



Where Strategy Takes Shape

Complete Formwork Solutions  
الحلول الكاملة لقوالب الصب



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## GHI H20 Timber Beam

The GHI H20 timber beam is characterized by its solid full-depth web panels. It is easy to handle, dimensionally very stable and is designed and manufactured for a longer service life. Whether for slabs or for walls, in residential or industrial construction or even when special solutions are required, it is always up to the mark thanks to its quality and functionality.

The GHI H20 timber beam is manufactured out of high quality solid timber in Germany under strict European standards. The beam has been given structural certification and its quality is subjected to continuous monitoring by qualified institutes. Available in nine standard lengths, a GHI H20 timber beam is light (only 5 kg per LM) and functional.

Its main qualities are as follows:

- 1. Solid flanges**
  - High quality solid timber
  - Highly stable
  - Nail fixing and retrieval is easy
  - Safe support for shuttering panels
- 2. Rounded beam ends**
  - Minimizes damage
  - Reduces wear and tear
  - Longer service life
- 3. Strong dovetail connection**
  - High-quality bonding
  - Accurate fit
  - High load-bearing capacity
- 4. Solid bar**
  - 3-layered, crosswise-bonded, solid wood panels
  - Best form stability
  - Durable
  - High load-bearing capacity



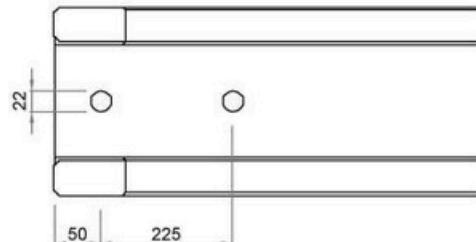
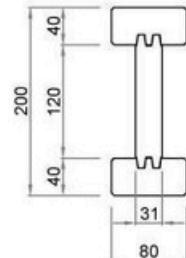
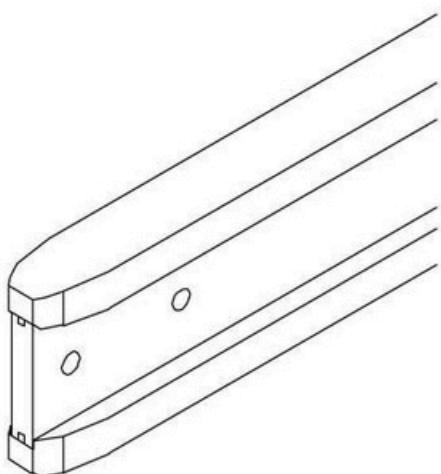
## System GHI - Timber Beams

### H-20 Beams

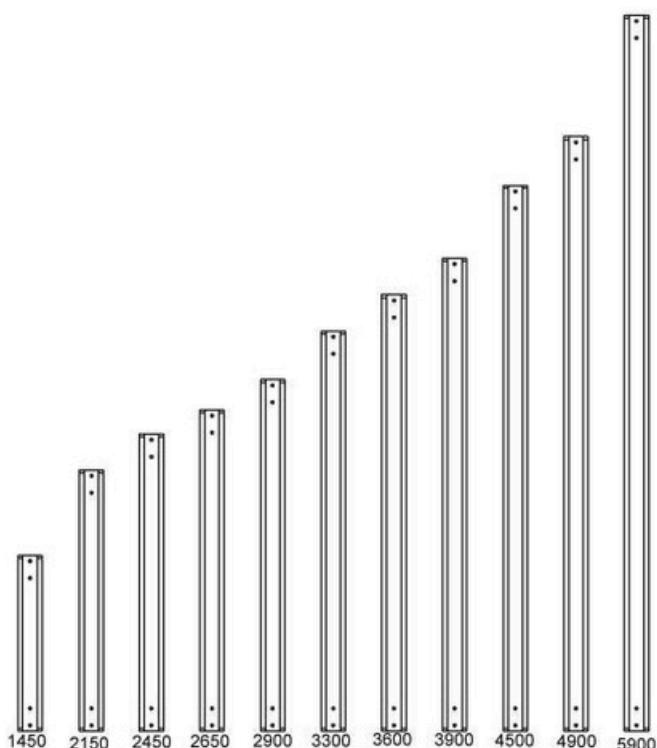
perm. Q = 11.0kN

perm. M = 5.0kNm

$I_y=4290\text{cm}^4$



- 74990
- 74905
- 74910
- 74890
- 74920
- 74930
- 74940
- 74950
- 74960
- 74970
- 74980



Stock Code	Stock Description	Weight	SQM	Unit	Sale Only
74990	Beam H-20 l=1.45M	8.60			
74905	Beam H-20 l=2.15M	12.70			
74910	Beam H-20 l=2.45M	14.50			
74890	Beam H-20 l=2.65M	15.60			
74920	Beam H-20 l=2.90M	17.10			
74930	Beam H-20 l=3.30M	19.50			
74940	Beam H-20 l=3.60M	21.20			
74950	Beam H-20 l=3.90M	23.00			
74960	Beam H-20 l=4.50M	26.70			
74970	Beam H-20 l=4.90M	28.90			
74980	Beam H-20 l=5.90M	34.80			

**GHI TriTec® Panel Wall Formwork System**

Forming made fast and simple with APC for all types of sites

**At a glance**

- **Adapts flexible to any wall geometry**
- **Fast due to pre-assembled panels with built-in plywood**
- **Strong with 80 kN fresh concrete pressure per m<sup>2</sup> allowed**
- **Economical due to longer service life and fewer parts**
- **Hire option given in selected regions**
- **Safe system engineered in Germany system secure investment**
- **100% compatibility with leading German Standard**

GHI TriTec® is a panel-based wall formwork system with built-in plywood for casting walls or vertical geometries of any structure. Panels are available in four standard heights; at each height, there are six standard widths. These are assembled to cast any wall height and length quickly and safely. Solutions are also available for stepped or slanted walls at different heights, offset walls, length adjustments, core walls, single sided walls and corners.

