doubt about the origin of equipment parts, contact Liebherr Service!



WARNING

The crane permit and the manufacturer's warranty will become void!

If any original installed parts are modified, manipulated or replaced (e.g. removal of parts, installation of non-original Liebherr parts), both the crane permit and the manufacturer's warranty will become void.

- Leave installed original parts unchanged.
- ▶ Do not remove installed original parts.
- ▶ Use only Original Liebherr spare parts.
- ▶ If there is any doubt about the origin of spare parts, contact Liebherr Service.

For ordering equipment and spare parts, always keep the crane number handy and provide it.

Definition of directional data for mobile cranes

Driving forward: Driving with the driver's cab on the front.

Driving in reverse: Driving with the taillights of the crane chassis on the front.

Front, **rear**, **right**, **left** in the **driver's cab** refer to the crane chassis. The driver's cab is always in the front.

Front, **rear**, **right**, **left** in the **crane cab** refer to the crane superstructure. Front is always in direction of the placed down boom.

0° crane superstructure slewing angle: The boom points in the longitudinal direction to the rear past the rear of the vehicle.

180° crane superstructure slewing angle: The boom points in the longitudinal direction to the front past the driver's cab.

Definition of directional data for crawler cranes

Driving forward driving forward from the view of the crane operator seated in the crane cab. Turntable in 0° or 180° position.

Driving reverse driving backward from the view of the crane operator seated in the crane cab. Turntable in 0° or 180° position.

Front, **rear**, **right**, **left** always orient themselves on the **crawler travel gear** from the position of the chain tension devices. The chain tension devices on the crawler travel gear are always on the front.

Front, **rear**, **right**, **left** refer to the direction of view of the crane operator seated in the **crane cab**. Front is always in direction of the placed down boom.

Optional equipment and functions

The equipment marked with * and the functions are optionally available and are **not** part of the standard crane (optional equipment).

Conversion chart

	Initial unit	Multiplication factor	Target unit
Length	mm	0.03937	in
	in	25.4000	mm
	mm	0.00328	ft
	ft	304.8	mm
	cm	0.39370	in
	in	2.5400	cm
	cm	0.0328	ft
	ft	30.48	cm
	m	39.37	in
	in	0.0254	m
	m	3.281	ft
	ft	0.3048	m
	km	0.62137	mile
	mile	1.6093	km

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	Initial unit	Multiplication factor	Target unit
Area	cm ²	0.155	in²
	in ²	6.4516	cm ²
	m²	10.764	ft ²
	ft²	0.0929	m²
Volume	cm ³	0.06102	in³
	in³	16.387	cm ³
	m³	35.3147	ft³
	ft³	0.0283	m³
	I	0.001	m³
	m³	1000	I
	I	61.024	in³
	in³	0.016387	I
	I	0.0353	ft³
	ft³	28.32	I
	I	0.264178	US. liq. gal
	US. liq. gal	3.7853265	I
Mass (weight)	kg	2.20462	lb
	Ib	0.45359	kg
	t	2204.62	lb
	lb	0.0004536	t
	t	1.1023	short ton US (tn. sh.)
	short ton US (tn. sh.)	0.90718	t
	t	0.45359	kip
	kip	2.20462	t
Mass / length	kg/m	0.055998	lb/in
	lb/in	17.857781	kg/m
	kg/m	0.67197	lb/ft
	lb/ft	1.48816	kg/m
Force	N	0.2248	lbf
	lbf	4.4483986	N
	kN	224.809	lbf
	lbf	0.0044483986	kN
Turning moment	Nm	8.85075	lbf∙in
	lbf∙in	0.112984	Nm
	Nm	0.73756	lbf·ft
	lbf·ft	1.3559	Nm
Performance	HP (DIN HP)	0.7355	kW
	kW	1.3596	HP (DIN HP)

	Initial unit	Multiplication factor	Target unit
Speed	m/s	39.37	in/s
	in/s	0.0254	m/s
	m/s	3.28084	ft/s
	ft/s	0.3048	m/s
	km/h	0.62137	mph (mi/h)
	mph (mi/h)	1.60935	km/h
	m/s	2.2369	mph (mi/h)
	mph (mi/h)	0.44704	m/s
Pressure	kPa (kN/m²)	0.01	bar
	bar	100	kPa (kN/m²)
	bar	14.5038	psi
	psi	0.06895	bar
	kPa (kN/m²)	0.145038	psi
	psi	6.894759	kPa (kN/m²)
	N/cm²	1.450377	psi
	psi	0.6894759	N/cm²
	N/m²	0.000145038	psi
	psi	6894.759	N/m²
	t/m²	204.81	lbs/ft²
	lbs/ft²	0.0048828	t/m²
Load-related area	m²/t	0.004882	ft²/lbs
	ft²/lb	204.81	m²/t
Temperature	°C	([°C] · 1.8) + 32	°F
	°F	([°F] - 32) / 1.8	°C

Conversion chart

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1 Basic information



Note

- ▶ The load values in the load charts are indicated in tons (t) or pounds (lb)
- ▶ The boom radius is the horizontal distance of the hook block from the rotation axis of the crane superstructure, measured on the ground. The boom flexation is taken into account.
- ▶ In the provided loads, the weight o the hoist rope at reeving according to the load chart has been taken into account. If higher reeved, then the load is reduced by the weight of the additional strands of the hoist rope. The weights of the load lifting equipment and the fastening equipment must be deducted from the given load value.
- ▶ In two-hook operation, the hoist rope on the second load position has not been taken into account. The weight of all strands of the hoist rope on the second load position must be deduced from the load value.
- ► For number values, the decimal digits are separated with a period ".". Decimal digits are on the right of the period ".".



WARNING

Erroneous operation of crane!

Toppling crane, failure of crane structures.

Death, severe bodily injuries, property damage.

- ▶ Working outside the permissible set up configurations, boom radii and slewing ranges according to the load chart is prohibited.
- ▶ Move the boom system even without a load only within the permissible ranges according to the load charts or erection and take-down charts.
- ▶ Move the boom systems when "assembly operation" is engaged only within the permissible ranges according to the load charts or erection and take-down charts.
- ▶ In part limits and notes with character signs (signs, numbers or letters) are given in operating mode icons. They must be adhered to.



Note

In operating modes with ballast trailer or suspended ballast:

▶ Determine the optimum derrick ballast weight with the LICCON job planner.

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1 General



WARNING

Erroneous operation of crane!

Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

- ▶ Do not overload the crane.
- ▶ Adhere to the set up configuration according to the load chart.
- ▶ Adhere to the boom lengths, radii and slewing ranges in the respective load chart.
- ► Check warning and safety equipment for function.
- ▶ Check the weight data for the load to be lifted.
- ▶ Secure the load to avoid oscillation.
- ► Angular pull of the load is prohibited.
- ▶ Do not use the crane to rip loads free.
- ▶ Adhere to the distance to pits, basements and embankments, see Crane operating instructions, chapter 2.04.
- ▶ Make sure that the ground can take on the maximum operating weight of the crane in addition to the weight of the load.
- ▶ Adhere to the safety distance of live overhead electrical lines, see Crane operating instructions, chapter 2.04.

2 Crane operation "Crane supported"



Note

▶ Only crawler crane LR 1750 and LR 1750/2 and crawler crane with a narrow gauge crawler track (LR 1400/2-W and LR 1600/2-W).



WARNING

Erroneous operation of crane!

Toppling crane.

Death or severe injuries, high property damage.

- ▶ Support the crane before turning the superstructure.
- ▶ Swing the support beams out and / or extend them to the support base given in the respective load chart.
- ▶ Install the support plates and / or base plates on the support cylinders, wee Crane operating instructions, chapter 3.10.
- ► Comply with the maximum permissible incline of the crane, see Load chart manual Chapter 40.65.40.
- ▶ Make sure that the crawler carriers have no contact with the ground.
- ▶ Make sure that the crane is horizontally aligned during crane operation.

3 Crane operation "Crane on crawler carriers"



WARNING

Erroneous operation of crane!

Toppling crane.

Death or severe injuries, high property damage.

- ▶ Make sure that the ground is level and without a slope.
- ► Comply with the maximum permissible incline of the crane, see Load chart manual Chapter 40.65.40.

4 Driving the crane with load

See Crane operating instructions, chapter 4.10.

40.10 Utilization of the crane

1 Utilization of the crane (load collective)

3

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1 Utilization of the crane (load collective)

Liebherr mobile and crawler cranes are designed for assembly operation and, according to grouping in class A1 according to ISO 4301-1, they can only take on a limited number of work cycles (N = 63000) with a collective class Q1 = light (kp = 0.125). If cranes are utilized in magnet operation, grapple operation or load handling operation (load collective = "medium" or "higher"), then various points must be observed. See Crane operating instructions, chapter 8.01 "Periodic crane inspections".



Note

If the crane is utilized through above average high load collectives, for example working in magnet operation, grapple operation or load handling operation:

► Carry out inspection intervals in shorter intervals.

NOTICE

Premature wear and cracks in load bearing components!

If the crane is utilized in magnet operation, grapple operation or load handling operation, then premature wear in drive gear sections and / or cracks in load bearing steel structures must be expected!

▶ Reduce loads overall by 50 % compared to the data in the respective load chart.

NOTICE

Increased rope wear and rope damage!

To keep wear of hoist ropes in magnet operation, grapple operation or load handling operation to a minimum, the use of a special rope length is recommended!

If no special rope length is used, then the unused rope layers can loosen up. In high rope pulls, the rope in the unused rope layers can be pulled in and cause rope damage!

▶ In magnet operation, grapple operation or load handling operation use a special rope length so that in the lowest position of the hook block the entire rope length is spooled out to approx. 3–5 remaining coils.

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40.15 Liccon overload protection and limit switch

1 LICCON overload protection

3

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1 LICCON overload protection



WARNING

Improper operation and / or defective warning and safety equipment! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

- ▶ Make sure that all warning and safety equipment are functioning.
- Check the LICCON overload protection for function before every application.
- ▶ Set the LICCON overload protection to the current set up configuration before every application.
- ▶ Do not use the LICCON overload protection as operational shut off device.



Note

▶ The LICCON overload protection turns the hoist movement and boom luffing movement off when the permissible load torque is exceeded. Relief is possible by moving into the opposite direction.

Safety systems to be checked before every crane application:

- The LICCON overload protection must be set to the current set up configuration.
- The LICCON overload protection must be functioning.
- All limit switches must have been checked for function.
- The cam limit switch / winch speed sensor must be correctly adjusted.
- All test devices (for example length sensor, angle sensor, pressure sensor, wind speed sensor) must have been checked for function.

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40.25 Rope winches

1 Rope pull 3

029911-02 40.25 Rope winches

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1 Rope pull



Note

▶ Every rope winch is designed for maximum rope pull. The maximum rope pulls are listed in the following chart. These rope pulls may not be exceeded. Select the minimum number of hoist rope strands (reeving) according to the "hoist rope reeving" chart depending on the load to be lifted, see Load chart manual, chapter 40.90.

Upon assembly of auxiliary equipment:

▶ Monitor the rope routing on the winches to avoid slack rope formation.

Chart	Hoist rope		Use
Hoist rope reeving	Rope diameter	Maximum rope pull	
			Winch 1
Tuno 1	Type 1 28 mm	180 kN (18.1 t)	Winch 2
туре т			Winch 6
			Winch 6C
Type 2	25 mm	125 kN (12.6 t)	Winch 6
Type 3	28 mm	160 kN (16.1 t)	Winch 6

The following applies for telescopic cranes:

 When telescoping in, the crane movement *lift hoist gear* can be used to prevent the hook blocks from touching the ground and thereby the formation of slack rope. Match the speed of the hoist rope movement to the telescoping speed.

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40.30 Hoist rope reevings

1	Hoist rope reeving chart (EST)	3
2	Hoist rope reeving	4
3	5-fold rope safety according to ASME B30.5	4

Fig.152630: Hoist rope reeving chart Single operation

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1 Hoist rope reeving chart (EST)

The *Hoist rope reeving chart (EST)* indicates the maximum permissible load depending on the number of hoist rope strands, see the Load chart manual, chapter 40.90.

The loads result from the maximum rope pull and is determined according to two standards:

- according to EN 13000 with 4.5-fold rope safety
- according to ASME B30.5 with 5-fold rope safety

The *Hoist rope reeving chart (EST)* lists the maximum permissible loads determined according to EN 13000. The maximum permissible loads determined according to ASME B30.5 can be listed, see section "5-fold rope safety according to ASME B30.5".

The values provided in the displayed *Hoist rope reeving chart* (EST) are examples and may not match the present crane.

- 1 Hoist rope reeving icon
- 2 Load icon
- 3 Hoist rope type and rope diameter
 - · This data appears only on for several different hoist ropes
- 4 Number of hoist rope strands
- 5 Maximum permissible load in tons (t) or pounds (lb)
 - · Depending on the number of hoist rope strands
- 6 Page specification

1.1 Crane operation in individual operation

For crane operation in individual operation, only 1 hoist rope winch is used. Take the required reeving from the *chart hoist rope reeving (EST)*.

Example for the determination of reeving:

Load = 280 t

The required reeving with 1 hoist rope winch is according to the chart Hoist rope reeving (EST):

- 18 rope strands (287.0 t)

1.2 Crane operation in parallel operation

In crane operation in parallel operation 2 hoist rope winches are used. The required reeving is determined in 3 steps.

- **Step 1:** Divide the load by 2 since the load is taken up evenly by hoist rope winch 1 and hoist rope winch 2.
- Step 2: Determine the required reeving for 1 hoist rope winch.
- **Step 3:** Use the determined reeving for both hoist rope winches.

Example for the determination of reeving:

Load = 280 t

Step 1: 280 t / 2 hoist rope winches = 140 t

Step 2: The required reeving with 1 hoist rope winch is according to the *chart Hoist rope reeving (EST)*:

- 9 rope strands (153.2 t)

Step 3: The required reeving with 2 hoist rope winches in parallel operation is therefore:

 -2×9 rope strands = 18 rope strands (2 x 153.2 t = 306.4 t)

2 Hoist rope reeving

Observe and adhere to the following points for hoist rope reeving:

- Reeve in the hoist rope depending on the maximum rope pull and the weight of the hoist load between the boom head and the hook block.
- Before reeving in, check if a minimum hoist rope reeving and a minimum hook block weight are required, see the Load chart manual, chapter 40.40.
- For multiple reeving, the maximum possible load is reduced due to the pulley friction and the rope bend.
- Observe the national standard when selecting the maximum permissible load.
- Take the maximum permissible load depending on the number of hoist rope strands from the *Chart Hoist rope reeving* (EST), see Load chart manual, chapter 40.90.
- The LICCON overload protection must be set to the number of hoist rope strands.



Note

To increase the service life of the rope, observe the following points:

- ▶ Higher reeving to reduce the rope pull is recommended.
- ► For care of rope, see Crane operating instructions, chapter 8.04.



Note

► The number of hoist rope strands indicated in the load chart in the load column refers to their maximum load according to EN 13000.

3 5-fold rope safety according to ASME B30.5

In countries where the national standard ASME B30.5 is used, a 5-fold rope safety for rotation-resistant hoist ropes is specified. For example, in Canada, USA and Taiwan.

In countries where the national standard ASME B30.5 is used, up to 13-fold reeving, the maximum loads resulting from the following charts must be used. From a 14-fold reeving, the maximum loads determined according to EN 13000 apply.



Note

- Contrary to ASME B30.5, EN 13000 also takes the degree of efficiency of the rope drive into account. Therefore, in countries where the national standard ASME B30.5 is used, loads up to a certain reeving are lower than in EN 13000. From this specific reeving, the maximum loads determined according to EN 13000 apply. In reference to ASME B30.5, from this specific reeving, restrictions are no longer required.
- ▶ When adhering to the standard specifications in chapter 5.3.2.1.1 (e) of ASME B30.5 (2014), rope pulls according to EN 13000 can also be used.

3.1 ASME B30.5 Chart for hoist rope reeving type 1

Reeving	Maximum load (DIN EN 13000)	Maximum load (ASME B30.5)
1	18.1 t	16.5 t
2	35.9 t	33.0 t
3	53.4 t	49.5 t
4	70.7 t	66.1 t
5	87.7 t	82.6 t
6	104.5 t	99.1 t

3.2 ASME B30.5 Chart for hoist rope reeving type 2

Reeving	Maximum load (DIN EN 13000)	Maximum load (ASME B30.5)
1	12.6 t	11.5 t
2	24.9 t	22.9 t
3	37.1 t	34.4 t
4	49.1 t	45.9 t
5	60.9 t	57.3 t
6	72.5 t	68.8 t
7	84.0 t	80.3 t
8	95.3 t	91.7 t
9	106.4 t	103.2 t
10	117.4 t	114.7 t
11	128.2 t	126.1 t
12	138.8 t	137.6 t
13	149.3 t	149.1 t

3.3 ASME B30.5 Chart for hoist rope reeving type 3

Reeving	Maximum load (DIN EN 13000)	Maximum load (ASME B30.5)
1	16.1 t	14.7 t
2	31.9 t	29.4 t
3	47.5 t	44.0 t
4	62.8 t	58.7 t
5	78.0 t	73.4 t
6	92.8 t	88.1 t
7	107.5 t	102.8 t
8	122.0 t	117.4 t
9	136.2 t	132.1 t
10	150.2 t	146.8 t

Reeving	Maximum load (DIN EN 13000)	Maximum load (ASME B30.5)
11	164.0 t	161.5 t
12	177.6 t	176.1 t
13	191.0 t	190.8 t

40.35 Hook blocks and load hooks

1	Minimum required hook block weight	3
2	Calculating the minimum required hook block weight	4
3	Procedure in case of slack rope	6

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1 Minimum required hook block weight



WARNING

Falling components and hook block!

If the hook block weight is too low, the hoist rope can pull the hook block upward between the winch and the boom head from a certain hoisting height. Boom head and hook block can be damaged. Damaged components and the hoist rope can fall down.

If slack rope forms between the winch and the boom head when spooling the winch out, then the hook block can suddenly fall down!

Personnel can be severely injured or killed!

This could result in high property damage!

- Calculate the minimum required hook block weight before lifting the load.
- ▶ Select the weight of the hook block depending on the calculation.
- ► Slack rope formation is prohibited.

When the hook block weight is too low:

► Select a heavier hook block or increase the hook block weight with auxiliary weights or modification kits.

NOTICE

Rope damage due to insufficient weight of the hook block!

If no minimum system-related hoist reeving is required for the operating mode:

▶ Reeve a hook block at least depending on the weight of the load to be lifted.

If loads are taken up at great heights:

▶ If possible, increase the reeving.

If the reeving was increased:

Increase the hook block weight.

When the hook block weight is too low:

▶ Select a heavier hook block or increase the hook block weight with auxiliary weights or modification kits.



Note

Observe the following notes:

For wear reduction of the hoist rope:

▶ When the available rope lengths and the maximum permissible hook block weight allow to make a higher reeving. Especially then when loads are taken up in great height.

Since the hoist rope weight is taken into account in the load charts at minimum reeving and at minimum radius only to the placement surface of the crane:

▶ At higher reeving or when lowering the hook block under the crane placement surface, the additional hoist rope weight must be deduced from the maximum load.



Note

Observe the permissible hook block weights for erection and take down of the boom system. If the permissible hook block weight for erection and take down of the boom system is exceeded due to the own weight increase of the hook block, then the boom system cannot be erected or taken down with this hook block weight.

Observe the permissible hook block weights for erection and take down in the erection and take down charts.

If the permissible hook block weight for erection and take down is exceeded:

Remove auxiliary weights for the erection and take down of the boom system.

2 Calculating the minimum required hook block weight

Formula
$G = L \times M \times n \times F$

Formula to determine the minimum required hook block weight

Abbreviation	Description	Unit
G	Minimum required hook block weight	kg
L	Overall boom length	m
М	Rope weight	kg/m
n	Reeving	-
F	Factor	-

Explanation of variables to calculate the minimum required hook block weight

2.1 Determining the rope weight for the rope diameter

Rope diameter	Rope weight M
13 mm	0.85 kg/m
15 mm	1.12 kg/m
17 mm	1.45 kg/m
19 mm	1.81 kg/m
21 mm	2.24 kg/m
23 mm	2.67 kg/m
25 mm	3.09 kg/m
28 mm	3.94 kg/m
30 mm	4.46 kg/m
32 mm	5.09 kg/m
38 mm	7.21 kg/m
40 mm	7.99 kg/m
52 mm	13.50 kg/m

Rope diameter and rope weight

2.2 Determining the factor for reeving

Reeving n	Factor F
1	1.31
2	1.34
3	1.36
4	1.39
5	1.41
6	1.44

Reeving n	Factor F
7	1.46
8	1.49
9	1.52
10	1.54
11	1.57
12	1.60
13	1.63
14	1.65
15	1.68
16	1.71
17	1.74
18	1.77
19	1.80
20	1.83
21	1.87
22	1.90
23	1.93
24	1.96
25	2.00
26	2.03
27	2.06
28	2.10
29	2.13
30	2.17

Reeving and factor

2.3 Calculation example for crane operation with 1 hoist rope winch in single operation

Crane configuration:

Length of main boom: 70 mLength of auxiliary boom: 28 m

Rope diameter: 28 mmReeving: 12 rope strands

Variables for calculation:

L = overall boom length = 98 m

M = rope weight for rope diameter 28 mm = 3.94 kg/m

 \mathbf{n} = reeving = 12

F = factor for 12 rope strands = 1.60

Calculation:

 $G = L \times M \times n \times F$

G = 98 m x 3.94 kg/m x 12 x 1.60

G = 7414 kg

The minimum required hook block weight must be 7414 kg.

It is recommended to increase the minimum required hook block weight at least an additional 10 percent (741 kg) to 8155 kg. This improves the spooling performance of the rope. When doing so, the maximum load for the respective boom combination may **not** be exceeded.

2.4 Calculation example for crane operation with 2 hoist rope winches in parallel operation

Crane configuration:

- Length of main boom: 70 m
- Length of auxiliary boom: 28 m
- Rope diameter: 28 mm
- Reeving: 2 x 8 rope strands

Variables for calculation:

- L = overall boom length = 98 m
- **M** = rope weight for rope diameter 28 mm = 3.94 kg/m
- \mathbf{n} = reeving = (2×8)
- F = factor for 8 rope strands = 1.49

Calculation:

- $G = L \times M \times (2 \times n) \times F$
- G = 98 m x 3.94 kg/m x (2 x 8) x 1.49
- G = 9205 kg

The minimum required hook block weight must be 9205 kg.

It is recommended to increase the minimum required hook block weight at least an additional 10 percent (921 kg) to 10126 kg. This improves the spooling performance of the rope. When doing so, the maximum load for the respective boom combination may **not** be exceeded.

3 Procedure in case of slack rope



Note

▶ If the hook block can no longer be lowered due to slack rope formation, then the following steps must be carried out!

3.1 Spooling up loose hoist rope

▶ Spool up loose hoist rope between the boom head and the wind carefully onto the winch.



Note

A slight rope slack must remain between the boom head and the winch!

3.2 Luffing the boom down

NOTICE

Danger of collision!

When luffing the boom down, the hoist rope length can shorten and pull the hook block against the boom head.

- Monitor the distance of the hook block to the boom head.
- Luff the boom down carefully.



Result:

- The hoist rope between the boom head and the winch is tensioned.

3.3 Lowering the hook block

▶ Lower the hook block carefully with the hoist gear.

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Fig.195219

1 Crane operation with 1 hoist rope F= 180 kN and d= 28 mm (type1; hoist rope length: 1050 m)



Note

▶ The total boom length can be limited depending on the reeving and the hook block weight. The basis of the noted values is crane-specific data.

Crane-specific data							
Rope diameter	28.0 mm						
Rope weight	0.00394 t/m						
Boom piecing	6 m						
Minimum boom length	24 m						
Maximum boom length	192 m						
Number of hoist winches	1						
Hoist rope length	1050 m						
Derrick to hoist rope change over	31.0 m						

1.1 Load hook 16 E (0 rope pulleys / 16.0 t load)

Reeving	Maximum possible total boom length with the following hook block weigh							
	1.1 t wi- thout auxi- liary weights							
1	192 m				·			

1.2 Hook block 50 EM (1 rope pulley / 50.0 t load)

Reeving	Maximum possible total boom length with the following hook block weight:						
	1.0 t wi- thout auxi- liary weights	2.0 t for 2 auxiliary weights	3.0 t for 4 auxiliary weights				
3	60 m	120 m	186 m				
2	90 m	186 m	192 m				
1	192 m	192 m	192 m				

1.3 Hook block 125 DM (3 rope pulleys / 121.0 t load)

Reeving	Maximum possible total boom length with the following hook block weight						
	1.5 t wi- thout auxi- liary weights	2.5 t for 2 auxiliary weights	3.5 t for 4 auxiliary weights	4.5 t for 6 auxiliary weights	5.5 t for 8 auxiliary weights		
7	36 m	60 m	84 m	108 m	120 m		
6	42 m	72 m	102 m	132 m	138 m		
5	48 m	84 m	120 m	156 m	162 m		
4	66 m	114 m	156 m	192 m	192 m		
3	90 m	150 m	192 m	192 m	192 m		
2	138 m	192 m	192 m	192 m	192 m		
1	192 m	192 m	192 m	192 m	192 m		

1.4 Hook block 200 DM (5 rope pulleys / 184.5 t load)

Reeving	Maximum possible total boom length with the following hook block weight:						
	2.0 t wi- thout auxi- liary weights	3.0 t for 2 auxiliary weights	4.0 t for 4 auxiliary weights	5.0 t for 6 auxiliary weights	6.0 t for 8 auxiliary weights	7.0 t for 10 auxiliary weights	
11	24 m	42 m	54 m	72 m	78 m	78 m	
10	30 m	48 m	60 m	78 m	84 m	84 m	
9	36 m	54 m	72 m	90 m	96 m	96 m	
8	42 m	60 m	84 m	102 m	108 m	108 m	
7	48 m	72 m	96 m	120 m	120 m	120 m	
6	54 m	84 m	114 m	138 m	138 m	138 m	
5	66 m	102 m	138 m	162 m	162 m	162 m	
4	90 m	132 m	180 m	192 m	192 m	192 m	
3	120 m	186 m	192 m	192 m	192 m	192 m	
2	186 m	192 m	192 m	192 m	192 m	192 m	
1	192 m	192 m	192 m	192 m	192 m	192 m	

1.5 Double hook block 400 - 200 DMZ (5 rope pulleys / 184.5 t load)

Reeving	Maximum possible total boom length with the following hook block weight:					
	5.0 t wi- thout auxi- liary weights	6.0 t for 2 auxiliary weights	7.0 t for 4 auxiliary weights			
11	72 m	78 m	78 m			
10	78 m	84 m	84 m			
9	90 m	96 m	96 m			
8	102 m	108 m	108 m			
7	120 m	120 m	120 m			
6	138 m	138 m	138 m			
5	162 m	162 m	162 m			
4	192 m	192 m	192 m			
3	192 m	192 m	192 m			
2	192 m	192 m	192 m			
1	192 m	192 m	192 m			

1.6 Double hook block 600 - 300 DMZ (9 rope pulleys / 300.0 t load)

Reeving	Maximum possible total boom length with the following hook block weight:						
	8.5 t wi- thout auxi- liary weights						
19	48 m						
18	48 m						
17	54 m						
16	54 m						
15	60 m						
14	60 m						
13	66 m						
12	72 m						
11	78 m						
10	84 m						
9	96 m						
8	108 m						
7	120 m						
6	138 m						
5	162 m						
4	192 m						

Reeving	Maximum po	Maximum possible total boom length with the following hook block weight							
	8.5 t wi- thout auxi- liary weights								
3	192 m								
2	192 m								
1	192 m								

2 Crane operation with 1 hoist rope F= 180 kN and d=28 mm (type1; hoist rope length: 1100 m)



Note

▶ The total boom length can be limited depending on the reeving and the hook block weight. The basis of the noted values is crane-specific data.

Crane-specific data						
Rope diameter	28.0 mm					
Rope weight	0.00394 t/m					
Boom piecing	6 m					
Minimum boom length	24 m					
Maximum boom length	192 m					
Number of hoist winches	1					
Hoist rope length	1100 m					
Derrick to hoist rope change over	31.0 m					

2.1 Load hook 16 E (0 rope pulleys / 16.0 t load)

Reeving	Maximum possible total boom length with the following hook block weight:							
	1.1 t wi- thout auxi- liary weights							
1	192 m							

2.2 Hook block 50 EM (1 rope pulley / 50.0 t load)

Reeving	Maximum p	Maximum possible total boom length with the following hook block weight:						
	1.0 t wi- thout auxi- liary weights	2.0 t for 2 auxiliary weights	3.0 t for 4 auxiliary weights					
3	60 m	120 m	186 m					
2	90 m	186 m	192 m					
1	192 m	192 m	192 m					

2.3 Hook block 125 DM (3 rope pulleys / 121.0 t load)

Reeving	Maximum possible total boom length with the following hook block						
	1.5 t wi- thout auxi- liary weights	2.5 t for 2 auxiliary weights	3.5 t for 4 auxiliary weights	4.5 t for 6 auxiliary weights	5.5 t for 8 auxiliary weights		
7	36 m	60 m	84 m	108 m	126 m		
6	42 m	72 m	102 m	132 m	144 m		
5	48 m	84 m	120 m	156 m	168 m		
4	66 m	114 m	156 m	192 m	192 m		
3	90 m	150 m	192 m	192 m	192 m		
2	138 m	192 m	192 m	192 m	192 m		
1	192 m	192 m	192 m	192 m	192 m		

2.4 Hook block 200 DM (5 rope pulleys / 184.5 t load)

Reeving	Maximum p	Maximum possible total boom length with the following hook block weight:				ock weight:
	2.0 t wi- thout auxi- liary weights	3.0 t for 2 auxiliary weights	4.0 t for 4 auxiliary weights	5.0 t for 6 auxiliary weights	6.0 t for 8 auxiliary weights	7.0 t for 10 auxiliary weights
11	24 m	42 m	54 m	72 m	84 m	84 m
10	30 m	48 m	60 m	78 m	90 m	90 m
9	36 m	54 m	72 m	90 m	102 m	102 m
8	42 m	60 m	84 m	102 m	108 m	108 m
7	48 m	72 m	96 m	120 m	126 m	126 m
6	54 m	84 m	114 m	144 m	144 m	144 m
5	66 m	102 m	138 m	168 m	168 m	168 m
4	90 m	132 m	180 m	192 m	192 m	192 m

Reeving	Maximum p	Maximum possible total boom length with the following hook block weight:				
	2.0 t wi- thout auxi- liary weights	3.0 t for 2 auxiliary weights	4.0 t for 4 auxiliary weights	5.0 t for 6 auxiliary weights	6.0 t for 8 auxiliary weights	7.0 t for 10 auxiliary weights
3	120 m	186 m	192 m	192 m	192 m	192 m
2	186 m	192 m	192 m	192 m	192 m	192 m
1	192 m	192 m	192 m	192 m	192 m	192 m

2.5 Double hook block 400 - 200 DMZ (5 rope pulleys / 184.5 t load)

Reeving	Maximum p	ossible total	boom length	with the follo	wing hook bl	ock weight:
	5.0 t wi- thout auxi- liary weights	6.0 t for 2 auxiliary weights	7.0 t for 4 auxiliary weights			
11	72 m	84 m	84 m			
10	78 m	90 m	90 m			
9	90 m	102 m	102 m			
8	102 m	108 m	108 m			
7	120 m	126 m	126 m			
6	144 m	144 m	144 m			
5	168 m	168 m	168 m			
4	192 m	192 m	192 m			
3	192 m	192 m	192 m			
2	192 m	192 m	192 m			
1	192 m	192 m	192 m			

2.6 Double hook block 600 - 300 DMZ (9 rope pulleys / 300.0 t load)

Reeving	Maximum possible total boom length with the following hook block weig				ock weight:	
	8.5 t wi- thout auxi- liary weights					
19	48 m					
18	48 m					
17	54 m					
16	60 m					
15	60 m					
14	66 m					
13	72 m					
12	78 m					

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Reeving	Maximum possible total boom length with the following hook block weight:				
	8.5 t wi- thout auxi- liary weights				
11	84 m				
10	90 m				
9	102 m				
8	108 m				
7	126 m				
6	144 m				
5	168 m				
4	192 m				
3	192 m				
2	192 m				
1	192 m				

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1	Crane operation with 2 hoist ropes F= 180 kN and d=28 mm (type1; length hoist rope: 1050 m)	3
2	Crane operation with 2 hoist ropes F= 180 kN and d=28 mm (type1; length hoist rope: 1100 m)	4

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Fig.195219

1 Crane operation with 2 hoist ropes F= 180 kN and d=28 mm (type1; length hoist rope: 1050 m)



Note

▶ The total boom length can be limited depending on the reeving and the hook block weight. The basis of the noted values is crane-specific data.

Crane-specific data				
Rope diameter	28.0 mm			
Rope weight	0.00394 t/m			
Boom piecing	6 m			
Minimum boom length	24 m			
Maximum boom length	192 m			
Number of hoist winches	2			
Hoist rope length	1050 m			
Derrick to hoist rope change over	31.0 m			

1.1 Double hook block 400 - 200 DMZ (2 x 5 rope pulleys / 369.0 t load)

Reeving	Maximum possible total boom length with the following hook block weight:				ock weight:	
	6.0 t wi- thout auxi- liary weights	7.0 t for 2 auxiliary weights	8.0 t for 4 auxiliary weights	9.0 t for 6 auxiliary weights	10.0 t for 8 auxiliary weights	11.0 t for 10 auxiliary weights
2 x 11	42 m	48 m	54 m	66 m	72 m	78 m
2 x 10	48 m	54 m	60 m	72 m	78 m	84 m
2 x 9	54 m	60 m	72 m	78 m	90 m	96 m
2 x 8	60 m	72 m	84 m	90 m	102 m	108 m
2 x 7	72 m	84 m	96 m	108 m	120 m	120 m
2 x 6	84 m	102 m	114 m	132 m	138 m	138 m

1.2 Double hook block 600 - 300 DMZ (2 x 9 rope pulleys / 600.0 t load)

Reeving	Maximum p	Maximum possible total boom length with the following hook block weight:				
	11.0 t wi- thout auxi- liary weights	12.0 t for 2 auxiliary weights	13.0 t for 4 auxiliary weights	14.0 t for 6 auxiliary weights	15.0 t for 8 auxiliary weights	16.0 t for 10 auxiliary weights
2 x 19	36 m	42 m	48 m	48 m	48 m	54 m ¹⁾
2 x 18	42 m	42 m	48 m	48 m	48 m	54 m ¹⁾
2 x 17	42 m	48 m	54 m	54 m	54 m	60 m ¹⁾
2 x 16	48 m	54 m	54 m	54 m	54 m	60 m 1)

Reeving	Maximum possible total boom length with the following hook block weight:					
	11.0 t wi- thout auxi- liary weights	12.0 t for 2 auxiliary weights	13.0 t for 4 auxiliary weights	14.0 t for 6 auxiliary weights	15.0 t for 8 auxiliary weights	16.0 t for 10 auxiliary weights
2 x 15	54 m	60 m	60 m	60 m	60 m	66 m 1)
2 x 14	60 m	60 m	60 m	60 m	60 m	66 m 1)
2 x 13	66 m	66 m	66 m	66 m	66 m	72 m ¹⁾
2 x 12	72 m	72 m	72 m	72 m	72 m	72 m
2 x 11	78 m	78 m	78 m	78 m	78 m	78 m
2 x 10	84 m	84 m	84 m	84 m	84 m	84 m
2 x 9	96 m	96 m	96 m	96 m	96 m	96 m
2 x 8	108 m	108 m	108 m	108 m	108 m	108 m
2 x 7	120 m	120 m	120 m	120 m	120 m	120 m
2 x 6	138 m	138 m	138 m	138 m	138 m	138 m

¹⁾ Hook block does not reach the ground due to the hoist rope length.

2 Crane operation with 2 hoist ropes F= 180 kN and d=28 mm (type1; length hoist rope: 1100 m)



Note

▶ The total boom length can be limited depending on the reeving and the hook block weight. The basis of the noted values is crane-specific data.

Crane-specific data				
Rope diameter	28.0 mm			
Rope weight	0.00394 t/m			
Boom piecing	6 m			
Minimum boom length	24 m			
Maximum boom length	192 m			
Number of hoist winches	2			
Hoist rope length	1100 m			
Derrick to hoist rope change over	31.0 m			

2.1 Double hook block 400 - 200 DMZ (2 x 5 rope pulleys / 369.0 t load)

Reeving	Maximum possible total boom length with the following hook block weight:							
	6.0 t wi- thout auxi- liary weights	7.0 t for 2 auxiliary weights	8.0 t for 4 auxiliary weights	9.0 t for 6 auxiliary weights	10.0 t for 8 auxiliary weights	11.0 t for 10 auxiliary weights		
2 x 11	42 m	48 m	54 m	66 m	72 m	78 m		
2 x 10	48 m	54 m	60 m	72 m	78 m	90 m		
2 x 9	54 m	60 m	72 m	78 m	90 m	102 m		
2 x 8	60 m	72 m	84 m	90 m	102 m	114 m		
2 x 7	72 m	84 m	96 m	108 m	120 m	126 m		
2 x 6	84 m	102 m	114 m	132 m	144 m	144 m		

2.2 Double hook block 600 - 300 DMZ (2 x 9 rope pulleys / 600.0 t load)

Reeving	Maximum possible total boom length with the following hook block weight:							
	11.0 t wi- thout auxi- liary weights	12.0 t for 2 auxiliary weights	13.0 t for 4 auxiliary weights	14.0 t for 6 auxiliary weights	15.0 t for 8 auxiliary weights	16.0 t for 10 auxiliary weights		
2 x 19	36 m	42 m	48 m	48 m	48 m	54 m ¹⁾		
2 x 18	42 m	42 m	48 m	48 m	48 m	54 m		
2 x 17	42 m	48 m	54 m	54 m	54 m	60 m 1)		
2 x 16	48 m	54 m	60 m	60 m	60 m	60 m		
2 x 15	54 m	60 m	60 m	60 m	60 m	66 m 1)		
2 x 14	60 m	60 m	66 m	66 m	66 m	66 m		
2 x 13	66 m	72 m	72 m	72 m	72 m	72 m		
2 x 12	72 m	78 m	78 m	78 m	78 m	78 m		
2 x 11	78 m	84 m	84 m	84 m	84 m	84 m		
2 x 10	90 m	90 m	90 m	90 m	90 m	90 m		
2 x 9	102 m	102 m	102 m	102 m	102 m	102 m		
2 x 8	108 m	108 m	108 m	108 m	108 m	114 m		
2 x 7	126 m	126 m	126 m	126 m	126 m	126 m		
2 x 6	144 m	144 m	144 m	144 m	144 m	144 m		

¹⁾ Hook block does not reach the ground due to the hoist rope length.

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40.35.40 Distance between hook and roller set in the boom head

Distance between hook and pulley set in boom head

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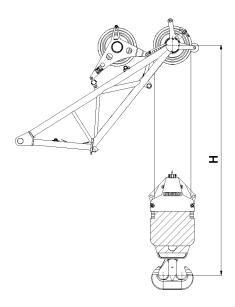


Fig.115552: Distance Hook and pulley set in boom head

1 Distance between hook and pulley set in boom head

To determine the hook height, the hoisting height between the distance and the hook and the center of the pulley set in the boom head must be reduced.

The distances for the hook block used can be taken from the following charts.

Hook block	Distance H		
	SW-end section	W-connector head	F-end section
Load hook 16 E	4.4 m	4.4 m	5.0 m
Hook block 50 EM	4.9 m	4.9 m	5.6 m
Hook block 125 DM	5.1 m	5.1 m	5.7 m
Hook block 200 DM	5.2 m	5.2 m	5.8 m
Double hook block 400 / 200 DMZ	6.2 m	6.2 m	-
Double hook block 600 / 300 DMZ	6.7 m	6.7 m	-

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40.40 Minimum reeving of hoist rope and minimum weight of hook block

1 Minimum reevings of the hoist rope and minimum weights of hook block

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1 Minimum reevings of the hoist rope and minimum weights of hook block



Note

- ► For safe crane operation, the minimum reevings of the hoist rope and the minimum weights of the hook block are required.
- ► For the determination of the minimum reevings of the hoist rope, four limiting criteria must be noted.
- ▶ The limiting criteria are described in the following sections.

The following limiting criteria must be observed:

- Maximum permissible rope pull (n_{min [reeving chart]})
- Static reasons $(n_{min [Static]})$, $(G_{min [Static]})$
- Safe load weighing of the LICCON overload protection (n_{min II load weighing})
- Parallel operation (n_{min [Parallel operation]})

1.1 Limiting criterion: Maximum permissible rope pull

The maximum rope pulls may not be exceeded. Select the minimum reeving of the hoist rope according to the "Chart Hoist rope reeving", depending on the load to be lifted, see Load chart manual, chapter 40.90.

1.2 Limiting criterion: Static reasons



Note

Minimum values that prevent uncontrolled movements of the boom to the rear in steep boom positions.

1.2.1 Minimum reeving hoist rope SW-; SDW-; SDWV-operation

TAB 181 00 027-00



WARNING

Minimum reeving of the hoist rope and minimum weight of hook block not adhered to! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

▶ Adhere to the minimum reevings of the hoist rope and the minimum weights of the hook block depending on the angle range of the main boom, see the following chart.



WARNING

Minimum reeving of the hoist rope not adhered to!

Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

When the boom nose is installed on the luffing lattice jib W- 12 m:

▶ Reeve in the boom nose at least 2x.



Note

- ▶ The angle of the main boom describes the incline of the main boom to the horizontal.
- ▶ The data listed in the chart applies generally also for the operation with boom nose.
- ▶ Minimum reevings of the hoist rope are valid for operation with 1 hoist rope winch and for operation with 2 hoist rope winches.

Example for 6 minimum reevings of the hoist rope:

1 Hoist rope winch: 1 x 6 Reevings

2 Hoist rope winches: 2 x 3 Reevings

Во	om	Minimum ree- ving of the hoist rope	Minimum weight hook block	
S	W		Angle main boom > 70°	Angle main boom < 70°
S- 36 m	W- 12 m 1)	8	3.0 t	-
3- 30 111	W- 18 m ¹⁾	4	2.0 t	-
S- 42 m	W- 12 m ¹⁾	8	3.0 t	-
3- 42 111	W- 18 m ¹⁾	4	2.0 t	-
S- 48 m	W- 12 m 1)	10	4.0 t	-
3- 40 111	W- 18 m ¹⁾	4	4.0 t	-
S- 54 m	W- 12 m ¹⁾	10	7.0 t	4.0 t
3- 54 111	W- 18 m ¹⁾	4	4.0 t	-
	W- 12 m 1)	12	8.0 t	6.0 t
S- 60 m	W- 18 m 1)	4	5.0 t	-
	W- 24 m	4	2.0 t	-
	W- 12 m 1)	14	9.0 t	7.0 t
S- 66 m	W- 18 m ¹⁾	6	6.0 t	-
3- 00 111	W- 24 m	4	3.5 t	-
	W- 30 m	4	3.5 t	-
	W- 12 m 1)	16	11.0 t	9.0 t
S- 72 m	W- 18 m 1)	6	7.0 t	4.0 t
3- 72 111	W- 24 m	4	5.0 t	-
	W- 30 m	4	5.0 t	-
	W- 12 m 1)	14	13.0 t	10.0 t
	W- 18 m ¹⁾	8	8.0 t	5.0 t
S- 78 m	W- 24 m	6	5.0 t	-
	W- 30 m	6	5.0 t	-
	W- 36 m	4	3.0 t	-
	W- 12 m 1)	12	16.0 t	12.0 t
	W- 18 m 1)	10	10.0 t	6.0 t
S- 84 m	W- 24 m	6	7.0 t	4.0 t
	W- 30 m	6	7.0 t	-
	W- 36 m	4	3.0 t	-

1.2.2 Minimum reeving hoist rope SLF-; SL3F-operation

TAB 181 00 047-00



WARNING

Minimum reeving of the hoist rope and minimum weight of hook block not adhered to! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

- Adhere to the minimum reevings of the hoist rope and the minimum weights of the hook block in the specified angle range of the main boom, see the following chart.
- ▶ Take the hook block down only below the specified angle range of the main boom.

¹⁾ Luffing lattice jib valid only for SDWV-operation.

Во	om	Minimum ree- ving of the hoist rope	Minimum weight hook block		of the main om
SL	F			from	up to
	F- 12 m / 11°	7	2.5 t	75°	87°
SL- 54 m	F- 12 m / 11°	6	3.0 t	75°	87°
up to	F- 12 m / 11°	5	3.5 t	75°	87°
SL3- 108 m	F- 12 m / 11°	4	4.0 t	75°	87°
	F- 12 m / 16°	3	1.5 t	75°	87°

1.2.3 Minimum reeving of the hoist rope SL10DFB-; SL10DFB2-operation

TAB 181 00 191-00



WARNING

Minimum reeving of the hoist rope and minimum weight of hook block not adhered to! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

▶ Adhere to the minimum reevings of the hoist rope and minimum weights of the hook block, see the following chart.

Boom		Minimum reeving of the hoist rope	Minimum weight hook block
SL	F		
SL10- 102 m	F- 12 m / 11°	5	6.0 t
To SL10- 153 m	F- 12 m / 16°	4	3.0 t

1.2.4 Minimum reeving hoist rope SL2DFB-; SL4DFB-; SL2DFBW-; SL2DFB2-; SL4DFB2-operation

TAB 181 00 192-01



WARNING

Minimum reeving of the hoist rope and minimum weight of hook block not adhered to! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

► Adhere to the minimum reevings of the hoist rope and minimum weights of the hook block, see the following chart.

Во	om	Minimum reeving of the hoist rope	Minimum weight hook block
SL	F		
	F- 12 m / 11°	5	6.0 t
SL- 72 m	F- 12 m / 16°	4	3.0 t
to SL- 138 m	F- 18 m / 13°	4	2.0 t
	F- 18 m / 18°	4	2.0 t

1.2.5 Minimum reeving hoist rope HSL2DFB-; HSL4DFB-; HSL2DFBW-; HSL4DFBW-; HSL4DFB2-operation

TAB 181 00 319-00



WARNING

Minimum reeving of the hoist rope and minimum weight of hook block not adhered to! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

▶ Adhere to the minimum reevings of the hoist rope and minimum weights of the hook block, see the following chart.

Boom		Minimum reeving of the hoist rope	Minimum weight hook block
HSL	F		
	F- 12 m / 11°	5	6.0 t
HSL- 72 m	F- 12 m / 16°	4	3.0 t
to HSL- 138 m	F- 18 m / 13°	4	2.0 t
	F- 18 m / 18°	4	2.0 t

1.2.6 Minimum reeving of the hoist rope SL13DFB-; SL13DFB2-operation

TAB 181 00 340-00



WARNING

Minimum reeving of the hoist rope and minimum weight of hook block not adhered to! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

▶ Adhere to the minimum reevings of the hoist rope and minimum weights of the hook block, see the following chart.

Boom		Minimum reeving of the hoist rope	Minimum weight hook block
SL	F		
SL13- 102 m	F- 12 m / 11°	5	6.0 t
to SL13- 156 m	F- 12 m / 16°	4	3.0 t

1.2.7 Minimum reeving hoist rope HSDW-; HSDWB-; HSDWBB-; HSDWVB-; HSDWVBB-; HSDWVBW-operation

TAB 181 00 343-00



WARNING

Minimum reeving of the hoist rope and minimum weight of hook block not adhered to! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

▶ Adhere to the minimum reevings of the hoist rope and the minimum weights of the hook block depending on the angle range of the main boom, see the following chart.



WARNING

Minimum reeving of the hoist rope not adhered to! Toppling crane, failure of crane structures. Death or severe injuries, high property damage.

When the boom nose is installed on the luffing lattice jib W- 12 m:

Reeve in the boom nose at least 2x.



Note

- ▶ The angle of the main boom describes the incline of the main boom to the horizontal.
- ▶ The data listed in the chart applies generally also for the operation with boom nose.
- ▶ Minimum reevings of the hoist rope are valid for operation with 1 hoist rope winch and for operation with 2 hoist rope winches.

Example for 6 minimum reevings of the hoist rope:

1 Hoist rope winch: 1 x 6 Reevings2 Hoist rope winches: 2 x 3 Reevings

Во	om	Minimum ree- ving of the hoist rope	Minimum weight hook block	
нѕ	W		Angle main boom > 70°	Angle main boom < 70°
HS- 36 m	W- 12 m ²⁾	8	3.0 t	-
113-30111	W- 18 m ²⁾	4	2.0 t	-
HS- 42 m	W- 12 m ²⁾	8	3.0 t	-
110- 42 111	W- 18 m ²⁾	4	2.0 t	-
HS- 48 m	W- 12 m ²⁾	10	4.0 t	-
113-40111	W- 18 m ²⁾	4	4.0 t	-
HS- 54 m	W- 12 m ²⁾	10	7.0 t	4.0 t
113- 54 111	W- 18 m ²⁾	4	4.0 t	-
	W- 12 m ²⁾	12	8.0 t	6.0 t
HS- 60 m	W- 18 m ²⁾	4	5.0 t	-
	W- 24 m	4	2.0 t	-
	W- 12 m ²⁾	14	9.0 t	7.0 t
HS- 66 m	W- 18 m ²⁾	6	6.0 t	-
113-00111	W- 24 m	4	3.5 t	-
	W- 30 m	4	3.5 t	-
	W- 12 m ²⁾	16	11.0 t	9.0 t
HS- 72 m	W- 18 m ²⁾	6	7.0 t	4.0 t
110-72111	W- 24 m	4	5.0 t	-
	W- 30 m	4	5.0 t	-

Во	om	Minimum ree- ving of the hoist rope	Minimum weight hook block	
нѕ	W		Angle main boom > 70°	Angle main boom < 70°
	W- 12 m ²⁾	14	13.0 t	10.0 t
	W- 18 m ²⁾	8	8.0 t	5.0 t
HS- 78 m	W- 24 m	6	5.0 t	-
	W- 30 m	6	5.0 t	-
	W- 36 m	4	3.0 t	-
	W- 12 m ²⁾	12	16.0 t	12.0 t
	W- 18 m ²⁾	10	10.0 t	6.0 t
HS- 84 m	W- 24 m	6	7.0 t	4.0 t
	W- 30 m	6	7.0 t	-
	W- 36 m	4	3.0 t	-
	W- 18 m ²⁾	12	11.0 t	8.0 t
	W- 24 m	6	10.0 t	4.0 t
HS- 90 m	W- 30 m	6	9.0 t	-
HS- 90 III	W- 36 m	4	5.0 t	-
	W- 42 m	4	4.0 t	-
	W- 48 m	4	4.0 t	-
	W- 24 m	8	11.0 t	6.0 t
	W- 30 m	6	11.0 t	-
HS- 96 m	W- 36 m	4	7.0 t	-
	W- 42 m	4	4.0 t	-
	W- 48 m	4	4.0 t	-
	W- 24 m	6	15.0 t	6.0 t
	W- 30 m	6	13.0 t	5.0 t
110 400	W- 36 m	6	8.0 t	-
HS- 102 m	W- 42 m	4	5.0 t	-
	W- 48 m	4	4.0 t	-
	W- 54 m	4	4.0 t	-

²⁾ Luffing lattice jibs valid only for HSDWV-operation.

1.2.8 Minimum reeving hoist rope SL8F3-operation

TAB 181 00 516-01



WARNING

Minimum reeving of the hoist rope and minimum weight of hook block not adhered to! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

▶ Adhere to the minimum reevings of the hoist rope and minimum weights of the hook block, see the following chart.

Во	om	Minimum reeving of the hoist rope	Minimum weight hook block
SL8	F3		
	F3- 12 m / 10°	8	2.0 t
	F3- 12 m / 10°	7	2.5 t
SL8- 72 m	F3- 12 m / 10°	5	3.0 t
to SL- 105 m	F3- 12 m / 10°	4	3.5 t
	F3- 12 m / 10°	3	4.0 t
	F3- 12 m / 15°	4	1.5 t

1.3 Limiting criterion: Safe load weighing of LICCON overload protection



Note

- ► The weighing accuracy of the LICCON overload protection is too low for an accurate reading for small hoist rope reevings and steep boom positions.
- ► The minimum reevings of the hoist rope specified in the charts ensure that the crane will not be overloaded unnoticed especially in boom positions steeper than 60° to the horizontal.



WARNING

Minimum reeving of the hoist rope not adhered to!

Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

▶ Adhere to the minimum reevings of the hoist rope on the boom on which the load is lifted according to the following charts.

1.3.1 Minimum reeving of the hoist rope on main boom, load on main boom

Operating modes without derrick

Operating mode	Length of main boom	Minimum reeving of the hoist rope	
		Individual operation	Parallel operation
	24 m	10	2 x 10
	30 m	9	2 x 9
	36 m	8	2 x 8
	42 m	7	2 x 7
	48 m	6	2 x 6
	54 m	5	2 x 6
S	60 m	4	2 x 6
HS	66 m	4	-
	72 m	4	-
	78 m	3	-
	84 m	3	-
	90 m	3	-

Operating mode	Length of main boom	Minimum reeving of the hoist rope		
		Individual operation	Parallel operation	
	96 m	3	-	
	102 m	3	-	
	108 m	3	-	

Operating modes with derrick

Operating mode	Length of main boom	Minimum reeving of the hoist rope	
		Individual operation	Parallel operation
	36 m	13	2 x 14
	42 m	14	2 x 14
	48 m	12	2 x 12
	54 m	10	2 x 10
	60 m	8	2 x 10
	66 m	7	2 x 8
	72 m	6	2 x 8
	78 m	6	2 x 6
SD	84 m	5	2 x 6
HSD	90 m	5	2 x 6
	96 m	4	2 x 6
	102 m	4	-
	108 m	4	-
	114 m	4	-
	120 m	3	-
	126 m	3	-
	132 m	3	-
	138 m	3	-
	144 m	3	-

1.3.2 Minimum reeving Hoist rope on luffing lattice jib (WV), load on luffing lattice jib (WV)

Operating mode	Length of the luffing lat- tice jib	Minimum reeving of the hoist rope	
		Individual operation	Parallel operation
	12 m	5	2 x 6
	18 m	5	2 x 6
	24 m	4	2 x 6
	30 m	4	-
	36 m	3	-

1.3.3 Minimum reeving Hoist rope on luffing lattice jib (W), load on luffing lattice jib (W)

Operating mode	Length of the luffing lat- tice jib	Minimum reeving of the hoist rope	
		Individual operation	Parallel operation
	24 m	5	2 x 6
	30 m	5	2 x 6
	36 m	4	2 x 6
	42 m	4	-
	48 m	3	-
	54 m	3	-
W	60 m	3	-
	66 m	3	-
	72 m	3	-
	78 m	2	-
	84 m	2	-
	90 m	2	-
	96 m	2	

1.4 Limiting criterion: Parallel operation



Note

▶ With the minimum reeving of the hoist rope of 2 x 6 rope strands it is ensured that an impermissible incline position of the hook block is avoided in parallel operation of winch 1 and winch 2. This ensures the parallel run of winch 1 and winch 2.



WARNING

Minimum reeving of the hoist rope not adhered to! Toppling crane, failure of crane structures. Death or severe injuries, high property damage.

▶ Adhere to the minimum reeving of the hoist rope of 2 x 6 rope strands.

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40.45 Determination of hoist rope reeving and hook block

Procedure to determine the required hoist rope reeving and hook block

3

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1 Procedure to determine the required hoist rope reeving and hook block



Note

▶ Before every lift, the required hoist rope reeving and hook block must be determined. The following shows step by step how the hoist rope reeving and the hook block must be determined in single operation (crane operation with 1 hoist rope winch) and in parallel operation (crane operation with 2 hoist rope winches).

1.1 Step 1: Determination of load

The loads noted in the load charts include the following weights:

- Weight of the load to be lifted
- Weight of the load lifting equipment (hook block and load hook)
- Weight of the fastening equipment



Note

- ▶ Before determination of the hoist rope reeving, the load (weight of load + weight of load lifting equipment + weight of fastening equipment) must be determined.
- ▶ Determine the weight of the load.
- ➤ To determine the weight of the required hook block for the load to be lifted, see Load chart manual, Chapter 40.35.
- ▶ Determine the weight of the fastening equipment.

Result:

Weight of the load.

1.2 Step 2: Determination of minimum reeving hoist rope depending on maximum permissible rope pull (n_{min [reeving chart}))



Note

- ▶ Determine the hoist rope reevings depending on maximum rope pull from the "Chart Hoist rope reeving" (EST), see Load chart manual Chapter 40.90.
- ▶ Determine the hoist rope reeving n_{min [reeving chart]} for the load in crane operation with 1 hoist rope winch in single operation.

or

Determine the hoist rope reeving $n_{min \, [reeving \, chart]}$ for the load in crane operation with 2 hoist rope winches in parallel operation.

Result:

Required reeving n_{min [reeving chart]}.

1.3 Step 3: Determination of minimum reeving hoist rope and minimum weight hook block for static reasons $(n_{min \, [Static]})$, $(G_{min \, [Static]})$



Note

- ▶ Determine the required hoist rope reevings and hook block weights for static reasons, see Load chart manual, Chapter 40.40.
- ▶ Determine the minimum reevings of the hoist rope n_{min [Static]}.
- ▶ Determine the minimum weights of the hook block G_{min | Staticl}.

Result:

- Required reeving n_{min [Static]}.
- Required hook block G_{min [Static]}.

1.4 Step 4: Determination of minimum reeving hoist rope for a safe load weighing of the LICCON overload protection (n_{min load weighing})



Note

- ▶ Determine the required hoist rope reeving for a safe load weighing of the LICCON overload protection, see Load chart manual Chapter 40.40.
- ▶ Determine the minimum reevings of the hoist rope n_{min [load weighing]}.

Result:

Required reeving n_{min [load weighing]}.

1.5 Step 5: Determination of minimum reeving hoist rope for parallel operation (n_{min [parallel operation]})



Note

- Determine the required hoist rope reeving for parallel operation, see Load chart manual Chapter 40.40.
- ▶ Determine the minimum reevings of the hoist rope n_{min [parallel operation]}

Result:

- Required reeving $n_{\text{min [parallel operation]}}$.

1.6 Step 6: Determination of minimum reeving hoist rope (n_{min}) and minimum weight hook block (G_{min}), which must be used for lifting the load



Note

- ▶ After determination of the minimum reevings of the hoist rope and minimum weights of the hook block for the limit criteria (n_{min [reeving chart]}, n_{min [static]}, G_{min [static]}, n_{min [load weighing]}, n_{min [parallel operation]}) the largest minimum reeving of the hoist rope and the minimum weight of the hook block must be determined.
- ▶ Determine the largest minimum reeving of the hoist rope n_{min} from the determined minimum reevings of the hoist rope ($n_{min [reeving chart]}$, $n_{min [load weighing]}$, $n_{min [parallel operation]}$).
- ▶ Determine the largest minimum weight of the hook block G_{min} from the determined minimum weights of the hook block $(G_{min \, \text{Istatic}})$.

Result:

- Required minimum reeving of hoist rope n_{min}.
- Required minimum weight of hook block G_{min}.
- These values must be used to lift the load.

40.50 Load reductions

1	Load reduction with installed boom nose	3
2	Reduction of load carrying capacity with placed guy rods	3
3	Load reductions with auxiliary roller set	3

0211531-01 40.50 Load reductions

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40.50 Load reductions 0211531-01

1 Load reduction with installed boom nose



Note

▶ The specified loads are valid for crane operation on main boom or auxiliary boom without installed boom nose.

If the boom nose is installed in crane operation with operating modes without boom nose, then the loads are reduced by the following points:

- Weight of boom nose.
- Weight of reeved in hoist rope on the boom nose.
- Weight of used load handling equipment on boom nose.
- Weight of used load handling and fastening equipment on boom head.



Note

No separate load charts are available for crane operation on the boom nose with the maximum load of 36 t. The load charts for the main and auxiliary boom operating modes apply with the following reductions:

- Weight of boom nose.
- ▶ Weight of reeved in hoist rope on the boom nose.
- Weight of used load handling and fastening equipment on boom nose.
- ▶ Weight of load handling equipment on boom head.

2 Reduction of load carrying capacity with placed guy rods



Note

- ▶ The specified loads apply without placed guy rods.
- ▶ If the guy rods are placed, then the possible load carrying capacity values are reduced.
- ▶ The load reduction depends on the weight and center of gravity of the guy rods and on the boom angle.

The load reduction can be calculated simply from the boom length and the meter weight of the guy rods:

Load reduction = 0.5 x boom length x meter weight of guy rods

Calculation example for crane operation on main boom with placed guy rods from WA-frame 2:

- Boom length: 90 m
- Meter weight of guy rods: 0.120 t/m
- Load reduction (0.5 x 90 m x 0.120 t/m): approx. 5.4 t

3 Load reductions with auxiliary roller set



Note

There are 2 pulley sets, which can be installed individually or together into the SW-end section. The determining factor for the calculation of load charts is the respective boom configuration, see chart "Boom configurations for the calculation of load charts".

- ▶ If an additional roller set is installed than noted in the boom configuration, then the load must be reduced by its net weight.
- ▶ The W-connector head can be operated with one of the two roller sets.

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WARNING

Impermissible hook block weight due to additional roller set! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

When erecting and taking down the boom system, an additional roller set is installed than intended:

▶ Reduce the hook block weight by the net weight of additional pulley set.

Roller sets	Net weight
320 t	1.5 t
300 t	1.4 t

Net weight of roller sets

Boom	Operating modes	Boom head
S, HS without jib boom	S, SD, HSD	SW-end section with pulley sets 320 t + 300 t
S, SL with auxiliary jib HS- 3.0 m	SHS, SLHS	SW-end section with roller set 320 t
S, HS with jib boom	SW, SDW, SDWV, SWF, HSDW, HSDWV	W-connector head with roller set 300 t
SL, SL2, SL9, SL11, SL14, HSL, HSL2	SL, SLF, SLD, SL2D, SL2DF, SL9, SL11D, SL14D, HSLD, HSL2D, HSL2DF	SW-end section with roller set 320 t
SL3, SL4, SL8, SL10, SL13, HSL4	SL3F, SL4DF, SL8F3, SL10DF, SL13DF, HSL4DF	F-connector head
W	SW, SDW, SDWV, SWF, HSDW, HSDWV	SW-end section with roller set 320 t
F, F3	SLF, SWF, SL2DF, SL3F, SL4DF, SL8F3, SL10DF, SL13DF, HSL2DF, HSL4DF	F-end section

Boom configurations for the calculation of load charts

40.55 Slewing speed of the crane superstructure

Maximum permissible slewing speed at suspended nominal load

-

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1 Maximum permissible slewing speed at suspended nominal load



WARNING

Exceedance of the maximum permissible slewing speed!

Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

▶ Observe the maximum permissible slewing speed.

Operating mode	Number of slewing gears	Permissible slewing speed	
		LICCON	RPM
	1	5 %	0.05 rpm
All operating modes	2	5 %	0.05 rpm
	3	5 %	0.04 rpm

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40.60 Boom system

1	Short description of component groups	;
2	Combination of component groups for operating modes	

0211587-02 40.60 Boom system

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1 Short description of component groups

1.1 Main boom

Sign	Description
S	Main boom, heavy version
SL	Main boom, mixed version
SL2	Main boom, mixed version, variation 2
SL	Main boom, mixed version, variation 3
SL4	Main boom, mixed version, variation 4
SL8	Main boom, mixed version, variation 8
SL9	Main boom, mixed version, variation 9
SL10	Main boom, mixed version, variation 10
SL11	Main boom, mixed version, variation 11
SL13	Main boom, mixed version, variation 13
SL14	Main boom, mixed version, variation 14
HS	Reinforced main boom, heavy duty version
HSL	Reinforced main boom, mixed version
HSL2	Reinforced main boom, mixed version, variation 2
HSL3	Reinforced main boom, mixed version, variation 3
HSL4	Reinforced main boom, mixed version, variation 4

1.2 Auxiliary boom

1.2.1 Fixed accessory

Sign	Description
F	Fixed lattice jib
F3	Fixed lattice jib, guyed with fiber guy ropes
Н	Boom nose



Note

▶ There are no separate load charts for boom noses with their own weighing device.

1.2.2 Moveable accessory

Sign	Description
W	Luffing lattice jib, heavy duty version
WV	Lattice jib, heavy duty version, in fixed angle to main boom

0211587-02 40.60 Boom system



WARNING

Erroneous operation of crane!

The crane can topple over.

Death or severe injuries, high property damage.

▶ Luff the main boom and the luffing lattice jib solely one after the other.

1.3 Derrick boom

Sign	Description
D	Derrick boom

1.4 Derrick ballast

Sign	Description		
В	Suspended ballast without guide		
B2	Suspended ballast with guide		
В3	Exclusively for erection / take-down of boom system with a LTR 1220 as derrick ballast, see the load chart manual, chapter 40.62.20		
B4	Exclusively for erection / take-down of boom system with a LTR 1220 as derrick ballast, see the load chart manual, chapter 40.62.20		
BW	Ballast trailer		

2 Combination of component groups for operating modes

The component groups of the boom system can be combined to operating modes, see Load chart manual, chapter 40.62.



Note

This load chart manual contains load charts for certain operating modes. Overview of the respective operating modes, see Load chart manual, Chapter 40.90.

40.62 Operating modes

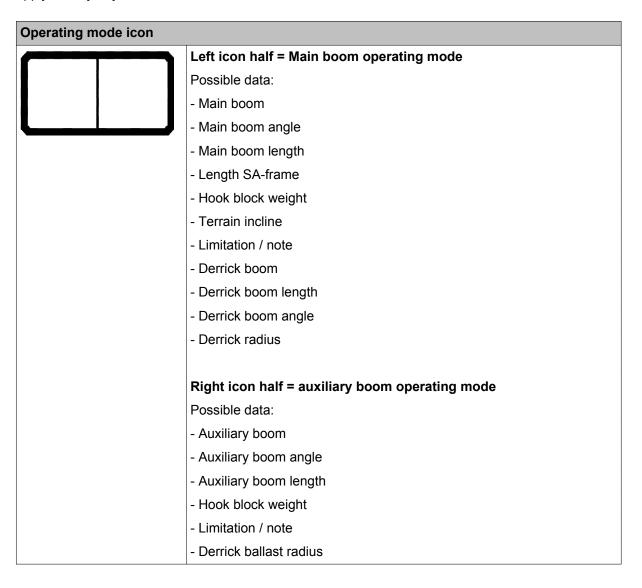
1	Description of operating modes in load charts			
2	Main boom operating modes	3		
3	Auxiliary boom operating modes	4		
4	Operating modes for crane operation on main boom with installed auxiliary boom	7		
5	Operating modes with several hook blocks	7		

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Fig.195219

1 Description of operating modes in load charts

The operating modes are noted in a two-part icon. The data in the chart are examples and may not apply exactly to your crane!





Note

► The data in the left and right icon half of the operating mode icon for the respective load chart must match exactly with the selected settings in the LICCON overload protection.

2 Main boom operating modes

Examples:

Operating mode icon		Operating mode	Description
		Left side	
s		S	Main boom, heavy version
48m		48 m	Main boom length

	Operating mode icon		Operating mode	Description
			Left side	
	2° SL 90m		2°	Maximum permissible terrain incline
			SL	Main boom, mixed version
			90 m	Main boom length

Operating mode icon		Operating mode	Description	
			Left side	
	HSDB 48m		HSDB	Reinforced main boom, heavy duty version with derrick boom and suspended ballast without guide
	70111		48 m	Main boom length

3 Auxiliary boom operating modes

3.1 Auxiliary boom operating modes with fixed accessory

Examples:

Operating mode icon		Operating mode	Description
		Left side	
SL4DBW	F 32° 18m	SL4DBW	Main boom, mixed version, variation 4 with derrick boom and ballast trailer
78m		78 m	Main boom length
		F	Fixed lattice jib
		32°	Fixed lattice jib installed in an angle of 32° to the main boom
		18 m	Length of the fixed lattice jib

		Operating mode	Description
		Left side	
SL10DB2 1) 147m	F12m 16° yy=20.0m	SL10DB2	Main boom, mixed version, variation 10 with derrick boom and suspended ballast with guide
1,717111	yy 20.0m	1)	Limitation / note, see Load chart manual, Chapter 40.65.10
		147 m	Main boom length
		Right side	
		F	Fixed lattice jib
		12 m	Length of the fixed lattice jib
		16°	Fixed lattice jib installed in an angle of 16° to the main boom
		yy= 20.0 m	Derrick ballast radius

3.2 Auxiliary boom operating modes with moveable accessory



WARNING

Erroneous operation of crane!

The crane can topple over.

Death or severe injuries, high property damage.

▶ Luff the main boom and the luffing lattice jib solely one after the other.

Examples:

Operating mode icon		Operating mode	Description	
			Left side	
xx	_	W	xx°	Main boom is in a fixed angle to the horizontal. The angle is noted in line xx in the respective load chart.
	36m 24m	S	Main boom, heavy version	
			36 m	Main boom length
			Right side	
			w	Luffing lattice jib, heavy duty version
		24 m	Length of the luffing lattice jib	

Op	Operating mode icon		Operating mode	Description
			Left side	
	SDB	WV xx°	SDB	Main boom, heavy duty version with derrick boom and suspended ballast without guide
	84m	12m	84 m	Main boom length
			Right side	
			wv	Lattice jib, heavy duty version, in fixed angle to main boom
			xx°	Lattice jib is in fixed angle to main boom. The angle is noted in line xx in the respective load chart.
			12 m	Length Lattice jib

0	Operating mode icon		Operating mode	Description
1			Left side	
	xx° S	W54m F36m 26°	xx°	Main boom is in a fixed angle to the horizontal. The angle is noted in line xx in the respective load chart.
	42m		S	Main boom, heavy version
			42 m	Main boom length
			Right side	
			W	Luffing lattice jib, heavy duty version
			54 m	Length of the luffing lattice jib
			F	Fixed lattice jib
			36 m	Length of the fixed lattice jib
			26°	Fixed lattice jib installed in an angle of 26° to the luffing lattice jib

4 Operating modes for crane operation on main boom with installed auxiliary boom

Special operating modes are available for crane operation on main boom with installed auxiliary boom. For these operating modes the main boom operating mode is listed in parenthesis.



WARNING

Erroneous operation of crane!

Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

When a main boom operating mode is listed in parenthesis:

▶ Lift the load exclusively on the main boom.

Examples:

		Operating mode	Description
		Left side	
(S)SL2DB 102m	F 31° 12m 5.5t	(S)SL2DB	Main boom, mixed version, variation 2 with derrick boom and suspended ballast without guide Load on main boom
		102 m	Main boom length
		Right side	
		F	Fixed lattice jib
		31°	Fixed lattice jib installed in an angle of 31° to the main boom
		12 m	Length of the fixed lattice jib
		5.5 t	Weight of hook block which must be on the auxiliary boom.

5 Operating modes with several hook blocks

For some operating modes the weight of the hook block is noted, on which no load is suspended.



WARNING

Erroneous operation of crane!

Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

When a hook block weight is noted in the operating mode icon:

▶ Install the hook block with the specified weight on the respective boom.

2 cases are differentiated:

- Hook block weight on main boom for crane operation on auxiliary boom
- Hook block weight on auxiliary boom for crane operation on main boom

5.1 Hook block weight on main boom for crane operation on auxiliary boom

Examples:

Operating mode icon		Operating mode	Description
		Left side	
SL2DB	F 13°	SL2DB	Main boom, mixed version, variation 2 with derrick boom and suspended ballast without guide
8.5t102m 24m		8.5 t	Weight of hook block which must be on the main boom.
		102 m	Main boom length
		Right side	
		F	Fixed lattice jib
		13°	Fixed lattice jib installed in an angle of 13° to the main boom
		24 m	Length of the fixed lattice jib

5.2 Hook block weight on auxiliary boom for crane operation on main boom



WARNING

Erroneous operation of crane!

Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

When a main boom operating mode is listed in parenthesis:

▶ Lift the load exclusively on the main boom.

Examples:

Operating mode icon		Operating mode	Description
		Left side	
(S)SL2DB 102m	F 31° 12m 5.5t	(S)SL2DB	Main boom, mixed version, variation 2 with derrick boom and suspended ballast without guide Load on main boom
		102 m	Main boom length
		Right side	
		F	Fixed lattice jib
		31°	Fixed lattice jib installed in an angle of 31° to the main boom
		12 m	Length of the fixed lattice jib
		5.5 t	Weight of hook block which must be on the auxiliary boom.

40.62.20 Assembly operating modes

1	Assembling and disassembling crawler carriers with SA-frame	3
2	Erection and take-down of boom system with LTR 1220	3
3	Erecting / taking down with reduced counterweight	4

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Fig.195219

1 Assembling and disassembling crawler carriers with SA-frame



WARNING

Disregard of assembly instructions!

Toppling crane, falling and oscillating crane components.

Death, severe bodily injuries, property damage.

- ▶ Adhere to and observe the assembly instructions for the assembly and disassembly of crawler carriers with SA-frame, see Crane operating instructions, chapter 3.01.
- ▶ Before assembly and disassembly set the respective assembly operating mode.

0	Operating mode icon		Operating mode	Description
1			Left side	
	SA		SA	Assembly operating mode with SA-frame
	10.5m	(SA)	10.5 m	Length SA-frame
_				

Assembly operating mode for assembling and disassembling the crawler carriers with SA-frame

2 Erection and take-down of boom system with LTR 1220

For the erection and take-down of longer boom systems, a derrick ballast weight of up to 350 t is required. This required weight can be reduced or completely compensated for by using a LTR 1220 as derrick ballast.



WARNING

Disregard of assembly instructions!

Toppling crane, failure of crane structures.

Death, severe bodily injuries, property damage.

- ▶ Observe and adhere to the assembly instructions for erection and take-down of boom systems with an LTR 1220 as derrick ballast, see Crane operating instructions, chapter 5.34.
- ▶ Before erection and take-down, set the respective assembly operating mode.

Assembly operating mode for erecting / taking down the boom system with a LTR 1220 as derrick ballast

3 Erecting / taking down with reduced counterweight

There are erection and take down charts with reduced counterweight for which no load charts are available. The erection and take-down must be made with the respective assembly operating mode.



WARNING

Erroneous operation of crane!

Toppling crane, failure of crane structures.

Death, severe bodily injuries, property damage.

- ▶ Before erection and take-down, set the respective assembly operating mode.
- Observe and adhere to the Erection and take-down charts.

Operating mode icon	Operating mode	Description
	Left side	
SL13DB M F 11° 3) xxm 12m	SL13DB M	Assembly operating mode; main boom, mixed version, variation 13 with derrick boom and suspended ballast
J) XXIII 12III	3)	Limitation / note, see Load chart manual, Chapter 40.65.10
	xxm	The operating mode is valid for all erectable main boom lengths.
	Right side	
	F	Fixed lattice jib
	11°	Fixed lattice jib installed in an angle of 11° to the main boom
	12 m	Length of the fixed lattice jib

Assembly operating mode for erecting / taking down with reduced counterweight



40.65 Description of the load chart

1	Description of the load chart	3
2	Icon explanation	4

Fig.149249: Example of a load chart

1 Description of the load chart



WARNING

Erroneous operation of the crane!

Toppling crane, failure of crane structures.

Death, severe bodily injuries, property damage.

- ▶ Set the LICCON overload protection exactly with the data in the respective load chart.
- Working outside the permissible set up configurations, boom radii and slewing ranges according to the load chart is prohibited.
- ▶ Move the boom system at assembly operation only within the permissible ranges.

The data in the displayed load chart are examples and may not apply exactly to your crane!

- 1 Standard
- 2 Main boom length icon
 - · Length of main boom 2.1 in meter (m) or feet (ft)
- 3 Units of measure
 - Length units in meters (m) or feet (ft)
 - Weight units in tons (t) or pounds (lb)
- 4 Hoist rope type and rope diameter
 - · Indicates which "hoist rope reeving chart" must be used
 - Note: Only for certain crane types
- 5 Short code
 - Describes in code the set operating mode / the set up configuration status
- 6 Operating mode icon
 - Data of operating modes, see the Load chart manual, chapter 40.62
- 7 Chart number
 - It appears either at the top of the chart or in the last line of the chart
- 8 Organization number
 - · For internal LIEBHERR load chart administration
- 9 Load values
 - Load values in tons (t) or pounds (lb)
- 10 Crane type / crane number
- 11 Boom radius icon
 - Boom radius 11.1 in meter (m) or feet (ft)
- **12** Hoist rope reeving
 - On this line, the number of hoist rope strands is stated
- 13 Main boom angle / auxiliary boom angle
 - On this line, the respective boom angle is indicated in degrees (°)
- 14 Derrick ballast radius
 - · On this line the derrick ballast radii are indicated in meters (m) or feet (ft)
- 15 Derrick ballast
 - On this line the derrick ballasts are indicated in tons (t) or pounds (lb)
- 16 Wind speed
 - On this line, the maximum permissible wind speed is noted in meters per second (m/s) or feet per second (ft/s)
- 17 Icon line of function keys
- **18** Page specification of all load charts
 - · Current page number and total number of pages of all load charts
- 19 Page specification of the current load chart
 - Current page number and total number of pages of the current load chart

2 Icon explanation

Boom radius

The boom radius (the working radius) is the horizontal distance of the hook block from the rotation axis of the crane superstructure in meters (m) or feet (ft), measured on the ground.

A

Icon for main boom operating modes



Icon for main boom operating modes with derrick boom



Icon for main boom operating modes with derrick boom and derrick ballast



Icon for auxiliary boom operating modes with fixed accessory



Icon for auxiliary boom operating modes with fixed accessory and derrick boom



Icon for auxiliary boom operating modes with fixed accessory, derrick boom and derrick ballast



Icon for auxiliary boom operating modes with moveable accessory



Icon for auxiliary boom operating modes with moveable accessory and derrick boom



Icon for auxiliary boom operating modes with moveable accessory, derrick boom and derrick ballast

Main boom length



In the line below this icon, the various main boom lengths are entered by columns in meters (m) or feet (ft).

Hoist rope reeving

* n *

The number of hoist rope strands is indicated on the corresponding line. The maximum load capacity of the corresponding table column is reached with the indicated number of hoist rope strands.

If a load value in the chart column exceeds that of a load that can be lifted with the maximum possible reeving, then there is an exclamation mark "!" next to the reeving number. If the mark "!" is shown, special equipment is required to lift the respective load.

Main boom angle / auxiliary boom angle

XX

On this line, the main boom angle or the auxiliary boom angle is indicated in degrees (°). The specified angle must be set to be able to reach the load values of the respective chart. The icon appears only for operating modes with an auxiliary boom

The respective angles are indicated in line xx in the load charts below the load chart values.

Derrick ballast radius

уу

On this line, the derrick ballast radius is indicated in meters (m) or feet (ft). The specified derrick ballast radius must be set to be able to reach the load values of the respective chart. The icon appears only in operating modes with derrick ballast.

The derrick ballast radius is the horizontal distance of the derrick ballast from the rotation axis of the crane superstructure, measured on the ground.

The respective radii are indicated in line yy in the load charts below the load chart values.

Derrick ballast

ZZ

On this line, the size of the counterweight is indicated in tons (t) or pounds (lb). The specified derrick ballast must be pulled to be able to reach the load values of the respective chart. The icon appears only in operating modes with derrick ballast.

The respective weights are noted in line zz in the load charts below the load chart values.

Permissible wind speed



In the corresponding line, the maximum permissible wind speed is noted in meters per second (m/s) or feet per second (ft/s). The maximum permissible wind speed depends on the operating mode and the set up configuration. If the wind speed exceeds the specified value, crane operation must be stopped and the crane must be taken down.

Note:

The maximum permissible wind speed refers to the 3 second wind gust speed at maximum lifting height.

Counterweight



This icon indicates the size of the counterweight in tons (t) or pounds (lb). The specified counterweight must be on the turntable, so that the load values for the respective chart can be reached.

Ballast combinations



Various ballast combinations are indicated in this icon The following chart shows the composition of the ballast combinations. To reach the values of the respective load chart, the specified counterweights and the central ballast of the respective ballast combination must be installed on the corresponding position.

Ballast combination	Counterweight on the turntable	Counterweight on the turntable extension	Central ballast
var1	90 t	67.5 t	65 t
var2	90 t	67.5 t	45 t
var3	90 t	47.5 t	45 t
var4	90 t	27.5 t	45 t
var5	150 t	67.5 t	65 t

Crane on crawler carrier with central ballast



This icon indicates the size of the central ballast on the crawler travel gear in tons (t) or pounds (lb). The specified central ballast must be on the crawler travel gear to be able to reach the load values of the respective chart.

Crawler travel gear for crane operation "Crane on crawler carriers".

Crane supported



This icon denotes the type and size of the support base. The size of the support base (length x width) is indicated in meters (m) or feet (ft).

The crane must be supported on all four supports. The support beams must be swung out and / or extended to the specified dimension

Support base for "Crane supported" crane operation.

Derrick ballast and derrick ballast radius



This icon indicates the derrick ballast and the derrick ballast radius The icon appears in operating modes with derrick ballast on the location of the slewing range icon. The permissible slewing range of the crane superstructure in this operating mode is 360°.

zz = Derrick ballast in tons (t) or pounds (lb)

yy = Derrick ballast radius in meters (m) or feet (ft)

The respective values are noted in the load charts below the load values.

Slewing range



In this icon, the slewing range of the crane superstructure is noted for the respective load chart. Various slewing ranges can be possible. When various slewing ranges are possible, then they are listed in the following chart.

Slewing Description range	
360°	Unlimited turning is possible.

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40.65.10 Limitations and notes

1 Limitations and notes in load charts

3

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1 Limitations and notes in load charts



WARNING

Disregard of limitations and notes in load charts! Toppling crane, failure of crane structures.

Death or severe injuries, high property damage.

▶ Adhere to the limitations and notes.



Note

▶ In part, limitations and notes are noted for certain operating modes. The limitations and notes are noted with a Code (signs, numbers or letters) on the operating mode icons. The respective Codes are explained as follows.

1.1 Code: 1)



Note

▶ The hook block cannot be lowered to the ground in every situation.

(Code 1)		Description
	SL10DB2 1) 147m	F12m 16° yy=20.0m	With the existing hoist rope length and the required reeving, the hook block cannot be lowered to the ground in every situation.

1.2 Code: 2)



WARNING

Incorrect erection / take-down of the boom system!

Toppling crane, failure of crane structures.

Death, severe bodily injuries, property damage.

► Carry out the erection / take-down of the boom system with the erection and take down charts as described in the operating instructions.

(Code 2)		Description
	SL13DB 2) 153m	F 16°	The erection / take down of the boom system must be carried out with the derrick ballast "B2".

1.3 Code: 3)



WARNING

Erroneous operation of the crane!

Toppling crane, failure of crane structures.

Death, severe bodily injuries, property damage.

- ▶ Use operating modes with code 3) exclusively for erection / take down of the boom system.
- Observe and adhere to the Erection and take down charts.

Before ballasting the counterweight up to nominal ballast of the load chart:

▶ Set the boom system in the respective steepest operating position.

Before ballasting the counterweight down to the required counterweight of the take down chart:

Set the boom system in the respective steepest operating position.

Code 3)		Description
SL13DB M	F 11°	This assembly operating mode is exclusively for the erection / take down of the boom system with reduced counterweight.
3) xxm	12m	

1.4 Code: 4)

Not active

1.5 Code: 5)



WARNING

Permissible lateral inclination exceeded!

Toppling crane, failure of crane structures.

Death, severe bodily injuries, property damage.

▶ Observe and comply with the maximum permissible lateral inclination when driving with the equipment in place. See the separate operating instructions "Driving with the equipment in place".

Code 5)		Description
SL13DR 5) 82m		With these operating modes, the reduced lateral inclination when driving with the equipment in place must be observed.

40.65.40 Crane incline

1 Maximum permissible incline of the crane

3

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40.65.40 Crane incline 0211583-00

1 Maximum permissible incline of the crane

The inclines specified in the load chart manual are valid for crane operation with selected load chart.



WARNING

Exceedance of the maximum permissible incline!
Toppling crane, failure of carrying structure of the crane.
Death or severe injuries, high property damage.

▶ Adhere to the maximum permissible incline of the crane.

Operating mode	Maximum permissible incline of the crane
On crawler	0.3°
On supports	0.0°

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40.70 Wind influences for crane operation

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2	Influence of wind on the LICCON overload protection	3
3	Permissible wind speed and wind surface calculation	4

1 Terminology

The following chart lists the most important terms, signs and units for wind influences during crane operation.



Note

- ▶ Make yourself familiar with the terms. For the determination and calculations of the permissible wind speed, you have to know the influence factors.
- ► Contact Liebherr-Werk Ehingen GmbH, if you need additional information for wind influences during crane operation.

Sign	Unit	Name	Definition
A _P	[m²]	Projection surface	Applicable for the calculation of the wind exposure surface, vertically to the surface directed to the flow.
C _W		Wind resistance coefficient	Value for the flow resistance of wind flowing around a body.
A _w	[m²]	Wind-exposed surface	Area exposed to wind = Projection area x Wind resistance coefficient
			$A_{W} = A_{P} \times C_{W}$
m _T	[t]	Load	Respective chart value from load chart.
M _H	[t]	Hoist load	Weight to be lifted (mass) (including fastening equipment, hook block and possibly the hoist rope part, which was not yet considered in the calculation). The hoist load may not reach more than the maximum chart value of the load chart.
m _N	[t]	Load capacity	Weight (mass) of the component to be lifted (without fastening equipment and hook block).
v(z)	[m/s]	3-second wind gust speed	Mean value of wind speed created over a time frame of 3 seconds at a height of z above the ground.
V _{max}	[m/s]	Maximum permissible wind speed	Maximum permissible 3 second wind gust speed at maximum lifting height.
V _{max_TAB}	[m/s]	Maximum permissible wind speed (load charts)	Maximum permissible 3 second wind gust speed at maximum lifting heights, which are specified for the load chart values in the load chart.
р	[N/m ²]	Dynamic pressure	Pressure load on a body due to wind flow.
			Dynamic pressure = density /2 x (3-second wind gust speed) ²
			$p = \rho/2 \times (v(z))^2$
			(ρ = Density of air = 1.25 kg/m³)
F _w	[N]	Wind load	Force effect on a body due to wind flow.
			$F_w = A_w \times p$

Symbol

2 Influence of wind on the LICCON overload protection

The wind can put an additional strain or relief on the crane system, especially in operating modes with long boom systems and steep boom position. This can falsify the load display. The LICCON overload protection can possibly shut off too early or too late.