Each panel is made of closed steel frame that rigidly encases the 18mm thick European plywood. This plywood can last up to 80 re-uses if cleaned regularly. The steel frames are powder-coated (in any colour of choice) for easier maintenance. On demand, it can also be hot dip galvanised to protect it completely from corrosion.

In this system, panels are aligned and fastened with a single hammer stroke using only one device – the APC (Aligning Panel Clamp). Length adjustments and rigidity of inter-panel connections are achieved through the use of Compensation Waler TTR85. The other components are Push Pull Strut PPS, Lifting Hooks, Concreting Platforms and Tie Rods.

In line with GHI's principle of providing practical formwork solutions, TriTec® panel wall formwork system is simple and fast to erect. The system uses fewer parts compared to traditional solutions. As a result, the search (for a component) is minimized, interim storage is simplified and losses are reduced.

All the main elements and accessories required to assemble a TriTec® panel wall formwork system are developed, manufactured and tested according to German guidelines.

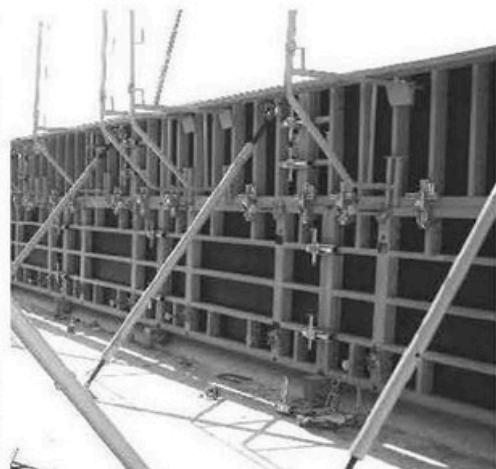
**Standard Sizes:**

**TriTec® Panel 330** – 330 cm high x 6 widths (240 cm, 120 cm, 90 cm, 72 cm, 60 cm, 30 cm)

**TriTec® Panel 270** – 270 cm high x 6 widths (240 cm, 120 cm, 90 cm, 72 cm, 60 cm, 30 cm)

**TriTec® Panel 120** – 120 cm high x 6 widths (240 cm, 120 cm, 90 cm, 72 cm, 60 cm, 30 cm)

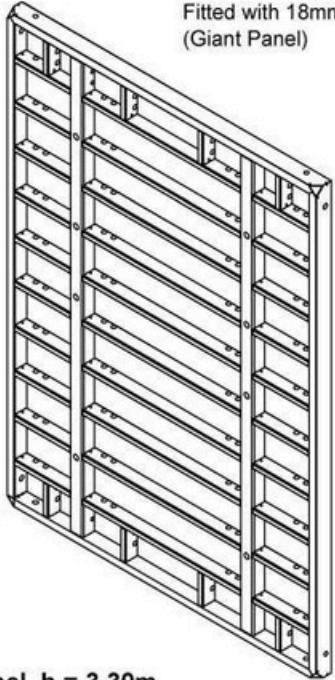
**TriTec® Panel 60** – 60 cm high x 6 widths (240 cm, 120 cm, 90 cm, 72 cm, 60 cm, 30 cm)



## System GHI - TriTec: Panels

**Panel h = 3,30m**

Fitted with 18mm birchply formlining.  
(Giant Panel)

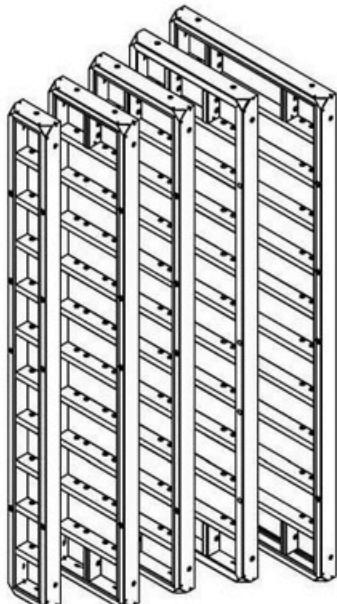
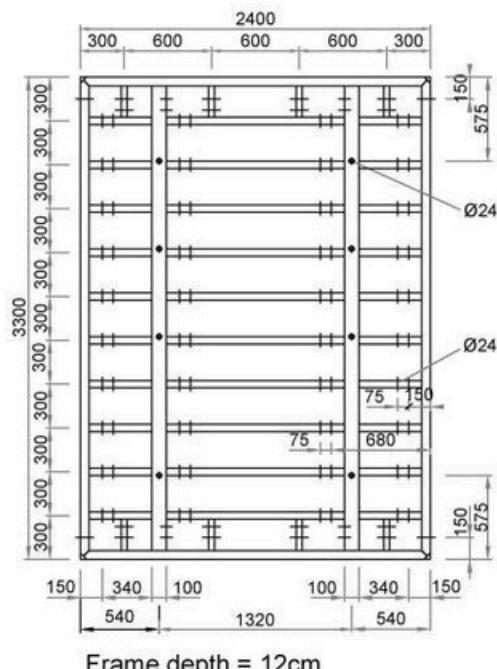


330x240

54304

**Panel h = 3,30m**

Fitted with 18mm birchply formlining.