2.1 Wind from the rear

If wind is coming from the rear, the boom system is additionally stressed. The load display is too high. The shut-off of the LICCON overload protection is already triggered by a hoist load that is smaller than the maximum load.

2.2 Wind from the front

If wind is coming from the front, the boom system is relieved. The load display is too low. The shut-off of the LICCON overload protection is triggered only by a hoist load that is larger than the maximum load.



DANGER

Danger of tipping and overload of load carrying components!

The wind from the front does not reduce the load of the hook, hoist rope, hoist rope pulleys and hoist winch. If wind is coming from the front, these components can be overloaded by lifting a load until the shut-off of the LICCON overload protection!

If the wind from the front diminishes, then the entire crane can be overloaded if it had been stressed before until shut-off of the LICCON overload protection.

► The crane driver must know the weight of the hoist load and may not exceed the maximum load capacity.

2.3 Wind from the side

If wind is coming from the side, the boom system is stressed on the side. The load display is almost the same as for crane operation without wind influences.



DANGER

Danger of tipping and overload of load carrying components!

For crane operation, if the wind speed is higher than the maximum permissible wind speed, then the crane can be overloaded without it being noticed if wind is coming from the side!

- ▶ The crane driver must know the weight of the hoist load and may not exceed the maximum load capacity.
- ▶ Before crane operation, determine the maximum permissible wind speed and carry out the wind surface calculation if necessary.

3 Permissible wind speed and wind surface calculation



DANGER

Wind speed too high!

Danger of tipping and overload of load carrying components.

Death, severe bodily injuries, property damage.

- ▶ Before starting to work, the crane operator must check with the respective weather bureau to obtain the wind speeds for the duration of operation. If impermissible wind speeds are expected, then it is prohibited to lift a hoist load.
- ► The 3 second wind gust speed v(z) at the maximum height of the crane may not exceed the maximum permissible wind speed (v_{max}) and the maximum permissible wind speed according to the load chart (v_{max_TAB}) at any point in time.



Note

- ► The maximum permissible wind speed (v_{max}) and the maximum permissible wind speed according to the load chart (v_{max_TAB}) always refer to the 3 second wind gust speed, which is present at the maximum height of the crane.
- ▶ Instead of the 3 second wind gust speed, weather information services often report a wind speed (v_m), which is averaged within a time period of 10 minutes (so-called 10 minute average). It refers to the wind force on the Beaufort scale, normally to the medium value of the wind speed, which is determined within a time from of 10 minutes at a height of 10 m above ground or above sea level.
- ▶ The determining factor for the calculation of the 3 second wind gust speed in maximum height of the crane is significantly higher than the average value of the wind speed, which is determined over a time of 10 minutes at a height of 10 m above ground.

Crane operation is generally permissible up to the maximum wind speed (v_{max_TAB}) specified in the respective load chart for the current boom length.

The prerequisite for that is:

The wind exposure surface (A_w) of the hoist load does not exceed 1.2 m²/t



DANGER

Wind speed too high!

Danger of tipping and overload of load carrying components.

- ▶ The maximum permissible wind speed according to the load chart (v_{max_TAB}) may not be exceeded, even if the wind exposure surface (A_w) of the hoist load is smaller than 1.2 m²/t.
- If the wind exposure surface (A_w) of the hoist load is more than 1.2 m²/t, then the maximum permissible wind speed (v_{max}) must be redetermined for the load case.

3.1 Wind resistance coefficient (c_w)

For the determination of the maximum permissible wind speed (v_{max}) , the highest wind resistance coefficient (c_w) is required. The wind resistance coefficient (c_w) depends on the shape of the hoist load.



Note

Check with person who created the load to be lifted for the wind resistance coefficient (c_w).

The following chart lists the typical shapes with the respective wind resistance coefficients (c_w).

Shape	Wind resistance coefficient $\mathbf{c}_{\scriptscriptstyle W}$	Examples
	1.1 to 2.0	Plate, panel, piling
	0.3 to 0.4	Ball, ball-shaped container
	0.6 to 1.0	Pipe, silo, reactor container
	0.8 to 1.2	Hemisphere
	0.2 to 0.3	Hemisphere
	0.05 to 0.1	Rotor blade, complete rotor
	Approx. 1.6	Rotor blade, complete rotor

Shapes with respective wind resistance coefficients (c_w)

3.2 Determining the maximum permissible wind speed (v_{max})



WARNING

Wind speed too high!

Toppling crane, failure of crane structure.

Death, severe bodily injuries, property damage.

▶ **Never** exceed the maximum permissible wind speed according to the load chart (v_{max_TAB}).

The maximum permissible wind speed (v_{max}) can be determined with the following methods:

- Calculate the maximum permissible wind speed
- Determining the maximum permissible wind speed with wind force diagrams

If the determined maximum permissible wind speed (v_{max}) is **greater than** the maximum permissible wind speed according to the load chart $(v_{max TAB})$:

Crane operation up to the maximum permissible wind speed according to the load chart (v_{max TAB}).

If the determined maximum permissible wind speed (v_{max}) is **smaller than** the maximum permissible wind speed according to the load chart $(v_{max TAB})$:

Crane operation permitted up to the determined maximum permissible wind speed (v_{max}).

3.3 Calculating the maximum permissible wind speed

$$V_{\text{max}} = V_{\text{max_TAB}} \times \sqrt{\frac{1.2 \frac{m^2}{t} \times m_{\text{H}}}{A_{\text{W}}}}$$

Fig.111606: Formula for calculating the maximum permissible wind speed

The following data is required for the calculation:

- Maximum permissible wind speed according to load chart (v_{max TAB})
- Hoist load (m_H)
- Projection surface of hoist load (A_P)
- Wind resistance coefficient (c_w)

Description of procedure:

- 1. Calculation of wind exposure surface $(A_w = A_p \times c_w)$
- 2. Check if the wind exposure surface (A_w) exceeds the limit value of 1.2 m²/t
- 3. Calculation of the maximum permissible wind speed (v_{max})

3.3.1 Example for calculating the maximum permissible wind speed

Data for calculation of the load case:

$$v_{max_TAB} = 9.0 \text{ m/s}$$

 $m_H = 50.0 \text{ t}$
 $A_P = 70.0 \text{ m}^2$
 $c_W = 1.4$

Step 1: Calculating the wind-exposed surface

$$A_{W} = A_{P} \times C_{W}$$

 $A_{W} = 70.0 \text{ m}^{2} \times 1.4$
 $A_{W} = 98.0 \text{ m}^{2}$

Result: The wind exposure surface (A_w) is: 98.0 m²

Step 2: Checking if the wind exposure surface (A_w) exceeds the limit value of 1.2 m²/t

The wind exposure surface per ton of hoist load is: 98.0 m² / 50 t = 1.96 m²/t

Result: The wind exposure surface per ton of hoist load exceeds the limit value of 1.2 m²/t.

The maximum permissible wind speed must be recalculated!

$$V_{max} = V_{max_TAB} \times \sqrt{\frac{1.2 \frac{m^2}{t} \times m_H}{A_w}}$$

$$V_{max} = 9 \frac{m}{s} \times \sqrt{\frac{1.2 \frac{m^2}{t} \times 50t}{98 m^2}}$$

$$V_{max} = 7.04 \frac{m}{s}$$

Fig.111607: Example for calculating the maximum permissible wind speed

Result: The maximum permissible wind speed is: 7.04 m/s

3.4 Determining the maximum permissible wind speed with wind force diagrams

Depending on the maximum permissible wind speed according to the load chart (v_{max_TAB}) the maximum permissible wind speed (v_{max}) for the load case can be determined with the following wind force diagrams.

List of wind force diagrams:

- Diagram 7.0 m/s: Wind force diagram for load charts with a maximum permissible wind speed (v_{max TAB}) of 7.0 m/s
- Diagram 8.6 m/s: Wind force diagram for load charts with a maximum permissible wind speed (v_{max TAB}) of 8.6 m/s
- Diagram 9.0 m/s: Wind force diagram for load charts with a maximum permissible wind speed (v_{max_TAB}) of 9.0 m/s
- **Diagram 9.9 m/s** : Wind force diagram for load charts with a maximum permissible wind speed $(v_{\text{max_TAB}})$ of 9.9 m/s
- Diagram 10.0 m/s: Wind force diagram for load charts with a maximum permissible wind speed (v_{max_TAB}) of 10.0 m/s
- Diagram 11.1 m/s: Wind force diagram for load charts with a maximum permissible wind speed (v_{max TAB}) of 11.1 m/s
- Diagram 11.2 m/s: Wind force diagram for load charts with a maximum permissible wind speed (v_{max_TAB}) of 11.2 m/s
- Diagram 12.8 m/s: Wind force diagram for load charts with a maximum permissible wind speed (v_{max TAB}) of 12.8 m/s
- Diagram 13.4 m/s: Wind force diagram for load charts with a maximum permissible wind speed (v_{max_TAB}) of 13.4 m/s
- **Diagram 14.3 m/s** : Wind force diagram for load charts with a maximum permissible wind speed $(v_{\text{max TAB}})$ of 14.3 m/s
- Diagram 15.6 m/s: Wind force diagram for load charts with a maximum permissible wind speed (v_{max_TAB}) of 15.6 m/s



WARNING

Wind speed too high!

Toppling crane, failure of crane structure.

Death, severe bodily injuries, property damage.

► The maximum permissible wind speed according to the load chart (v_{max_TAB}) must match the maximum permissible wind speed of the wind force diagram.

The following data is required for the determination:

- Maximum permissible wind speed according to load chart (v_{max TAB})
- Hoist load (m_H)

- Projection surface of hoist load (A_P)
- Wind resistance coefficient (c_w)

Description of procedure:

- 1. Calculation of wind exposure surface $(A_w = A_P \times c_w)$
- 2. Check if the wind exposure surface (A_w) exceeds the limit value of 1.2 m²/t.
- 3. Determination of maximum permissible wind speed $(v_{\mbox{\tiny max}})$ from the respective wind force diagram

3.4.1 Example for determining the maximum permissible wind speed

Data for calculation of the load case:

$$v_{max_TAB} = 9.0 \text{ m/s}$$

 $m_H = 50.0 \text{ t}$
 $A_P = 70.0 \text{ m}^2$
 $c_W = 1.4$

Step 1: Calculating the wind-exposed surface

$$A_{W} = A_{P} \times C_{W}$$

 $A_{W} = 70.0 \text{ m}^{2} \times 1.4$
 $A_{W} = 98.0 \text{ m}^{2}$

Result: The wind exposure surface (Aw) is: 98.0 m²

Step 2: Checking if the wind exposure surface ($A_{\scriptscriptstyle W}$) exceeds the limit value of 1.2 m²/t

The wind exposure surface per ton of hoist load is: 98.0 m² / 50 t = 1.96 m²/t

Result: The wind exposure surface per ton of hoist load exceeds the limit value of 1.2 m²/t.

The maximum permissible wind speed must be redetermined!

Step 3: Determining the maximum permissible wind speed $(v_{\mbox{\tiny max}})$ from the respective wind force diagram

Determination of maximum permissible wind speed (v_{max}) from the respective wind force diagram for load charts with a maximum permissible wind speed (v_{max_TAB}) of 9 m/s

Diagram 9.0 m/s

Result: The maximum permissible wind speed is: 7.04 m/s

3.4.2 Wind force diagrams

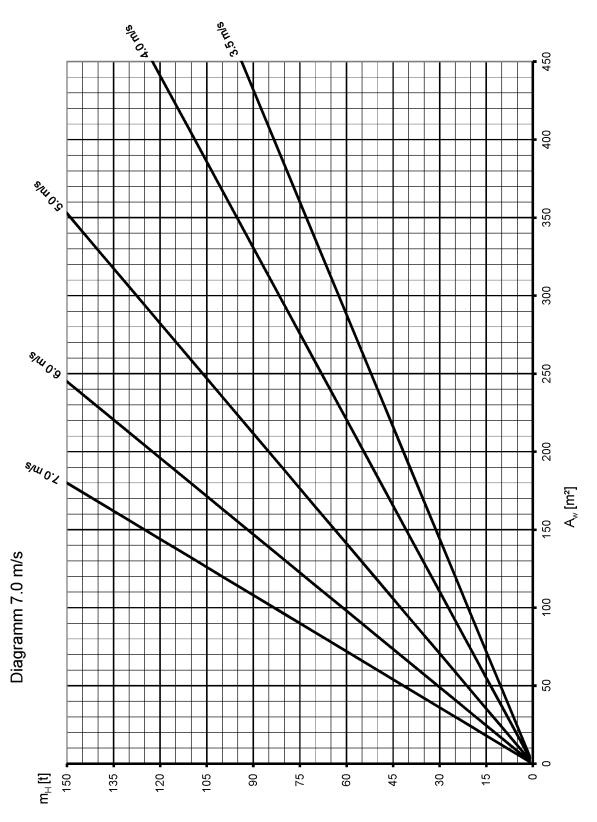


Fig.149229: Wind force diagram 7.0 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 7.0 m/s

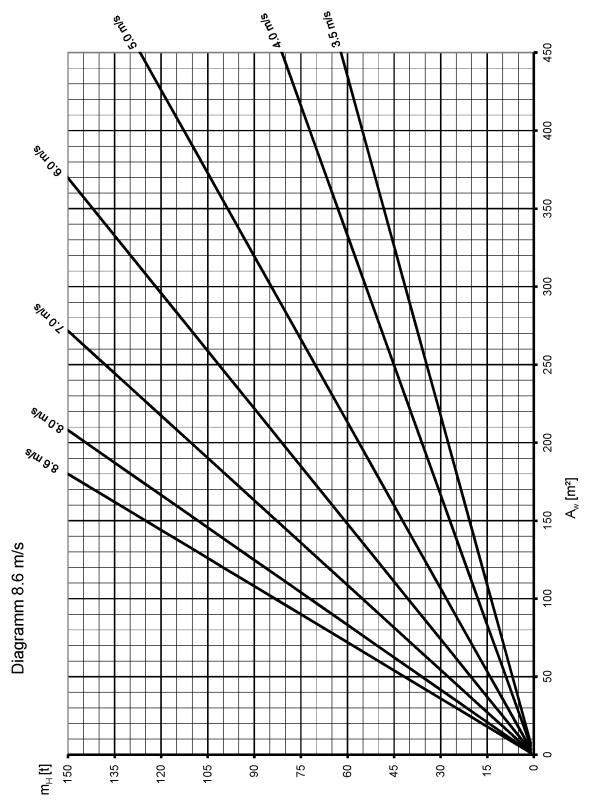


Fig.149230: Wind force diagram 8.6 m/s for load charts with a maximum permissible wind speed $(v_{\text{max_TAB}})$ of 8.6 m/s

Fig.149231: Wind force diagram 9.0 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 9.0 m/s

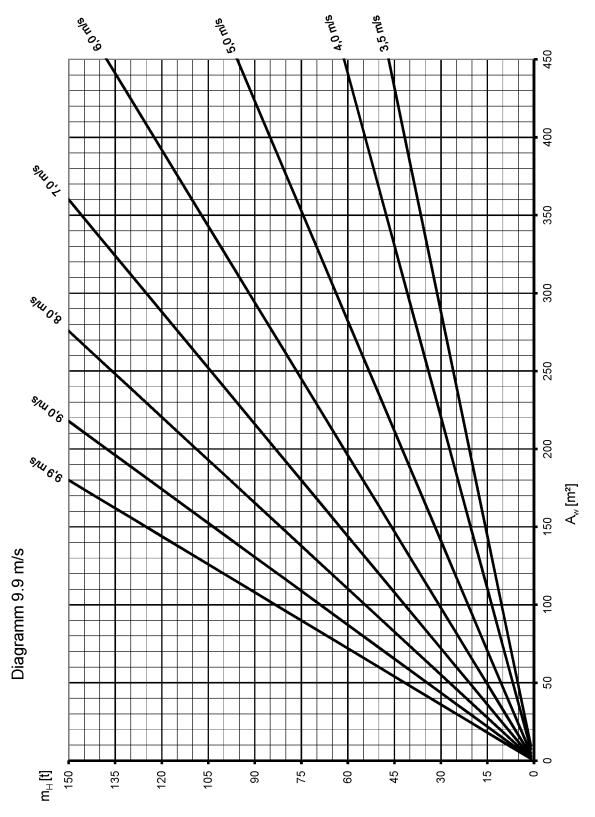


Fig.149232: Wind force diagram 9.9 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 9.9 m/s

Fig.152631: Wind force diagram 10.0 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 10.0 m/s

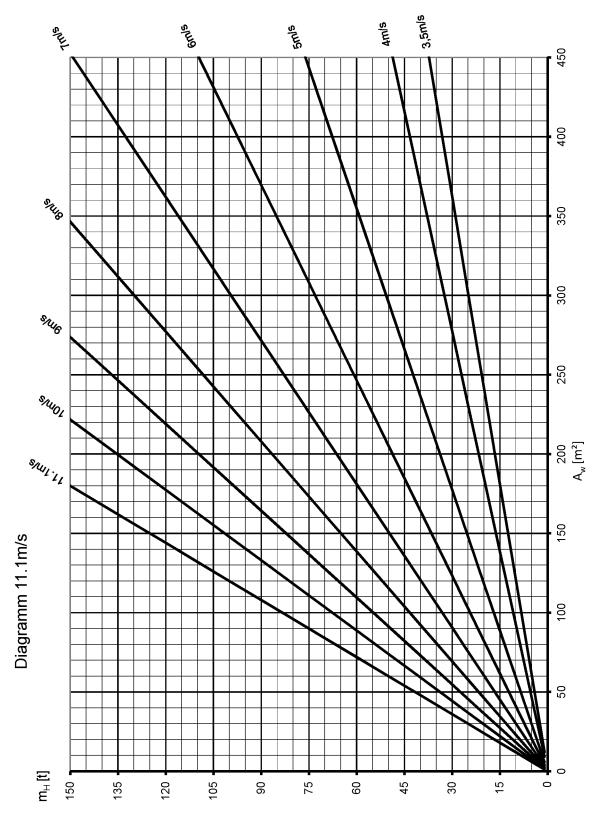


Fig.149233: Wind force diagram 11.1 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 11.1 m/s

Fig.149234: Wind force diagram 11.2 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 11.2 m/s

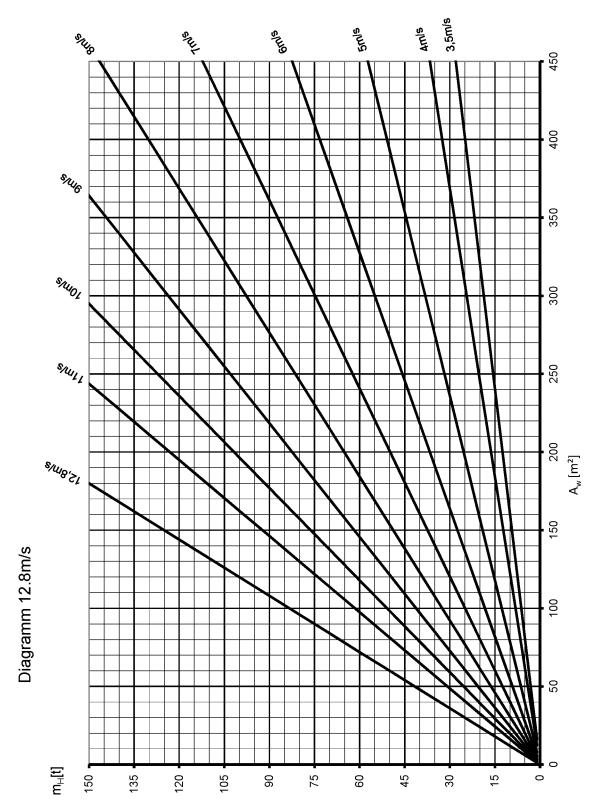


Fig.149235: Wind force diagram 12.8 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 12.8 m/s

4m/s

Fig.149236: Wind force diagram 13.4 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 13.4 m/s

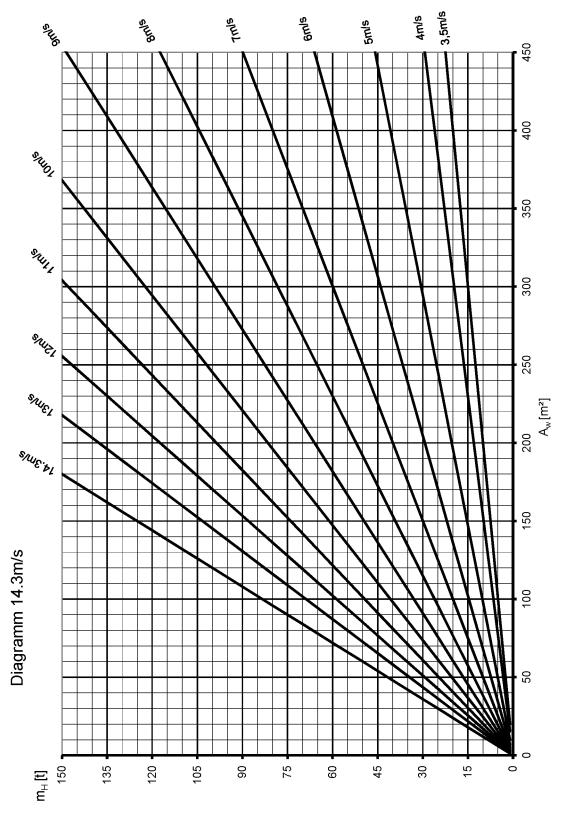


Fig.149237: Wind force diagram 14.3 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 14.3 m/s

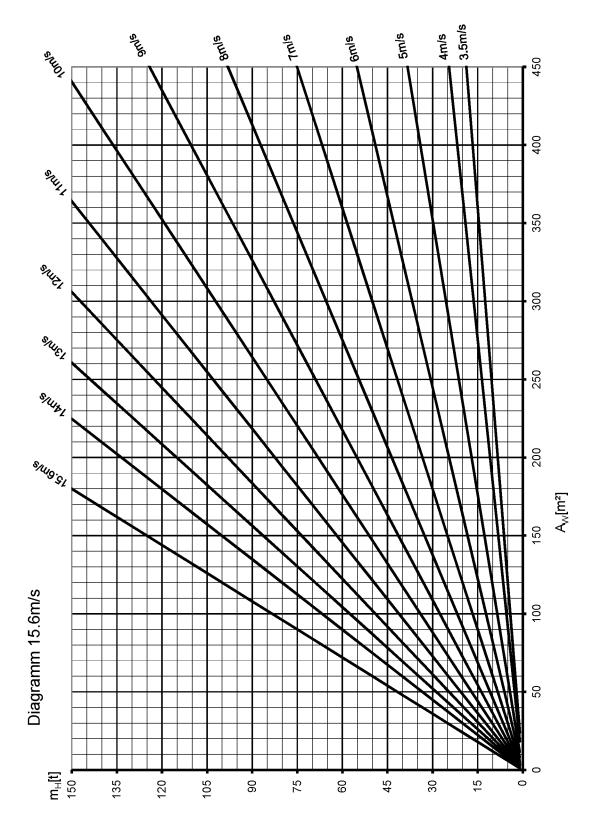


Fig.149238: Wind force diagram 15.6 m/s for load charts with a maximum permissible wind speed (v_{max_TAB}) of 15.6 m/s

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40.90 Load charts 029539-00

40.90 Load charts

1 Load charts 3

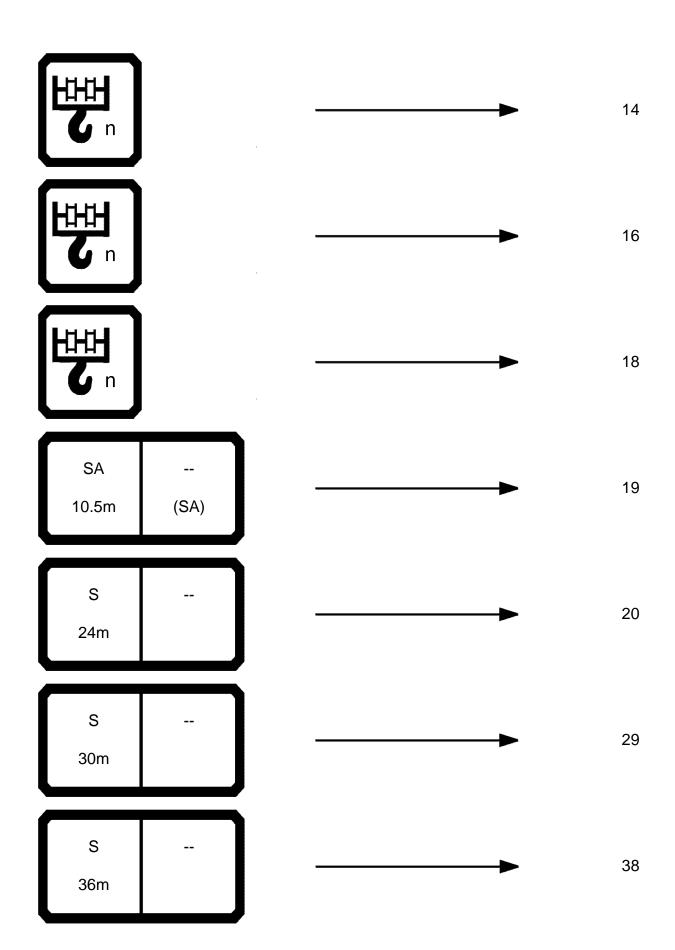
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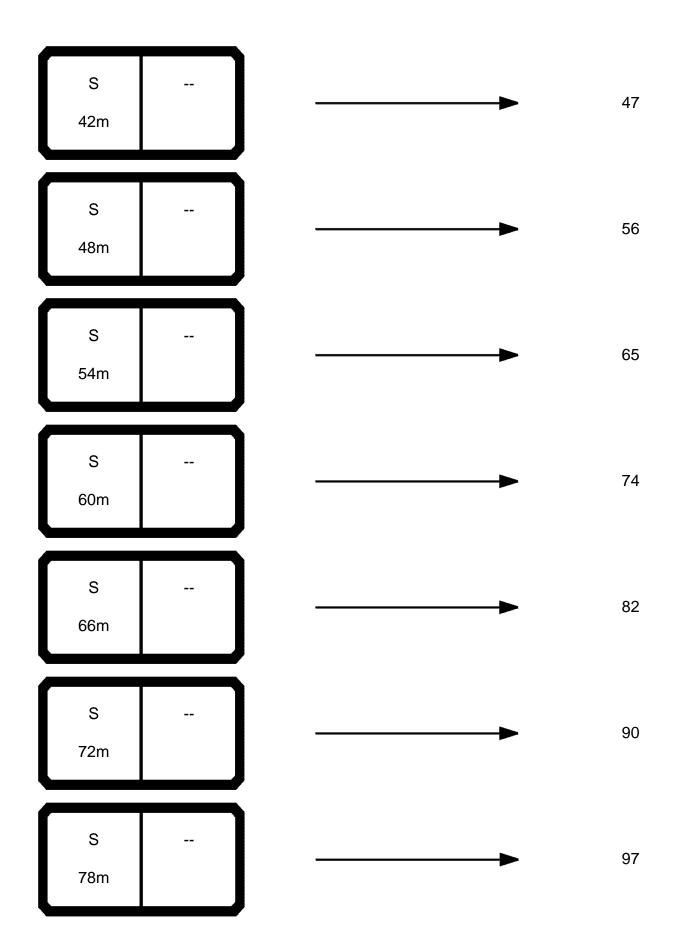
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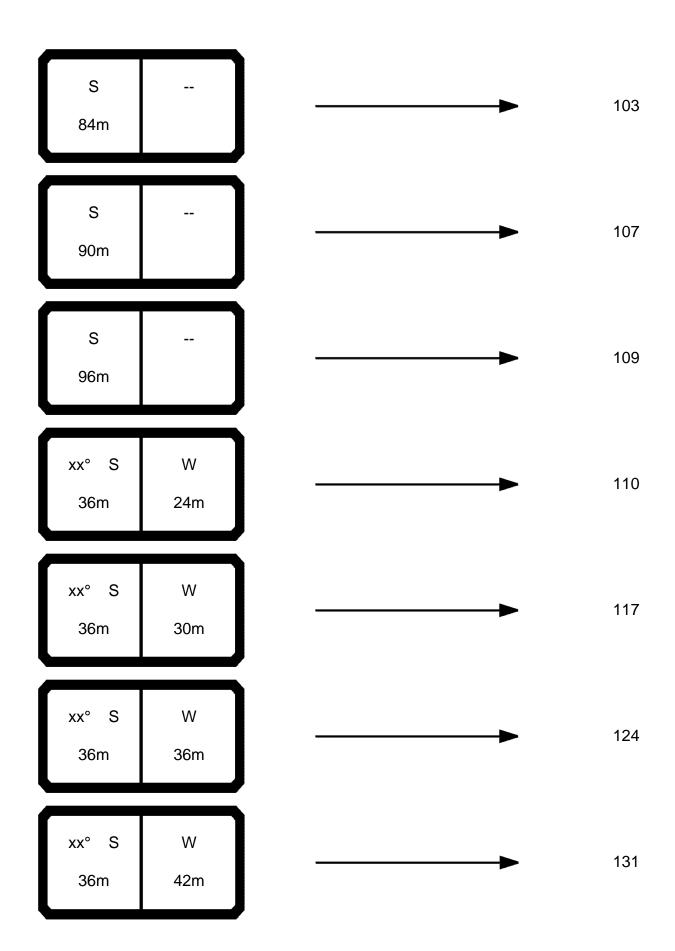
1 Load charts

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xx° S 36m	W 78m	-	-	,
xx° S 36m	W 84m	-	—	

xx° S 36m	W 90m	_	→
xx° S 36m	W 96m	_	-
xx° S 42m	W 24m	_	→
xx° S 42m	W 30m	_	-
xx° S 42m	W 36m	_	→
xx° S 42m	W 42m	_	→
xx° S 42m	W 48m	_	→

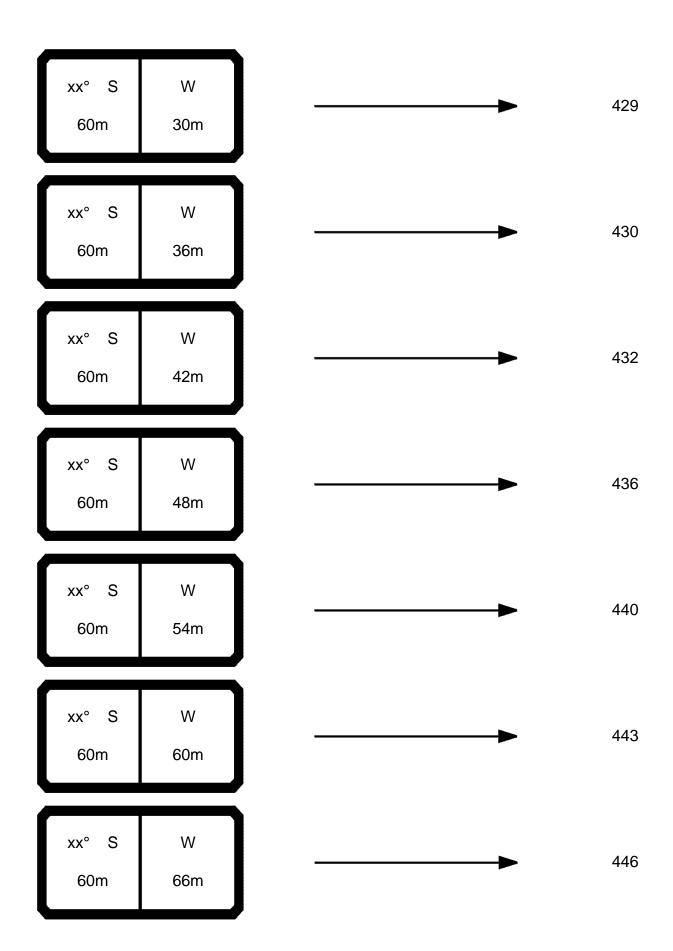
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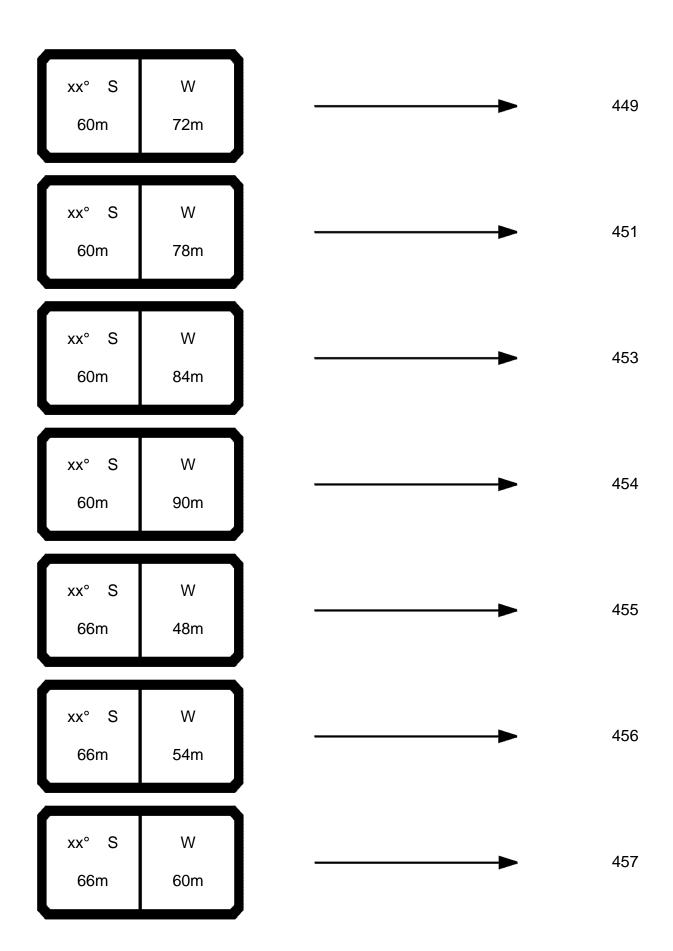
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xx° S 48m	W 24m	_	-	
xx° S 48m	W 30m	_	-	
xx° S 48m	W 36m	_		
xx° S 48m	W 42m	_	-	
xx° S 48m	W 48m	_	-	
xx° S 48m	W 54m	_		

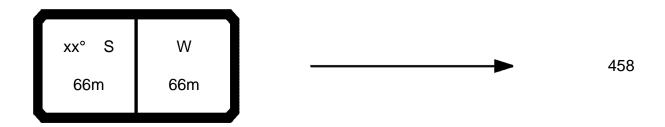
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xx° S 48m	W 84m	_	•	•
xx° S 48m	W 90m	_		•
xx° S 48m	W 96m	_		-

xx° S 54m	W 24m	_		
xx° S 54m	W 30m	_		
xx° S 54m	W 36m	_	-	
xx° S 54m	W 42m	_	-	
xx° S 54m	W 48m	_	-	
xx° S 54m	W 54m	_		
xx° S 54m	W 60m	_		

xx° S 54m	W 66m	_		4
xx° S 54m	W 72m	_		4
xx° S 54m	W 78m	_	-	4
xx° S 54m	W 84m	_		4
xx° S 54m	W 90m	_	-	4
xx° S 54m	W 96m	_	-	4
xx° S 60m	W 24m	_		4







typ1: D=28.0 mm





	τ
1x	18.1
2x	35.9
3x	53.4
4x	70.7
5x	87.7
6x	104.5
7x	121.0
8x	137.2
9x	153.2
10x	169.0
11x	184.5
12x	199.9
13x	214.9
14x	229.8
15x	244.4
16x	258.8
17x	273.0
18x	287.0
19x	300.8
20x	314.3
21x	327.7
22x	340.8
23x	353.8
24x	366.6
25x	379.1
26x	391.5
27x	403.7
28x	415.7
29x	427.6
30x	439.2
31x	450.7
32x	462.0
33x	473.2
34x	484.2
35x	495.0
36x	505.6
37x	516.1
38x	526.4
39x	536.6
40x	546.6

typ1: D=28.0 mm





	τ
41x	556.5
42x	566.2
43x	575.8
44x	585.2
45x	594.5
46x	603.7
47x	612.7
48x	621.6
49x	630.3
50x	639.0

typ2: D=25.0 mm





	t
1x	12.6
2x	24.9
3x	37.1
4x	49.1
5x	60.9
6x	72.5
7x	84.0
8x	95.3
9x	106.4
10x	117.4
11x	128.2
12x	138.8
13x	149.3
14x	159.6
15x	169.7
16x	179.7
17x	189.6
18x	199.3
19x	208.9
20x	218.3
21x	227.5
22x	236.7
23x	245.7
24x	254.6
25x	263.3
26x	271.9
27x	280.4
28x	288.7
29x	296.9
30x	305.0
31x	313.0
32x	320.9
33x	328.6
34x	336.2
35x	343.7
36x	351.1
37x	358.4
38x	365.6
39x	372.6
40x	379.6

typ2: D=25.0 mm





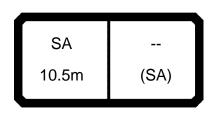
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724 333.2	
43x 399.9	
44x 406.4	
45x 412.9	
46x 419.2	
47x 425.5	
48x 431.7	
49x 437.7	
50x 443.7	

typ3: D=28.0 mm





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2x	31.9
3x	47.5
4x	62.8
5x	78.0
6x	92.8
7x	107.5
8x	122.0
9x	136.2
10x	150.2
11x	164.0
12x	177.6
13x	191.0
14x	204.2
15x	217.2
16x	230.1
17x	242.7
18x	255.1
19x	267.3
20x	279.4
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22x	303.0
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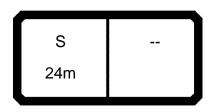
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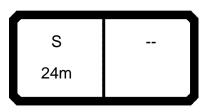
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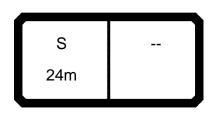
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m	24.0														
5.5 6.0	566.0 518.0														
6.5	477.0														
7.0 8.0															
9.0	300.0														
10.0															
11.0 12.0	206.0 177.0														
14.0	136.0														
16.0 18.0	110.0 91.0														
20.0	77.0														
22.0 24.0	66.0 58.0														
24.0	36.0														
* n *	42														
_															
_															
0-40															
m/s	12.8														
					1	_				_		$\overline{}$		$\overline{}$	
		S 24m				110 t	∥ _₽ 7	5 t		60°					
						-	/				<u> </u>		<u> </u>		



	typ1: D=28.0 mm											*** 014		22.00	
	MM	m	1 > < t		CODE >0010<						U181			0400	
m	24.0														
5.5 6.0	566.0 518.0														
6.5 7.0	477.0 439.0														
8.0 9.0	377.0														
10.0 11.0															
12.0 14.0	185.0 143.0														
16.0 18.0	115.0 96.0														
20.0	81.0 70.0														
24.0	61.0														
* n *	40														
" n "	42														
_															
- 1-															
0-f0 m/s	12.8														
					1	_	1	0.5				<u> </u>			
		S 24m				110	₌7	25)					
	_)[JL	t		t	3	60°					



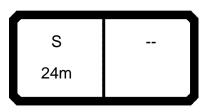
*** 013 typ1: D=28.0 mm 22.00 CODE >0009< U181 0400 m > < t24.0 581.0 6.0 535.0 6.5 495.0 7.0 457.0 8.0 394.0 9.0 342.0 10.0 285.0 11.0 240.0 12.0 206.0 14.0 160.0 16.0 129.0 18.0 107.0 20.0 91.0 22.0 79.0 24.0 69.0 * n * 44 0-40 m/s 12.8 S 24m



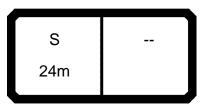
				ty	p1: D=	=28.0	mm				***	012		22.00
		m	> < t		CO	DE :	>000	>80				U18	1 04	400
m	24.0													
5.5 6.0	594.0 548.0													
6.5	510.0													
7.0 8.0														
9.0	357.0													
10.0 11.0	313.0 264.0													
12.0														
14.0														
16.0 18.0	143.0 119.0													
20.0	102.0													
22.0 24.0	88.0 77.0													
* n *	45													
-														
_														
_														
0-40														
m/s	12.8													
	<u> </u>		•		\ _					_				$\overline{}$
		S 24m				150	_≣ 2	25		50°				
	_/\				/ _	ι	/	ı	3	00			<u> </u>	



				ty	p1: D=	=28.0	mm				***	011		22.00
		l m	1 > < t		CO	DE :	>000)7<				U18	1 04	400
m	24.0													
5.5 6.0	594.0 548.0													
6.5 7.0	510.0 473.0													
8.0 9.0	411.0													
10.0 11.0	320.0													
12.0 14.0	244.0 190.0													
16.0 18.0	154.0 129.0													
20.0 22.0	110.0 95.0													
24.0	84.0													
* n *	45													
_														
_														
_														
0-40														
■ m/s	12.8													
		S			7	<u> </u>	1	65						$\overline{\ \ }$
		24m				150	[] _≣ 7	65		7				
	_)[JL	t		t	3	60°				



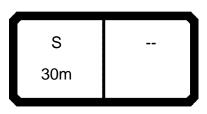
					=28.0				***	010		22.00
		m	n > < t	CO	DE :	>000	>60			U18	1 0	400
m	24.0											
5.5 6.0	600.0 560.0											
6.5	523.0											
7.0 8.0	489.0 427.0											
9.0	372.0											
10.0 11.0	333.0 299.0											
12.0	265.0											
14.0 16.0	206.0 168.0											
18.0	140.0											
20.0 22.0	120.0											
24.0	104.0 92.0											
* n *	46											
_												
-												
0-40 m/s	12.8											
				7								$\overline{}$
		S 24m			170 t	∏ _≣ z	65 t	60°				



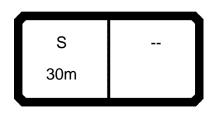
*** 009 typ1: D=28.0 mm 22.00 CODE >0005< U181 0400 m > < t24.0 600.0 6.0 571.0 6.5 534.0 7.0 500.0 8.0 439.0 9.0 385.0 10.0 346.0 11.0 311.0 12.0 278.0 14.0 223.0 16.0 181.0 18.0 152.0 20.0 130.0 22.0 113.0 24.0 100.0 * n * 46 0-40 m/s 12.8 S 24m



				ty	p1: D=	=28.0 ı	mm				***	017		22.00
		m	n > < t			DE >		22<				U18	1 0	500
m	30.0													
6.0 6.5	309.0 266.0													
7.0	233.0													
8.0 9.0	185.0 152.0													
10.0	129.0													
11.0 12.0	110.0 94.0													
14.0 16.0	70.0													
18.0	55.0 44.0													
20.0 22.0	36.0 29.9													
24.0	25.0													
26.0 28.0	21.0 17.4													
30.0	14.5													
* n *	20													
	20													
_														
_														
_														
0-40 m/s	12.8													
W 111/3	.2.0													
		S 30m				30		5						
	/\				JL	τ	/	τ	$\frac{3}{2}$	60°				



				ty	p1: D=	=28.0	mm				***	016		22.00
		m	n > < t			DE :		21<				U18	1 0	500
m	30.0													
6.0 6.5	432.0 374.0													
7.0 8.0	328.0 263.0													
9.0 10.0	218.0													
11.0 12.0	158.0 135.0													
14.0 16.0	103.0													
18.0	82.0 67.0													
20.0 22.0	56.0 48.0													
24.0 26.0	41.0 35.5													
28.0 30.0	31.0 27.4													
* n *	20													
" n "	30													
O-fo m/s	12.8													
			<u> </u>		\					_			_	
		S 30m				70 t	∐ _₽ ∓	5 t	3	60°				