330x120

54314

330x90

54324

330x72

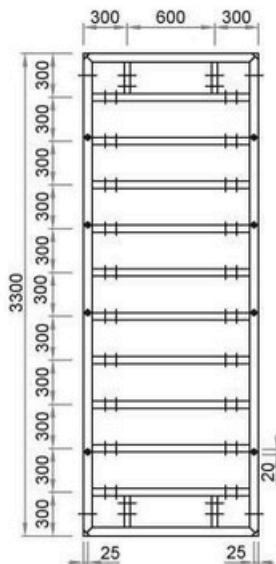
54334

330x60

54354

330x30

54364

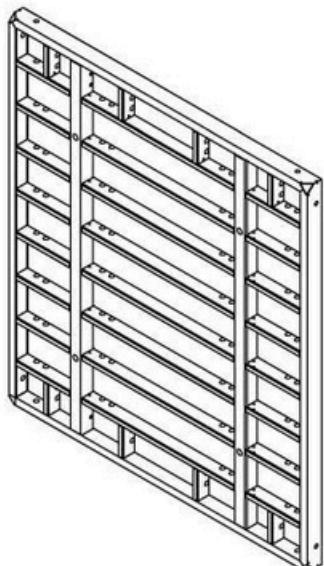


Stock Code	Stock Description			Weight	Sqm	Unit	Sale Only
54304	Panel	TT	330 x 240	375	7,92m <sub>2</sub>		
54314	Panel	TT	330 x 120	179	3,96m <sub>2</sub>		
54324	Panel	TT	330 x 90	137	2,97m <sub>2</sub>		
54334	Panel	TT	330 x 72	116	2,38m <sub>2</sub>		
54354	Panel	TT	330 x 60	105	1,98m <sub>2</sub>		
54364	Panel	TT	330 x 30	72	0,99m <sub>2</sub>		

## **System GHI - TriTec: Panels**

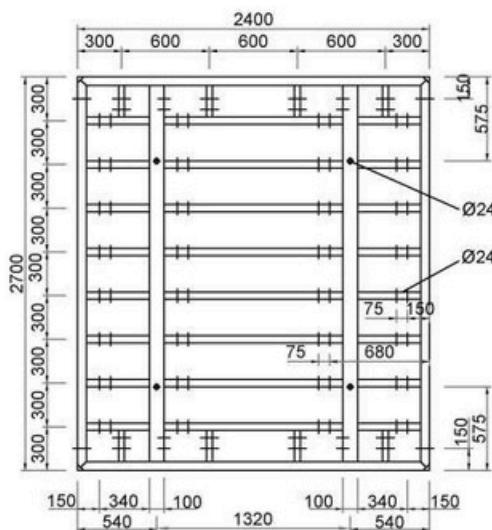
**Panel h = 2,70m**

Fitted with 18mm birchply formlining.  
(Giant Panel)



270x240

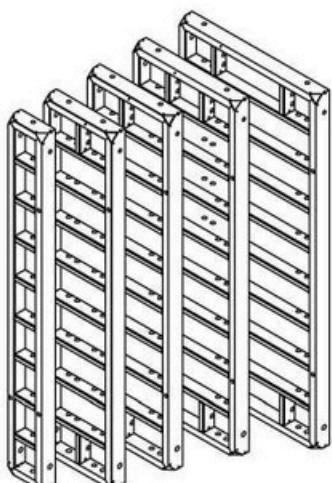
22570



Panel h = 2,70m

Fitted with 18mm birchply formlining.

Frame depth = 12cm



270x120

22510

270x90

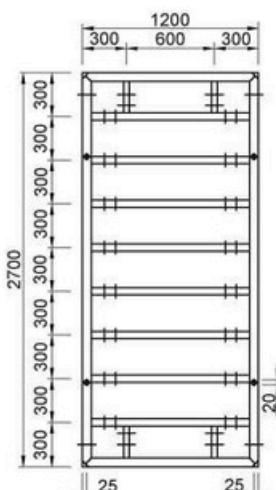
22520

270x72

22530

270x60

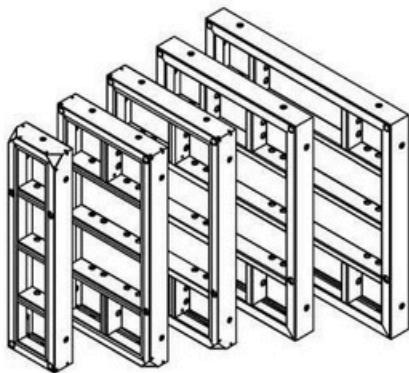
22550



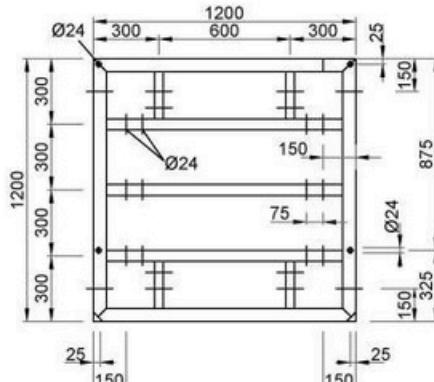
## **System GHI - TriTec: Panels**

### Panels h = 1,20m

Fitted with 18mm birchply formlining.

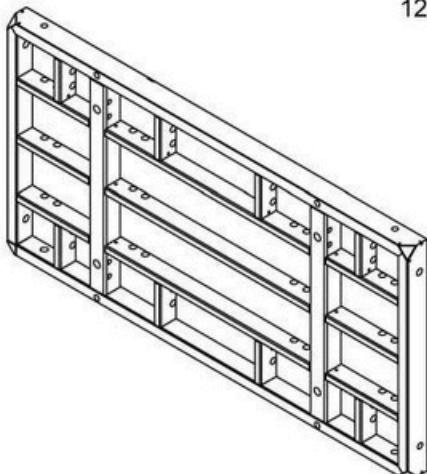


120x120	<b>22600</b>
120x90	<b>22610</b>
120x72	<b>22620</b>
120x60	<b>22640</b>
120x30	<b>22650</b>

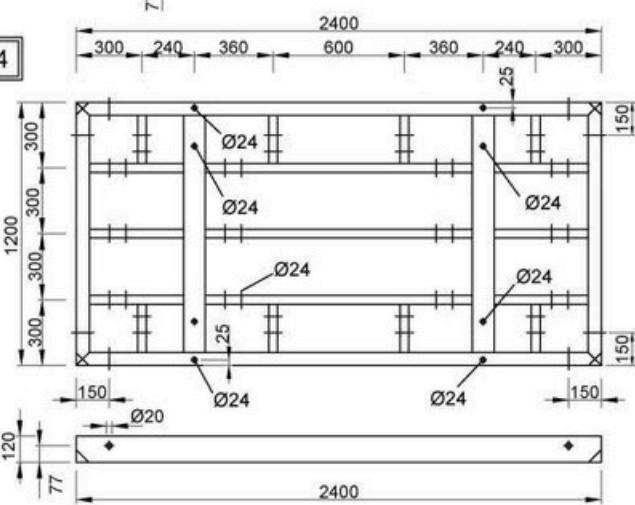


Panel h = 1,20m

Fitted with 18mm birchply formlining.

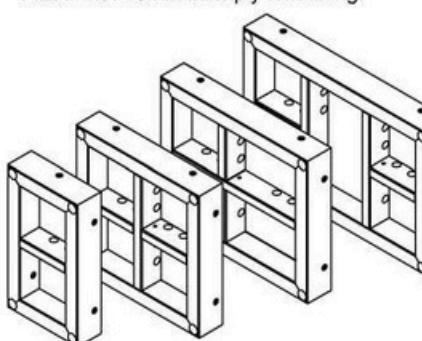


120x240 22514

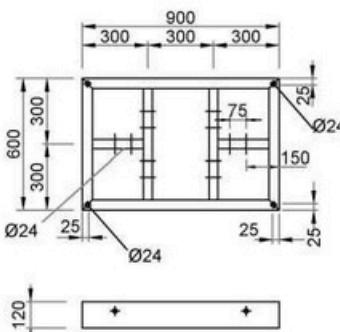


Panels h = 0,60m

Fitted with 18mm birchply formlining.



60x90	22790
60x72	22800
60x60	22810
60x30	22820



Stock Code	Stock Description			Weight	Sqm	Unit	Sale Only
22600	Panel	TT	120 x 120	68	1,44m <sub>2</sub>		
22610	Panel	TT	120 x 90	53	1,08m <sub>2</sub>		
22620	Panel	TT	120 x 72	44	0,86m <sub>2</sub>		
22640	Panel	TT	120 x 60	40	0,72m <sub>2</sub>		
22650	Panel	TT	120 x 30	25	0,36m <sub>2</sub>		
22514	Panel	TT	120 x 240	160	2,88m <sub>2</sub>		
22790	Panel	TT	60 x 90	31	0,54m <sub>2</sub>		
22800	Panel	TT	60 x 72	26	0,43m <sub>2</sub>		
22810	Panel	TT	60 x 60	24	0,36m <sub>2</sub>		
22820	Panel	TT	60 x 30	15	0,18m <sub>2</sub>		

## System GHI - TriTec: Multi Panels

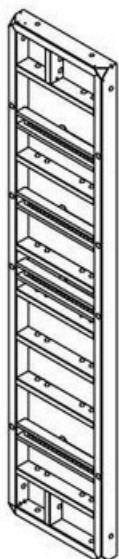
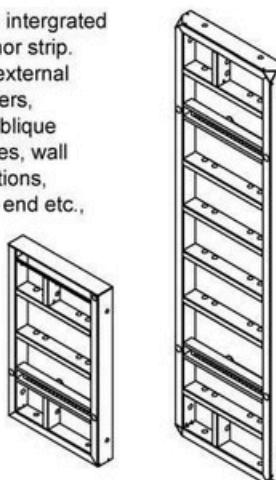
### Multi Panels

Panel H= 1,20/2,70/3,30 m

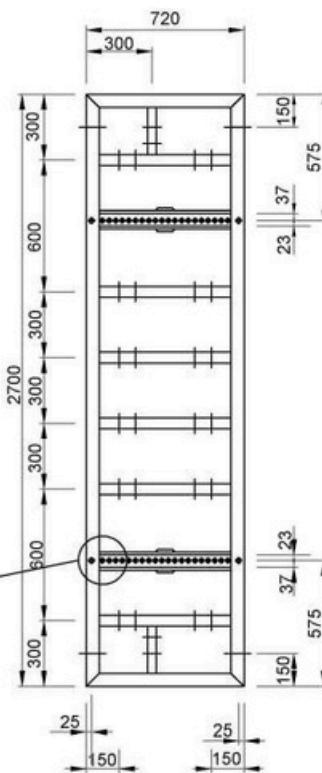
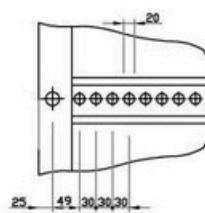
Filled with 18 mm circle ply

Complete with:  
sealing plug 20/24

With integrated anchor strip.  
For external corners,  
for oblique angles, wall junctions,  
stop end etc.,



- |       |         |
|-------|---------|
| 54344 | h=3,30m |
| 22540 | h=2,70m |
| 22630 | h=1,20m |