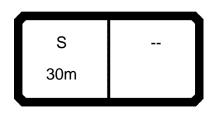
m 30.0 6.0 516.0 6.5 473.0 7.0 424.0 8.0 341.0 9.0 284.0 10.0 242.0 11.0 206.0 12.0 177.0 14.0 136.0 16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5 30.0 40.0	1 0500
6.0 516.0 6.5 473.0 7.0 424.0 8.0 341.0 9.0 284.0 10.0 242.0 11.0 206.0 12.0 177.0 14.0 136.0 16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
6.5 473.0 7.0 424.0 8.0 341.0 9.0 284.0 10.0 242.0 11.0 206.0 12.0 177.0 14.0 136.0 16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
7.0 424.0 8.0 341.0 9.0 284.0 10.0 242.0 11.0 206.0 12.0 177.0 14.0 136.0 16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
8.0 341.0 9.0 284.0 10.0 242.0 11.0 206.0 12.0 177.0 14.0 136.0 16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
9.0 284.0 10.0 242.0 11.0 206.0 12.0 177.0 14.0 136.0 16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
11.0 206.0 12.0 177.0 14.0 136.0 16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
12.0 177.0 14.0 136.0 16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
14.0 136.0 16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
16.0 110.0 18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
18.0 91.0 20.0 77.0 22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
22.0 66.0 24.0 57.0 26.0 50.0 28.0 44.5	
24.0 57.0 26.0 50.0 28.0 44.5	
26.0 50.0 28.0 44.5	
28.0 44.5	
30.0 40.0	
n 37	
0-40	
S 110 5	
30m - 110 1 110	
t t 360°	



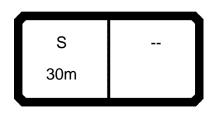
m so.0					ty	p1: D=	=28.0 ı	mm			***	014		22.00
6.0 516.0 6.5 473.0 7.0 434.0 8.0 357.0 9.0 297.0 10.0 254.0 1110 216.0 1120 185.0 144.0 143.0 16.0 115.0 18.0 96.0 22.0 70.0 24.0 81.0 22.0 70.0 24.0 81.0 22.0 70.0 24.0 81.0 24.0 81.0 12.0 13.0 13.0 42.5 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8	A	MM	m	ı > < t		CO	DE >	>00´	19<			U18	1 0	500
6.5 473.0 7.0 434.0 8.0 357.0 9.0 297.0 10.0 294.0 11.0 216.0 12.0 185.0 14.0 143.0 16.0 115.0 18.0 96.0 22.0 70.0 24.0 61.0 22.0 70.0 24.0 61.0 28.0 35.0 28.0 47.5 30.0 42.5	m	30.0												
7.0 434.0														
9.0 297.0 10.0 254.0 11.0 216.0 11.0 216.0 11.0 216.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0	7.0	434.0												
10.0 254.0 11.0 216.0 12.0 185.0 14.0 143.0 15.0 16.0 115.0														
12.0 185.0 14.0 143.0 16.0 115.0 18.0 96.0 22.0 70.0 22.0 70.0 24.0 61.0 26.0 53.0 28.0 47.5 30.0 42.5 30.0 42.5 30.0 42.5 30.0 42.5 30.0 42.5 30.0 30.0 42.5 30.0	10.0	254.0												
16.0 115.0 188.0 96.0 20.0 81.0 22.0 70.0 24.0 61.0 25.0 53.0 28.0 47.5 30.0 42.5 30.0														
18.0 96.0 20.0 81.0 22.0 70.0 24.0 61.0 25.0 53.0 28.0 47.5 30.0 42.5														
22.0 70.0 24.0 61.0 25.0 53.0 28.0 47.5 30.0 42.5 *n* 37	18.0	96.0												
24.0 61.0 26.0 53.0 28.0 47.5 30.0 42.5														
28.0 47.5 30.0 42.5	24.0	61.0												
30.0 42.5 *n* 37														
S - 110 25 30m	30.0													
S - 110 25 30m														
S - 110 25 30m														
S - 110 25 30m														
S - 110 25 30m														
S - 110 25 30m														
S - 110 25 30m														
S - 110 25 30m														
S - 110 25 30m														
S - 110 25 30m	4 4	07												
S 110 25 30m	nn n	3/												
S 110 25 30m														
S 110 25 30m	_													
S 110 25 30m														
S 110 25 30m	_													
S 110 25 30m														
S 110 25 30m														
S 25	ı m	12.8												
S 110 25											<u> </u>			
							110 t	Ì[₽	25	60°				



				ty	p1: D=	=28.0	mm				***	013		22.00
		m	n > < t			DE :		18<				U18	1 0	500
m	30.0													
6.0 6.5	531.0 490.0													
7.0 8.0	453.0 392.0													
9.0 10.0	330.0													
11.0 12.0														
14.0 16.0	160.0 129.0													
18.0 20.0	107.0 91.0													
22.0 24.0	79.0 69.0													
26.0 28.0	61.0													
30.0	54.0 48.5													
* n *	39													
0-40														
⋓ m/s	12.8													
		S				^_		25						
		30m				130	[[≌)				
	_/[JL	t	JL	t	3	60°				



				ty	p1: D=	=28.0	mm				***	012		22.00
	MM	m	> < t		CO	DE >	>00	17<				U18	1 0	500
m	30.0													
6.0	544.0													
6.5 7.0	508.0 472.0													
8.0	408.0													
9.0	356.0													
10.0 11.0	310.0 264.0													
12.0	227.0													
14.0	1													
16.0 18.0	143.0 119.0													
20.0	101.0													
22.0	88.0													
24.0 26.0	77.0 68.0													
28.0	61.0													
30.0	55.0													
* n *	40													
-														
_														
0-10 m/s	12.8													
		S 30m				150	╟┋	25		7				
	_/\				JL	t		t	3	60°			<u> </u>	



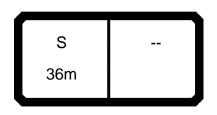
	ı			ty	p1: D=	=28.0	mm				***	011		22.00
	MM	l m	ı > < t		CO	DE >	>00	16<				U18	1 0	500
m	30.0													
6.0 6.5	544.0													
7.0														
8.0	408.0													
9.0 10.0														
11.0	282.0													
12.0 14.0														
16.0	190.0 154.0													
18.0	128.0													
20.0 22.0	110.0 95.0													
24.0	84.0													
26.0 28.0	74.0													
30.0	66.0 60.0													
* n *	40													
_														
_														
0-40														
m/s	12.8													
									_					leep
		S 30m				150 t		65 t	3	60°				



				ty	p1: D=	=28.0	mm			***	010	22.00
	MM	m	n > < t		CO	DE :	>00	15<			U18	
m	30.0											
6.0 6.5	556.0 518.0											
7.0	482.0											
8.0	422.0											
9.0 10.0	371.0 330.0											
11.0	294.0											
12.0 14.0	265.0 206.0											
16.0	167.0											
18.0	140.0											
20.0 22.0	120.0 104.0											
24.0	92.0											
26.0 28.0	81.0											
30.0	73.0 66.0											
* n *	41											
-"	41											
_												
_												
0-10												
⋓ m/s	12.8											
		ı	<u> </u>		7	1					$\overline{}$	$\overline{}$
		S 30m				170 t	∏ _₽ ₹	65 t	60°			



				ty	p1: D=	=28.0	mm			***	009		22.00
		m	1 > < t			DE :		14<			U18	1 0	500
m	30.0												
6.0 6.5	568.0 529.0												
7.0 8.0	493.0 436.0												
9.0 10.0	386.0 343.0												
11.0 12.0	306.0 280.0												
14.0 16.0	222.0 181.0												
18.0 20.0	152.0 130.0												
22.0 24.0	113.0 100.0												
26.0 28.0	89.0 80.0												
30.0	72.0												
* n *	43												
o-fo m/s	12.8												
			<u> </u>		1		1						<u> </u>
		S 30m				190 t	∐ _≌ z	65	60°				



				ty _l	o1: D=	=28.0 ı	mm			***	017		22.00
		m	> < t		CO	DE >	>00	31<			U18	1 00	300
m	36.0												
6.5	245.0												
7.0 8.0	216.0 173.0												
9.0	144.0												
10.0	121.0												
11.0 12.0	104.0 91.0												
14.0	70.0												
16.0	54.0												
18.0 20.0	43.5 35.0												
22.0	28.9												
24.0	23.9												
26.0 28.0	19.7 16.1												
30.0	13.1												
32.0	10.6												
34.0 36.0	8.4 6.6												
30.0	0.6												
* n *	16												
_													
_													
_													
- 4-													
0-40 m/s	12.8												
							_						
		S 36m				30 t		5 t	60°				
					/ 🝆		/ _		 	· 		<u> </u>	



				ty	p1: D=	=28.0	mm				***	016		22.00
	MM	m	1 > < t			DE :		30<				U18	1 06	600
m	36.0													
6.5 7.0	344.0 305.0													
8.0 9.0	247.0 206.0													
10.0	176.0													
11.0 12.0	153.0 134.0													
14.0 16.0	103.0 82.0													
18.0	67.0													
20.0 22.0	55.0 47.0													
24.0 26.0	40.0 34.5													
28.0	30.0													
30.0 32.0	26.2 22.8													
34.0 36.0	19.9 17.3													
* n *	23													
_														
_														
_														
0-40														
m/s	12.8													
		I			1		1	_				<u> </u>		$\overline{}$
		S 36m				70	₌7	5)				
	_/L				JL	t	JL	t	3	60°				



				ty	p1: D=	=28.0	mm			***	015		22.00
	MM	m	1 > < t			DE :		29<			U18	1 06	600
m	36.0												
6.5 7.0	444.0 394.0												
8.0	320.0												
9.0	268.0 230.0												
11.0 12.0	201.0 177.0												
14.0	136.0												
16.0 18.0	109.0 90.0												
20.0	76.0												
22.0 24.0	65.0 56.0												
26.0 28.0	49.0 43.5												
30.0	38.5												
32.0 34.0	34.5 31.0												
36.0	27.9												
* n *	31												
_													
0-40 m/s	12.8												
		S 36m				110 t		5 t	60°				



Mark CODE South					ty	p1: D=	=28.0	mm			***	014	22.00
6.5 464.0 7.0 412.0 8.0 335.0 9.0 281.0 11.0 241.0 11.0 211.0 12.0 185.0 14.0 142.0 16.0 114.0 18.9 95.0 20.0 80.0 22.0 89.0 24.0 60.0 26.0 52.0 28.0 46.0 30.0 41.0 32.0 37.0 34.0 33.0 36.0 30.0			m	1 > < t					28<				600
7.0 412.0 8.0 335.0 9.0 281.0 10.0 241.0 11.0 211.0 11.0 12.0 185.0 14.0 142.0 16.0 114.0 18.0 95.0 20.0 80.0 22.0 89.0 24.0 60.0 26.0 52.0 28.0 46.0 30.0 41.0 30.0 41.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	m	36.0											
8.0 335.0													
9.0 281.0 10.0 241.0 11.0 211.0 12.0 185.0 14.0 142.0 14.0 142.0 16.0 114.0 18.0 195.0 22.0 180.0 22.0 180.0 22.0 180.0 22.0 180.0 22.0 180.0 22.0 180.0 22.0 180.0 23.0 180.0 24.0 180.0 32.0 180.0 32.0 180.0 33.0 180.0 33.0 180.0 33.0 180.0 33.0 36.0 180.0 33.0 36.0 180.0 33.0 36.0 180.0 33.0 36.0 180.0 33.0 36.0 180.0 33.0 36.0 180.0 30.0 36.0 180.													
11.0 211.0 12.0 165.0 14.0 142.0 142.0 142.0 142.0 16.0 144.0 18.0 95.0 18.0 95.0 18.0 95.0 18.0 18.0 95.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0 18	9.0												
12.0 18.0 114.0 114.0 18.0 95.0 22.0 89.0 22.0 89.0 22.0 89.0 22.0 89.0 23.0 46.0 30.0 41.0 32.0 37.0 33.0 36.0 30.0													
14.0 14.2 0 16.0 114.0 18.0 95.0 20.0 80.0 22.0 89.0 24.0 60.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 5													
18.0 95.0 20.0 80.0 22.0 69.0 24.0 60.0 26.0 52.0 28.0 46.0 30.0 41.0 32.0 37.0 34.0 33.0 36.0 30.0 **n** 33 **n** 33 **n** 33 **n** 33 **n** 33 **n** 33 **n** 34 **n** 35 **n** 35 **n** 37 **n** 37 **n** 38 **n**													
20.0 80.0 22.0 69.0 24.0 60.0 26.0 52.0 28.0 46.0 30.0 41.0 32.0 37.0 34.0 33.0 36.0 30.0 *n* 33 *n* 33 *n* 33 *n* 33 *n* 33 *n* 34 *n* 33 *n* 35 *n* 35 *n* 36 *n* 36 *n* 36 *n* 37 *n* 37 *n* 38 *n													
220 69.0 24.0 60.0 25.0 52.0 28.0 46.0 30.0 41.0 32.0 37.0 34.0 33.0 36.0 30.0 *n* 33 *n* 33 *n* 12.8													
24.0 60.0 52.0 28.0 46.0 30.0 41.0 32.0 37.0 34.0 33.0 36.0 30.0 41.0													
28.0 48.0 30.0 41.0 32.0 37.0 34.0 33.0 36.0 30.0 **n* 33		60.0											
30.0 41.0 32.0 37.0 33.0 33.0 36.0 30.0													
32.0 37.0 34.0 33.0 36.0 30.0													
36.0 30.0		37.0											
n 33													
S 25 110 25 36m	30.0	30.0											
S 25 110 25 36m													
S 25 110 25 36m													
S 25 110 25 36m													
S 25 110 25 36m													
S 25 110 25 36m													
S 25 110 25 36m													
S 25 110 25 36m													
S 25 110 25 110 110 110 110 110 110 110 110 110 11	* n *	33											
S 25 110 25 110 110 110 110 110 110 110 110 110 11	_												
S 25 110 25 110 110 110 110 110 110 110 110 110 11													
S 25 110 25 110 110 110 110 110 110 110 110 110 11													
S 25 110 25 110 110 110 110 110 110 110 110 110 11													
S 25 110 25 110 110 110 110 110 110 110 110 110 11	_												
S 25 110 25 110 110 110 110 110 110 110 110 110 11													
S 25 110 25 110 110 110 110 110 110 110 110 110 11	0-40												
	_ m	12.8											
							110 t	Ĭ	25 t) 60°			



*** 013 typ1: D=28.0 mm 22.00 CODE >0027< U181 0600 m > < t36.0 485.0 7.0 450.0 8.0 372.0 9.0 312.0 10.0 268.0 235.0 11.0 12.0 206.0 14.0 159.0 16.0 128.0 18.0 106.0 20.0 90.0 22.0 78.0 24.0 68.0 26.0 60.0 28.0 53.0 30.0 47.5 32.0 42.5 34.0 38.5 36.0 35.0 * n * 35 0-40 m/s 12.8 S 36m



				ty	p1: D=	=28.0	mm				***	012		22.00
	MM	m	> < t		CO	DE :	>002	26<				U18′	06	600
m	36.0													
6.5 7.0	499.0 465.0													
8.0	404.0													
9.0	344.0													
10.0 11.0	296.0 259.0													
12.0	227.0													
14.0 16.0	175.0 142.0													
18.0	118.0													
20.0	100.0													
22.0 24.0	87.0 76.0													
26.0	67.0													
28.0 30.0	60.0													
32.0	54.0 48.5													
34.0	44.0													
36.0	40.0													
* n *	36													
_														
_														
_														
o-fo m/s	12.8													
														$\overline{}$
		S 36m				150 t		25 t	3	60°				



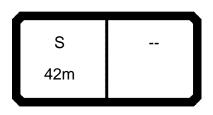
				ty	p1: D=	=28.0	mm				***	011		22.00
	MM	m	> < t		CO	DE :	>002	25<				U18	1 00	600
m	36.0													
6.5 7.0	499.0 465.0													
8.0	404.0													
9.0	354.0													
10.0 11.0	312.0 279.0													
12.0	244.0													
14.0	189.0													
16.0 18.0	153.0 128.0													
20.0	109.0													
22.0	94.0													
24.0 26.0	82.0 73.0													
28.0	65.0													
30.0 32.0	59.0													
34.0	53.0 48.0													
36.0	44.0													
* n *	36													
_														
_														
_														
0-40 m/s	12.8													
2,0														
					1	А		C.F.						
		S 36m				150	₌7	65		60°				
	_/\				」	ι	/	ι	3	5U				



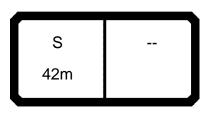
				ty	p1: D=	=28.0	mm				***	010		22.00
	MM	m	1 > < t			DE :		24<				U18	1 0	600
m	36.0													
6.5 7.0	511.0 479.0													
8.0 9.0	421.0													
10.0	369.0 325.0													
11.0 12.0	294.0 263.0													
14.0 16.0														
18.0	139.0													
20.0 22.0	119.0 103.0													
24.0 26.0	91.0 80.0													
28.0	72.0													
30.0 32.0	65.0 59.0													
34.0 36.0	54.0 49.0													
	.0.0													
* n *	37													
_														
_														
o -40														
m/s	12.8													
					\					_				$\overline{}$
		S 36m				170 t	∭ _₽ ₽	65 t	3	60°				



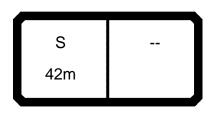
				ty	/p1: D:	=28.0	mm				***	009		22.00
	MM	n	n > < t			DE :		23<				U18	1 0	600
m	36.0													
6.5 7.0	522.0 490.0													
8.0	431.0													
9.0	382.0													
10.0 11.0	338.0 306.0													
12.0	274.0													
14.0	222.0													
16.0 18.0	180.0 151.0													
20.0	129.0													
22.0 24.0	112.0 99.0													
26.0	88.0													
28.0	79.0													
30.0 32.0	71.0 65.0													
34.0	59.0													
36.0	54.0													
* n *	38													
_														
_														
_														
0-40 m/s	12.8													
					<u> </u>									
		S 36m				190 t		65 t	3	60°				



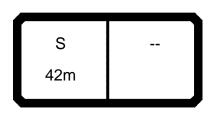
				ty	o1: D=	=28.0 r	mm				***	017		22.00
	MM	m m	ı > < t		CO	DE >	>00	10<				U18	1 07	700
m	42.0													
7.0	201.0													
8.0 9.0	163.0 136.0													
10.0	115.0													
11.0	99.0													
12.0 14.0	87.0 67.0													
16.0	54.0													
18.0 20.0	42.5 34.5													
22.0	28.1													
24.0	23.1													
26.0 28.0	18.7 15.0													
30.0	12.0													
32.0	9.4													
34.0 36.0	7.2 5.3													
	0.0													
* n *	13													
_														
_														
0-40 m/s	12.8													
		S				30		5		\int				
	_][42m				t		t =	3(60°		J		



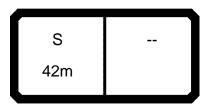
				ty	p1: D=	=28.0	mm				***	016	,	22.00
	MM	m	> < t		CO	DE :	>003	39<				U18	1 07	700
m	42.0													
7.0 8.0	284.0 232.0													
9.0	195.0													
10.0	167.0													
11.0 12.0	146.0 128.0													
14.0	102.0													
16.0	81.0													
18.0 20.0	66.0 55.0													
22.0	46.0													
24.0 26.0	39.5													
28.0	33.5 29.1													
30.0	25.2													
32.0 34.0	21.6 18.6													
36.0	16.0													
38.0	13.7													
40.0	11.7													
* n *	18													
_														
_														
o -40														
m/s	12.8													
		_			1	_	1	_						$\overline{}$
		S 42m				70 t	∭ <u>₽</u>	5 t	3	60°				



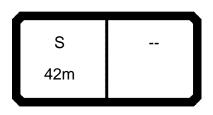
				ty	p1: D=	=28.0 ı	mm				***	015		22.00
		m	ı > < t		CO	DE >	>003	38<				U18	1 07	700
m	42.0													
7.0	368.0													
8.0 9.0	302.0 255.0													
10.0	219.0													
11.0 12.0	192.0 170.0													
14.0	135.0													
16.0	108.0													
18.0 20.0	89.0 75.0													
22.0	64.0													
24.0	55.0													
26.0 28.0	48.5 42.5													
30.0	37.5													
32.0	33.5													
34.0 36.0	29.8 26.6													
38.0	23.8													
40.0	21.2													
* n *	25													
-														
_														
_														
- 4-														
0-10 m/s	12.8													
		S				110		5		\int				
	_][42m				t		_ =	3	60°		J	L	



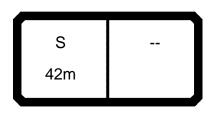
				ty	p1: D=	=28.0	mm				***	014		22.00
		m	> < t		CO	DE :	>00	37<				U18	1 0	700
m	42.0													
7.0	385.0													
8.0 9.0	316.0 267.0													
10.0	230.0													
11.0	202.0													
12.0 14.0	179.0 142.0													
16.0	1142.0													
18.0	94.0													
20.0	79.0													
22.0 24.0	68.0 59.0													
26.0	51.0													
28.0	45.5													
30.0	40.0													
32.0 34.0	35.5 32.0													
36.0	28.7													
38.0	25.8													
40.0	23.2													
* n *	26													
_														
o _fo														
⋓ m/s	12.8													
					\ <u></u>							$\overline{}$	_	$\overline{}$
		S 42m				110	IJ _≣ z	25		60°				
	_/L				JL	t		t	3	bU°	/ <u> </u>			



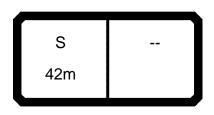
			***	013		22.00							
		m	n > < t	p1: D=	DE :		36<				U18		
m	42.0												
7.0 8.0	426.0 351.0												
9.0	297.0												
10.0	256.0												
11.0 12.0	225.0 200.0												
14.0	159.0												
16.0 18.0	128.0 106.0												
20.0	89.0												
22.0	77.0												
24.0 26.0	67.0 59.0												
28.0	52.0												
30.0 32.0	46.5												
34.0	41.5 37.5												
36.0	33.5												
38.0 40.0	30.5 27.9												
10.0	21.0												
* n *	29												
- "	23												
_													
_													
_													
0-40													
⋓ m/s	12.8												
				7	_	1			_		$\overline{}$	$\overline{}$	$\overline{}$
		S 42m			130 t	∭ _₽ ₹	25 t	3)				



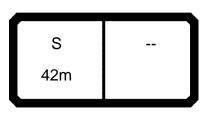
				ty	p1: D=	=28.0 ı	mm				***	012	,	22.00
		m) > < t		CO	DE :	>003	35<				U18	1 07	700
m	42.0													
7.0	460.0													
8.0 9.0	386.0 327.0													
10.0	282.0													
11.0 12.0	248.0 220.0													
14.0	175.0													
16.0	141.0													
18.0 20.0	117.0 100.0													
22.0	86.0													
24.0	75.0													
26.0 28.0	66.0 59.0													
30.0	53.0													
32.0	47.0													
34.0 36.0	42.5 39.0													
38.0	35.5													
40.0	32.5													
* n *	32													
-														
_														
_														
0- 10	10.0													
■ m/s	12.8													
					7					$\overline{}$		$\overline{}$		$\overline{}$
		S				150	[[₌z	25		٦l				
	_JL	42m				t		t =	3	60°			L	



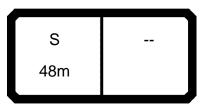
				ty	p1: D=	=28.0	mm				***	011		22.00
		m	ı > < t		CO	DE :	>003	34<				U18	1 07	700
m	42.0													
7.0	460.0													
8.0 9.0	399.0 351.0													
10.0	304.0													
11.0	267.0													
12.0 14.0	238.0 189.0													
16.0	152.0													
18.0	127.0													
20.0 22.0	108.0 93.0													
24.0	82.0													
26.0	72.0													
28.0 30.0	64.0 58.0												<u> </u>	
32.0	52.0													
34.0	47.0													
36.0 38.0	43.0												 	
40.0	39.0 36.0													
													 	
* n *	32													
_														
_													 	
o- #0														
⋓ m/s	12.8													
	—				\ _							$\overline{}$	_	$\overline{}$
		S 42m				150	IJ _₽ ₹	65		<u> </u>				
	_/\				JL	t		t	3	60°			<u> </u>	



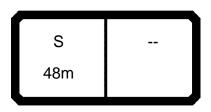
				ty	p1: D=	=28.0	mm				***	010	;	22.00
A		m	n > < t			DE :		33<				U18	1 07	700
m	42.0													
7.0	470.0													
8.0 9.0	414.0 366.0													
10.0	325.0													
11.0	288.0													
12.0	259.0													
14.0	205.0													
16.0 18.0	166.0 139.0													
20.0	118.0													
22.0	102.0													
24.0	90.0													
26.0 28.0	79.0 71.0													
30.0	64.0													
32.0	58.0													
34.0	52.0													
36.0 38.0	48.0													
40.0	44.0 40.5													
10.0	40.0													
* n *	33													
-														
_														
_														
_														
0-40 m/s	12.8													
		S 42m				170	Ì[₽	65		7				
	_/L				JL	t		t	3	60°			<u> </u>	



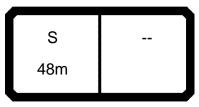
				ty		***	009	,	22.00					
	MM	m	> < t		CO	DE :	>003	32<				U18	1 07	700
m	42.0													
7.0 8.0	481.0 426.0													
9.0	379.0													
10.0 11.0	337.0 300.0													
12.0	275.0													
14.0	222.0													
16.0 18.0	180.0 150.0													
20.0	128.0													
22.0	111.0													
24.0 26.0	98.0 87.0													
28.0	78.0													
30.0 32.0	70.0													
34.0	63.0 58.0													
36.0	53.0													
38.0 40.0	48.5 45.0													
10.0	75.0													
* n *	0.4													
" N "	34													
_														
0-40 m/s	12.8													
					1									$\overline{}$
		S 42m				190 t		65 t	3	60°				



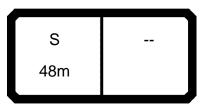
*** 017____ typ1: D=28.0 mm 22.00 CODE >0049< U181 0800 m > < t48.0 153.0 9.0 128.0 10.0 109.0 11.0 94.0 12.0 82.0 14.0 64.0 16.0 51.0 18.0 41.0 20.0 33.0 22.0 26.8 24.0 21.8 26.0 17.4 28.0 13.7 30.0 10.6 32.0 8.0 34.0 * n * 9 0-40 m/s 12.8 S 48m



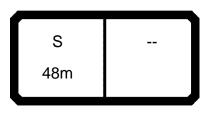
				ty		***	016		22.00					
		m	> < t		CO	DE :	>00	18<				U181	30	300
m	48.0													
8.0 9.0	219.0 185.0													
10.0	159.0													
11.0	139.0													
12.0 14.0	123.0 98.0													
16.0	80.0													
18.0	65.0													
20.0	54.0													
22.0 24.0	45.0 38.5													
26.0	32.5													
28.0	27.9													
30.0 32.0	23.8 20.2													
34.0	17.1													
36.0	14.4													
38.0 40.0	12.1 10.0													
44.0	6.6													
* n *	14													
_														
_														
_														
0-10 m/s	12.8													
														$\overline{}$
		S 48m				70 t		5 t	3	60°				



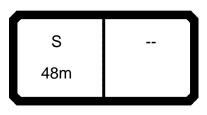
*** 015 typ1: D=28.0 mm 22.00 CODE >0047< U181 0800 m > < t48.0 285.0 9.0 242.0 10.0 209.0 11.0 184.0 12.0 163.0 14.0 132.0 16.0 108.0 18.0 89.0 20.0 74.0 22.0 63.0 24.0 54.0 26.0 47.5 28.0 41.5 30.0 36.5 32.0 32.0 34.0 28.5 36.0 25.2 38.0 22.2 40.0 19.5 44.0 15.2 48.0 11.8 * n * 18 0-40 m/s 12.8 S 48m



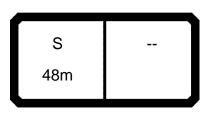
*** 014 22.00 typ1: D=28.0 mm CODE >0046< U181 0800 m > < t48.0 299.0 9.0 254.0 10.0 220.0 11.0 193.0 12.0 171.0 14.0 139.0 16.0 113.0 18.0 93.0 20.0 78.0 22.0 67.0 24.0 58.0 26.0 50.0 28.0 44.0 30.0 39.0 32.0 34.5 34.0 30.5 36.0 27.4 38.0 24.2 40.0 21.5 44.0 16.9 48.0 13.4 * n * 19 0-40 m/s 12.8 S 48m



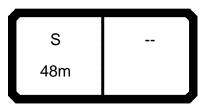
				ty		***	013	:	22.00					
		m	> < t		CO	DE :	>00	45<				U18′	08	300
m	48.0													
8.0 9.0	332.0 282.0													
10.0	245.0													
11.0	215.0													
12.0 14.0	192.0 156.0													
16.0	127.0													
18.0	105.0													
20.0 22.0	89.0 76.0													
24.0	66.0													
26.0 28.0	58.0													
30.0	51.0 45.0													
32.0	40.5													
34.0 36.0	36.0													
38.0	32.5 29.2													
40.0	26.2													
44.0 48.0	21.2 17.3													
40.0	17.3													
* n *	22													
_														
_														
0-10 m/s	12.8													
														$\overline{}$
		S 48m				130 t		25 t	3	60°				



*** 012 22.00 typ1: D=28.0 mm CODE >0044< U181 0800 m > < t48.0 365.0 9.0 311.0 10.0 270.0 11.0 238.0 12.0 212.0 14.0 173.0 16.0 141.0 18.0 117.0 20.0 99.0 22.0 85.0 24.0 74.0 26.0 65.0 28.0 58.0 30.0 51.0 32.0 46.0 34.0 41.5 36.0 37.5 38.0 34.0 40.0 31.0 44.0 25.5 48.0 21.1 * n * 24 0-40 m/s 12.8 S 48m



				typ1	: D=28	.0 mn	n			***	011		22.00
	M	m >	> < t				043	<			U18	1 08	300
m	48.0												
8.0	392.0												
9.0	334.0 291.0										1		
11.0	256.0												
12.0	229.0												
14.0	187.0												
16.0	152.0												
18.0 20.0	126.0 107.0												
22.0	92.0												
24.0	81.0												
26.0	71.0												
28.0	63.0												
30.0 32.0	56.0 51.0										1		
34.0	46.0												
36.0	41.5												
38.0	38.0												
40.0	34.5												
44.0 48.0	29.0 24.3												
40.0	24.3												
* n *	27										+		
										1			
											+		
0-40													
⋓ m/s	12.8												
							25	7				$\overline{}$	
		S 48m			150 t		65 t	┋ ∭∮	360°				



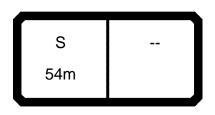
				ty	p1: D=	=28.0	mm			***	010		22.00
		m	1 > < t			DE :		12<			U18	1 08	300
m	48.0												
8.0 9.0	409.0 359.0												
10.0	316.0												
11.0 12.0	279.0 249.0												
14.0	204.0												
16.0 18.0	166.0 138.0												
20.0 22.0	117.0												
24.0	101.0 89.0												
26.0 28.0	78.0 70.0												
30.0	63.0												
32.0 34.0	56.0 51.0												
36.0	46.5												
38.0 40.0	42.5 39.0												
44.0	33.0												
48.0	28.2												
* n *	28												
0-40 m/s	12.8												
											 ;		
		S 48m				170 t	Ĭ	65 t	60°				



					=28.0				***	009		22.00
		m	ı > < t	CO	DE :	>00	41<			U18	1 0	300
m	48.0											
8.0 9.0	420.0 372.0											
10.0	372.0											
11.0	300.0											
12.0 14.0	268.0 221.0											
16.0	179.0											
18.0 20.0	150.0 127.0											
22.0	110.0											
24.0	97.0											
26.0 28.0	86.0 77.0											
30.0	69.0											
32.0 34.0	62.0											
36.0	57.0 52.0											
38.0	47.5											
40.0 44.0	43.5 37.0											
48.0	32.0											
* n *	29											
0-40												
m/s	12.8											
		_		7	<u> </u>	1	65					$\overline{\ \ }$
		S 48m			190 t	∭ <u>₽</u>	65 t	60°				



				ty	p1: D=	=28.0	mm				***	017		22.00
	M	l m	1 > < t		CO	DE :	>005	- 86				U18	1 09	900
m	54.0													
8.0	144.0													
9.0	121.0 103.0													
11.0	89.0													
12.0	78.0													
14.0 16.0	61.0 48.0													
18.0	38.5													
20.0	30.5													
22.0	24.7													
24.0 26.0	19.7 15.5													
28.0	12.0													
30.0	9.0													
32.0	6.4													
* *	•													
* n *	9													
_														
_														
o _{f0														
m/s	12.8													
		L			\ <u></u>					_				
		S 54m				30 t	IJ _≣ ∓	5)				
	_/\				-		/	`	3		<u>'</u>		<u> </u>	



m	54.0 207.0	m :	> < t	CO								
m				CO	DE >	>005	57<			U18	1 09	900
	207.0											
8.0												
9.0	176.0 152.0											
11.0	133.0											
12.0	117.0											
14.0 16.0	94.0 76.0											
18.0	63.0											
20.0 22.0	53.0											
24.0	44.5 37.5											
26.0	31.5											
28.0 30.0	27.0 22.7											
32.0	19.1											
34.0	16.0											
36.0 38.0	13.3 10.9											
40.0	8.8											
44.0	5.3											
* n *	13											
-												
+												
									<u> </u>		<u> </u>	
-												
0-40 m/s	12.8											
		S			<u>^</u>		5		$\overline{}$			
		54m			70 t	║≝	t	3	60°			



				ty	p1: D=	=28.0	mm				***	015		22.00
		m	1 > < t			DE :		56<				U18	1 09	900
m	54.0													
8.0	270.0													
9.0	230.0 200.0													
11.0	176.0													
12.0	156.0													
14.0 16.0	127.0 105.0													
18.0	88.0													
20.0	73.0													
22.0 24.0	62.0 54.0													
26.0	46.5													
28.0	40.5													
30.0 32.0	35.5													
34.0	31.0 27.4													
36.0	24.0													
38.0 40.0	21.0													
44.0	18.3 13.9													
48.0	10.3													
52.0	7.6													
* n *	17													
_														
_														
_														
0-10	40.0													
m/s	12.8													
					7					$\overline{}$		$\overline{}$		$\overline{}$
		S 54m				110	∏ _≣ z	5		ار				
)[54111				t		t	3	60°				



				ty	p1: D=	=28.0	mm			***	014		22.00
	M M	m	ı > < t			DE :		55<			U18	1 09	900
m	54.0												
8.0 9.0	283.0 242.0												
10.0 11.0	210.0 185.0												
12.0	165.0												
14.0 16.0	134.0 111.0												
18.0 20.0	93.0 78.0												
22.0	66.0												
26.0	57.0 49.5												
28.0 30.0	43.0 38.0												
32.0 34.0	33.5 29.7												
36.0 38.0	26.2												
40.0	23.0 20.3												
44.0 48.0	15.6 11.9												
52.0	9.0												
* n *	18												
_													
_													
_													
o-fo m/s	12.8												
					1								$\overline{}$
		S 54m				110 t	∐ _≣ z	25 t	60°				



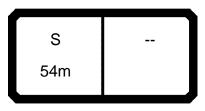
				ty	p1: D=	=28.0	mm				***	013		22.00
	MM	m	> < t		CO	DE :	>005	54<				U18	1 09	900
m	54.0													
8.0	314.0													
9.0	269.0 234.0													
11.0	207.0													
12.0	184.0													
14.0	150.0													
16.0 18.0	125.0 104.0													
20.0	88.0													
22.0	75.0													
24.0 26.0	65.0 57.0													
28.0	50.0													
30.0	44.0													
32.0 34.0	39.5													
36.0	35.0 31.5													
38.0	28.1													
40.0	25.0													
44.0 48.0	19.9 15.8													
52.0	12.6													
* n *	20													
0 m/s	12.8													
		S 54m				130 t		25 t	3	60°				



				ty	p1: D=	=28.0	mm				***	012		22.00
		m	> < t		CO	DE >	>005	53<				U18	1 09	900
m	54.0													
8.0	346.0													
9.0	296.0 258.0													
11.0	228.0													
12.0	204.0													
14.0 16.0	167.0 140.0													
18.0	116.0													
20.0	98.0													
22.0 24.0	84.0 73.0													
26.0	64.0													
28.0	57.0													
30.0 32.0	50.0 45.0													
34.0	40.5													
36.0	36.5													
38.0 40.0	33.0													
44.0	29.8 24.2													
48.0	19.7													
52.0	16.1													
	00													
* n *	23													
_														
_														
0-10	45 -													
⋓ m/s	12.8													
		I I										$\overline{}$		$\overline{}$
		S 54m				150	IJ _₽ ₽	25		7				
	_/[JĽ	t		t	3	60°			$ldsymbol{ld}}}}}}}$	



*** 0<u>11</u> typ1: D=28.0 mm 22.00 CODE >0052< U181 0900 m > < t54.0 372.0 9.0 319.0 10.0 278.0 11.0 246.0 12.0 220.0 14.0 180.0 151.0 16.0 18.0 125.0 20.0 106.0 22.0 92.0 24.0 80.0 26.0 70.0 28.0 62.0 30.0 55.0 32.0 49.5 34.0 45.0 36.0 40.5 38.0 36.5 40.0 33.5 44.0 27.7 48.0 22.9 52.0 19.1 * n * 25 0-40 m/s 12.8 S 54m



				ty	p1: D=	=28.0	mm				***	010		22.00
	M M	m	ı > < t			DE :		51<				U18	1 09	900
m	54.0													
8.0 9.0	399.0 346.0													
10.0	302.0													
11.0 12.0	268.0 240.0													
14.0	197.0													
16.0 18.0	165.0 137.0													
20.0	116.0													
22.0 24.0	101.0 88.0													
26.0 28.0	77.0													
30.0	69.0 62.0													
32.0 34.0	56.0 50.0													
36.0	45.5													
38.0 40.0	41.5 38.0													
44.0	32.0													
48.0 52.0	26.8 22.6													
* n *	27													
_														
0-40 m/s	12.8													
	—				\ _					_				_
		S 54m				170 t		65 t	3	60°				



				ty	o1: D=	=28.0	mm				***	009		22.00
		m	> < t		CO	DE :	>005	5 0<				U18	1 09	900
m	54.0													
8.0	409.0													
9.0	368.0 327.0													
11.0	289.0													
12.0	259.0													
14.0 16.0	213.0 179.0													
18.0	149.0													
20.0	127.0													
22.0 24.0	110.0 96.0													
26.0	85.0													
28.0	76.0													
30.0 32.0	68.0 61.0													
34.0	56.0													
36.0	51.0													
38.0 40.0	46.0													
44.0	42.5 36.0													
48.0	30.5													
52.0	26.2													
* n *	28													
_														
_														
0-40 m/s	12.8													
W 111/3	.2.0													
					1					$\overline{}$		$\overline{}$		$\overline{}$
		S				190	[[] _≣ 7	65		ار				
	_][54m				t		t =	3	60°				



				ty	p1: D=	=28.0	mm				***	016		22.00
	MM	m	1 > < t			DE :		66<				U18′	1 0/	400
m	60.0													
9.0 10.0	167.0 145.0													
11.0 12.0	127.0 112.0													
14.0 16.0	90.0													
18.0 20.0	61.0													
22.0	51.0 42.5													
24.0 26.0	36.0 30.5													
28.0 30.0	25.7 21.5													
32.0 34.0	17.9 14.7													
36.0 38.0	11.9 9.5													
40.0	7.4													
* n *	10													
_														
_														
_														
0-40														
■ m/s	12.8													
		S			1	~	1	5						$\overline{\ \ }$
		60m				70	<u>₽</u>)				
	_][50111			JĽ	t		t	3	60°				



				ty	p1: D=	=28.0	mm			***	015		22.00
		m	ı > < t			DE :		55<			U18 ⁻	1 0/	00
m	60.0												
9.0 10.0	220.0 191.0												
11.0	169.0												
12.0 14.0	150.0 122.0												
16.0	101.0												
18.0 20.0	85.0 73.0												
22.0	62.0												
24.0 26.0	53.0 45.5												
28.0	39.5												
30.0 32.0	34.5 30.0												
34.0	26.1												
36.0 38.0	22.7 19.6												
40.0	16.9												
44.0 48.0	12.3 8.7												
52.0	5.7												
* n *	14												
" N "	14												
_													
o-fo m/s	12.8												
		S 60m				110 t	Ĭ	5 t) 60°				



	I			typ	1: D=	=28.0 ı	mm				***	014		22.00
	MM	m	> < t		CO	DE >	>006	64<				U18	1 0/	400
m	60.0													
9.0 10.0	231.0 201.0													
11.0	177.0													
12.0	158.0													
14.0 16.0	129.0 107.0													
18.0	90.0													
20.0	77.0													
22.0 24.0	65.0 56.0													
26.0	48.5			+										
28.0	42.5													
30.0 32.0	37.0 32.5													
34.0	28.5													
36.0	24.8													
38.0 40.0	21.7 18.8													
44.0	14.1													
48.0	10.3													
52.0	7.2													
* n *	15													
_														
_														
0-40 m/s	12.8													
		S 60m				110][=	25	3	7				
	_)[JL	t		t	3	60°				



m 60.0					ty	p1: D=	=28.0	mm			***	013	22.00
9.0 257.0 10.0 224.0 11.0 198.0 12.0 177.0 14.0 145.0 16.0 121.0 18.0 13.0 20.0 87.0 22.0 74.0 24.0 64.0 26.0 56.0 28.0 49.0 30.0 33.0 33.0 33.0 33.0 33.0 33.0 3			m	ı > < t					63<				00
110.0 224.0 110.0 198.0 110.0 198.0 112.0 177.0 14.0 145.0 16.0 121.0 18.0 103.0 22.0 87.0 22.0 74.0 24.0 64.0 26.0 56.0 28.0 49.0 30.0 43.0 30.0 32.0 38.0 30.0 34.0 36.0 30.0 38.0 26.7 40.0 23.6 44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8	m	60.0											
11.0 198.0 177.0 14.0 145.0 16.0 121.0 177.0 14.0 145.0 16.0 121.0 179.0													
14.0 177.0 145.0 145.0 156.0 121.0 188.0 103.0 20.0 87.0 22.0 74.0 24.0 84.0 26.0 86.0 28.0 49.0 30.0 32.0 38.0 32.0 38.0 32.0 38.0 32.0 38.0 36.0 30.0 38.0 26.7 40.0 23.6 44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8													
14.0 145.0 16.0 121.0 18.0 103.0 20.0 87.0 22.0 74.0 24.0 64.0 26.0 56.0 28.0 49.0 30.0 34.0 34.0 34.0 34.0 34.0 38.0 30.0 38.0 26.7 40.0 44.0 18.4 48.0 14.2 48.0 14.2 48.0 14.2 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8													
18.0 103.0 200 87.0 220 74.0 24.0 64.0 26.0 56.0 28.0 49.0 30.0 34.0 34.0 36.0 30.0 38.0 26.7 44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8 5.0 5.8 5.0	14.0	145.0											
20.0 87.0 22.0 74.0 24.0 64.0 64.0 64.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8													
22.0 74.0 64.0 24.0 64.0 26.0 56.0 28.0 49.0 30.0 43.0 32.0 38.0 34.0 34.0 34.0 34.0 34.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8													
24.0 64.0 28.0 56.0 28.0 49.0 30.0 43.0 33.0 33.0 43.0 34.0 34.0 38.0 26.7 40.0 23.6 44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8													
28.0 49.0 30.0 43.0 32.0 38.0 34.0 34.0 36.0 30.0 38.0 26.7 40.0 23.6 44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8	24.0	64.0											
30.0 43.0 32.0 38.0 34.0 34.0 36.0 30.0 38.0 26.7 40.0 23.6 44.0 18.4 44.0 14.4 52.0 10.7 56.0 7.9 60.0 5.8													
32.0 38.0 34.0 34.0 36.0 30.0 38.0 26.7 40.0 23.6 44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8													
34.0 34.0 30.0 30.0 30.0 33.0 26.7 40.0 23.6 44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8 56.0 7.9 56.0 7.0 56.0 7.9 56.0 7.0													
38.0 26.7 40.0 23.6 44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8	34.0												
40.0 23.6 44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8 *n* 16 *n* 16 *n* 16 S													
44.0 18.4 48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8													
48.0 14.2 52.0 10.7 56.0 7.9 60.0 5.8													
56.0 7.9 60.0 5.8	48.0												
60.0 5.8 *n* 16													
n 16													
S 130 25 130	00.0	5.8											
S 130 25 130													
S 130 25 130													
S 130 25 130													
S 130 25 130													
S 130 25 130													
S - 25 (130)	* n *	16											
S - 25 (130)	_											+ +	
S - 25 (130)													
S - 25 (130)													
S - 25 (130)													
S - 25 (130)													
S - 25 (130)													
S - 25 (130)													
S 130 25 130	I M	40.0											
	w m/s	1∠.δ											
						1		1		_		$\overline{}$	_
t t 360°			S 60m				130 t	∥ _₽ ₹	25)			