### TriTec Shaft Panels

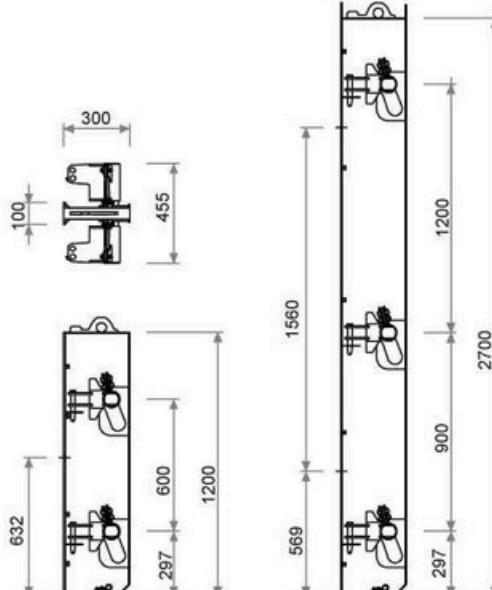
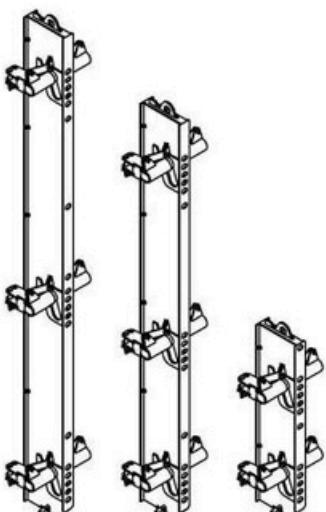
Panel h = 3,30/2.70m/1.20m

Easy and fast striking by lifting complete internal shaft formwork as a single unit. Load-bearing point  
Permissible load: 2,000kg.

h = 3,30m 105525

h = 2,70m 105523

h = 1,20m 105524

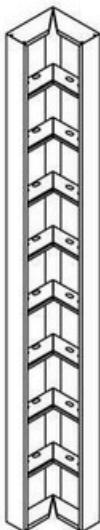
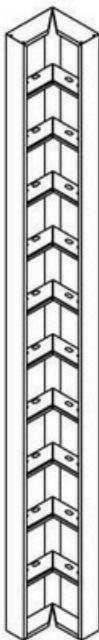


Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
54344	Multi Panel TTM 330 x 72	141	2,38m <sub>l</sub>		
22540	Multi Panel TTM 270 x 72	107	1,94m <sub>l</sub>		
22630	Multi Panel TTM 120 x 72	52	0,86m <sub>l</sub>		
105525	Shaft Panel TTE 3,30m	140	0,33m <sub>l</sub>		
105523	Shaft Panel TTE 2,70m	126	0,27m <sub>l</sub>		
105524	Shaft Panel TTE 1,20m	72	0,12m <sub>l</sub>		

## System GHI - TriTec: Corner Panels

Inside Corner TTE  $h = 3,30/2,70/1,20\text{m}$

Fitted with 18mm birchply formlining.

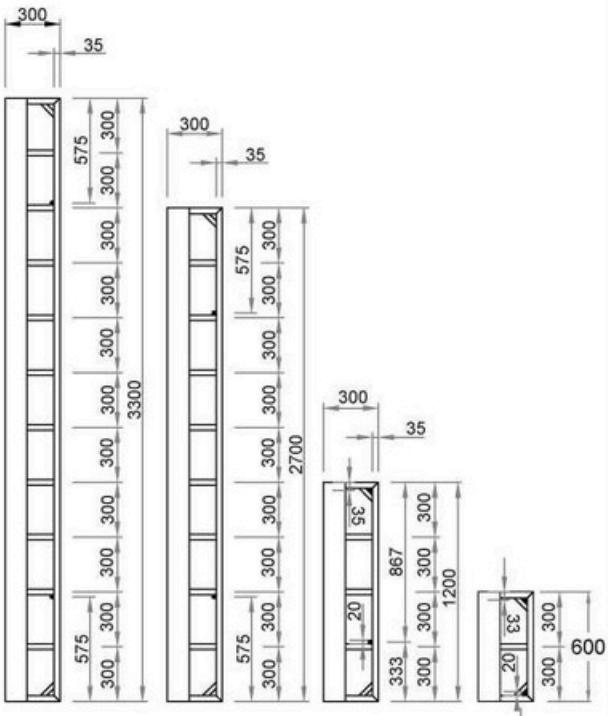


$h = 3,30\text{m}$  54374

$h = 2,70\text{m}$  22580

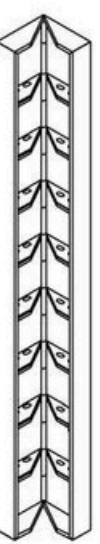
$h = 1,20\text{m}$  22660

$h = 0,60\text{m}$  22840



Articulated Corner TTGE  $h = 3,30/2,70/1,20\text{m}$

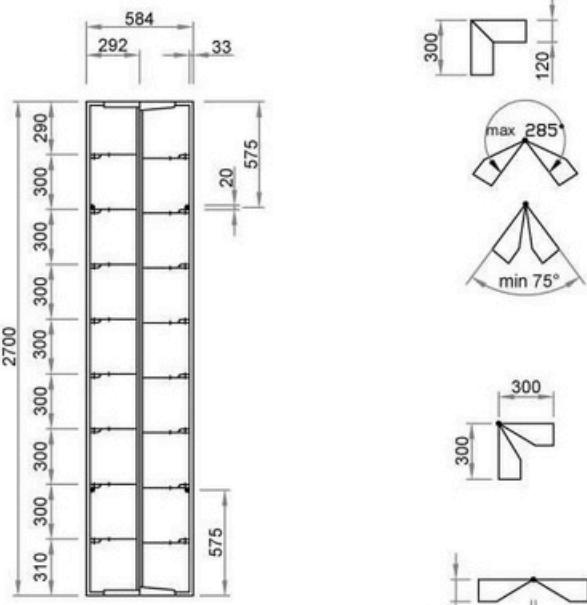
Fitted with 18mm birchply formlining.



$h = 3,30\text{m}$  54414

$h = 2,70\text{m}$  23200

$h = 1,20\text{m}$  23300



For oblique angles from 75° (degree)  
Can be used internally and externally

Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
54374	TriTec Inside Corner TTE 330-2 330m	93	1,98m <sub>1</sub>		
22580	TriTec Inside Corner TTE 270-2 270m	89	1,62m <sub>1</sub>		
22660	TriTec Inside Corner TTE 120-2 120m	33	0,72m <sub>1</sub>		
22840	TriTec Inside Corner TTE 60-2 60m	18	0,36m <sub>1</sub>		
54414	Articulated Corner TTGE 330m	124	1,98m <sub>1</sub>		
23200	Articulated Corner TTGE 270m	99	1,62m <sub>1</sub>		
23300	Articulated Corner TTGE 120m	46	0,72m <sub>1</sub>		

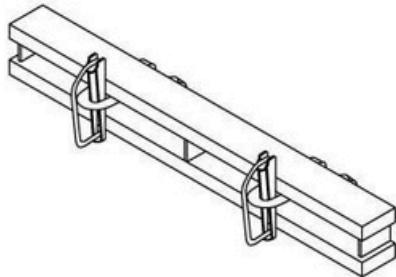
## **System GHI - TriTec : Accessories**

## **Compensation Waler TTR 85**

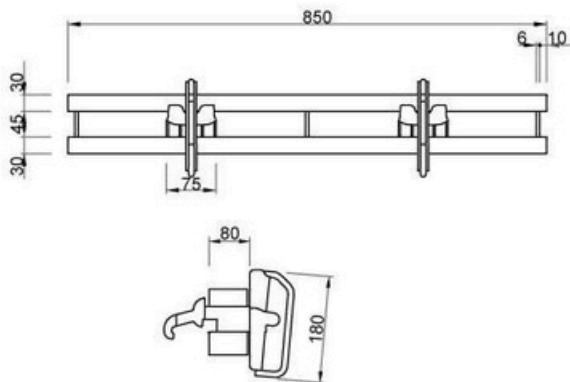
For infill areas, aligns, transfers tie forces, connects tight and pressure resistance. Supports Stopend panels together with Stopend Tie TS.galv.

Join parts integrated

**Compensation waler including Wedges etc**

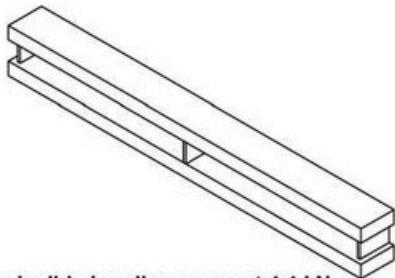


23550

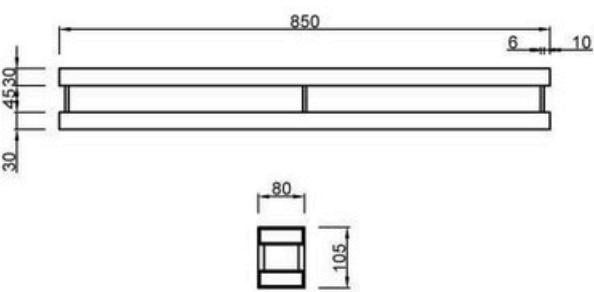


Waler 85

Without wedges etc



23551

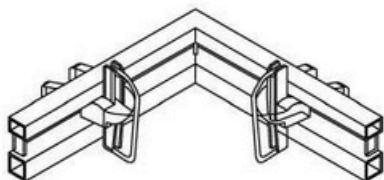


**Permissible bending moment: 4.4 kN.m**

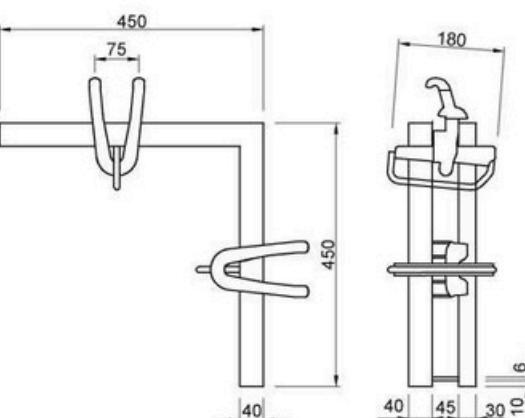
Projection Waler TVR 45/45

For connecting internal corners without using inside corner TTE particularly for wall offsets

Joint parts integrated



23560





## **System GHI - TriTec: Accessories**

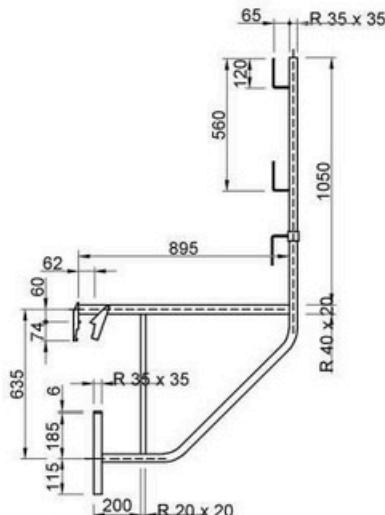
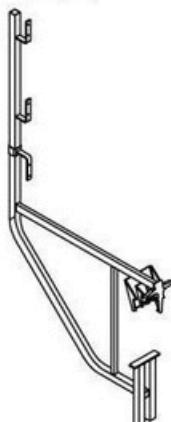
TriTec Walkway Bracket TTW 80