*** 012 22.00 typ1: D=28.0 mm CODE >0062< U181 0A00 m > < t60.0 283.0 9.0 10.0 248.0 11.0 219.0 12.0 196.0 14.0 161.0 16.0 135.0 18.0 115.0 20.0 97.0 22.0 83.0 24.0 72.0 26.0 63.0 28.0 56.0 30.0 49.5 32.0 44.0 34.0 39.5 36.0 35.5 38.0 31.5 40.0 28.4 44.0 22.6 48.0 18.0 52.0 14.3 56.0 11.2 60.0 8.8 * n * 18 0-40 m/s 12.8 S 60m



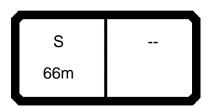
				ty	p1: D=	=28.0	mm				***	011		22.00
		m	ı > < t		CO	DE :	>006	51<				U18	1 0/	400
m	60.0													
9.0	305.0													
10.0 11.0	267.0 237.0													
12.0	212.0													
14.0	174.0													
16.0	146.0													
18.0 20.0	125.0 106.0													
22.0	91.0													
24.0	79.0													
26.0	69.0													
28.0 30.0	61.0 54.0													
32.0	48.5													
34.0	43.5													
36.0	39.5													
38.0	35.5													
40.0 44.0	32.0 26.2													
48.0	21.2													
52.0	17.2													
56.0	13.9													
60.0	11.3													
* n *	20													
_														
_														
_														
0-40														
m/s	12.8													
					1	А	1	CE					$\overline{}$	
		S 60m				150 t	∭ <u>₽</u>	65 t	3	60°				



				ty	p1: D=	=28.0	mm			***	010		22.00
		m	ı > < t			DE :		>06			U18	1 0/	400
m	60.0												
9.0	331.0												
10.0 11.0	290.0 258.0												
12.0	231.0												
14.0	190.0												
16.0	160.0												
18.0 20.0	137.0 116.0												
22.0	100.0												
24.0	87.0												
26.0	77.0												
28.0 30.0	68.0 61.0												
32.0	54.0												
34.0	49.0												
36.0 38.0	44.5 40.5												
40.0	36.5												
44.0	30.5												
48.0	25.1												
52.0 56.0	20.8 17.2												
60.0	14.4												
* n *	22												
_													
_													
0-40	40.0												
m/s	12.8												
					7				_		$\overline{}$		$\overline{}$
		S 60m				170 t	∭ _₽ ₹	65 t	60°				



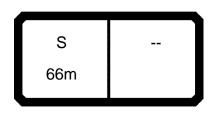
				ty	p1: D=	=28.0	mm			***	009		22.00
		m	ı > < t			DE :		59<			U18′	1 O <i>A</i>	00
m	60.0												
9.0 10.0	357.0 313.0												
11.0	279.0												
12.0 14.0	250.0 206.0												
16.0	174.0												
18.0 20.0	148.0 126.0												
22.0 24.0	109.0												
26.0	95.0 84.0												
28.0 30.0	75.0												
30.0	67.0 60.0												
34.0 36.0	54.0												
38.0	49.5 45.0												
40.0 44.0	41.0 34.5												
48.0	29.0												
52.0 56.0	24.3 20.5												
60.0	17.4												
* n *	24												
o-fo m/s	12.8												
		S 60m				190 t		65 t	60°				



				ty	p1: D=	=28.0	mm				***	016		22.00
	MM	m	> < t		CO	DE :	>007	74<				U18′	OE	300
m														
10.0 11.0	138.0 121.0													
12.0	107.0													
14.0 16.0	86.0 70.0													
18.0	57.0													
20.0	47.5													
22.0 24.0	40.0 33.5													
26.0	27.9													
28.0 30.0	23.2 19.2													
32.0	15.8													
34.0 36.0	12.7 10.0													
38.0	7.6													
40.0	5.5													
* n *	9													
_														
_														
_														
0-40														
■ m/s	12.8													
					1	_	1	_						$\overline{}$
		S 66m				70 t	∭ _₽ ₹	5 t	3	60°				



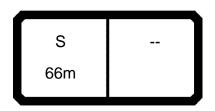
				ty	p1: D=	=28.0	mm				***	015		22.00
	MM	m	1 > < t			DE :		73<				U18	1 OE	300
m m	66.0													
10.0 11.0	183.0 162.0													
12.0	144.0													
14.0 16.0	117.0 97.0													
18.0	82.0													
20.0 22.0	69.0 60.0													
24.0	51.0													
26.0 28.0	44.5													
30.0	38.5 33.0													
32.0	28.6													
34.0 36.0	24.6 21.1													
38.0	18.0													
40.0 44.0	15.3 10.6													
48.0	6.9													
* n *	11													
" N "	11													
_														
0-10														
m/s	12.8													
														$\overline{}$
		S 66m				110 t		5 t	3	60°				



				ty	p1: D=	=28.0	mm				***	014		22.00
		m) > < t		CO	DE :	>007	72<				U18	1 OE	300
m	66.0													
10.0	192.0													
11.0 12.0	170.0 152.0													
14.0	123.0													
16.0	103.0													
18.0 20.0	87.0 74.0													
22.0	64.0													
24.0	55.0													
26.0 28.0	47.5 41.0													
30.0	36.0													
32.0	31.0													
34.0 36.0	26.9 23.3													
38.0	20.1													
40.0	17.2													
44.0 48.0	12.4 8.5													
52.0	5.3													
	- 10													
* n *	12													
_														
_														
_														
0-40 m/s	12.8													
2,0	0													
					1	_		0.5						
		S 66m				110 t	∐ _≌ z	25 t	(60°				
	_/\				_	•	/ -				· •		<u> </u>	



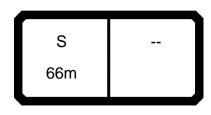
				ty	p1: D=	=28.0	nm				***	013		22.00
		m	ı > < t		CO	DE :	>007	71<				U18	1 OE	300
m	66.0													
10.0	215.0													
11.0 12.0	190.0 170.0													
14.0	139.0													
16.0	116.0													
18.0	99.0													
20.0 22.0	85.0 73.0													
24.0	63.0													
26.0	55.0													
28.0	48.0													
30.0 32.0	42.0 37.0													
34.0	32.5													
36.0	28.6													
38.0	25.1													
40.0 44.0	22.0 16.7													
48.0	12.4													
52.0	8.9													
56.0	6.0													
* n *	14													
-														
_														
0.40														
0-40 m/s	12.8													
					1			0.5					$\overline{}$	
		S 66m				130	∐ _≣ z	25		つ				
	_/[JĽ	t		t	3	60°				



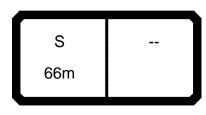
*** 012 22.00 typ1: D=28.0 mm CODE >0070< U181 0B00 m > < t66.0 237.0 10.0 11.0 211.0 12.0 189.0 14.0 155.0 16.0 130.0 18.0 111.0 20.0 96.0 22.0 82.0 24.0 71.0 26.0 62.0 28.0 55.0 30.0 48.0 32.0 42.5 34.0 38.0 36.0 34.0 38.0 30.0 40.0 26.7 44.0 21.0 48.0 16.3 52.0 12.5 56.0 9.3 60.0 6.6 * n * 15 0-40 m/s 12.8 S 66m



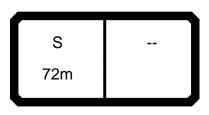
				ty	p1: D=	=28.0	mm			***	011		22.00
		m	ı > < t		CO	DE :	>006	59<			U18	1 OE	300
m	66.0												
10.0 11.0	256.0 227.0												
12.0	204.0												
14.0 16.0	168.0 141.0												
18.0	121.0												
20.0 22.0	105.0 90.0												
24.0	78.0												
26.0 28.0	68.0												
30.0	60.0 53.0												
32.0	47.5												
34.0 36.0	42.5 38.0												
38.0	34.0												
40.0 44.0	30.5 24.5												
48.0	19.5												
52.0 56.0	15.4 12.0												
60.0	9.1												
64.0	6.8												
* n *	16												
_													
_													
- 1-													
o-fo m/s	12.8												
		S				150		65	7				
		66m				t		t	60°				



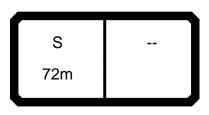
						=28.0 ı					***	010		22.00
		m	ı > < t		CO	DE >	>006	>86				U18	1 OE	300
m	66.0													
10.0	278.0													
11.0	248.0													
12.0 14.0	223.0 184.0													
16.0	155.0													
18.0	133.0													
20.0	115.0													
22.0	99.0													
24.0	86.0													
26.0 28.0	75.0 67.0													
30.0	59.0													
32.0	53.0													
34.0	48.0													
36.0	43.0													
38.0	39.0													
40.0	35.5													
44.0 48.0	28.7 23.4													
52.0	18.9													
56.0	15.3													
60.0	12.2													
64.0	9.7													
* n *	18													
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0-40														
1 m 1	400													
■ m/s	12.8													
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		66m						▔	🔪	60°				
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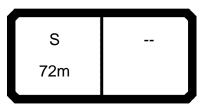
	typ1: D=28.0 mm											*** 009		
		m	> < t		CODE >0067<							U181	OE	300
m	66.0													
10.0 11.0	301.0 268.0													
12.0	241.0													
14.0	199.0													
16.0 18.0	169.0 145.0													
20.0	125.0													
22.0 24.0	108.0 94.0													
26.0	83.0													
28.0	73.0													
30.0 32.0	66.0 59.0													
34.0	53.0													
36.0	48.0													
38.0 40.0	43.5 39.5													
44.0	33.0													
48.0 52.0	27.2 22.5													
56.0	18.5													
60.0	15.2													
64.0	12.5													
* n *	20													
_														
_														
_														
0-40														
m/s	12.8													
														$\overline{}$
		S 66m				190 t	Ĭ	65 t	3	60°				



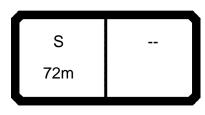
	typ1: D=28.0 mm											*** 015		
		m	ı > < t		CO	DE :	>00	31<		U18′	1 00	0C00		
m	72.0													
10.0 11.0	175.0 155.0													
12.0	138.0													
14.0 16.0	112.0													
16.0	93.0 78.0													
20.0	66.0													
22.0 24.0	57.0 48.5													
26.0	42.0													
28.0	36.0													
30.0 32.0	31.0 26.8													
34.0	23.0													
36.0 38.0	19.6 16.5													
40.0	13.7													
44.0	9.0													
48.0	5.2													
* n *	11													
-														
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0-40 m/s	12.8													
					1		\ <u></u>			$\overline{}$			_	$\overline{}$
		S 72m				110 t	╠	5 t	3	60°				



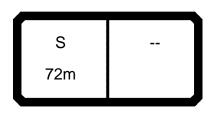
	typ1: D=28.0 mm											014	22.00			
		m	> < t		CODE >0080<							U181 0C				
m	72.0															
10.0	184.0															
11.0 12.0	163.0 146.0															
14.0	119.0															
16.0	98.0															
18.0	83.0															
20.0 22.0	71.0 61.0															
24.0	52.0															
26.0	45.0															
28.0	39.0															
30.0 32.0	34.0 29.5															
34.0	25.5															
36.0	21.8															
38.0	18.5															
40.0 44.0	15.6 10.8															
48.0	6.8															
* n *	11															
_																
-																
_																
_																
0-+0 m/s	12.8															
		S 72m				110 t		25 t	3	60°						



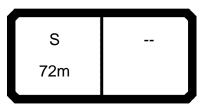
*** 013 typ1: D=28.0 mm 22.00 CODE >0079< U181 0C00 m > < t72.0 206.0 10.0 11.0 183.0 12.0 164.0 14.0 134.0 16.0 112.0 18.0 95.0 20.0 81.0 22.0 70.0 24.0 61.0 26.0 53.0 28.0 46.5 30.0 41.0 32.0 36.0 34.0 31.0 36.0 27.1 38.0 23.6 40.0 20.4 44.0 15.1 48.0 10.7 52.0 7.2 * n * 13 0-40 m/s 12.8 S 72m



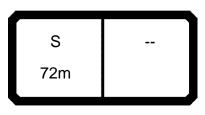
*** 012 typ1: D=28.0 mm 22.00 CODE >0078< U181 0C00 m > < t72.0 227.0 10.0 11.0 202.0 12.0 182.0 14.0 149.0 16.0 125.0 18.0 107.0 20.0 92.0 22.0 80.0 24.0 70.0 26.0 61.0 28.0 53.0 30.0 47.0 32.0 41.5 34.0 37.0 36.0 32.5 38.0 28.6 40.0 25.2 44.0 19.3 48.0 14.6 52.0 10.7 56.0 7.5 * n * 14 0-40 m/s 12.8 S 72m



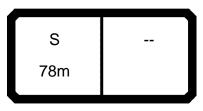
														22.00
		m	> < t		CO	DE >	>007	77<				U18	1 00	200
m	72.0													
10.0	245.0													
11.0 12.0	219.0 196.0													
14.0	162.0													
16.0	136.0													
18.0 20.0	117.0 101.0													
22.0	88.0													
24.0	77.0													
26.0 28.0	67.0 59.0													
30.0	52.0													
32.0	46.0													
34.0 36.0	41.0													
38.0	37.0 32.5													
40.0	29.1													
44.0	22.8													
48.0 52.0	17.8 13.6													
56.0	10.2													
60.0	7.2													
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_														
o _∦o														
⋓ m/s	12.8													
		S			1	A	חו	65						1
						150	[]≡2			つ				
		72m				t	IJ≡¯	▔▔█▋		60°				
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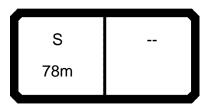
*** 0<u>10</u> 22.00 typ1: D=28.0 mm CODE >0076< U181 0C00 m > < t72.0 267.0 10.0 11.0 238.0 12.0 214.0 14.0 177.0 16.0 150.0 18.0 128.0 20.0 111.0 22.0 98.0 24.0 85.0 26.0 74.0 28.0 66.0 30.0 58.0 32.0 52.0 34.0 46.5 36.0 42.0 38.0 37.5 40.0 34.0 44.0 27.1 48.0 21.7 52.0 17.2 56.0 13.4 60.0 10.3 64.0 7.6 68.0 5.4 * n * 17 0-40 m/s 12.8 S 72m



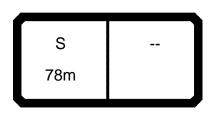
*** 009 22.00 typ1: D=28.0 mm CODE >0075< U181 0C00 m > < t72.0 289.0 10.0 11.0 258.0 12.0 232.0 14.0 193.0 16.0 163.0 18.0 140.0 20.0 122.0 22.0 107.0 24.0 93.0 26.0 82.0 28.0 72.0 30.0 64.0 32.0 58.0 34.0 52.0 36.0 47.0 38.0 42.5 40.0 38.5 44.0 31.5 48.0 25.6 52.0 20.8 56.0 16.7 60.0 13.3 64.0 10.5 68.0 8.0 * n * 19 0-40 m/s 12.8 S 72m



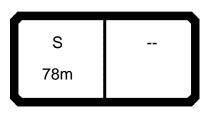
*** 014 typ1: D=28.0 mm 22.00 CODE >0087< U181 0D00 m > < t78.0 157.0 11.0 12.0 141.0 14.0 115.0 16.0 96.0 18.0 81.0 20.0 69.0 22.0 59.0 24.0 51.0 26.0 44.0 28.0 38.0 30.0 33.0 32.0 28.6 34.0 24.6 36.0 21.2 38.0 18.1 40.0 15.3 44.0 10.5 48.0 6.5 * n * 10 0-40 m/s 12.8 S 78m



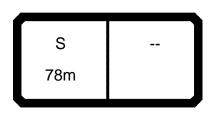
				ty	′p1: D=	=28.0	mm			***	013		22.00
		m	n > < t		CO	DE :	>00	36<			U18		
m	78.0												
11.0	176.0												
12.0 14.0	158.0 130.0												
16.0	109.0												
18.0	92.0												
20.0 22.0	79.0 69.0												
24.0	60.0												
26.0	52.0												
28.0 30.0	45.5 40.0												
32.0	35.0												
34.0	31.0												
36.0 38.0	26.9												
40.0	23.3 20.1												
44.0	14.7												
48.0 52.0	10.4												
52.0	6.8												
* n *	11												
_													
_													
0-40 m/s	12.8												
<u>— 111/3</u>	.2.0										<u></u>		
					7	_	1				<u> </u>	_	$\overline{}$
		S 78m				130 t	∏ _≣ z	25 t	60°				



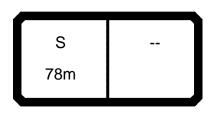
*** 012____ typ1: D=28.0 mm 22.00 CODE >0085< U181 0D00 m > < t78.0 195.0 11.0 12.0 176.0 14.0 145.0 16.0 122.0 18.0 104.0 20.0 90.0 22.0 78.0 24.0 68.0 26.0 60.0 28.0 53.0 30.0 47.0 32.0 41.5 34.0 36.5 36.0 32.0 38.0 28.3 40.0 24.9 44.0 19.0 48.0 14.2 52.0 10.3 56.0 7.0 * n * 12 0-40 m/s 12.8 S 78m



				typ1: [D=28.0	mm				***	011		22.00
		m >	· < t	CC	DE:	>00	34<				U18 ²	1 00	000
m	78.0												
11.0	210.0												
12.0 14.0	190.0 157.0												
16.0	133.0												
18.0	114.0												
20.0 22.0	98.0 86.0												
24.0	76.0												
26.0 28.0	67.0 59.0												
30.0	52.0												
32.0	46.0												
34.0 36.0	41.0												
38.0	36.5 32.5												
40.0	28.8												
44.0	22.5												
48.0 52.0	17.4 13.2												
56.0	9.7												
60.0	6.7												
* n *	13												
_													
_													
0-40													
■ m/s	12.8												
		'			•	1					$\overline{}$	_	$\overline{}$
		S 78m	-	·	150 t	∭ _≣ z	65 t	3	5 60°				



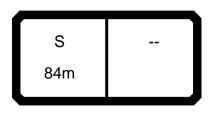
					=28.0					***	010		22.00
		m	> < t	CO	DE :	>00	33<				U18	1 0[000
m	78.0												
11.0	228.0												
12.0 14.0	208.0 172.0												
16.0	146.0												
18.0	125.0												
20.0 22.0	109.0 96.0												
24.0	84.0												
26.0	74.0												
28.0	66.0												
30.0 32.0	58.0 52.0												
34.0	46.5												
36.0	41.5												
38.0 40.0	37.5												
44.0	33.5 26.8												
48.0	21.3												
52.0	16.8												
56.0 60.0	13.0 9.8												
64.0	7.0												
* n *	14												
_													
_													
o -40													
■ m/s	12.8												
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		S 70			170][₌	65 ••••••••••••••••••••••••••••••••••••		7				
	_JL	78m			t		t =	3	60°				J



					=28.0					***	009		22.00
		m	> < t	CO	DE :	>00	32<				U18	1 0[000
m	78.0											1	
11.0	246.0												
12.0 14.0	225.0 187.0												
16.0	159.0											İ	
18.0	137.0												
20.0 22.0	119.0												
24.0	105.0 93.0											İ	
26.0	82.0												
28.0	72.0												
30.0 32.0	64.0 58.0											İ	
34.0	52.0												
36.0	46.5											<u> </u>	
38.0	42.0											1	
40.0 44.0	38.0 31.0												
48.0	25.2											1	
52.0	20.4												
56.0 60.0	16.3												
64.0	12.8 9.9											1	
68.0	7.3												
72.0	5.2												
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												<u> </u>	
												<u> </u>	
* n *	16												
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0-40 m/s	12.8											l	
		S			<u>~</u>		65						\bigcap
		78m			190	IJ₽			60°				
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				ty	p1: D=	=28.0	mm			***	012		22.00
		m	n > < t			DE :		91<			U18	1 OE	E00
m	84.0												
12.0 14.0	164.0 140.0												
16.0 18.0	118.0 100.0												
20.0	86.0												
22.0 24.0	75.0 66.0												
26.0 28.0	58.0 51.0												
30.0 32.0	44.5 39.5												
34.0 36.0	34.5 30.5												
38.0 40.0	27.0												
44.0	23.5 17.6												
48.0 52.0	12.8 8.8												
56.0	5.4												
* n *	10												
_													
_													
0-40 m/s	12.8												
		S 84m				150 t		25 t	60°				



*** 011 typ1: D=28.0 mm 22.00 CODE >0090< U181 0E00 m > < t84.0 177.0 12.0 14.0 152.0 16.0 128.0 18.0 110.0 20.0 95.0 22.0 83.0 24.0 73.0 26.0 64.0 28.0 57.0 30.0 50.0 32.0 45.0 34.0 40.0 36.0 35.5 38.0 31.0 40.0 27.4 44.0 21.1 48.0 16.0 52.0 11.7 56.0 8.1 60.0 5.1 * n * 11 0-40 m/s 12.8 S 84m



*** 010 typ1: D=28.0 mm 22.00 CODE >0089< U181 0E00 m > < t84.0 193.0 12.0 14.0 167.0 16.0 141.0 18.0 121.0 20.0 105.0 22.0 92.0 24.0 81.0 26.0 72.0 28.0 64.0 30.0 57.0 32.0 51.0 34.0 45.5 36.0 40.5 38.0 36.0 40.0 32.0 44.0 25.4 48.0 19.8 52.0 15.3 56.0 11.4 60.0 8.1 64.0 5.3 * n * 12 0-40 m/s 12.8 S 84m



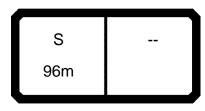
				ty	p1: D=	=28.0	mm				***	009		22.00
		m	> < t		CO	DE :	>00	38<				U18	1 OE	E00
m	84.0													
12.0	209.0													
14.0 16.0	181.0 154.0													
18.0	133.0													
20.0	116.0													
22.0 24.0	102.0 90.0													
26.0	80.0													
28.0	71.0													
30.0 32.0	63.0 57.0													
34.0	51.0													
36.0	45.5													
38.0 40.0	41.0 37.0													
44.0	29.6													
48.0	23.7													
52.0 56.0	18.8 14.7													
60.0	11.2													
64.0	8.2													
68.0	5.6													
* n *	13													
_														
_														
0-40 m/s	12.8													
		S				^_		65					\bigcap	
		84m				190	IJ₽			60°				
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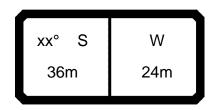
	ı			ty	p1: D=	=28.0	mm				***	010		22.00
		m	ı > < t		CO	DE >	>009	93<				U18	1 OF	- 00
m	90.0													
12.0	176.0													
14.0 16.0	154.0 136.0													
18.0	117.0													
20.0	101.0													
22.0 24.0	89.0 78.0													
26.0	69.0													
28.0	61.0													
30.0 32.0	54.0 48.5													
34.0	43.0													
36.0	38.5													
38.0 40.0	34.5 30.5													
44.0	23.6													
48.0	18.1													
52.0 56.0	13.5 9.6													
60.0	6.3													
* n *	11													
_														
_														
0-40 m/s	12.8													
	_													
					1			0.5						
		S 90m				170 t	IJ _₽ ₹	65 t	3	60°				
	_/\				_		_				<u> </u>		<u> </u>	



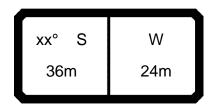
				ty	p1: D=	=28.0	mm			***	009		22.00
		m	> < t		CO	DE :	>009	92<			U18	1 OF	- 00
m	90.0												
12.0	191.0												
14.0 16.0	167.0 149.0												
18.0	128.0												
20.0	112.0												
22.0 24.0	98.0 86.0												
26.0	77.0												
28.0	68.0												
30.0 32.0	61.0 55.0												
34.0	49.0												
36.0	44.0												
38.0 40.0	39.5												
44.0	35.0 27.9												
48.0	22.0												
52.0	17.0												
56.0 60.0	12.9 9.4												
64.0	6.3												
* n *	12												
_													
_													
0-40 m/s	12.8												
		S 90m				190 t		65 t	60°				
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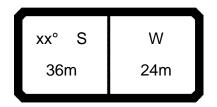
				ty	p1: D=	=28.0	mm			***	009		22.00
		m	1 > < t			DE :		94<			U18	1 1	000
m	96.0												
14.0 16.0	154.0 138.0												
18.0 20.0	124.0 109.0												
22.0	95.0												
24.0 26.0	84.0 75.0												
28.0 30.0	66.0 59.0												
32.0 34.0	53.0												
36.0	47.5 42.5												
38.0 40.0	38.5 34.5												
44.0 48.0	27.2 21.2												
52.0 56.0	16.3 12.1												
60.0	8.5												
64.0	5.5												
* n *	10												
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_													
_													
O-fo m/s	12.8												
					1		\ <u></u>						$\overline{}$
		S 96m				190 t	∭ _₽ ₹	65 t	60°				



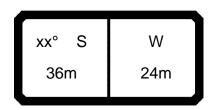
				ty	o1: D	=28.0 ı	mm						22.00
→	MM	m	ı > < t		CO	DE >	>063	33<			U18	1 1°	125
m m	36.0	36.0	36.0										
12.0	153.0												
14.0 16.0	130.0 112.0												
18.0	98.0												
20.0	87.0												
22.0 24.0	78.0 70.0	58.0											
26.0	64.0	52.0											
28.0	57.0	47.5											
30.0 32.0		43.0 39.5	31.0										
34.0		36.0	28.2										
36.0 38.0			25.7										
40.0			23.5 21.5										
* n *	9	4	2										
xx	87.0	77.0	67.0										
_													
_													
0-40													
m/s	12.8	12.8	12.8										
***	053	060	067										
					1	A	1	_				$\overline{}$	
		xx° S	5	W 24m		110	∐ _7	5		\			
		36m		24m		110	∐≡°		Ž				
	_/\					τ		τ	3	60°		<u> </u>	



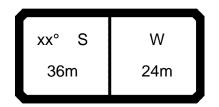
				ty	p1: D:	=28.0	mm						2	22.00
→	MM	m	> < t		CO	=28.0 DE :	>063	32<			U18	1	11	25
₩ E	36.0	36.0	36.0											
12.0	160.0													
14.0 16.0	136.0 117.0												_	
18.0	103.0													
20.0	91.0													
22.0	82.0												_	
24.0 26.0	74.0 67.0	61.0 55.0												
28.0	60.0	50.0											+	
30.0	00.0	46.0												
32.0		42.5	33.5											
34.0		38.5	30.5										\dashv	
36.0 38.0			28.2 25.9											
40.0			23.7										\dashv	
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* n *	10 87.0	4 77.0	2 67.0										_	
 ^^	67.0	77.0	07.0										\dashv	
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. m	40.0	40.0	40.0											
⋓ m/s	12.8 052	12.8 059	12.8 066										\dashv	
	00Z	000	JUU		_									$\overline{}$
		xx° S	, ⁻	W	11 _	~		25	II _			ĺ		
					Πŕ	110	_≡ 7			7				
		36m		24m		+		=		60°				
	_/\				/ _	ι	/	ι	3	00	 	L		



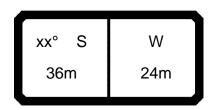
				ty	p1: D:	=28.0	mm						22.00
THE REPORT OF THE PERSON OF TH		m) > < t		CO	DE :	>063	31<			U18	1 1	125
m m	36.0	36.0	36.0										
12.0	177.0												
14.0 16.0	150.0 130.0												
18.0	114.0												
20.0	102.0												
22.0	92.0												
24.0 26.0	83.0 75.0	70.0 63.0											
28.0	67.0	58.0											
30.0		53.0											
32.0		48.0	40.0										
34.0 36.0		43.5	37.0 34.0										
38.0			31.5										
40.0			28.5										
	4.4												
* n *	11 87.0	4 77.0	3 67.0										
	07.0	77.0	07.0										
													+
-													+
o _{40													
■ m/s	12.8	12.8	12.8										
***	051	058	065										
					1								
		xx° S	3	W		\sim	<u> </u>	25		\			
		36m		24m		130	∥≝⁴		II (<i> </i>			
	_JL	20111			JĽ	t		t	<u>3</u>	60°	J		J
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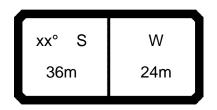
				ty	p1: D	=28.0	mm							22.00
H AFF	M	m	1 > < t		CO	=28.0 DE :	>063	30<				U18	1 1	1125
m	36.0	36.0	36.0											
12.0	194.0													
14.0 16.0	165.0 143.0													
18.0	126.0													
20.0	112.0													
22.0	101.0													
24.0 26.0	92.0 82.0	79.0 72.0												
28.0	74.0	65.0												
30.0	7 1.0	59.0												
32.0		54.0	46.5											
34.0		49.0	42.5											
36.0 38.0			39.0 36.0											
40.0			33.0											
* n *	10	-	2											
XX	12 87.0	5 77.0	3 67.0											
_	0.10		0.10											
0-40														
1 M	12.8	12.8	12.8											
⋓ m/s	050	057	064											
					\ _	I .						$\overline{}$	_	_
		xx° S	$_{\rm s}$ $ $	W	11,	<u>~</u>		25	II _					
				W 24m		150	∐ _≡ 7			7				
		36m		24m		t		_ =		60°				
					/	·	/ _			00	<u> </u>		<u> </u>	



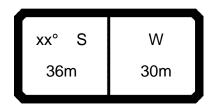
4 . 🔺	T A 4					=28.0 ı								22.00
THE STATE OF THE S		m	> < t		CO	DE :	>062	29<				U18	1 1	125
m M	36.0	36.0	36.0											
12.0	209.0													
14.0 16.0	177.0 154.0													
18.0	136.0													
20.0	121.0													
22.0	109.0													
24.0 26.0	98.0 88.0	86.0 78.0												
28.0	79.0	71.0												
30.0		64.0												
32.0		59.0	51.0											
34.0 36.0		53.0	47.0 43.5											
38.0			40.0											
40.0			36.5											
* n *	13	5	3											
	87.0	77.0	67.0											
_														
_														
0-40														
	10.0	10.0	10.0											
⋓ m/s	12.8 049	12.8 056	12.8 063											
					\ _							$\overline{}$		$\overline{}$
		xx° S	3	W		<u>^</u>		65	II _					
						150	≣7			7				
		36m		24m		t		t =	3	60°				
					_	-					<u> </u>		_	



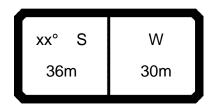
				typ	o1: D=	=28.0	mm							22.00
→ APP		m	ı > < t		CO	DE :	>062	28<				U18	31 1 ⁻	125
m m	36.0	36.0	36.0											
12.0 14.0	226.0 192.0													
16.0	167.0													
18.0 20.0	147.0 131.0													
22.0	119.0													
24.0	107.0	94.0												
26.0 28.0	95.0 86.0	86.0 78.0												
30.0		70.0												
32.0 34.0		64.0 59.0	57.0 52.0											
36.0			48.5											
38.0 40.0			44.5 41.0											
			41.0											
* n *	14	6	4											
xx	87.0	77.0	67.0											
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0-40														
m/s	12.8	12.8	12.8											
***	048	055	062											
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		36m		24m		t		- - =	3	60°				
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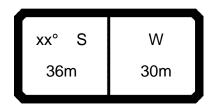
				ty	p1: D:	=28.0	mm							22.00
m m		m	> < t			DE :		27<				U18	1 1	125
	36.0	36.0	36.0											
12.0	242.0													
14.0 16.0	207.0 180.0													
18.0	159.0													
20.0	142.0													
22.0	128.0	100.0												
24.0 26.0	115.0 103.0	103.0 93.0												
28.0	92.0	84.0												
30.0		77.0												
32.0		70.0	63.0											
34.0 36.0		64.0	58.0 53.0											
38.0			49.5											
40.0			45.5											
* n *	15	6	4											
XX	87.0	77.0	67.0											
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m/s	12.8	12.8	12.8											
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		xx° S	3	W		<u> </u>	11_7	65		\				
		36m		24m		190 t	║≝		3	60°				
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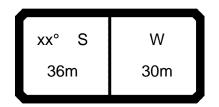
				ty	p1: D	=28.0	mm						22.00
H AFF		m	1 > < t		CO	=28.0 DE :	>064	40<			U18	1 1	126
m m	36.0	36.0	36.0										
14.0	123.0												
16.0 18.0	107.0 94.0												
20.0	83.0												
22.0	74.0												
24.0	67.0												
26.0	61.0	49.0											
28.0 30.0	55.0 51.0	44.5 40.5											
32.0	46.5	37.0											
34.0	42.0	34.0											
36.0		31.0	23.1										
38.0		28.6	21.0										
40.0 44.0		26.4	19.1 15.9										
44.0			15.9										
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XX	87.0	77.0	67.0										
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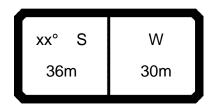
				ty	p1: D	=28.0	mm						22.00
THE REPORT OF THE PERSON OF TH		m	> < t		CO	=28.0 DE :	>063	39<			U18	1 1	1126
m m	36.0	36.0	36.0										
14.0	129.0												
16.0 18.0	112.0 98.0												
20.0	87.0												
22.0	78.0												
24.0	71.0												
26.0	64.0	52.0											
28.0 30.0	59.0 54.0	47.5 43.0											
32.0	49.0	39.5											
34.0	44.5	36.5											
36.0		33.5	25.5										
38.0		31.0	23.3										
40.0 44.0		28.6	21.3 17.9										
14.0			17.9										
* n *	8 87.0	3 77.0	2 67.0										
^^ —	67.0	77.0	07.0										
_													
0.40													
9													
■ m/s	12.8 052	12.8	12.8										
	002	059	066										
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	_/\				JL	t		t	3	6U°		<u> </u>	



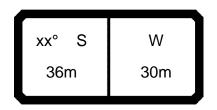
				ty	p1: D	=28.0	mm						22.00
THE REPORT OF THE PERSON OF TH	MM	m	ı > < t		CO	=28.0 DE :	>06	38<			U18	31 1	1126
m	36.0	36.0	36.0										
14.0	144.0												
16.0 18.0	125.0 109.0												
20.0	97.0												
22.0	87.0												
24.0	79.0												
26.0 28.0	72.0 66.0	60.0 55.0											
30.0	60.0	50.0											
32.0	55.0	46.0											
34.0	50.0	42.5											
36.0		39.5	31.0										
38.0 40.0		36.0 33.0	28.7 26.5										
44.0		33.0	22.7										_
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* n *	9 87.0	4 77.0	2 67.0										
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		xx° S		W 30m		130	∐ ₌7			つ			
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	_/\				JL	τ		τ	3	งบ ^ร		lue	



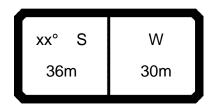
				typ	1: D=	=28.0 ı	mm						22.00
₩ E	MM	m	ı > < t	(CO	DE :	>063	37<			U18	1 1	126
M m	36.0	36.0	36.0										
14.0	158.0												
16.0 18.0	137.0 121.0												
20.0	108.0												
22.0	97.0												
24.0	88.0												
26.0 28.0	80.0 73.0	68.0 62.0											
30.0	66.0	57.0											
32.0	60.0	52.0											
34.0	55.0	48.5											
36.0 38.0		44.5	37.0										
40.0		41.0 37.5	34.0 31.5										
44.0		07.0	27.0										
* n *	10	4	3										
xx	87.0	77.0	67.0										
_													
o -∮o													
I m/s	12.8	12.8	12.8										
***	050	057	064										
						_		0.5					
		xx° S	3	W 30m			[]	25		\			
		36m		30m		150	Ⅱ탈			<i>\</i>			
		20111				t	JL	t	3	60°	J		J
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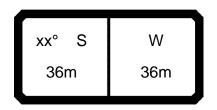
				ty	p1: D	=28.0	mm						22.00
THE REPORT OF THE PERSON OF TH	MM	m	ı > < t		CO	=28.0 DE :	>063	36<			U18	1 1	126
m	36.0	36.0	36.0										
14.0	170.0												
16.0 18.0	148.0 130.0												
20.0	116.0												
22.0	104.0												
24.0	95.0												
26.0	87.0	74.0											
28.0	79.0	68.0											
30.0 32.0	71.0 65.0	63.0 57.0											
34.0	60.0	53.0											
36.0	00.0	48.5	42.0										
38.0		44.5	38.5										
40.0		41.0	35.5										
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xx	87.0	77.0	67.0										
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w m/s	049	056	063										
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				W 30m	Hf	150	₌ 7			7			
		36m		30m		130	IJ≝	=		<i>,</i>			
	_/\				JL	t	/ _	t	$\frac{3}{2}$	60°		<u> </u>	



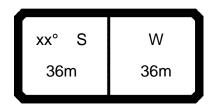
				ty	p1: D	=28.0	mm							22.00
→		m	ı > < t		CO	DE :	>06	35<				U18	1 1 ⁻	126
m M	36.0	36.0	36.0											
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18.0	160.0 141.0													
20.0	126.0 114.0													
24.0	103.0													
26.0 28.0	95.0 85.0	82.0 75.0												
30.0	78.0	69.0												
32.0	71.0	63.0												
34.0 36.0	65.0	58.0 53.0	47.0											
38.0		49.5	43.5											
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xx	87.0	77.0	67.0											
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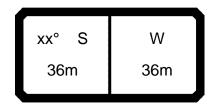
				ty	p1: D	=28.0	mm							22.00
H AFF		m	1 > < t		CO	=28.0 DE :	>063	34<				U18	1 1	126
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16.0 18.0	173.0 153.0													
20.0	136.0													
22.0	123.0													
24.0	112.0													
26.0 28.0	102.0	90.0												
30.0	92.0 84.0	83.0 75.0												
32.0	77.0	69.0												
34.0	70.0	63.0												
36.0		58.0	52.0											
38.0 40.0		54.0	48.0											
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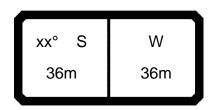
				ty	o1: D	=28.0 r	mm						22.00
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22.0	71.0												
24.0	64.0												
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30.0	48.5	38.0											
32.0	45.0	35.0											
34.0 36.0	41.5 38.0	32.0 29.2											
38.0	35.5	26.8											
40.0	32.5	24.7	17.3										
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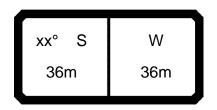
		typ1: D=28.0 mm CODE >0646<										22.00					
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26.0	62.0																
28.0 30.0	56.0 52.0	45.0 41.0															
32.0	47.5	37.5												+			
34.0	44.0	34.5															
36.0	40.5	31.5															
38.0	37.5	29.1															
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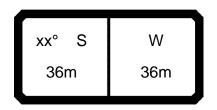
	typ1: D=28.0 mm												22.00				
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28.0	64.0	52.0															
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34.0	50.0	40.5															
36.0 38.0	45.5 42.0	37.5 34.5															
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34.0	55.0	46.5												
36.0	51.0	43.0												
38.0 40.0	47.0 43.0	40.0 37.0	29.7											
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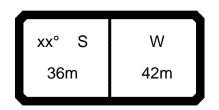
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32.0	65.0	55.0												
34.0	60.0	51.0												
36.0	55.0	47.5												
38.0	51.0	44.0												
40.0 44.0	47.0	41.0 35.0	34.0 29.4											
48.0		33.0	25.3											
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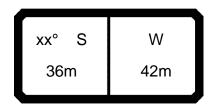
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24.0	100.0													
26.0	91.0													
28.0 30.0	84.0 77.0	73.0												
32.0	71.0	67.0 62.0												
34.0	65.0	57.0												
36.0	60.0	53.0												
38.0	55.0	49.0												
40.0	51.0	45.0	39.0											
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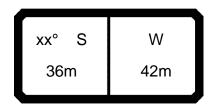
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34.0 36.0	70.0 65.0	63.0 58.0												
38.0	60.0	54.0												
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44.0		43.0	37.5											
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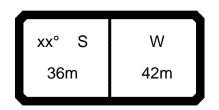
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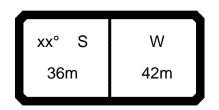
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30.0	50.0 46.0	39.5 36.0														
34.0	42.5	33.0														
36.0	39.5	30.5														
38.0 40.0	36.5 34.0	28.0 25.8														
44.0	29.5	22.0	15.1													
48.0		18.9	12.5													
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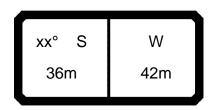
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28.0	62.0													
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34.0	48.5	39.0												
36.0	45.0	36.0												
38.0	42.0	33.5												
40.0 44.0	39.0 33.5	31.0 26.7	19.8											
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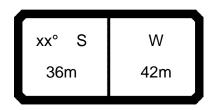
typ1: D=28.0 mm CODE >0651<	J181	1128
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18.0 113.0		
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22.0 91.0 24.0 82.0		
26.0 75.0		
28.0 69.0		
30.0 64.0 53.0		
32.0 59.0 48.5		
34.0 55.0 45.0		
36.0 51.0 41.5 38.0 47.0 38.5		
40.0 43.5 36.0		
44.0 37.5 31.5 24.4		
48.0 27.5 21.0		
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n 7 3 2		
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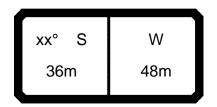
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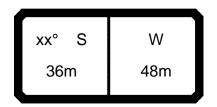
					ty	p1: D	=28.0	mm						22.00
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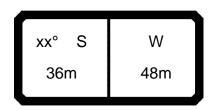
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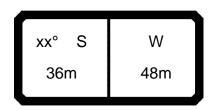
				ty	p1: D	=28.0	mm						22.00
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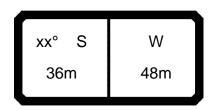
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44.0	27.2	19.5											
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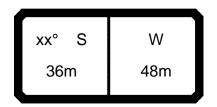
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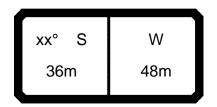
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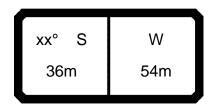
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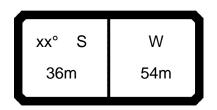
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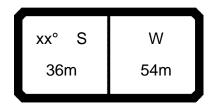
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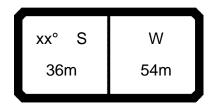
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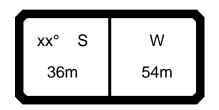
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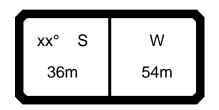
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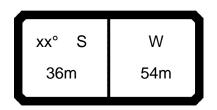
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36.0	46.5	37.0													
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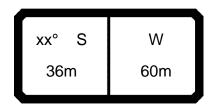
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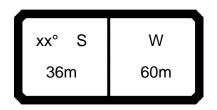
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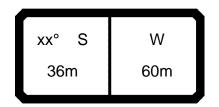
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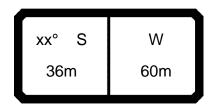
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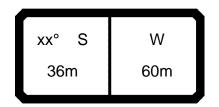
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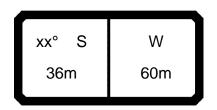
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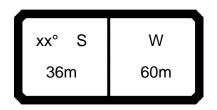
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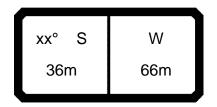
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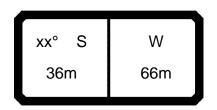
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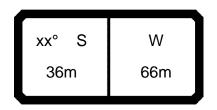
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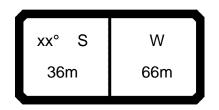
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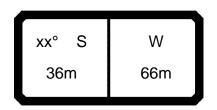
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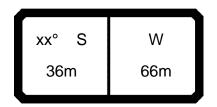
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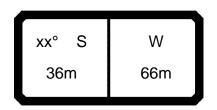
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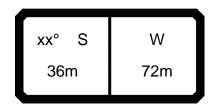
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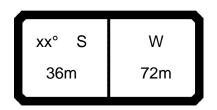
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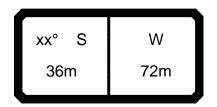
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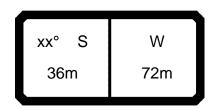
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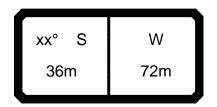
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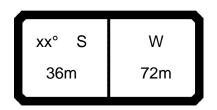
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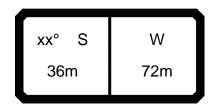
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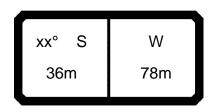
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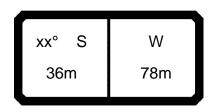
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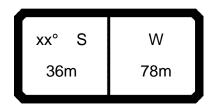
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68.0	21.0	15.5	10.4												
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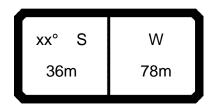
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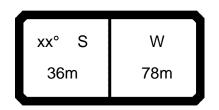
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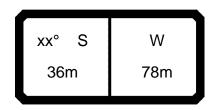
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44.0	24.0													
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52.0	17.2	10.4												
56.0 60.0	14.5 12.1	8.1 6.1												
64.0	10.1	4.3												
68.0	8.3	4.5											-	
72.0	6.7													
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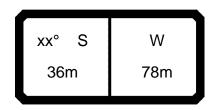
				ty	p1: D	=28.0 r	mm							2	2.00
	MM	m	1 > < t		CO	DE >	>069	93<				U18	1	11	34
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26.0	60.0														
28.0 30.0	55.0 50.0														
32.0	46.0														
34.0	42.0														
36.0	39.0														
38.0	36.0														
40.0	33.0														
44.0 48.0	28.4 24.4	17.1													
52.0	21.0	14.1													
56.0	18.0	11.6													
60.0	15.4	9.4													
64.0	13.2	7.4													
68.0	11.2	5.7													
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o _{40															
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		xx° S	s	W			11 _	25		~					
		36m		W 78m		150	IJijŹ)					
		36M		/8M		t		t =	.3	60°					
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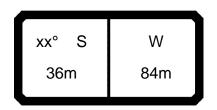
				ty	p1: D	=28.0 r	mm							2	2.00
	M	m	1 > < t		CO	DE >	>069	92<				U18	1	11	34
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32.0	51.0														
34.0	47.0														
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44.0	32.0													+	
48.0	27.8	20.4													
52.0	24.1	17.2													
56.0	20.9	14.5													
60.0 64.0	18.2 15.8	12.1 10.0													
68.0	13.7	8.2													
72.0	11.8	6.5													
76.0	10.2	5.1													
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m/s	12.8	12.8	12.8												
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		36m		W 78m		150	≡7)					
		Jom		i QIU		t		t -	3	60°					
					_						<u> </u>		<u> </u>		