Secured automatically when mounted  
on horizontal and vertical struts

Allowable spacing : 1.35m

Permissible Load : 150 kg/m

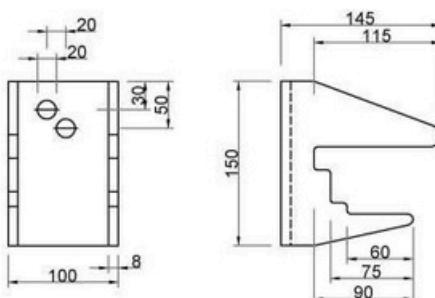
23670



## TriTec Bracket Adapter (Connector)

For anchoring independently of the panel grid,  
Anchoring outside the panel, particularly in case of  
foundation and extensions.

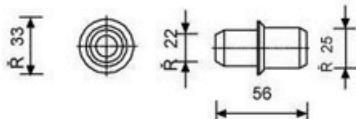
23630



Stacking Aid DW20

**CLIPPING THE EDGES**

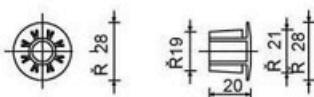
750303



### Sealing Plug ř 20/24mm

For sealing tie holes 1/2" to 24mm,  
which are not required.

88888

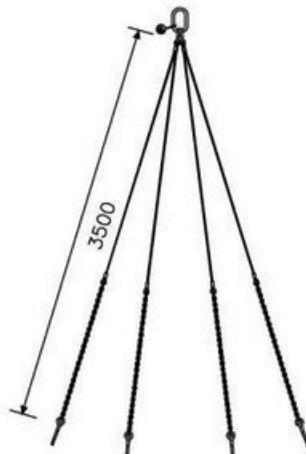


## **System GHI - TriTec: Accessories**

## Lifting Gear - 3 TriTec



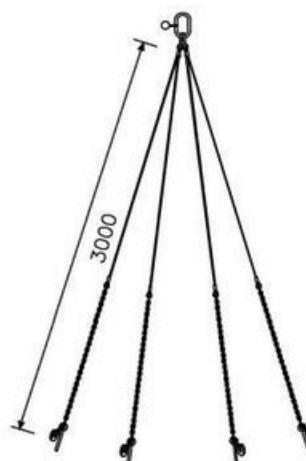
44770



#### **Lifting Gear Combi-2 TriTec**

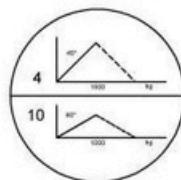
4-chain, 10mm Length each chain 300cm.  
For quickly and handly lifting stacks of panels  
in the earth zone. Stack with vertical tie rod through the  
tie holes to prevent the panels sliding.

44760

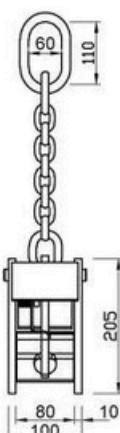
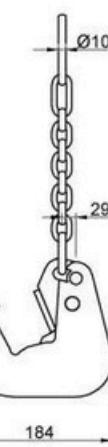
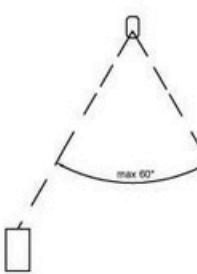


## Lifting Hook TriTec 1.5t

Permissible Load 1,500kg  
Use 2 for each unit to be lifted.  
The max inclination angle is 60°



23690



## CS240 and CS180 Climbing Systems

The most flexible and safe crane-assisted climbing system for structures of any height and shape

### At a glance

- **Safe and reliable**
- **Versatile for all high structures**
- **Very competitively priced**
- **100% compatibility with leading European system secures investment**
- **Safe system engineered in Germany and load-bearing parts conform to leading standards**

GHI's CS240 (platform is 2.40 m wide) and CS180 (platform is 1.80 m wide) climbing systems serve as framework brackets for supporting the wall formwork in the construction of multi-storey vertical concrete elements in high-rise structures such as core walls, shear walls, lift shafts, stair shafts and bridge pylons. These are highly productive systems designed to increase speed and efficiency while minimizing labour and crane time. This is made possible by the fact that independent operations can be carried out regardless of the work progress in other surrounding areas.

The articulated joints in the CS240 and CS180 offer speedy precision alignment of the formwork in all directions. In the case of CS240, the formwork can be retracted by approximately 75 cm, which provides for a 2.40 cm wide safe working environment, capable of workload up to 0.50 kN/m<sup>2</sup>. In case of restricted workspace, CS180 and CS130 may be utilised.