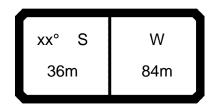
				ty	p1: D	=28.0	mm						22	2.00
H AFF		m	1 > < t		CO	DE :	>069	91<			U18	1	11:	34
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56.0	24.5	18.0												
60.0	21.5	15.4												
64.0	18.9	13.1	7.8											
68.0	16.6	11.1	6.0											
72.0	14.6	9.3	4.5											
76.0	12.9	7.7												
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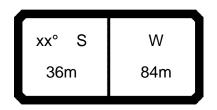
				ty	p1: D:	=28.0 r	mm							2	2.00
	MM	m	ı > < t		CO	DE >	>069	>06				U18	1	11	34
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28.0 30.0	73.0 67.0														
32.0	62.0														
34.0	58.0														
36.0	54.0														
38.0 40.0	50.0 46.5														
44.0	41.0														
48.0	36.0	28.5													
52.0	31.5	24.7													
56.0	28.0	21.5													
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68.0	19.6	14.0	9.0												
72.0	17.5	12.1	7.2												
76.0	15.6	10.4	5.7												
80.0 84.0	13.8	8.9	4.4												
88.0		7.6 6.5													
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xx	87.0	77.0	67.0												
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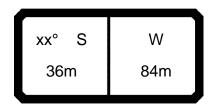
				ty	p1: D	=28.0 ı	mm							2	2.00
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		Jom		04111		t		t -	3	60°					
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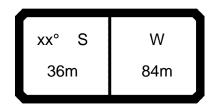
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44.0	17.6													
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		36m		84m		110		· -=	Ž	60°				
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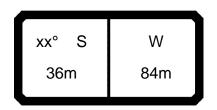
				ty	p1: D	=28.0	mm							2	22.00
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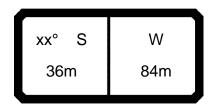
				ty	p1: D	=28.0	mm							2	22.00
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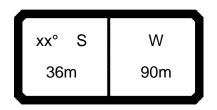
				ty	p1: D	=28.0 r	mm							2	22.00
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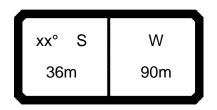
				ty	p1: D	=28.0	mm						22.00
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44.0	39.5												
48.0	29.7	22.2											
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76.0	10.9	5.8											
80.0 84.0	9.3	4.4											
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⋓ m/s	12.8	12.8	12.8										
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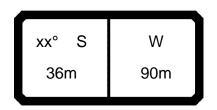
				ty	p1: D	=28.0	mm						2	22.00
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40.0	44.5													
44.0	38.5													
48.0	33.5	26.2												
52.0	29.5	22.5												
56.0	25.9	19.4												
60.0 64.0	22.8 20.0	16.6 14.2												
68.0	17.6	12.0	6.9											
72.0	15.5	10.1	5.2											
76.0	13.5	8.4	0.2											
80.0	11.9	6.9												
84.0	10.4	5.5												
88.0	9.2	4.3												
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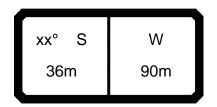
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28.0 35.5 30.0 32.0 28.7 34.0 25.9 36.0 23.3 38.0 21.0 40.0 18.9 44.0 15.2 48.0 12.1 52.0 94.5 50.0 7.1 60.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	₩ APP		m >	< t	COI	DE :	>07′	10<			U18	1 1	136
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320 287 340 259 360 233 38.0 210 400 16.9 44.0 16.2 52.0 9.4 56.0 7.1 60.0 5.0 **n* 2 1 xx 87.0 77.0 **m* 12.8 12.8 *** 87.0 77.0													
36.0 23.3 38.0 21.0 40.0 18.9 44.0 15.2 48.0 12.1 52.0 9.4 56.0 7.1 60.0 5.0 **n* 2 1 **x* 87.0 77.0	32.0	28.7											
38.0 21.0 40.0 18.9 44.0 15.2 48.0 12.1 52.0 9.4 56.0 7.1 60.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0													
44.0 15.2 48.0 12.1 52.0 9.4 56.0 7.1 60.0 5.0	38.0	21.0											
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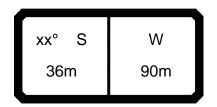
				typ1: D	=28.0	mm						22.00
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34.0	28.1											
36.0	25.5											
38.0 40.0	23.0 20.8											
44.0	17.0											
48.0	13.7											
52.0 56.0	10.9 8.5											
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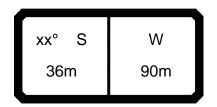
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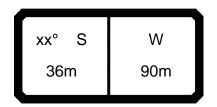
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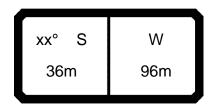
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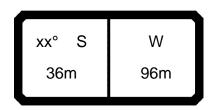
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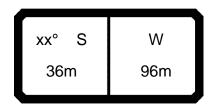
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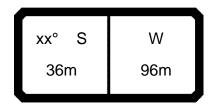
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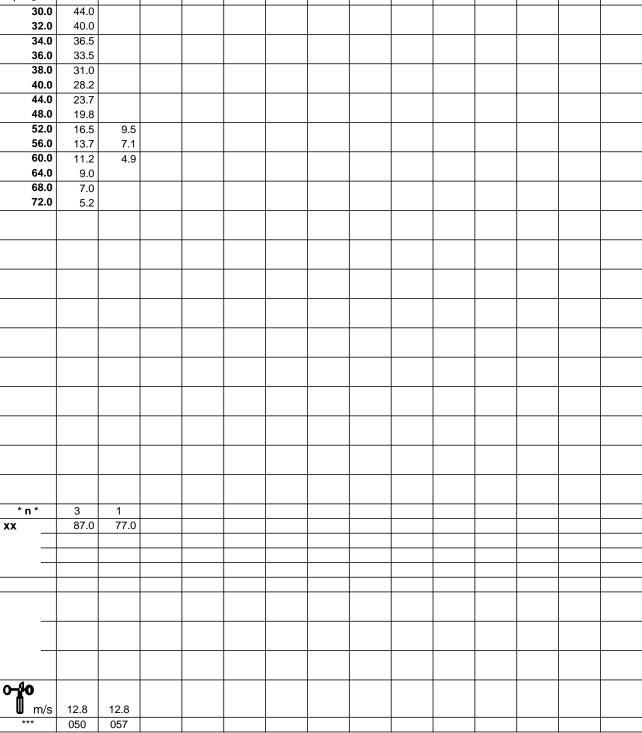
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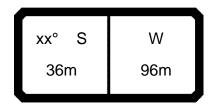
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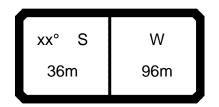
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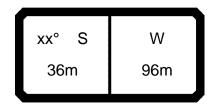




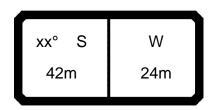
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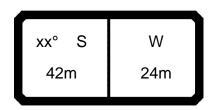
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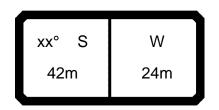
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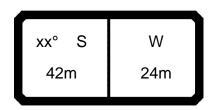
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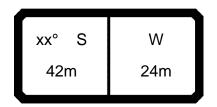
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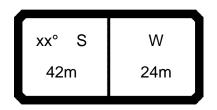
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H AF		m	ı > < t		CO	DE :	>072	22<			U18	31	12	225
m m	42.0	42.0	42.0											
14.0	143.0													
16.0 18.0	124.0 110.0													
20.0	98.0													
22.0 24.0	88.0 80.0	64.0												
26.0	73.0	58.0												
28.0 30.0	67.0	53.0												
32.0		49.0 45.0												
34.0		41.5												
36.0 38.0		38.5	29.1 26.8											
40.0			24.6											
													1	
* n *	9	4	2											
	87.0	77.0	67.0											
0-40														
M	12.8	12.8	12.8											
⋓ m/s	051	058	065											
					7	_	1			7	$\overline{}$	_		$\overline{}$
		xx° S	3	W 24m			II_ -	25		\				
		42m		24m		130	IJ≌⁴			1				
	_/\					t		t	3	60°		L		



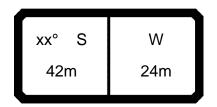
				ty	p1: D:	=28.0	mm						2	22.00
→ APP		m	ı > < t		CO	DE :	>072	21<			U18	31	12	225
₹ E	42.0	42.0	42.0											
14.0 16.0	158.0 137.0													
18.0	121.0													
20.0	108.0													
22.0 24.0	97.0 88.0	73.0												
26.0	81.0	66.0												
28.0	73.0	61.0												
30.0 32.0		56.0 51.0												
34.0		47.5												
36.0 38.0		43.5	35.0											
40.0			32.5 29.9											
* *	40		0											
* n *	10 87.0	5 77.0	2 67.0											
_														
													+	
													-	
o _{0													\dashv	
m/s	12.8	12.8	12.8											
***	050	057	064										+	
					1	_				7				$\overline{}$
		xx° S	3	W			11	25		\				
		42m		24m		150	Ⅱ≝		II٤	1				
	_/L					t		t	3	60°		L		



				ty	p1: D	=28.0 ı	mm						2	2.00
THE REPORT OF THE PERSON OF TH		m	> < t		CO	DE >	>072	20<			U18	1	12	25
m M	42.0	42.0	42.0											
14.0	170.0													
16.0 18.0	148.0 130.0												+	
20.0 22.0	116.0													
24.0	105.0 96.0	80.0												
26.0	87.0	73.0												
28.0 30.0	79.0	67.0 62.0												
32.0		57.0												
34.0 36.0		52.0 47.5	39.5											
38.0			37.0											
40.0			34.0											
													-	
* n *	11 87.0	5 77.0	3 67.0										-	
	07.0	77.0	07.0											
_														
													T	
													\dashv	
_													\dashv	
o _fo														
⋓ m/s	12.8 049	12.8 056	12.8 063											
	049	000	003		\ _									$\overline{}$
		xx° S	3	W			11 _	65	_	_				
		xx° S		W 24m		150	IJ <u>₽</u>		()				
	_/[JĽ	t		t	3	60°				

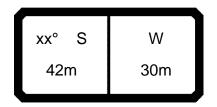


				ty	p1: D	=28.0	mm						22	.00
→	MM	m	ı > < t		CO	DE	>07°	19<			U18	1	122	25
m m	42.0	42.0	42.0											
14.0	184.0													
16.0 18.0	160.0 142.0													
20.0	127.0													
22.0	114.0													
24.0	104.0	89.0												
26.0 28.0	95.0 86.0	81.0 74.0												
30.0	86.0	68.0												
32.0		63.0												
34.0		57.0												
36.0		52.0	45.5											
38.0 40.0			42.0 38.5											
40.0			30.5											
* n *	11	6	3											
xx	87.0	77.0	67.0											
_														
-														
o _{10														
m/s	12.8	12.8	12.8											
***	048	055	062											
					7	_	1							7
		xx° S	3	W			· []] -	65		\				
		42m		24m		170	ĬĬ₽		11 ()				
	_JL				JĽ	t		t	<u>3</u>	60°	J			
_					_						 	_		



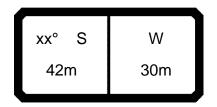
typ1: D=28.0 mm

typ1: D=28.0 mm 22.00					ty	p1: D	=28.0	mm						2	2.00
16.0 173.0	THE REPORT OF THE PERSON OF TH		m) > < t		CO	DE :	>07	18<			U18	1	12	25
16.0 173.0	M m m	42.0	42.0	42.0											
18.0 153.0 20.0 137.0 22.0 124.0 24.0 113.0 97.0 22.0 124.0 26.0 102.0 89.0 28.0 92.0 82.0 30.0 75.0 32.0 68.0 34.0 63.0 46.5 40.0 43.0 43.0 44.0 43.0 44.0 43.0 44.0 43.0 44.0 43.0 44.	1														
200 137.0 22.0 124.0 24.0 13.0 37.0 26.0 102.0 89.0 22.0 92.0 82.0 30.0 75.0 32.0 68.0 34.0 63.0 36.0 57.0 50.0 38.0 46.5 40.0 43.0															
24.0 113.0 97.0															
28.0 92.0 82.0 82.0 30.0 75.0 32.0 68.0 33.0 68.0 46.5 40.0 43.0 40.0 40.0 40.0 40.0 40.0 40.0															
28.0 92.0 82.0 30.0 75.0 68.0 32.0 68.0 34.0 65.0 34.0 65.0 38.0 46.5 43.0 40.0 43.0 43.0 43.0 43.0 43.0 43.0															
30.0 75.0 32.0 68.0 34.0 63.0 34.0 63.0 38.0 44.5 43.0 44.5 44															
32.0 68.0 34.0 63.0 38.0 46.5 43.0 40.0 43.0 43.0 43.0 43.0 43.0 43.0		92.0													
36.0 57.0 50.0 38.0 46.5 40.0 43.0 40.0 43.0 40.0 43.0 40.0 43.0 40.0 43.0 40.0 43.0 40.0 43.0 40.0 43.0 40.0 43.0 40.0 43.0 40.0 43	32.0														
38.0 46.5 43.0 43.0 43.0 43.0 43.0 43.0 43.0 43.0															
40.0 43.0 43.0 43.0 43.0 43.0 43.0 43.0			57.0												
n 12 6 3 xx 87.0 77.0 67.0 m/s 12.8 12.8 12.8 xx 047 054 061															
*** 047 054 061				10.70											
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*** 047 054 061															
*** 047 054 061															
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*** 047 054 061															
*** 047 054 061															
*** 047 054 061															
*** 047 054 061	* n *	12	6	3											
m/s 12.8 12.8 12.8	хх			67.0											
m/s 12.8 12.8 12.8	_														
m/s 12.8 12.8 12.8	_														
m/s 12.8 12.8 12.8														$\neg \dagger$	
m/s 12.8 12.8 12.8															
m/s 12.8 12.8 12.8	_													\dashv	
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m/s 12.8 12.8 12.8															
*** 047 054 061	o -∦o														
xx° S W 65															
$\begin{bmatrix} xx^{\circ} & S & W \\ 42m & 24m \end{bmatrix} \begin{bmatrix} 65 \\ 190 \\ t \end{bmatrix} \begin{bmatrix} 65 \\ 190 \end{bmatrix} \begin{bmatrix} 65 \\ 360^{\circ} \end{bmatrix}$	***	047	054	061											
xx° S W 42m 24m 190 t 190 t 360°						ገՐ	Д	$) \cap$	GE.				\cap		
42m 24m t 360°			xx° S	5	W		466	[]	00		\				
			42m		24m		190	IJ≌⁴		II۷	1				
		_/L				JL	t		t	3	60°		L		

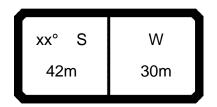


				ty	p1: D:	=28.0	mm							2	2.00
₩ AFF		m) > < t		CO	DE :	>07	31<				U18	1	12	26
₹ m	42.0	42.0	42.0												
14.0	117.0														
16.0 18.0	102.0 89.0													+	
20.0	79.0														
22.0	71.0														
24.0 26.0	64.0 58.0													_	
28.0	53.0	40.0													
30.0	48.5	36.0													
32.0 34.0	45.0 41.5	33.0												+	
36.0	41.5	30.0 27.6													
38.0		25.4	16.4											+	
40.0 44.0		23.3	14.8											_	
44.0			11.9 9.4												

														_	
														+	
														_	
														_	
														+	
* n *	7	3	1											+	
XX	87.0	77.0	67.0												
_														+	
														+	
_														+	
														\top	
0-40														+	
	12.8	12.8	12.8												
⋓ m/s	053	060	067											+	
					7	1						$\overline{}$			$\overline{}$
		xx° S	3	W		<u>^</u>	11 _	5		~					
		42m		30m		110	 		(
l		74111		JUIII	JĽ	t		t	3	60°	Il		l		
					_ —		_						_		

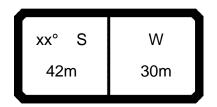


				ty	p1: D:	=28.0	mm							2	2.00
₩ AFF		m) > < t		CO	DE :	>073	30<				U18	1	12	26
₽ _m	42.0	42.0	42.0												
14.0	123.0														
16.0 18.0	107.0 94.0													+	
20.0	83.0														
22.0	75.0														
24.0 26.0	68.0 61.0													+	
28.0	56.0	43.0													
30.0	51.0	39.0													
32.0 34.0	47.5 44.0	35.5												_	
36.0	44.0	32.5 30.0													
38.0		27.6	18.7												
40.0		25.5	16.9											_	
44.0 48.0			13.8 11.2												
														\top	
														_	
														\top	
														+	
														_	
														+	
* n *	8	3	2											+	
XX	87.0	77.0	67.0											+	
														1	
_														\dashv	
														+	
_														+	
														\top	
0-40														\dashv	
		400	40.0												
⋓ m/s	12.8 052	12.8 059	12.8 066											+	
			1		7	I.									$\overline{}$
		xx° S	3	W		<u>^</u>		25	II ,	_					
		42m		30m		110	∏ ≣7								
l		4ZIII		30111]["	t		t -	3	60°					
					_		_				_		_		

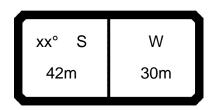


typ1: D=28.0 mm

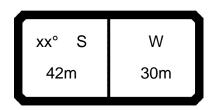
				ty	p1: D	=28.0	mm						2	22.00
H AFF		m	1 > < t		CO	=28.0 DE :	>072	29<			U18	31	12	226
m 14.0	42.0	42.0	42.0											
_														
16.0 18.0	119.0 105.0													
20.0	93.0													
22.0	84.0													
24.0	76.0													
26.0 28.0	69.0 63.0	50.0												
30.0	58.0	46.0												
32.0	54.0	42.0												
34.0	49.5	38.5												
36.0 38.0		35.5	24.4											
40.0		33.0 30.5	24.1 22.0											
44.0		00.0	18.5											
48.0			15.6											
* n *	8	3	2											
XX	87.0	77.0	67.0											
													_	
													\dashv	
0-40													+	
m/s	12.8	12.8	12.8											
***	051	058	065										+	
					7/	ı						_		$\overline{}$
		xx° S	$_{\rm S}$ $ $	W				25	II _					
				W 30m		130	11 ≣7			7				
		42m		30m		t		, =	3	60°				
	_/\					•	_			<u> </u>	 	<u>_</u>		



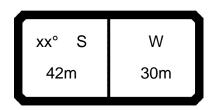
				ty	p1: D	=28.0	mm						2	22.00
THE REPORT OF THE PERSON OF TH		m	> < t		CO	=28.0 DE :	>072	28<			U18	31	12	226
m 14.0	42.0	42.0	42.0											
1														
16.0 18.0	131.0 116.0													
20.0	103.0													
22.0	93.0													
24.0	84.0													
26.0 28.0	77.0 71.0	57.0												
30.0	65.0	53.0												
32.0	60.0	48.5												
34.0	55.0	44.5												
36.0 38.0		41.5 38.5	29.4											
40.0		36.0	27.2											
44.0			23.2											
48.0			20.0											
* n *	9	4	2											
хх	87.0	77.0	67.0											
													_	
_														
													+	
													_	
o _fo														
⋓ m/s	12.8	12.8	12.8											
***	050	057	064		<u> </u>							_		
				147	7	<u>ب</u>	חר	25						
		xx° S	•	VV		150	11=7			7				
		42m		W 30m		150	≡	=	II٦					
	_/[JL	t		t	$\frac{3}{2}$	60°				



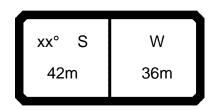
				ty	p1: D	=28.0	mm						2	2.00
THE REPORT OF THE PERSON OF TH	MM	m	1 > < t		CO	DE :	>072	27<			U18	31	12	26
m 14.0	42.0	42.0	42.0											
_														
16.0 18.0	141.0 125.0													
20.0	112.0													
22.0	101.0													
24.0	91.0													
26.0 28.0	84.0 77.0	63.0												
30.0	71.0	58.0											-	
32.0	65.0	54.0												
34.0	59.0	49.5												
36.0		46.0	0.4.0											
38.0 40.0		43.0 40.0	34.0 31.5											
44.0		40.0	27.2											
48.0			23.5											
* * *	10	4	2											
* n *	10 87.0	4 77.0	2 67.0											
_	0.10		0.10											
													_	
													\dashv	
0-10													\dashv	
ı m	100	100	10.0											
⋓ m/s	12.8 049	12.8 056	12.8 063										\dashv	
		000			\ _	l								$\overline{}$
		xx° S	$_{s}$ \mid $$	\//		~		65	I I _					
				W 30m	Πf	150	∐ ≡7			7				
		42m		30m		t		_=		60°				
	_/\				/ _	·	/ _	١	3	00		<u>_</u>		



				ty	p1: D	=28.0	mm							22.	00
H A A A A A A A A A A A A A A A A A A A		m	ı > < t			DE :		26<				U18	1	122	6
₽ _m m	42.0	42.0	42.0												
14.0	176.0														
16.0 18.0	154.0 136.0														
20.0	122.0														
22.0 24.0	110.0 100.0														
26.0	91.0														
28.0	84.0	71.0													
30.0 32.0	77.0 71.0	65.0 60.0													
34.0	65.0	56.0													
36.0		52.0													
38.0 40.0		48.0 44.5	39.5 36.5												
44.0		11.0	32.0												
48.0			27.4												
* n *	11 87.0	5 77.0	3 67.0												
	07.0	11.0	07.0												
- 1-															
0-40	400	400	40.0												
⋓ m/s	12.8 048	12.8 055	12.8 062												
		300	1		7	I						$\overline{}$			<u> </u>
		xx° S	s	W				65	II ,	<u> </u>					
		42m		30m		170	 <u>₽</u>		(
l		74111		JUITI	JĽ	t	JĹ	t	3	60°	Il	J	l		J
													_		

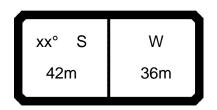


				ty	p1: D	=28.0	mm							22	2.00
₩ APP		m	> < t		CO	DE :	>072	25<				U18	1	12	26
m l	42.0	42.0	42.0												
14.0	190.0														
16.0 18.0	166.0 147.0													+	
20.0	132.0														
22.0	119.0														
24.0 26.0	108.0 99.0													+	
28.0	91.0	78.0													
30.0	84.0	72.0													
32.0 34.0	76.0 70.0	66.0 62.0												+	
36.0		57.0													
38.0 40.0		53.0 48.5	44.5 41.5												
44.0		46.5	36.0											+	
48.0			31.0												
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* n *	12	5	3												
	87.0	77.0	67.0											_	
														-	
														+	
-														+	
o _fo															
⋓ m/s	12.8	12.8	12.8											\perp	
***	047	054	061		_								_	<u> </u>	
		xx° S		W	7	<u>~</u>	חר	65				1)
			,			190	≡7			ا (
		42m		30m		t		t =	3	60°					
						•	/	•			<u> </u>		<u> </u>		

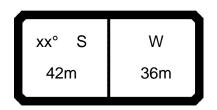


typ1: D=28.0 mm

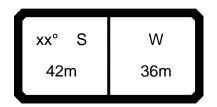
				<u>')</u>										2.00
A Park	MM	m	> < t		CO	=28.0 DE	>073	38<			U18	31	12	27
m	42.0	42.0	42.0											
16.0	98.0													
18.0 20.0	86.0 76.0													
22.0	68.0													
24.0	62.0													
26.0	56.0													
28.0	51.0	0.4.0												
30.0 32.0	46.5 43.0	34.0 31.0												
34.0	39.5	28.3												
36.0	36.5	25.8												
38.0	34.0	23.6												
40.0	31.5	21.6												
44.0 48.0		18.2	10.2											
52.0		15.4	7.9 5.9											
02.0			0.0											
* n *	6	2	1											
xx	87.0	77.0	67.0											
													+	
													\dashv	
0.00													+	
0-40														
⋓ m/s	12.8	12.8	12.8										\dashv	
	053	060	067								<u> </u>		\perp	ightharpoons
ſ		0		۱۸/	7	<u>~</u>	ור	5			1	ſ		
		xx° S	'	۷V		110	 _7			7				
		42m		W 36m		110			II٦	60°				
	_/L				JL	t		t	3	60°		L		



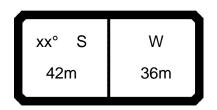
typ1: D=28.0 mm CODE >0737< U 16.0 103.0	181	1227
m 42.0 42.0 42.0		
18.0 90.0 20.0 80.0		
22.0 72.0 72.0		
24.0 65.0		
26.0 59.0		
28.0 54.0		
30.0 49.5 37.0 32.0 45.5 33.5		
32.0 45.5 33.5 34.0 42.0 30.5		
36.0 39.0 28.2		
38.0 36.0 25.8		
40.0 33.5 23.7		
44.0 20.1 12.1		
48.0 17.2 9.7 52.0 7.6		
7.0		
n 6 3 1		
xx 87.0 77.0 67.0		
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₩ m/s 12.8 12.8 12.8		
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xx° S W 25 110 25 25 25 25 2000		
42m 36m t 360°	ノし	



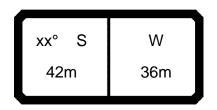
				ty	p1: D	=28.0 r	mm							2	2.00
H AFF		m	ı > < t		CO	DE >	>073	36<				U18	1	12	27
m m	42.0	42.0	42.0												
16.0	115.0														
18.0 20.0	101.0 90.0														
22.0	81.0														
24.0	73.0														
26.0 28.0	67.0 61.0														
30.0	56.0	43.5													
32.0	52.0	40.0													
34.0 36.0	48.0	36.5													
38.0	44.5 41.5	34.0 31.0													
40.0	38.5	28.8													
44.0		24.8	16.7												
48.0 52.0		21.6	13.9 11.6												
02.0			11.0												
* n *	7	3	1												
XX	87.0	77.0	67.0												
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0-40														-	
- m	10.0	100	100												
⋓ m/s	12.8 051	12.8 058	12.8 065												
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		xx° S		W 36m		130	≢7								
		42111		30111]["	t		t -]	3	60°					
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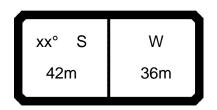
				ty	p1: D	=28.0	mm							2	2.00
H AFF		m	ı > < t		CO	=28.0 DE :	>073	35<				U18	31	12	27
m 16.0	42.0	42.0	42.0												
18.0 20.0	112.0 100.0														
22.0	90.0														
24.0	81.0														
26.0	74.0														
28.0	68.0														
30.0	63.0	50.0													
32.0 34.0	58.0 54.0	46.0 42.5													
36.0	50.0	39.5												-	
38.0	46.5	36.5													
40.0	43.0	34.0													
44.0		29.5	21.4												
48.0		26.0	18.2												
52.0			15.6												
* n *	8	3	2												
xx	87.0	77.0	67.0												
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- 10														+	
o _fo															
U m/s	12.8	12.8	12.8												
***	050	057	064		<u> </u>										
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		xx° S	3	W		$\overline{}$	11	25		\					
		42m		W 36m		150	IJ≌⁴		II٤	<i> </i>					
				55	JĽ	t		t	<u>3</u>	60°	Il	J	l		
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				ty	p1: D	=28.0	mm							22.00
→	MM	m	> < t		CO	DE :	>073	34<				U18	31 1	1227
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16.0	136.0													
18.0	121.0													
20.0 22.0	108.0 97.0													
24.0	88.0													
26.0	81.0													
28.0	74.0													
30.0	68.0	56.0												
32.0	63.0	51.0												
34.0 36.0	59.0 55.0	47.5 44.0												
38.0	50.0	41.0												
40.0	46.5	38.0												
44.0		33.5	25.2											
48.0		29.1	21.8											
52.0			18.9											
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хх	87.0	77.0	67.0											
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o _10														+
m/s	12.8	12.8	12.8											
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		42m		36m				▔█	II 🕺	60°				
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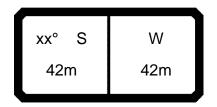


				ty	p1: D	=28.0	mm							22	.00
H AFF		m	ı > < t		CO	=28.0 DE :	>073	33<				U18	1	122	27
m 16.0	42.0	42.0	42.0												
18.0 20.0	131.0 118.0														
22.0	106.0														
24.0	97.0														
26.0	88.0														
28.0	81.0	60.0													
30.0 32.0	75.0 70.0	62.0 58.0													
34.0	65.0	53.0													
36.0	60.0	49.5													
38.0	55.0	46.5													
40.0 44.0	51.0	43.5	00.0												
44.0		38.0 32.5	29.9 26.1												
52.0		52.5	22.8												
* n *	9	4	2												
XX	87.0	77.0	67.0												
0-10															
m/s	12.8	12.8	12.8												
***	048	055	062												
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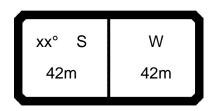


typ1: D=28.0 mm

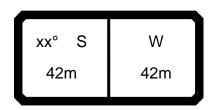
				ty	p1: D	=28.0	mm							2	2.00
H AFF		m	1 > < t		CO	=28.0 DE :	>073	32<				U18	31	12	27
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22.0	115.0														
24.0	105.0														
26.0	96.0														
28.0	88.0														
30.0 32.0	82.0	69.0													
34.0	76.0 70.0	64.0 59.0													
36.0	65.0	55.0													
38.0	60.0	52.0													
40.0	56.0	48.0													
44.0		42.0	34.5												
48.0 52.0		36.5	30.5 26.3												
32.0			20.3											-	
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⋓ m/s	12.8	12.8	12.8												
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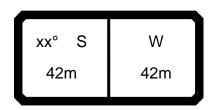
				ty	o1: D	=28.0	mm							2	2.00
THE REPORT OF THE PERSON OF TH		m) > < t		CO	DE :	>074	45<				U18	1	12	28
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20.0 22.0	74.0 66.0														
24.0	60.0														
26.0	54.0														
28.0 30.0	49.5 45.5														
32.0	45.5	29.8													
34.0	38.5	27.2													
36.0	35.5	24.8													
38.0 40.0	32.5 30.5	22.6 20.7													
44.0	26.3	17.3													
48.0		14.5	7.0												
52.0		12.1	5.1												
* n *	5	2	1												
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	4.5.	45.5	45.5												
⋓ m/s	12.8 053	12.8 060	12.8 067												
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		42m		42m		t		t =	3	60°					
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				ty	p1: D	=28.0	mm						2	2.00
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20.0	78.0 70.0													
24.0	63.0													
26.0	57.0													
28.0	52.0													
30.0	48.0													
32.0	44.0	32.5												
34.0 36.0	40.5 37.5	29.6 27.1												
38.0	35.0	24.8												
40.0	32.5	22.8												
44.0	28.3	19.2												
48.0		16.3	8.8											
52.0		13.8	6.7											
56.0			5.0											
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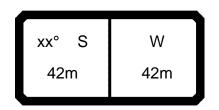


				ty	p1: D:	=28.0	mm							2	2.00
₩ APP		m) > < t		CO	DE :	>074	43<				U18	1	12	28
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32.0	50.0	38.5													
34.0 36.0	46.5 43.5	35.5 32.5													
38.0	40.5	30.0												+	
40.0	37.5	27.8													
44.0 48.0	33.0	23.8 20.5	13.0												
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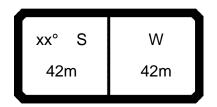


typ1: D=28.0 mm

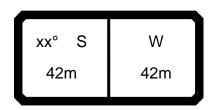
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28.0	66.0														
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32.0	57.0	45.0													
34.0 36.0	53.0 49.0	41.5 38.0													
38.0	45.5	35.5												-+	
40.0	42.5	33.0													
44.0	37.5	28.5													
48.0		24.8	17.2												
52.0		21.8	14.6												
56.0			12.4												
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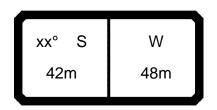
				ty	p1: D	=28.0 ı	mm						2	2.00
→	M	m	ı > < t		CO	DE >	>074	11<			U18	1	12	28
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20.0 22.0	105.0 95.0													
24.0	86.0													
26.0	79.0													
28.0 30.0	72.0 67.0													
32.0	62.0	50.0												
34.0	57.0	46.0												
36.0 38.0	54.0	43.0												
40.0	50.0 47.0	39.5 37.0												
44.0	40.5	32.5												
48.0		28.4	20.7											
52.0 56.0		25.1	17.9 15.4											
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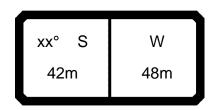
				ty	p1: D	=28.0	mm							22	2.00
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m 18.0	42.0	42.0	42.0												
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26.0	86.0														
28.0	79.0														
30.0	73.0														
32.0	68.0	56.0													
34.0	63.0	52.0													
36.0 38.0	59.0 55.0	48.5 45.0													
40.0	51.0	42.0													
44.0	44.5	37.0													
48.0		32.5	25.0												
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56.0			19.1												
60.0			16.6												
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⋓ m/s	12.8	12.8	12.8												
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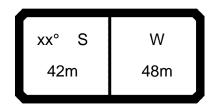
				ty	p1: D	=28.0	mm						2	2.00
H AFF		m	ı > < t		CO	=28.0 DE :	>073	39<			U18	31	12	28
m 18.0	42.0	42.0	42.0											
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24.0	102.0													
26.0	94.0													
28.0	86.0													
30.0	80.0	00.0												
32.0 34.0	74.0 69.0	62.0 58.0												
36.0	65.0	54.0												
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40.0	56.0	47.0												
44.0	48.5	41.5												
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56.0		32.0	25.7 22.6											
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		xx° S	3	W	≤	\frown	11	65		\				
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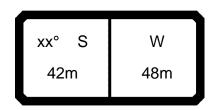
				ty	p1: D:	=28.0	mm							2	2.00
₩ APP		m	ı > < t		CO	DE :	>07	52<				U18	1	12	29
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44.0	23.9	14.9													
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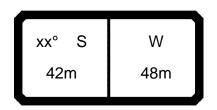
				ty	p1: D	=28.0 r	mm						22	2.00
	MM	m	ı > < t		CO	DE >	>075	51<			U18	1	12	29
m m	42.0	42.0	42.0											
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28.0	49.5													
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36.0	35.0	24.4												
38.0	32.5	22.2												
40.0	30.0	20.2												
44.0 48.0	25.8	16.8	0.0											
52.0	22.3 19.5	13.9 11.4	6.3 4.3											
56.0	13.3	9.4	7.0											
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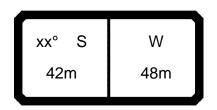
	I A 4	typ1: D=28.0 mm CODE >0750<												22.00
A		m	> < t	,	CO	DE >	>075	5 0<				U18	1 1	1229
₽ m	42.0	42.0	42.0											
20.0	84.0													
22.0	75.0													
24.0 26.0	68.0 62.0													
28.0	56.0													+
30.0	52.0													
32.0	47.5													
34.0 36.0	44.0 40.5	32.5 29.9												
38.0	37.5	27.4												
40.0	35.0	25.2												
44.0	30.5	21.3												
48.0 52.0	26.6 23.5	18.1	10.5 8.2											
56.0	23.5	15.4 13.1	6.3											
60.0		11.2	4.6											
* n *	5	2	1											
XX	87.0	77.0	67.0											
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o -40														
■ m/s	12.8	12.8	12.8											
	051	058	065											
ſ		VV0 C		۱۸/	7	<u>~</u>		25]	ſ]
		xx° S	'	W		130	_≡ 7			7				
		42m		48m		100	IJ≡¯	·▔▀█▏	🔪					
	_/\					τ		τ	3	60°			<u></u>	



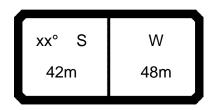
				ty	p1: D	=28.0 r	mm						2	2.00
→	M	m	ı > < t		CO	DE >	>074	19<			U18	1	12	29
m m	42.0	42.0	42.0											
20.0	93.0													
22.0 24.0	84.0 76.0													
26.0	69.0													
28.0	63.0													
30.0	58.0													
32.0 34.0	54.0 49.5	38.5												
36.0	46.0	35.5												
38.0	43.0	32.5												
40.0	40.0	30.0												
44.0	35.0	25.9	440											
48.0 52.0	31.0 27.4	22.3 19.3	14.6 12.1											
56.0	21.4	16.7	9.9											
60.0		14.7	8.1											
64.0			6.5											
* n *	6	3	1										+	
xx	87.0	77.0	67.0											
_														
													\dashv	
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o _{0														
m/s	12.8	12.8	12.8											
***	050	057	064											
					1									\neg
		xx° S	s	W 48m	 <u>-</u>		II -	25		\				
		42m		48m		150	IJ₽		(<i>)</i>				
		74111		70111		t		t	3	60°		l		
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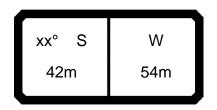
				ty	p1: D	=28.0	mm							22	2.00
H AFF		m	ı > < t		CO	=28.0 DE :	>074	48<				U18	1	12	29
m 20.0	42.0	42.0	42.0												
22.0 24.0	91.0 82.0													-	
26.0	75.0														
28.0	69.0														
30.0	64.0														
32.0	59.0														
34.0	55.0	43.0													
36.0 38.0	51.0 47.5	40.0 37.0													
40.0	44.0	34.5												+	
44.0	39.0	29.6													
48.0	34.5	25.8	18.1												
52.0	30.0	22.5	15.3												
56.0		19.8	12.9												
60.0 64.0		17.6	10.9											_	
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XX	87.0	77.0	67.0												
														\perp	
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o _∤o															
m/s	12.8	12.8	12.8												
***	049	056	063												
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		xx° S	s	W 48m			11 _	65		~					
				10:		150	1157)					
		42m		48M		t		t =	3	60°					
					_	_	_				<u>'</u>		<u>_</u>		



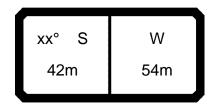
				ty	p1: D	=28.0	mm						2	2.00
H AFF		m	ı > < t		CO	=28.0 DE :	>074	47<			U18	1	12	29
m 20.0	42.0	42.0	42.0											
22.0 24.0	99.0 90.0													
26.0	83.0													
28.0	76.0													
30.0	70.0													
32.0	65.0													
34.0	60.0	49.0												
36.0	56.0	45.5												
38.0	53.0	42.0												
40.0 44.0	49.0 43.5	39.0 34.0												
48.0	38.0	30.0	22.3											
52.0	33.5	26.4	19.2											
56.0		23.4	16.6											
60.0		20.7	14.3											
64.0			12.4											
* n *	7	3	2											
хх	87.0	77.0	67.0											
													\dashv	
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o _10														
ı m	400	400	400											
■ m/s	12.8 048	12.8 055	12.8 062											
	U40	000	002									_		$\overline{}$
ſ		0	<u>, </u>	147	7	A	1	65			1	ſ		1
		xx° S	²	VV		170	11=7			1				
		42m		W 48m		170		=	11					
					JL	t		t	3	60°	J			
					_		_					_		_



	typ1: D=28.0 mm													22.00
A		m	> < t		CO	DE :	>074	46<				U18	1 1	1229
₹ m	42.0	42.0	42.0											
20.0	119.0													
22.0	108.0													
24.0 26.0	98.0 90.0													
28.0	83.0													
30.0	77.0													
32.0	71.0													
34.0 36.0	66.0 62.0	55.0 51.0												
38.0	58.0	47.5												
40.0	54.0	44.0												
44.0	47.5	39.0												
48.0 52.0	42.0	34.0	26.5											
56.0	37.0	30.5 27.1	23.1											+
60.0		23.7	17.7											
64.0			15.6											
* n *	7	4	2											
	87.0	77.0	67.0											
_														
-														+
						<u> </u>								
0-40														+
m/s	12.8	12.8	12.8											
***	047	054	061											
					1	-								
		xx° S	3	W				65		\				
		42m		48m		190	Ⅱ탈							
		74111		70111	JĽ	t		t	3	60°			l	J
													_	

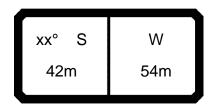


				ty	p1: D:	=28.0	mm						22	2.00
THE REPORT OF THE PERSON OF TH		m) > < t		CO	DE :	>07	59<			U18	1	12	30
♣ m	42.0	42.0	42.0											
20.0	68.0													
22.0 24.0	61.0 55.0													
26.0	49.5													
28.0 30.0	45.0 41.0													
32.0	37.5													
34.0	34.0													
36.0 38.0	31.5 28.8	20.6 18.6												
40.0	26.5	16.7												
44.0	22.6	13.5												
48.0 52.0	19.3 16.5	10.9 8.6												
56.0	14.2	6.7												
60.0		5.0												
* n *	4 87.0	2 77.0	1 67.0											
	07.0	11.0	07.0											
_													\perp	
- 1c													\perp	
0-40	400	40.0	40.0											
⋓ m/s	12.8 053	12.8 060	12.8										-	
		300			7	I .								$\overline{}$
		xx° S	3	W		<u>^</u>	11 _	5		~				
		42m		54m		110	∏		11 (
l		74111		J- 1 111	JĽ	t	JŪ	t	3	60°	J	l		J
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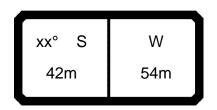


tvp1: D=28.0 mm 22 00

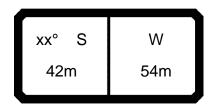
				ty	p1: D	=28.0	mm						22	2.00
H APP	MM	m	ı > < t		CO	DE :	>075	>8ō			U18	1	12	30
m m	42.0	42.0	42.0											
20.0	72.0													
22.0 24.0	64.0 58.0												-	
26.0	52.0													
28.0	47.5													
30.0	43.5													
32.0	40.0													
34.0	36.5													
36.0 38.0	33.5	22.9 20.7												
40.0	31.0 28.6	18.8											-+	
44.0	24.5	15.4												
48.0	21.0	12.6												
52.0	18.1	10.2												
56.0	15.7	8.2												
60.0 64.0		6.4											_	
64.0		5.0												
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													_	
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xx	87.0	77.0	67.0											
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													\perp	
0-40													+	
1 m 1														
U m/s	12.8	12.8	12.8										\perp	
	052	059											\perp	
				147	7	<u> </u>	חו	25			1	(1
		xx° S	5	W		146	11_7	25		\				
		42m		54m		110			II١	1				
	_)[JL	t	ノ	t	3	60°				



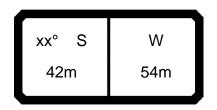
				ty	p1: D	=28.0 ı	mm							2	22.00
→		m	ı > < t		CO	DE >	>075	57<				U18	1	12	230
m M	42.0	42.0	42.0												
20.0	81.0														
22.0 24.0	73.0 66.0														
26.0	60.0														
28.0	54.0														
30.0	50.0														
32.0 34.0	46.0 42.0														
36.0	39.0	28.3													
38.0	36.0	25.9													
40.0	33.5	23.7													
44.0 48.0	29.0	19.9													
52.0	25.2 22.0	16.8 14.1	6.9												
56.0	19.4	11.8	5.0												
60.0		9.9													
64.0		8.2													
* n *	5	2	1											\dashv	
XX	87.0	77.0	67.0												
_														_	
														-	
														\dashv	
_															
0-40															
m/s	12.8	12.8	12.8												
***	051	058	065												
					1					$\overline{}$					$\overline{}$
		xx° S	s	W 54m	112		II -	25		\					
		42m		54m		130	IJ <u>₽</u>								
		→ ∠III		J -1 111		t		t _	3	60°					
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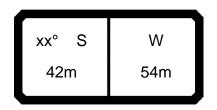
				ty	p1: D	=28.0	mm						2	22.00
THE REPORT OF THE PERSON OF TH		m	1 > < t		CO	=28.0 DE :	>07	56<			U18	1	12	230
E	42.0	42.0	42.0											
20.0	90.0													
22.0 24.0	81.0 73.0													
26.0	67.0													
28.0	61.0													
30.0	56.0													
32.0	52.0													
34.0	48.0	00.5												
36.0 38.0	44.5 41.5	33.5 31.0												
40.0	38.5	28.6												
44.0	33.5	24.4												
48.0	29.4	20.9												
52.0	26.0	17.9	10.7											
56.0	23.1	15.4	8.6											
60.0 64.0		13.3 11.5	6.8 5.2											
04.0		11.5	5.2											
* n *	6	2	1											
хх	87.0	77.0	67.0											
													\dashv	
_														
0 -10													\dashv	
ı m	40.0	46.6	46.6											
■ m/s	12.8 050	12.8 057	12.8 064											
	000	007	004											
ſ		vv.0 (۱۸/	7	A	1	25			1			1
		xx° S		VV		150	11=7			7				
		42m		W 54m		150	≡"		\	<i> </i>				
	_/\				JL	t		t	3	60°		L		



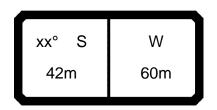
				ty	p1: D	=28.0	mm						2	22.00
THE REPORT OF THE PERSON OF TH		m	1 > < t		CO	=28.0 DE :	>07	55<			U18	1	12	230
E	42.0	42.0	42.0											
20.0	98.0													
22.0 24.0	88.0 80.0													
26.0	73.0													
28.0	67.0													
30.0	62.0													
32.0	57.0													
34.0	53.0													
36.0 38.0	49.0 45.5	38.0 35.5												
40.0	42.5	32.5												
44.0	37.5	28.2												
48.0	33.0	24.4												
52.0	29.2	21.2	13.9											
56.0	26.2	18.4	11.6											
60.0 64.0		16.1	9.6											
68.0		14.1	7.9 6.4											
			0.4											
* n *	6	3	1											
	87.0	77.0	67.0											
													T	
_														
0 -10													\dashv	
1 m 1	40.0	46.0	46.6											
■ m/s	12.8 049	12.8 056	12.8 063											
	049	000	003											
ſ		va.0 (۱۸/	7	A	1	65			1			1
		xx° S		VV		150	11=7			7				
		42m		W 54m		150	≡"		\	<i> </i>				
	_/\				JL	t		t	3	60°		L		



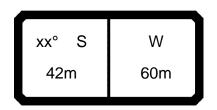
				ty	′p1: D	=28.0	mm							2	2.00
H AFF		m	1 > < t		CO	=28.0 DE :	>07	54<				U18	1	12	230
m 20.0	42.0	42.0	42.0												
22.0 24.0	96.0 88.0														
26.0	80.0														
28.0	74.0														
30.0	68.0														
32.0	63.0														
34.0	58.0														
36.0 38.0	54.0 51.0	43.5 40.5													
40.0	47.5	37.5												-+	
44.0	42.0	32.5													
48.0	37.0	28.5													
52.0	33.0	25.0	17.8												
56.0	29.4	22.0	15.2												
60.0		19.5	13.0												
64.0 68.0		17.4	11.0												
72.0			9.4 8.0												
1 2.0			0.0												
* n *	7	3	1												
xx	87.0	77.0	67.0												
-															
o _∦o															
m/s	12.8	12.8	12.8												
***	048	055	062												
					7	_						$\overline{}$			
		xx° S	s	W 54m			11 -	65		~					
				5.1m		170	 								
		42m		34III		t		t -	3	60°					
						-	_				<u> </u>		<u> </u>		



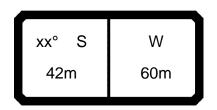
				ty	p1: D	=28.0	mm							2	2.00
H AFF		m	1 > < t		CO	=28.0 DE :	>07	53<				U18	1	12	30
E	42.0	42.0	42.0												
20.0	116.0														
22.0 24.0	105.0 96.0														
26.0	88.0														
28.0	81.0														
30.0	74.0														
32.0	69.0														
34.0	64.0														
36.0	60.0	49.0													
38.0	56.0	45.5													
40.0 44.0	52.0 46.5	42.5 37.0													
48.0	41.5	32.5													
52.0	36.5	28.9	21.6												
56.0	32.5	25.7	18.8												
60.0		22.9	16.4												
64.0		20.5	14.2												
68.0			12.4												
72.0			10.9												
* n *	7	3	2												
хх	87.0	77.0	67.0												
														\dashv	
- 4-														\dashv	
0															
⋓ m/s	12.8	12.8	12.8												
***	047	054	061		<u> </u>						<u> </u>	<u> </u>	<u> </u>		
					7	_	1						\frown		
		xx° S	S	W	∠		11 -	65		\					
		42m		W 54m		190									
		42111		J4111		t		t -	3	60°					
						•	/				<u> </u>		<u>_</u>		



				ty	p1: D	=28.0	mm						22	.00
H AFF	MM	m	1 > < t		CO	=28.0 DE :	>076	66<			U18	1	123	31
m 22.0	42.0	42.0	42.0											
24.0 26.0	52.0 47.0													
28.0	42.5													
30.0	38.5													
32.0	35.0													
34.0	32.0													
36.0	29.4													
38.0	27.0													
40.0	24.7	14.8												
44.0 48.0	20.9	11.7												
52.0	17.6 14.9	9.1 6.9												
56.0	12.5	5.0												
60.0	10.5	0.0												
64.0	8.9													
* n *	4	1	1											
xx	87.0	77.0	67.0											
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o _{40														
m/s	12.8	12.8	12.8											
***	053	060												
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		xx° S	,	\٨/		<u>~</u>		5	II .					
				۷V	Hf	110	₌ 7			7				
		42m		W 60m		110				60°				
	_/\				JL	t		t	3	60°		L		
	_													



				ty	p1: D	=28.0	mm							2	2.00
H AFF		m	1 > < t		CO	=28.0 DE :	>076	35<				U18	31	12	31
m 22.0	42.0	42.0	42.0												
_															
24.0 26.0	55.0 50.0														
28.0	45.0														
30.0	41.0														
32.0	37.5														
34.0	34.5														
36.0	31.5														
38.0	29.1	40.0													
40.0 44.0	26.8 22.7	16.8 13.6													
48.0	19.3	10.8													
52.0	16.5	8.5													
56.0	14.0	6.5													
60.0	11.9	4.8													
64.0	10.3														
* n *	4	1	1												
хх	87.0	77.0	67.0												
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o _10															
m/s	12.8	12.8	12.8												
***	052	059												\dashv	
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		xx° S	3	\/\/	11,	^~		25	II _						
				W 60m	Πŕ	110	 ≡7			7					
		42m		60m		+		▔▀▋	🟅	60°					
	/\					ι		ι	3	00	<u> </u>		<u></u>		



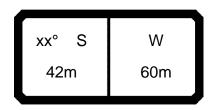
				ty	p1: D	=28.0	mm						2	2.00
THE REPORT OF THE PERSON OF TH		m	1 > < t		CO	=28.0 DE :	>076	64<			U18	1	12	31
m 22.0	42.0	42.0	42.0											
24.0 26.0	63.0 57.0													
28.0	52.0													
30.0	47.5													
32.0	43.5													
34.0	40.0													
36.0	37.0													
38.0	34.0													
40.0	31.5	21.7												
44.0	27.2	18.0												
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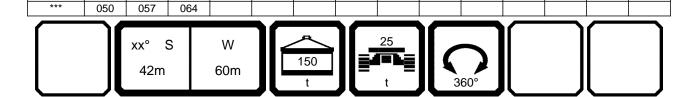
12.8

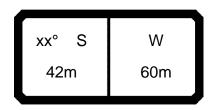
12.8

12.8



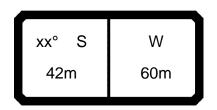
22.00 typ1: D=28.0 mm CODE >0763< U181 1231 m > < t42.0 42.0 42.0 78.0 24.0 70.0 26.0 64.0 28.0 59.0 30.0 54.0 32.0 49.5 34.0 46.0 36.0 42.5 38.0 39.5 40.0 36.5 26.5 44.0 31.5 22.5 48.0 27.6 19.1 52.0 24.2 16.1 56.0 21.3 13.7 6.8 60.0 18.8 11.5 64.0 9.6 68.0 8.1 5 2 1 ХX 77.0 67.0



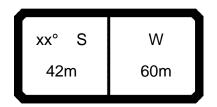


typ1: D=28.0 mm 22.00 W m > <t code="" =""> 0762 < U181 1231 </t>					ty	p1: D	=28.0	mm						2	2.00
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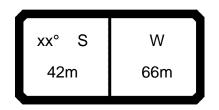
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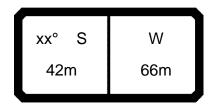
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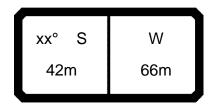
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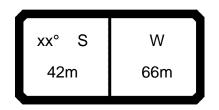


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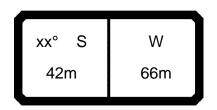


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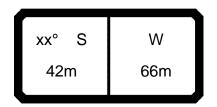


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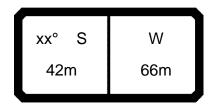


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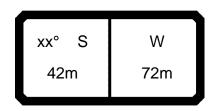


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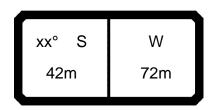


typ1: D=28.0 mm

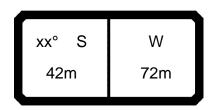
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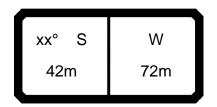
				ty	p1: D:	=28.0	mm						2	2.00
₩ APP		m) > < t		CO	DE :	>078	30<			U18	1	12	33
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26.0	43.0													
28.0 30.0	38.5 35.0												\dashv	
32.0	32.0													
34.0 36.0	28.9 26.3													
38.0	23.9												+	
40.0	21.8													
44.0 48.0	18.0 14.9	8.8 6.3												
52.0	12.2	4.1											-	
56.0	9.8													
60.0 64.0	7.8 6.0													
68.0	4.5												+	
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⋓ m/s	12.8 053	12.8	12.8										\perp	
	003	060											<u> </u>	$\overline{}$
		xx° S	3	W		<u> </u>		5						
				72m		110	 <u> </u>			7				
		42m		/2m		t		t =	3	60°				
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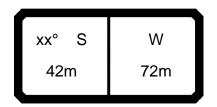
				ty	p1: D	=28.0	mm						2	22.00
THE REPORT OF THE PERSON OF TH	MM	m	> < t		CO	=28.0 DE :	>077	79<			U18	1	12	233
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32.0	34.0													
34.0	31.0													
36.0	28.5													
38.0	26.0													
40.0	23.8													
44.0	19.8	10.6												
48.0 52.0	16.5 13.7	7.9 5.7												
56.0	11.3	5.7												
60.0	9.2													
64.0	7.3													
68.0	5.7													
72.0	4.3													
* n *	3	1 77.0	1											
xx	87.0	77.0	67.0											
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m/s	12.8	12.8	12.8											
***	052	059	12.0											
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		xx° S		\//		<u>~</u>		25		_]]			
				٧V		110	 =7			7				
		42m		W 72m		110			II٦	<i> </i>				
	_/\				JL	t		t	$\frac{3}{2}$	60°				



				ty	p1: D	=28.0	mm						2	22.00
THE REPORT OF THE PERSON OF TH		m	1 > < t		CO	=28.0 DE :	>077	78<			U18	1	12	233
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34.0	36.5													
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38.0	31.0													
40.0	28.5													
44.0	24.2	14.9												
48.0 52.0	20.6	12.0												
56.0	17.5 14.8	9.4 7.3												
60.0	12.5	5.4												
64.0	10.5	0.4												
68.0	8.7													
72.0	7.2													
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xx	87.0	77.0	67.0											
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■ m/s	12.8	12.8	12.8											
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		xx° S	s I	W		<u>~</u>		25	ے اا					
				W 72m		130	∐ ≡7			7				
		42m		72m		+		_=	``	60°				
	/\				JL	ι		ι	3	00'	 	<u></u>		

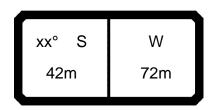


				ty	p1: D	=28.0	mm						2	22.00
H AFF		m	1 > < t		CO	=28.0 DE :	>077	77<			U18	1	12	233
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32.0	46.0													
34.0	42.0													
36.0	39.0													
38.0	36.0													
40.0	33.5													
44.0	28.6	19.3												
48.0	24.7	16.0												
52.0 56.0	21.3	13.2												
60.0	18.4 15.8	10.8 8.7												
64.0	13.6	6.8												
68.0	11.7	5.2												
72.0	10.0	0.2												
76.0	8.7													
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⋓ m/s	12.8	12.8	12.8											
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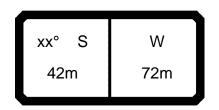


typ1: D=28.0 mm

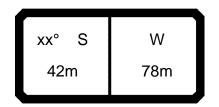
				ty	p1: D	=28.0	mm						2	2.00
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32.0	51.0													
34.0	47.0													
36.0	43.5													
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40.0	37.5													
44.0	32.0	22.9												
48.0 52.0	28.0 24.4	19.4 16.3												
56.0	21.3	13.7												
60.0	18.6	11.4												
64.0	16.2	9.4											_	
68.0	14.2	7.6												
72.0	12.4	6.1												
76.0	10.9	4.7												
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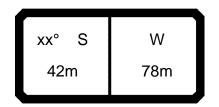
				ty	p1: D	=28.0	mm							2	2.00
H AFF		m	1 > < t		CO	=28.0 DE :	>077	75<				U18	1	12	233
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	_														
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32.0	56.0														
34.0	52.0														
36.0	48.5														
38.0	45.0														
40.0	42.0														
44.0	36.5	27.3													
48.0 52.0	32.0 28.2	23.4 20.1												_	
56.0	24.8	17.2													
60.0	21.9	14.7													
64.0	19.4	12.5	6.2												
68.0	17.1	10.6	4.6												
72.0	15.2	8.9													
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80.0		6.0													
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⋓ m/s	12.8	12.8	12.8												
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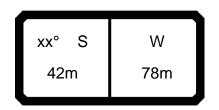
				ty	p1: D	=28.0 r	mm							2	22.00
		m	ı > < t		CO	DE >	>077	74<				U18	1	12	233
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32.0	62.0														
34.0	58.0														
36.0	54.0														
38.0 40.0	50.0 47.0														
44.0	41.0	31.5													
48.0	36.0	27.4													
52.0	32.0	23.8													
56.0 60.0	28.4 25.2	20.7 18.0													
64.0	22.5	15.6	9.3												
68.0	20.1	13.5	7.5												
72.0	18.0	11.7	5.9												
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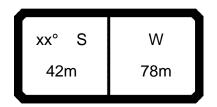
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38.0 40.0	22.4 20.3													
44.0	16.6													
48.0 52.0	13.5 10.8													
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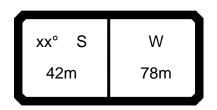
				ty	p1: D:	=28.0	mm							2	2.00
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32.0	32.5														
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48.0	15.1	6.5													
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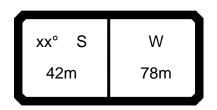
				ty	p1: D	=28.0 r	mm							2	22.00
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32.0	38.0														
34.0	35.0														
36.0	32.0														
38.0 40.0	29.3 26.9														
44.0	22.7														
48.0	19.1	10.5													
52.0	16.1	8.0													
56.0 60.0	13.5	5.8													
64.0	11.2 9.2	4.0													
68.0	7.4														
72.0	5.8														
76.0	4.5														
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xx	87.0	77.0	67.0												
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0-40															
m/s	12.8	12.8	12.8												
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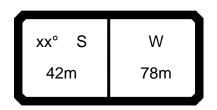
				ty	p1: D:	=28.0	mm							22	.00
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40.0	31.5														
44.0	27.0														
48.0 52.0	23.2	14.5													
56.0	19.8 17.0	11.7 9.3													
60.0	14.5	7.2													
64.0	12.3	5.4													
68.0 72.0	10.3 8.6														
76.0	7.2														
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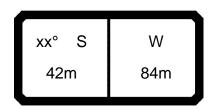
				ty	p1: D	=28.0	mm							2	2.00
→		m	1 > < t		CO	=28.0 DE :	>078	33<				U18	1	12	234
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34.0	45.0														
36.0	41.5														
38.0	38.5														
40.0	35.5														
44.0	30.5	47.0													
48.0 52.0	26.5 22.9	17.8 14.8													
56.0	19.9	12.2													
60.0	17.2	10.0													
64.0	14.8	8.0													
68.0	12.8	6.2													
72.0	11.0	4.7													
76.0	9.4														
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		42m		W 78m		150	IJ₽́		11 (<i>)</i>					
		74111		7 0111		t		t	3	60°					
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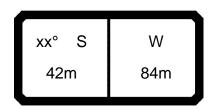
				ty	p1: D	=28.0 r	mm						2	22.00
→		m	1 > < t			DE >		32<			U18	1	12	234
m m	42.0	42.0	42.0											
26.0	70.0													
28.0 30.0	64.0 59.0													
32.0	54.0													
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36.0	46.5													
38.0	43.5													
40.0 44.0	40.5													
44.0	35.0 30.5	21.8												
52.0	26.7	18.5												
56.0	23.4	15.7												
60.0	20.5	13.2												
64.0	17.9	11.1												
68.0	15.7	9.2												
72.0 76.0	13.8	7.5												
80.0	12.1 10.6	6.0 4.6												
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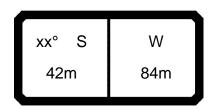
				ty	′p1: D	=28.0	mm						2	22.00
→	MM	m	1 > < t		CO	=28.0 DE :	>078	31<			U18	1	12	234
E	42.0	42.0	42.0											
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60.0	23.8	16.5												
64.0	21.1	14.2												
68.0	18.7	12.1	6.1											
72.0	16.6	10.3	4.5											
76.0	14.7	8.6												
80.0 84.0	13.2	7.2 5.9												
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		42m		78m				, =		60°				
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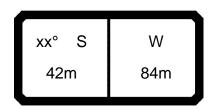
				typ1: D	=28.0	mm						22.00
H AFF		m	> < t	СО	DE :	>079	94<			U18	1 1	235
m M	42.0	42.0										
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48.0 52.0	11.5 8.9											
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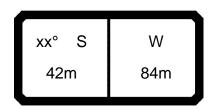
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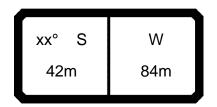
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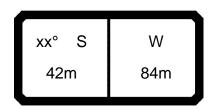
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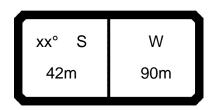
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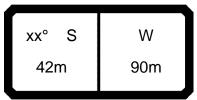
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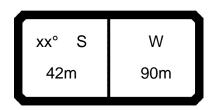
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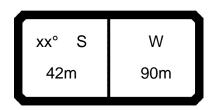
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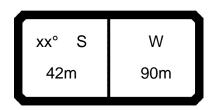
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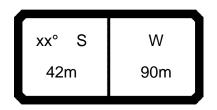
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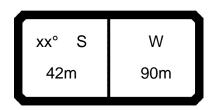
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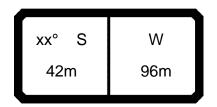
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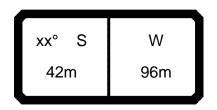
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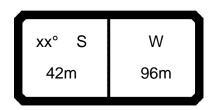
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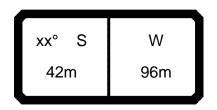
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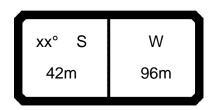
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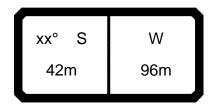
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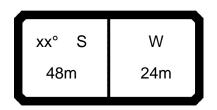
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38.0	33.0											
40.0 44.0	30.5 25.9											
48.0	21.9											
52.0	18.5											
56.0 60.0	15.5 12.9	7.6 5.5										
64.0	10.6	5.5										
68.0	8.5											
72.0	6.7											
76.0	5.1											
* n *	3	1										
xx	87.0	77.0										
_												+
0-40												+ -
m/s	12.8	12.8										
***	049	056										+
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		xx° S	s \	v II.		,∥∥ _	65	_	~			
		42m		Sm	150	ĬĬĬ₽						
l	JL	74111	30	<u> </u>	t		t	3	60°	J	l	J
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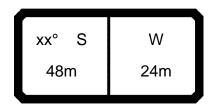
				typ1: D)=28.0	mm							2	2.00
	MM	m	> < t	CC	DE :	>080)3<				U18	1	12	37
₽ m	42.0	42.0												
30.0	53.0													
32.0 34.0	48.5 44.5													
36.0	41.0													
38.0	38.0													
40.0	35.0													
44.0 48.0	30.0 25.8													
52.0	22.1													
56.0	18.9	11.0												
60.0	16.1	8.7												
64.0	13.6	6.6												
68.0 72.0	11.4 9.4	4.7												
76.0	7.7													
80.0	6.1													
84.0	4.6													
* n *	3	1												
* n *	87.0	77.0												
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0-40													\dashv	
m/s	12.8	12.8												
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		1			1		$\overline{}$				$\overline{}$	_		$\overline{}$
		xx° S	s v	/			65	 _						
		42m	5 V 96		170)					
		42m	96	m [] 	t		t =	.36	60°					
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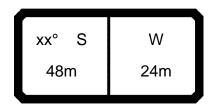
					: D=28.0								22.00
THE REPORT OF THE PERSON OF TH	MM	m	> < t	С	ODE	>080)2<				U18	1 12	237
m M	42.0	42.0											
30.0	53.0												
32.0	52.0												
34.0 36.0	50.0 46.0												
38.0	43.0												
40.0	39.5												
44.0	34.5												
48.0 52.0	29.7 25.7												
56.0	25.7	14.4											
60.0	19.3	11.9											
64.0	16.6	9.6											
68.0	14.3	7.6											
72.0 76.0	12.2	5.8 4.2											
80.0	10.3 8.6	4.2											
84.0	7.0												
88.0	5.6												
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o -∤o													
■ m/s	12.8	12.8								_		_	
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					-	$\neg \cap$	0.5						
		xx° S	•	W		╕ ┃┃ _┻	65		\				
		42m	9	6m	190	▃▍▋▋≣⁴			1				
	_/L				t		t	36	60°				



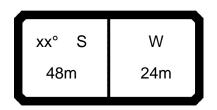
				ty	p1: D	=28.0	mm						2	22.00
H AFF		m	> < t		CO	DE :	>08	14<			U18	1	13	325
m	48.0	48.0	48.0											
14.0	117.0													
16.0 18.0	101.0 89.0													
20.0	79.0													
22.0	71.0													
24.0 26.0	64.0 59.0	42.5												
28.0	54.0	38.5												
30.0		35.0												
32.0		32.0												
34.0 36.0		29.0 26.6												
38.0		20.0	14.3											
40.0			12.8											
44.0			10.0											
													_	
* n *	7	3	1											
xx	87.0	77.0	67.0											
_														
													+	
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⋓ m/s	12.8	12.8	12.8										\perp	
***	053	060	067									_		
ſ		vv° (,	۱۸/	7	<u>~</u>	חור	5])
		xx° S	1	W 24m		110	∐ ₌7			つ				
		48m		24m		+	= <u> </u>	⋷	1	60°				
	/\				JL	ι		ι	3	00		<u></u>		



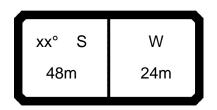
				ty	p1: D	=28.0	mm							2	22.00
THE REPORT OF THE PERSON OF TH		m	ı > < t		CO	DE :	>08	13<				U18	31	13	25
m 14.0	48.0	48.0	48.0												
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16.0 18.0	107.0 94.0														
20.0	84.0														
22.0	75.0														
24.0	68.0														
26.0 28.0	62.0 57.0	45.5 41.5													
30.0	37.0	37.5													
32.0		34.5													
34.0		31.5													
36.0 38.0		28.9	16.5												
40.0			14.9												
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* n *	8	3	1												
хх	87.0	77.0	67.0												
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														-	
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o _∤o															
⋓ m/s	12.8	12.8	12.8												
***	052	059	066		<u> </u>					<u> </u>					
				147	7	<u>ب</u>	חר	25					\bigcap		
		xx° S		VV		110	11=7			7					
		48m		W 24m		110	≡	=	II٦						
	_/[JL	t		t	$\frac{3}{2}$	60°	<u> </u>				



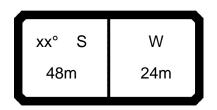
				ty	p1: D	=28.0	mm						2	22.00
→		m	> < t		CO	DE :	>08	12<			U18	1	13	25
m 14.0	48.0	48.0	48.0											
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22.0	84.0													
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26.0 28.0	70.0 64.0	53.0 48.5												
30.0	04.0	44.5												
32.0		41.0												
34.0		37.5												
36.0 38.0		34.5	21.9											
40.0			20.0											
44.0			16.7											
* n *	8	3	2											
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o _∤o														
⋓ m/s	12.8	12.8	12.8											
***	051	058	065		<u> </u>									
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		xx° S	ا ا	W		400	11=7	25		1				
		48m		W 24m		130	≅*		\					
	_/\				JL	t		t	3	60°		L		



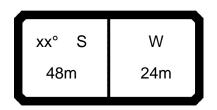
				ty	p1: D	=28.0	mm							2	22.00
H AFF		m	ı > < t			DE :		11<				U18	1	13	325
m 14.0	48.0	48.0	48.0												
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22.0	93.0														
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28.0	72.0	56.0													
30.0		51.0													
32.0 34.0		47.0													
36.0		43.5 40.5													
38.0			27.3												
40.0			25.2												
44.0			21.4												
* n *	9	4	2											+	
xx	87.0	77.0	67.0												
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⋓ m/s	12.8 050	12.8	12.8											_	
	000	057	064									<u> </u>			_
		xx° S	$\overline{\Box}$	\//		<u>~</u>		25]]
				W 24m	IIf	150	∐ ≡7			つ					
		48m		24m		t		=	3	60°					
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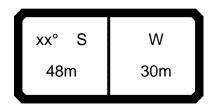
				ty	p1: D	=28.0	mm						2	22.00
H AFF		m) > < t		CO	DE :	>08	10<			U18	1	13	325
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16.0 18.0	141.0 125.0													
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22.0	101.0													
24.0	92.0	00.0												
26.0 28.0	84.0 78.0	68.0 62.0												
30.0	70.0	57.0												
32.0		53.0												
34.0		48.5												
36.0 38.0		45.5	32.0											
40.0			29.5											
44.0			25.3											
* *	40	4	0											
* n *	10 87.0	4 77.0	2 67.0											
_	0.10		0.10											
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o _{40													1	
■ m/s	12.8	12.8	12.8											
***	049	056	063											
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		xx° S	S	W		\frown	11	65		\				
		48m		W 24m		150	IJ≝⁴		II٤	1				
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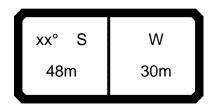
				ty	p1: D:	=28.0	mm							2	2.00
→ E		m	ı > < t			DE :)9<				U18	81 ·	13	25
M M m	48.0	48.0	48.0												
14.0 16.0	176.0 154.0														
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20.0	122.0														
22.0 24.0	110.0 100.0														
26.0	92.0	75.0													
28.0	85.0	69.0													
30.0 32.0		64.0 59.0													
34.0		55.0													
36.0		51.0													
38.0 40.0			37.0 34.5												
44.0			30.0												
* n *	11	5	3												
xx	87.0	77.0	67.0												
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														+	
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0∯0															
⋓ m/s	12.8	12.8	12.8											\perp	
***	048	055	062										_		
		xx° S		۱۸/		^	1	65				1]
			 	W 24m		170	≡7			つ					
		48m		24m		t		t =	3	60°					
					/	•	_	<u> </u>			<u> </u>		<u>_</u>		



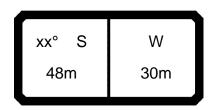
				ty	p1: D	=28.0	mm							2	22.00
H AFF	M	m	1 > < t		CO	DE :	>080	>80				U18	1	13	325
m	48.0	48.0	48.0												
14.0	190.0														
16.0 18.0	166.0 147.0													-	
20.0	132.0														
22.0	119.0														
24.0	109.0														
26.0 28.0	100.0 92.0	83.0 76.0													
30.0	92.0	70.0													
32.0		65.0													
34.0		61.0													
36.0		56.0													
38.0 40.0			42.5 40.0												
44.0			34.5												
			0 1.0												
														_	
* n *	12	5	3												
	87.0	77.0	67.0											_	
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o-∦o															
⋓ m/s	12.8	12.8	12.8												
***	047	054	061		<u> </u>	<u> </u>					L				
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		xx° S	S	W		\frown	 	65		\					
		48m		W 24m		190	IJ≌ť		II٤	<i> </i>					
	_JL				JĽ	t		t	3	60°	IL				
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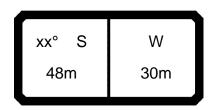
				ty	p1: D:	=28.0	mm						22	2.00
THE REPORT OF THE PERSON OF TH		m) > < t		CO	DE :	>082	21<			U18	1	13	26
₹ m	48.0	48.0	48.0											
16.0	97.0													
18.0 20.0	86.0 76.0												+	
22.0	68.0													
24.0 26.0	62.0 56.0													
28.0	51.0	36.0												
30.0	47.0	32.5												
32.0 34.0	43.0 40.0	29.6 27.0												
36.0	40.0	24.6											+	
38.0		22.5												
40.0 44.0		20.6	8.2											
48.0			6.0											
													+	
													+	
													+	
													+	
* n *	6 87.0	3 77.0	1 67.0										_	
xx	07.0	11.0	07.0										+	
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0-40													+	
	100	100	40.0											
⋓ m/s	12.8 053	12.8 060	12.8 067										+	
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		xx° S	3	W		<u>^</u>	11 _	5		~				
		48m		30m		110	IJ <u>₽</u>		11 (
		ŦOI11		00111	JĽ	t		t	3	60°	J			
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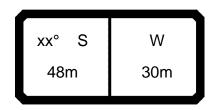
				ty	p1: D	=28.0	mm						2	22.00
H AFF		m	1 > < t		CO	=28.0 DE :	>082	20<			U18	1	13	326
m	48.0	48.0	48.0											
10.0	102.0													
18.0 20.0	90.0													
22.0	72.0													
24.0	65.0													
26.0	59.0													
28.0 30.0	54.0 49.5	39.0 35.5												
32.0	46.0	32.0												
34.0	42.5	29.4												
36.0		27.0												
38.0		24.7												
40.0 44.0		22.7	10.1											
48.0			10.1 7.8											
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	87.0	77.0	67.0											
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m/s	12.8	12.8	12.8											
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		xx° S	S	W		\frown	<u> </u>	25		\				
		48m		W 30m		110	Ⅱ탈			<i> </i>				
					JĽ	t		t	<u>3</u>	60°	J	l		J
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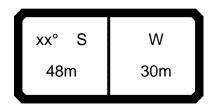
				ty	p1: D	=28.0	mm						2	22.00
₩ APP		m	1 > < t		CO	DE :	>08	19<			U18	1	13	326
m m	48.0	48.0	48.0											
16.0	114.0													
18.0 20.0	101.0 90.0													
22.0	81.0													
24.0	73.0													
26.0 28.0	67.0 61.0	46.0												
30.0	56.0	42.0												
32.0	52.0	38.5												
34.0	48.5	35.5												
36.0 38.0		32.5 30.0												
40.0		27.8												
44.0			14.8											
48.0			12.1											
* n *	7	3	1											
xx	87.0	77.0	67.0											
													\dashv	
0-40														
m/s	12.8	12.8	12.8											
***	051	058	065											
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		xx° S	S	W 30m		\sim	[[25		\				
		48m		30m		130	IJ≝ť			1				
	_/L				JL	t	ル	t	3	60°	J	L		



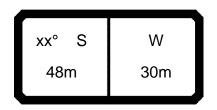
				ty	p1: D	=28.0	mm						2	22.00
THE REPORT OF THE PERSON OF TH		m	ı > < t		CO	DE :	>08	18<			U18	1	13	326
m	48.0	48.0	48.0											
10.0	126.0													
18.0 20.0	112.0 100.0													
22.0	90.0													
24.0	82.0													
26.0	75.0													
28.0 30.0	68.0 63.0	53.0 48.5												
32.0	59.0	45.0												
34.0	55.0	41.5												
36.0		38.0												
38.0		35.5												
40.0 44.0		33.0	19.4											
48.0			16.4											
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* n *	8 87.0	3 77.0	2 67.0											
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⋓ m/s	12.8	12.8	12.8										_	
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		48m		W 30m		130	 	· _ =		60°				
	_/\				JL	t		t	3	6U°		L		



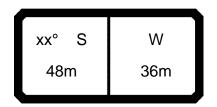
				ty	p1: D:	=28.0	mm						2	2.00
→		m	> < t		CO	DE :	>08	17<			U18	1	13	26
₹ m	48.0	48.0	48.0											
16.0	136.0													
18.0 20.0	120.0 108.0													
22.0	97.0													
24.0 26.0	88.0 81.0													
28.0	74.0	59.0												
30.0	69.0	54.0												
32.0 34.0	64.0 60.0	50.0 46.5												
36.0	00.0	43.0												
38.0		40.0												
40.0 44.0		37.0	23.3											
48.0			20.0											
* n *	8 87.0	4 77.0	2 67.0											
	07.0	11.0	07.0											
													_	
0-40													-	
	100	100	10.0											
⋓ m/s	12.8 049	12.8 056	12.8 063										-	
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		xx° S	3	W			11 -	65		\				
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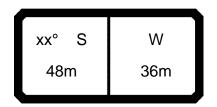
				ty	p1: D	=28.0	mm							2	22.00
THE REPORT OF THE PERSON OF TH		m) > < t		CO	DE	>08	16<				U18	1	13	26
m m	48.0	48.0	48.0												
16.0	148.0														
18.0 20.0	131.0 118.0													\dashv	
22.0	106.0														
24.0	97.0														
26.0 28.0	89.0 82.0	66.0												\dashv	
30.0	76.0	61.0													
32.0	70.0	56.0													
34.0 36.0	65.0	52.0 48.5												\dashv	
38.0		45.5													
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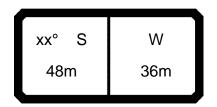
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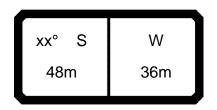
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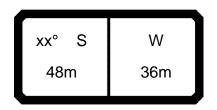
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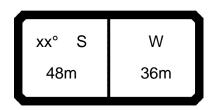
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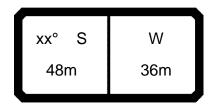
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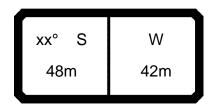
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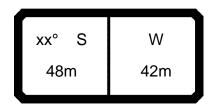
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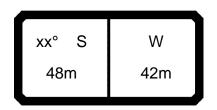
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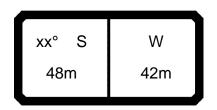
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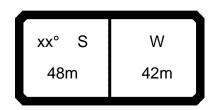
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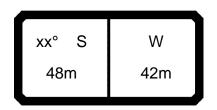
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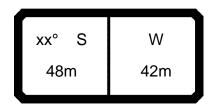
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t t 360°			48m		42m		150	¥≣اا			1				
		_/[JL	t		t	3	60°		L		



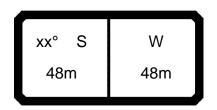
				ty	p1: D	=28.0 ı	nm						2	22.00
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32.0	60.0													
34.0	55.0	42.0												
36.0 38.0	52.0	39.0												
40.0	48.0 45.0	36.0 33.5												
44.0	40.0	29.2												
48.0		25.5	16.7											
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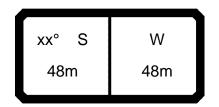
				ty	p1: D	=28.0	mm							2	2.00
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32.0 34.0	66.0	40.0													
36.0	61.0 57.0	48.0 44.5													
38.0	53.0	41.5													
40.0	50.0	38.5													
44.0	44.5	34.0													
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		48m		12m		170									
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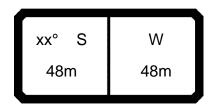
				ty	p1: D	=28.0	mm						2	2.00
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		48m		W 42m		190	IJ <u>₽</u>			<i>)</i>				
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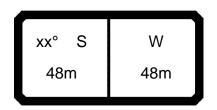
				ty	p1: D:	=28.0 r	mm						22.00
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34.0	34.0												
36.0	31.0	18.7											
38.0 40.0	28.6 26.3	16.7 15.0											
44.0	22.5	12.0											
48.0	19.2	9.5											
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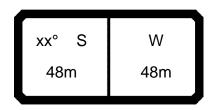
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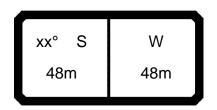
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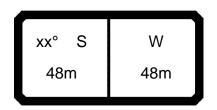
				ty	p1: D:	=28.0	mm							2	22.00
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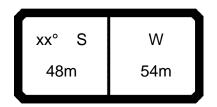
				ty	p1: D	=28.0	mm							2	2.00
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38.0 40.0	45.5	33.5													
44.0	42.5 37.0	31.0 26.6													
48.0	33.0	23.0													
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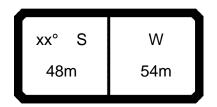
				ty	p1: D	=28.0	mm						2	2.00
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34.0	58.0													
36.0 38.0	54.0 51.0	41.5 38.5												
40.0	47.5	36.0												
44.0	42.0	31.0												
48.0	37.0	27.1												
52.0	33.5	23.8	15.4											
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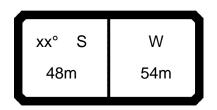
				ty	p1: D	=28.0	mm							2	22.00
THE REPORT OF THE PERSON OF TH		m	ı > < t		CO	=28.0 DE :	>08	36<				U18	31	13	29
m m	48.0	48.0	48.0												
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22.0 24.0	104.0 95.0														
26.0	87.0														
28.0	80.0														
30.0	74.0														
32.0	69.0														
34.0	64.0														
36.0	60.0	47.0													
38.0 40.0	56.0 52.0	43.5 41.0													
44.0	46.5	35.5													
48.0	41.5	31.5													
52.0	36.5	27.7	19.3												
56.0		24.6	16.6												
60.0		22.0	14.3												
64.0 68.0			12.3												
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* n *	7	3	2												
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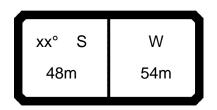
				ty	p1: D	=28.0	mm							2	2.00
→	M	m	1 > < t		CO	=28.0 DE :	>084	49<				U18	1	13	30
m	48.0	48.0	48.0												
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28.0	43.5														
30.0	39.5														
32.0	36.0														
34.0	33.0														
36.0	30.5														
38.0	27.9	16.0													
40.0 44.0	25.7 21.9	14.3													
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52.0	15.9	6.8													
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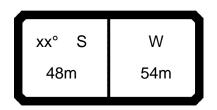
				ty	p1: D	=28.0	mm						2	2.00
THE REPORT OF THE PERSON OF TH		m	ı > < t		CO	=28.0 DE :	>084	48<			U18	1	13	30
m	48.0	48.0	48.0											
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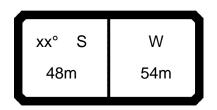
				ty	p1: D	=28.0	mm							2	2.00
→	M	m	1 > < t		CO	=28.0 DE :	>084	47<				U18	1	13	30
m	48.0	48.0	48.0												
22.0	70.0														
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28.0	53.0														
30.0	48.5														
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44.0	28.2 24.5	17.7 14.7													
52.0	21.4	12.2													
56.0	18.8	10.1													
60.0		8.2													
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							_				<u> </u>		<u> </u>		



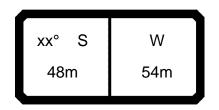
				ty	p1: D	=28.0	mm						22	.00
→	MM	m	ı > < t		CO	DE :	>084	16<			U18	31 ·	133	30
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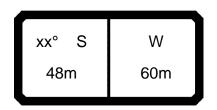
				ty	p1: D	=28.0	mm							2	2.00
THE REPORT OF THE PERSON OF TH	MM	m	1 > < t		CO	=28.0 DE :	>084	45<				U18	31	13	30
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30.0	60.0														
32.0	55.0														
34.0	51.0														
36.0	48.0	00.5													
38.0 40.0	44.5 41.5	32.5 30.0													
44.0	36.5	25.8													
48.0	32.0	22.3													
52.0	28.5	19.2													
56.0	25.4	16.6	8.8												
60.0		14.4	6.9												
64.0		12.4	5.3												
* n *	5	2	1												
xx	87.0	77.0	67.0												
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o _{0														+	
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⋓ m/s	12.8 049	12.8 056	12.8 063			-								-	
	V+3	000	000												_
		vv° (۱۸/		<u> </u>		65]	ĺ]
		xx° S		٧٧		150	=7			7					
		48m		W 54m		100	IJ≡	=	II 🐧	60°					
	JL				JL	t	JL	t	$\frac{3}{2}$	60°	JL		L		



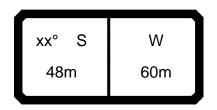
				ty	p1: D	=28.0	mm							2	2.00
H AFF		m	1 > < t		CO	=28.0 DE :	>084	44<				U18	1	13	30
m m	48.0	48.0	48.0												
22.0	94.0														
24.0 26.0	85.0 78.0														
28.0	72.0														
30.0	66.0														
32.0	61.0														
34.0 36.0	57.0														
38.0	53.0 49.5	37.5													
40.0	46.5	35.0													
44.0	41.0	30.5													
48.0	36.5	26.4													
52.0	32.5	23.1	40.0												
56.0 60.0	29.1	20.2 17.7	12.3 10.3												
64.0		15.6	8.5												
68.0			6.9												
72.0			5.5												
* n *	6	3	1												
хх	87.0	77.0	67.0												
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o -∤o															
m/s	12.8	12.8	12.8												
***	048	055	062												
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		xx° S	S	W	[≤		 _=	65		\					
		48m		W 54m		170	IJ∯		11 (<i> </i>					
		. 51			JĽ	t		t	<u>3</u>	60°	I	J	l		J
					_		_				_		_		



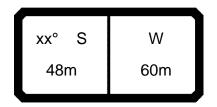
				ty	p1: D	=28.0	mm						2	2.00
H AFF		m	ı > < t		CO	=28.0 DE :	>084	43<			U18	1	13	30
m	48.0	48.0	48.0											
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24.0 26.0	93.0 85.0													
28.0	79.0													
30.0	73.0													
32.0	67.0													
34.0	63.0													
36.0 38.0	59.0 55.0	42.5												
40.0	51.0	40.0												
44.0	45.5	35.0												
48.0	40.5	30.5												
52.0	36.5	26.9												
56.0	32.5	23.8	15.9											
60.0 64.0		21.1 18.8	13.6 11.6											
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* n *	6 87.0	3 77.0	1 67.0											
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o _fo														
■ m/s	12.8	12.8	12.8											
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		48m		W 54m		190	IJ∯		11 (<i>)</i>				
		.0		J	JĽ	t		t	<u>3</u>	60°		l		
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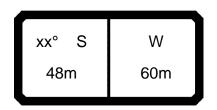
				ty	p1: D	=28.0 ı	mm							2	22.00
₩ APP		m	ı > < t		CO	DE >	>085	56<				U18	1	13	31
m l	48.0	48.0	48.0												
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28.0	40.0														
30.0	36.5														
32.0	33.5														
34.0 36.0	30.5 27.7														
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44.0	19.5	8.8													
48.0	16.4	6.5													
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0-40														+	
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		xx° S	s	W			11 _	5		_					
		xx° S		W 60m		110	IJ≢Ĩ)					
		48M		מוטס		t		t -	3	60°					
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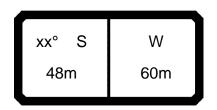
				ty	p1: D:	=28.0	mm							22	2.00
THE REPORT OF THE PERSON OF TH		m) > < t		CO	DE :	>08	55<				U18	1	13	31
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36.0	29.9														
38.0 40.0	27.5 25.2	13.7													
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						110	∐ <u>≡</u> 7			7					
		48m		60m		t		t =	3	60°					
			•				/				<u> </u>		<u> </u>		



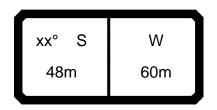
	I A 4	ı				=28.0 ı							22.00
A	MM	m	ı > < t	1	CO	DE >	>085	54<			U18	1 1	331
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28.0	49.5												
30.0	45.5												
32.0	41.5												
34.0 36.0	38.0 35.0												
38.0	32.5												+
40.0	30.0	18.5											
44.0	25.8	15.1											
48.0 52.0	22.2 19.1	12.2 9.8											+
56.0	16.5	7.7											
60.0	14.3	5.9											
64.0	12.5	4.4											
* n *	4	2	1										-
xx	87.0	77.0	67.0										
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m/s	12.8	12.8	12.8										
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		48m		60m		130	IJ ┋		(
	_/[t		t	3	60°			



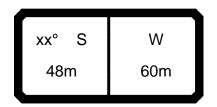
				ty	p1: D	=28.0	mm						2	2.00
→	MM	m	1 > < t		CO	=28.0 DE :	>08	53<			U18	1	13	31
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32.0	47.5													
34.0	44.0													
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38.0	37.5													
40.0	35.0	23.3												
44.0	30.0	19.5												
48.0 52.0	26.3	16.3												
56.0	22.9 20.1	13.6 11.3												
60.0	17.7	9.2												
64.0	15.7	7.5												
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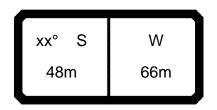
				ty	p1: D	=28.0	mm						2	2.00
→		m	1 > < t		CO	=28.0 DE :	>08	52<			U18	1	13	31
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28.0	62.0													
30.0	57.0													
32.0	52.0													
34.0	48.5													
36.0	45.0													
38.0	42.0													
40.0	39.0	27.3												
44.0	34.0	23.1												
48.0 52.0	29.7 26.1	19.7 16.7												
56.0	23.1	14.2												
60.0	20.5	12.0												
64.0	18.4	10.1												
68.0		8.5												
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⋓ m/s	049	056	12.8											
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	JL				JL	t		t	3	60°	J			
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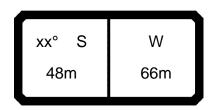
typ1: D=28.0 mm 22.00 W m > < t CODE > 0851 < U181 1331					ty	p1: D	=28.0	mm						2	2.00
24.0 81.0 26.0 74.0 28.0 28.0 68.0 30.0 63.0 32.0 58.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 55.0 26.7 17.8 56.0 26.0 26.7	THE REPORT OF THE PERSON OF TH		m	1 > < t		CO	DE :	>085	51<			U18	31	13	31
24.0 81.0 26.0 74.0 28.0 28.0 68.0 30.0 63.0 32.0 58.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 34.0 54.0 55.0 26.7 17.8 56.0 26.0 26.7	M m m	48.0	48.0	48.0											
28.0 74.0 28.0 30.0 63.0 32.0 58.0 34.0 54.0 36.0 50.0 38.0 47.0 40.0 43.5 32.0 44.0 38.5 27.6 48.0 34.0 23.8 52.0 29.9 20.5 56.0 26.7 17.8 66.0 27.0 11.5 4.5 72.0 10.0 45.5 72.0 10.0 45.5 72.0 10.0 45.5 72.0 10.0 45.5 72.0 10.0 77.0 67.0 77.0 67.0 77.0 67.0 77.0 67.0 77.0 67.0 77.0 67.0 77.0 67.0 77.0 67.0 77.0 68.0 77.0 68.0 77.0 68.0 77.0 68.0 77.0 68.0 77.0 67.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.0 66.5 77.0 77.	22.0	89.0													
28.0 68.0 30.0 63.0 32.0 58.0 32.0 58.0 32.0 58.0 32.0 58.0 32.0 58.0 32.0 59.0 38.5 27.6 44.0 38.5 27.6 48.0 34.0 23.8 52.0 29.9 20.5 56.0 26.7 17.8 66.0 23.9 15.4 7.8 64.0 21.6 13.3 6.0 56.0 72.0 10.0 45.0 72.0 10.0 45.0 72.0 10.0 72.0 10.0 72.0 10.0 72.0 10.0 72.0 10.0 72.0 72.0 10.0 72.0 72.0 72.0 10.0 72.0 72.0 72.0 72.0 72.0 72.0 72.0 7															
320 580 340 540 380 380 470 320 440 385 27.6 480 340 238 52.0 299 205 560 26.7 17.8 600 239 15.4 7.8 60.0 239 15.4 7.8 60.0 239 15.4 7.8 60.0 7.20 10.0 4.5 7.20 10.0 4.5 7.20 10.0 7.20 1															
320 58.0 340 54.0 36.0 50.0 50.0 38.0 47.0 40.0 43.5 32.0 44.0 38.5 27.6 48.0 34.0 23.8 52.0 26.7 17.8 60.0 23.9 15.4 7.8 64.0 21.8 13.3 6.0 68.0 11.5 4.5 72.0 110.0 10.0 10.0 10.0 10.0 10.0 10.0															
34.0															
38.0 47.0 43.5 32.0 44.0 38.5 27.6 48.0 34.0 23.8 52.0 29.9 20.5 56.0 26.7 17.8 64.0 21.6 13.3 6.0 68.0 11.5 4.5 72.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1															
40.0 43.5 32.0 44.0 38.5 27.6 48.0 34.0 23.8 52.0 29.9 20.5 56.0 28.7 17.8 60.0 23.9 15.4 7.8 64.0 21.6 13.3 6.0 68.0 72.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1															
440 38.5 27.6 48.0 34.0 23.8 52.0 29.9 20.5 56.0 26.7 17.8 60.0 23.9 15.4 7.8 64.0 21.6 13.3 6.0 68.0 11.5 4.5 72.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1															
n 6 2 1 xx 87.0 77.0 67.0 m/s 12.8 12.8 12.8 12.8 048 055 062															
52.0 29.9 17.8 60.0 23.9 15.4 7.8 64.0 21.6 13.3 6.0 68.0 11.5 4.5 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10															
56.0 26.7 17.8 60.0 23.9 15.4 7.8 64.0 21.6 13.3 6.0 68.0 11.5 4.5 72.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1															
60.0 23.9 15.4 7.8 60.0 64.0 21.6 13.3 6.0 68.0 11.5 4.5 72.0 110.0 7.0 10.															
64.0 21.6 13.3 6.0 68.0 11.5 4.5 72.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1				7.8											
68.0 11.5 4.5 72.0 10.0															
n 6 2 1 xx 87.0 77.0 67.0 m/s 12.8 12.8 12.8 www 048 055 062 xx° S W 48m 665	68.0														
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			48m		60m		170				<i>,</i>				
		_/\				JL	t		t	$\frac{3}{2}$	60°		L		



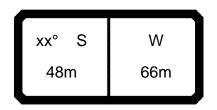
				ty	p1: D	=28.0	mm						2	2.00
→	MM	m	1 > < t		CO	=28.0 DE :	>08	>00			U18	1	13	31
E	48.0	48.0	48.0											
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28.0	75.0													
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52.0	34.0	24.3												
56.0	30.0	21.3												
60.0	27.2	18.7	11.1											
64.0	24.8	16.4	9.2											
68.0		14.5	7.5											
72.0		12.8	6.0											
76.0			4.7											
* n *	6	3	1											
xx	87.0	77.0	67.0											
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-						-								
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1 M	100	100	100											
⋓ m/s	12.8 047	12.8 054	12.8 061			-							_	
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		48m		W 60m		190		▝▀▀▋	\					
	_/L				JL	t	ノ	t	3	60°				
	_										_			_



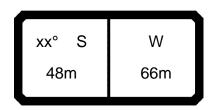
	I A 4					=28.0 r								22.01
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₽ m	48.0	48.0	48.0											
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36.0 38.0	28.9													
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44.0	20.4	9.8												
48.0	17.2	7.3												
52.0	14.4	5.2												
56.0 60.0	12.0 10.0													
64.0	8.2													+
68.0	6.6													
* n *	3	1	1											+
XX	87.0	77.0	67.0											
_														
-														
0-40 m/s	10.0	10.0	10.0											
⋓ m/s	12.8 052	12.8 059	12.8											
_		550			_							$\overline{}$	_	ightharpoonup
		xx° S	3	W				<u>25</u>	II _					
		48m		66m		110 t	IJ₽	t		60°				
_					_						_		<u> </u>	



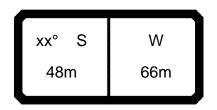
				ty	p1: D	=28.0	mm							2	2.01
H AFF		m	ı > < t		CO	=28.0 DE :	>086	>06				U18	1	13	32
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26.0 28.0	53.0 48.0														
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52.0	18.2	11.3 8.9													
56.0	15.6	6.9													
60.0	13.3	5.1													
64.0	11.3														
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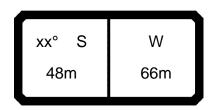
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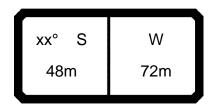
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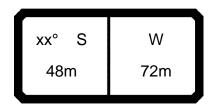
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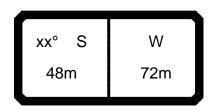
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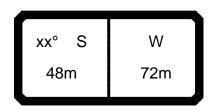
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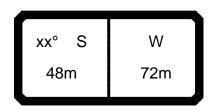
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44.0	27.2													
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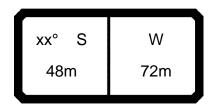


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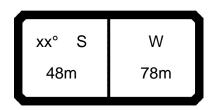
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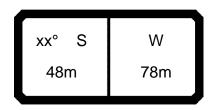


typ1: D=28.0 mm

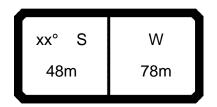
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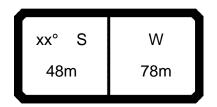
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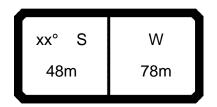
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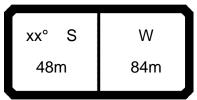
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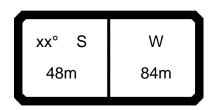
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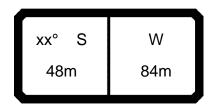


typ1: D=28.0 mm 22.00 CODE >0877< U181 1335 m > < t48.0 48.0 42.0 30.0 38.0 32.0 35.0 34.0 32.0 36.0 29.0 38.0 26.5 40.0 24.2 44.0 20.2 48.0 16.8 52.0 13.9 56.0 11.3 60.0 9.1 64.0 7.2 68.0 5.4 3 1 ХX 77.0 0-40 m/s 12.8 12.8 051 xx° S 84m 48m

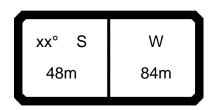


typ1: D=28.0 mm

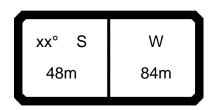
				typ	o1: D=	=28.0	mm						2	2.00
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38.0	31.5													
40.0	28.8													
44.0	24.5													
48.0	20.7													
52.0	17.6	8.0												
56.0	14.8	5.8												
60.0 64.0	12.4													
68.0	10.2 8.3													
72.0	6.6													
76.0	5.1													
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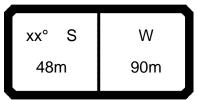
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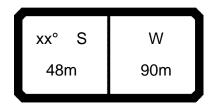
				typ1	: D=	28.0 ı	mm							2	2.00
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60.0 64.0	18.3	9.8													
68.0	15.8 13.6	7.8 6.0													
72.0	11.7	4.4													
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60.0	24.5	13.0												
64.0	18.9	10.8												
68.0	16.5	8.9												
72.0	14.4	7.1												
76.0	12.6	5.6												
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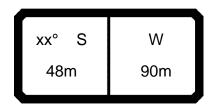


typ1: D=28.0 mm 22.00 CODE >0882< U181 1336 m > < t48.0 48.0 36.5 32.0 33.0 34.0 30.0 36.0 27.3 38.0 24.8 40.0 22.6 44.0 18.7 48.0 15.3 52.0 12.4 56.0 9.9 60.0 7.7 64.0 5.8 68.0 4.1 3 1 ХX 77.0 0-40 m/s 12.8 12.8 051 xx° S 90m 48m

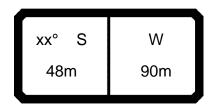


22.00 typ1: D=28.0 mm

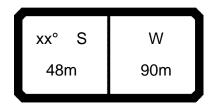
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44.0	22.9												
48.0	19.2												
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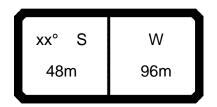


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38.0	38.5												
40.0 44.0	35.5 30.5												
48.0	26.4												
52.0	22.7												
56.0	19.6	10.6											
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68.0	12.2	4.6											
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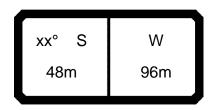


typ1: D=28.0 mm

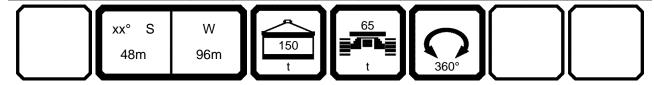
typ1: D=28.0 mm 22.00					typ1: D	=28.0	mm						22.00
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64.0 17.4 9.3 68.0 15.1 7.4 72.0 15.1 13.0 5.7 76.0 11.1 4.1 8.0 9.5 84.0 8.0 6.6 92.0 5.5 8.0 92.0 5.5 8.0 92.0 15.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0													
68.0 15.1 7.4 7.0 13.0 5.7 76.0 11.1 4.1 80.0 9.5 84.0 8.0 88.0 6.6 92.0 5.5 92.0 15.5													
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84.0 8.0 8.6 8.0 92.0 5.5			7.1										
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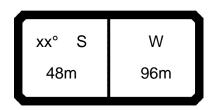


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56.0	11.6													
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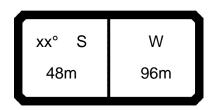


typ1: D=28.0 mm 22.00 CODE >0885< U181 1337 m > < t48.0 48.0 41.0 34.0 37.5 36.0 34.5 38.0 31.5 40.0 29.0 44.0 24.4 48.0 20.6 52.0 17.3 56.0 14.4 11.9 60.0 64.0 9.6 68.0 7.6 72.0 5.9 76.0 4.3

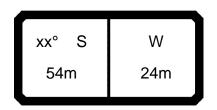




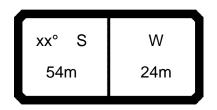
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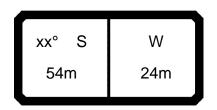
				typ1: D)=28.0	mm						2	2.00
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M m	48.0	48.0											
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38.0	41.0												
40.0	38.0												
44.0 48.0	33.0 28.3												
52.0	24.5												
56.0	21.2	12.0											
60.0	18.2	9.6											
64.0 68.0	15.6 13.3	7.5 5.6											
72.0	11.3	3.0											
76.0	9.4												
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34.0		39.5													
36.0		36.5													
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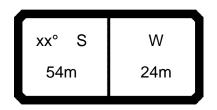


				ty	p1: D	=28.0	mm							2	22.00
→		m	> < t		CO	DE :	>088	39<				U18	31	14	25
m 14.0	54.0	54.0	54.0												
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16.0 18.0	135.0 120.0														
20.0	107.0														
22.0	97.0														
24.0 26.0	88.0 81.0														
28.0	75.0	57.0													
30.0		52.0													
32.0		48.0													
34.0 36.0		44.5 41.5													
38.0		38.5													
40.0			24.6												
44.0			20.9												
* n *	10	4	2												
xx	87.0	77.0	67.0												
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														\dashv	
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0															
■ m/s	12.8	12.8	12.8											_	
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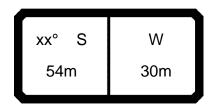


typ1: D=28.0 mm

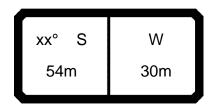
				ty	p1: D	=28.0	mm							2	22.00
THE REPORT OF THE PERSON OF TH		m	ı > < t		CO	=28.0 DE :	>088	>88				U18	1	14	25
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1															
16.0 18.0	147.0 131.0														
20.0	117.0														
22.0	106.0														
24.0 26.0	97.0 89.0														
28.0	82.0	64.0													
30.0		59.0													
32.0		55.0													
34.0 36.0		51.0 47.0													
38.0		44.0													
40.0			29.7												
44.0			25.6												
* n *	10	4	2												
XX	87.0	77.0	67.0												
_															
														\dashv	
														\dashv	
0															
■ m/s	12.8	12.8	12.8											_	
	048	055	062						_						_
		xx° S		۱۸/		^		65				1]
				W 24m		170	∐ ≡7			つ					
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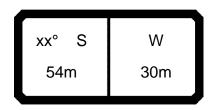
				ty	p1: D	=28.0	mm						2	2.00
→		m	> < t			DE :		37<			U18	1	14	-25
m 14.0	54.0	54.0	54.0											
1														
16.0 18.0	159.0 142.0													
20.0	127.0													
22.0 24.0	115.0 105.0													
26.0	97.0													
28.0	89.0	71.0												
30.0		66.0												
32.0 34.0		61.0 57.0												
36.0		53.0												
38.0 40.0		49.5	05.0											
44.0			35.0 30.0											
* n *	11	5	2											
хх	87.0	77.0	67.0											
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0-10														
m/s	12.8	12.8	12.8											
***	047	054	061											
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		xx° S	3	W 24m		400		65		\				
		54m		24m		190	IJ≌ť	▝▀▀▋						
	_/[JL	t		t	3	60°				



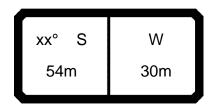
				ty	p1: D	=28.0 ı	mm							2	22.00
H AF		m	ı > < t			DE >		95<				U18	31	14	-26
m m	54.0	54.0	54.0												
16.0	109.0														
18.0 20.0	96.0 86.0														
22.0	77.0														
24.0 26.0	70.0 64.0														
28.0	59.0														
30.0	54.0	37.5													
32.0 34.0	50.0	34.5													
36.0	46.5	31.5 28.9													
38.0		26.6													
40.0 44.0		24.5	10.5												
48.0		20.8	10.5 8.1												
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0-10															
■ m/s	12.8 051	12.8 058	12.8 065											_	
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		54m		30m		t		t =	3	60°					
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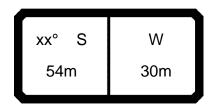
	typ1: D=28.0 mm											22.00				
→	MM	m	> < t		CO	DE >	>089	94<				U18	81	14	-26	
m m	54.0	54.0	54.0													
16.0	121.0															
18.0 20.0	107.0 96.0															
22.0	86.0															
24.0	78.0															
26.0 28.0	72.0 66.0															
30.0	61.0	44.0														
32.0	56.0	40.5														
34.0 36.0	52.0	37.5														
38.0		34.5 32.0														
40.0		29.6														
44.0		25.5	15.1													
48.0 52.0			12.4 10.1													
02.0			10.1													
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xx	87.0	77.0	67.0													
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o _{40																
■ m/s	12.8	12.8	12.8													
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		54m		30m		100		·ੵ ▀ ≣│		60°						
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	typ1: D=28.0 mm											22.00				
→	MM	m	ı > < t		CO	DE :	>089	93<				U18	31	14	126	
m m	54.0	54.0	54.0													
16.0	130.0															
18.0 20.0	116.0 104.0															
22.0	94.0															
24.0	85.0															
26.0 28.0	78.0 72.0															
30.0	66.0	49.5														
32.0 34.0	62.0	45.5														
36.0	57.0	42.0 39.0														
38.0		36.5														
40.0 44.0		34.0 29.4	10.0													
48.0		29.4	18.9 15.9													
52.0			13.4													
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	07.0	77.0	07.0													
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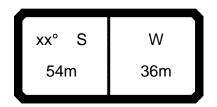


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18.0 20.0	126.0 113.0														
22.0	102.0														
24.0	93.0														
26.0	86.0														
28.0	79.0	500													
30.0 32.0	73.0 68.0	56.0 52.0													
34.0	63.0	48.0													
36.0	00.0	44.5													
38.0		41.5													
40.0		39.0													
44.0		34.0	23.5												
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XX	87.0	77.0	67.0												
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⋓ m/s	12.8	12.8	12.8												
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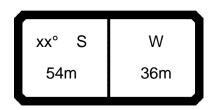
typ1: D=28.0 mm

			22.00												
→	MM	m	1 > < t		CO	=28.0 DE :	>089	91<				U18	31	14	26
m	54.0	54.0	54.0												
10.0	154.0														
18.0 20.0	137.0 123.0														
22.0	111.0														
24.0	101.0														
26.0	93.0														
28.0 30.0	86.0 80.0	63.0													
32.0	74.0	58.0													
34.0	69.0	54.0													
36.0		50.0													
38.0		47.0													
40.0 44.0		44.0 39.0	28.0												
48.0		33.0	24.4												
52.0			21.3												
* n *	10	4	2												
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⋓ m/s	12.8 047	12.8 054	12.8 061											\dashv	
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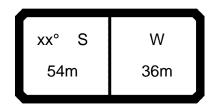


typ1: D=28.0 mm

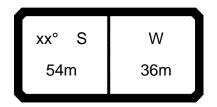
				ty	p1: D	=28.0	mm							22	2.00
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E	54.0	54.0	54.0												
18.0	83.0														
20.0	74.0 66.0														
24.0	60.0														
26.0	54.0														
28.0	49.5														
30.0	45.5														
32.0	42.0	26.3													
34.0 36.0	38.5	23.9													
38.0	35.5 33.0	21.7 19.7													
40.0	31.0	17.9													
44.0		14.8													
48.0		12.1													
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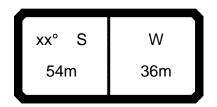
	typ1: D=28.0 mm CODE >0900<											22.00				
THE REPORT OF THE PERSON OF TH		m	> < t		CO	DE :	>090	>00				U18	31	14	27	
m	54.0	54.0	54.0													
18.0	93.0															
20.0	83.0 75.0															
24.0	68.0															
26.0	62.0															
28.0	57.0															
30.0 32.0	52.0 48.0	32.5														
34.0	44.5	29.7														
36.0	41.5	27.2														
38.0	38.5	24.9														
40.0	36.0	22.9														
44.0 48.0		19.3 16.4	6.6													
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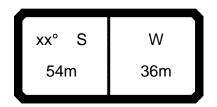
| typ1: D=28.0 mm The color 427 |
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| 18.0 103.0
20.0 92.0
22.0 83.0
24.0 76.0
26.0 69.0
28.0 64.0
30.0 59.0
32.0 54.0 38.5
34.0 50.0 35.5 | |
| 20.0 92.0 22.0 83.0 24.0 76.0 26.0 69.0 28.0 64.0 30.0 59.0 32.0 54.0 35.5 | |
| 22.0 83.0 24.0 76.0 26.0 69.0 28.0 64.0 30.0 59.0 32.0 54.0 38.5 34.0 50.0 35.5 | |
| 24.0 76.0 26.0 69.0 28.0 64.0 30.0 59.0 32.0 54.0 38.5 34.0 50.0 35.5 | |
| 28.0 64.0 30.0 59.0 32.0 54.0 38.5 34.0 50.0 35.5 | |
| 30.0 59.0
32.0 54.0 38.5
34.0 50.0 35.5 | l i |
| 32.0 54.0 38.5 34.0 50.0 35.5 | |
| 34.0 50.0 35.5 | |
| 36.0 47.0 32.5 | |
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| 38.0 44.0 30.0
40.0 41.0 27.9 | |
| 44.0 23.9 | |
| 48.0 20.6 10.7 | |
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| m/s 12.8 12.8 12.8 | |
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		m	> < t		CO	DE >	>089	>86			U18	1 1	427
m M	54.0	54.0	54.0										
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20.0	100.0 91.0												
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26.0	75.0												
28.0	69.0												
30.0 32.0	64.0 59.0	43.5											
34.0	55.0	40.0											+
36.0	51.0	37.0											
38.0	48.0	34.5											
40.0	45.5	32.0											
44.0 48.0		27.7 24.1	14.2										
52.0		27.1	11.8										_
56.0			9.7										
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хх	87.0	77.0	67.0										
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0-40	40.0	40.0	40.0										
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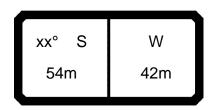


				ty	p1: D	=28.0	mm							22.00
H APP	MM	m	> < t		CO	DE :	>089	97<				U18	31 1	427
m m	54.0	54.0	54.0											
18.0	122.0													
20.0	110.0													
22.0 24.0	99.0 90.0													
26.0	83.0													
28.0	76.0													
30.0	71.0													
32.0	66.0	49.5												
34.0	61.0	46.0												
36.0	57.0	42.5												
38.0	54.0	39.5												
40.0 44.0	50.0	37.0												+
48.0		32.5 28.4	18.4											
52.0		20.4	15.7											
56.0			13.4											
														_
														+
* n *	8	3	2											1
XX	87.0	77.0	67.0											
														+
														+
o _{40														
m/s	12.8	12.8	12.8											
***	048	055	062											
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		xx° S	3 	W				65	II _	_				
						170				3				
		54m		36m		t		_ =		60°				
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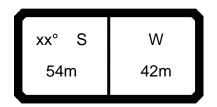


typ1: D=28.0 mm

				ty	p1: D	=28.0	mm							2	2.00
H AFF		m	> < t		CO	=28.0 DE :	>089	96<				U18	31	14	27
m 18.0	54.0	54.0	54.0												
20.0	119.0 108.0														
24.0	98.0														
26.0	90.0														
28.0	83.0														
30.0	77.0														
32.0 34.0	72.0	56.0													
36.0	67.0 63.0	52.0 48.0													
38.0	59.0	45.0													
40.0	55.0	42.0													
44.0		37.0													
48.0		32.5	22.6												
52.0 56.0			19.6 17.0												
30.0			17.0												
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* n *	8 87.0	4 77.0	2 67.0												
	07.0	77.0	07.0												
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0															
⋓ m/s	12.8	12.8	12.8												
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		54m		W 36m		190	IJ≝⁴		II٤	<i> </i>					
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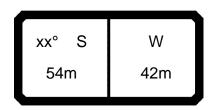


				ty	p1: D	=28.0	mm							2	2.00
₩ APP		m	ı > < t		CO	DE :	>090)7<				U18	1	14	28
m l	54.0	54.0	54.0												
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24.0	58.0														
26.0 28.0	52.0 47.5														
30.0	47.5														
32.0	40.0														
34.0 36.0	37.0 34.0	20.0													
38.0	31.5	18.1													
40.0	29.3	16.4													
44.0 48.0	25.4	13.4 10.9													
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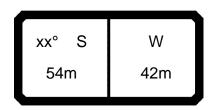
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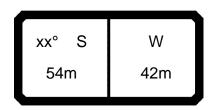


typ1: D=28.0 mm

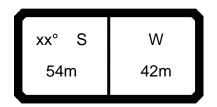
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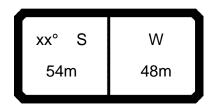


typ1: D=28.0 mm 22.00 S4.0					ty	p1: D	=28.0	mm							2	2.00
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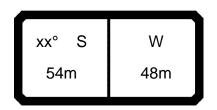


typ1: D=28.0 mm

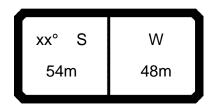
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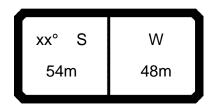
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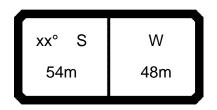


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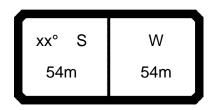


typ1: D=28.0 mm

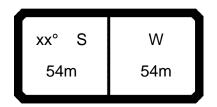
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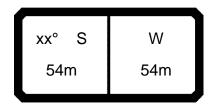
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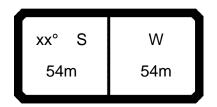
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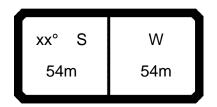


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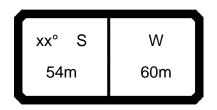


typ1: D=28.0 mm

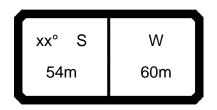
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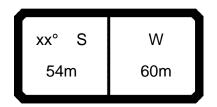
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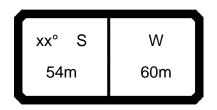
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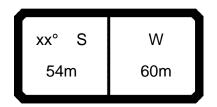
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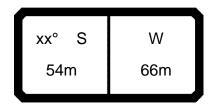
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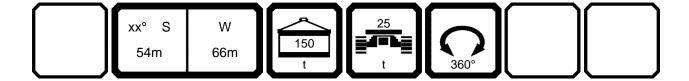
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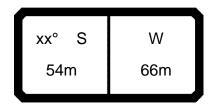
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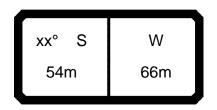


typ1: D=28.0 mm 22.00 CODE >0926< U181 1432 m > < t54.0 54.0 63.0 26.0 57.0 28.0 52.0 30.0 48.0 32.0 44.0 34.0 40.5 36.0 37.5 38.0 35.0 40.0 32.0 15.5 44.0 27.8 48.0 24.0 12.6 52.0 20.8 10.1 56.0 18.0 8.0 60.0 15.6 6.1 64.0 13.5 68.0 11.7 4 1 ХX 77.0

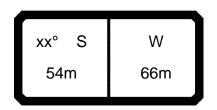




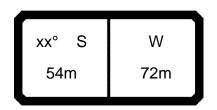
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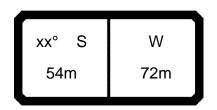
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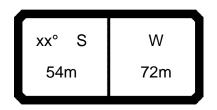
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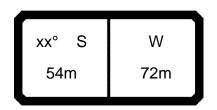
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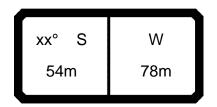
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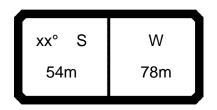
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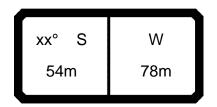
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44.0	38.0											
48.0	33.5	21.8										
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60.0 64.0	23.0 20.4	13.4 11.3										
68.0	18.2	9.4										
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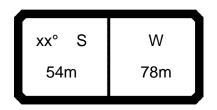
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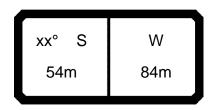
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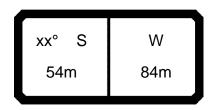
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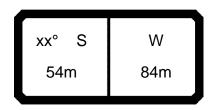
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68.0	16.7	7.9											
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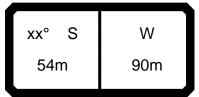
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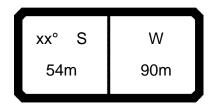
				typ1: D	=28.0	mm							22.00
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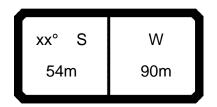
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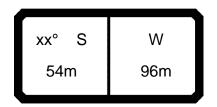


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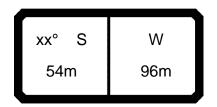


typ1: D=28.0 mm

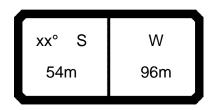
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340 480 360 445 380 415 400 385 440 335 480 289 520 252 560 219 115 600 190 92 640 164 7.2 680 142 5.4 720 12.1 750 10.3 800 8.7 840 7.2 880 5.9 92.0 4.8 *** *** *** *** *** *** ***	30.0	55.0											
38.0 44.5 38.0 41.5 40.0 38.5 44.0 38.5 44.0 38.5 48.0 28.9 52.0 25.2 56.0 21.9 11.5 60.0 19.0 9.2 68.0 14.2 5.4 72.0 12.1 76.0 10.3 80.0 8.7 80.0 80.0													
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52.0 25.2 56.0 21.9 11.5 60.0 19.0 9.2 64.0 16.4 7.2 68.0 14.2 5.4 72.0 12.1 76.0 10.3 80.0 8.7 84.0 7.2 9.8 8.0 5.9 92.0 4.8													
56.0 21.9 11.5 60.0 19.0 9.2 64.0 16.4 7.2 68.0 14.2 5.4 7.2 7.2 12.1 76.0 10.3 80.0 8.7 84.0 7.2 88.0 5.9 92.0 4.8													
60.0 19.0 9.2 68.0 14.2 5.4 7.2 68.0 14.2 5.4 7.2 76.0 10.3 80.0 8.7 84.0 7.2 88.0 5.9 92.0 4.8 72.0 12.1													
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52.0	16.1												
56.0	13.3												
60.0 64.0	10.8												
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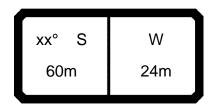


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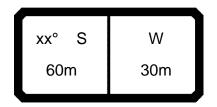


typ1: D=28.0 mm

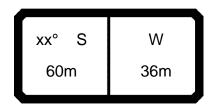
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60.0	17.2	7.3											
64.0	14.6	5.3											
68.0	12.4												
72.0	10.4												
76.0	8.6												
80.0 84.0	7.0 5.5												
88.0	4.2												
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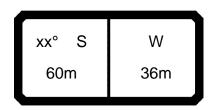
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				W 24m		190	 <u>≡</u> 7			7					
		60m		24m		t		, =	3	60°					
					-	•	_						<u> </u>		



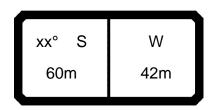
, . <u>*</u>						=28.0								22.01
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26.0	90.0													
28.0 30.0	83.0 77.0													
32.0	72.0	54.0												
34.0 36.0	67.0	50.0 46.5												
38.0		43.0												
40.0 44.0		40.5 35.5												
48.0		33.3	20.3											
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	_/\					t		t	3	60°	<u> </u>		<u></u>	



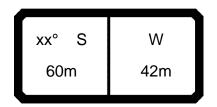
				ty	p1: D	=28.0	mm							22.01
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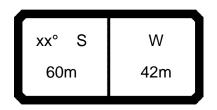
				ty	p1: D	=28.0	mm						22.01
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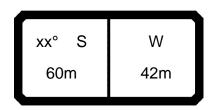
				ty	p1: D:	=28.0	mm							22	2.01
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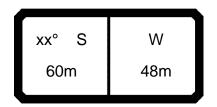
				ty	p1: D	=28.0	mm							22	2.01
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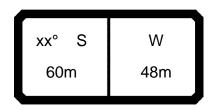
				ty	p1: D	=28.0	mm						2	2.01
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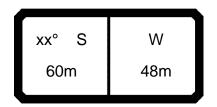
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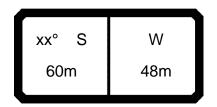
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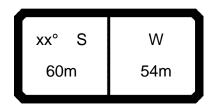
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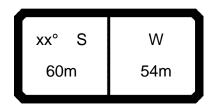
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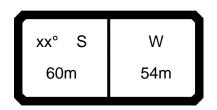
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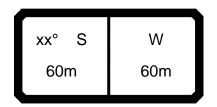
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22.0 79.0 24.0 77.0 26.0 66.0 28.0 60.0 30.0 55.0 32.0 51.0 33.0 44.0 33.0 44.0 33.0 44.0 33.0 14.0 40.0 33.5 19.8 43.0 29.4 16.7 52.0 25.9 14.0 56.0 23.0 11.8 60.0 9.8 64.0 8.0 68.0 6.6	HAR PAR	M_{M}	m	ı > < t		CO	DE :	>095	>8ō			U18	1 1	1530
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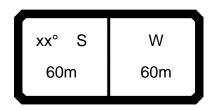
				ty	p1: D	=28.0	mm						22.01
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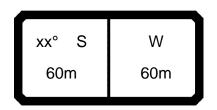
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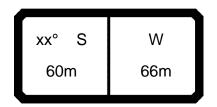
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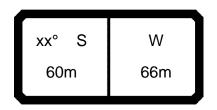
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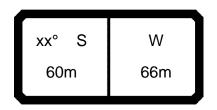
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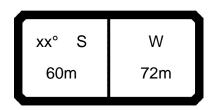
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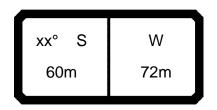
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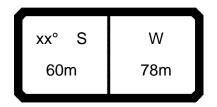
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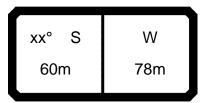
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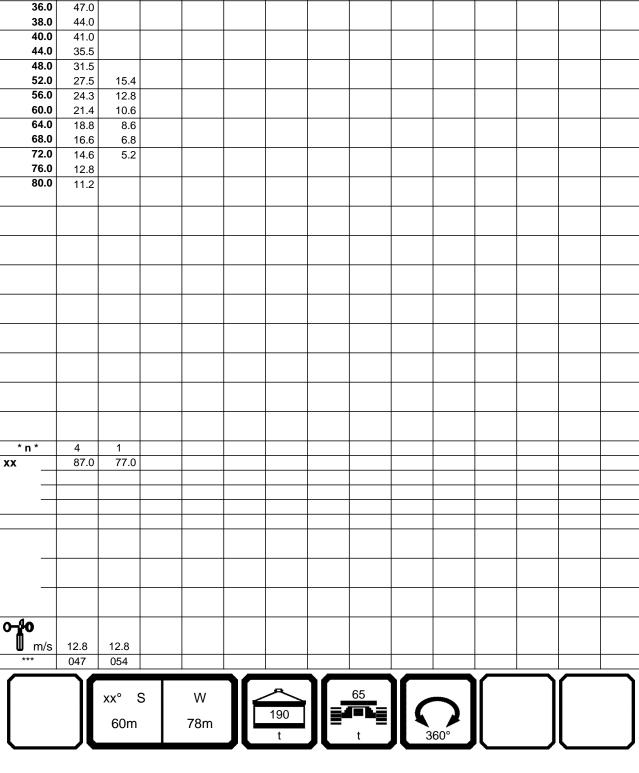
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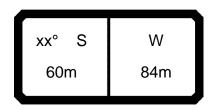


typ1: D=28.0 mm

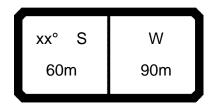
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22.01 U181 1534

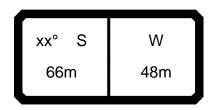




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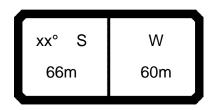
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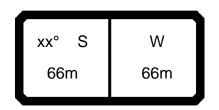
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