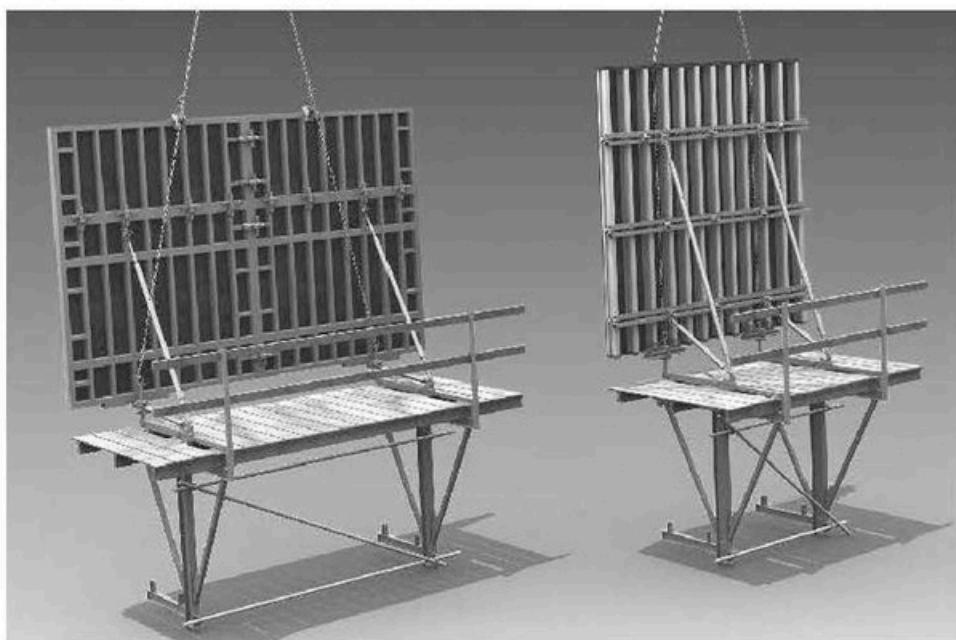
After the initial cycle at ground level, the climbing systems are connected to the building at all times.

Therefore safe operations can be carried out even at higher altitudes over 100 meters up to 72 km/h wind speed.

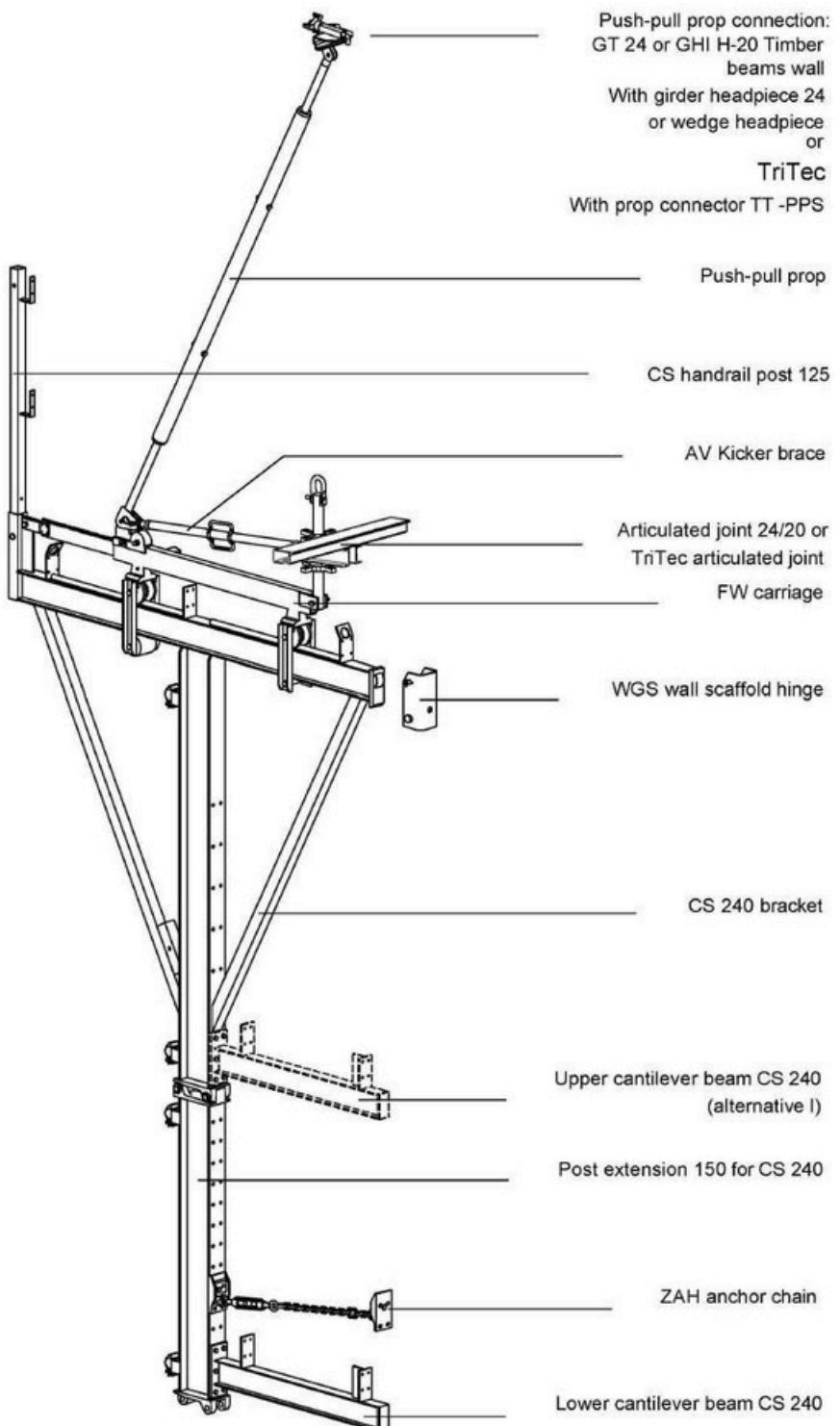
The CS240 and CS180 can be easily adapted to the GHI wall systems such as TriTec, TriTec Light, Flex 50, Roundflex or to any other similar formwork shutter system for that matter. Concreting height is possible up to 7 meters. If required, suspension platforms that are adjustable in 10 cm steps can be set up to recover climbing cones.

Because the system uses only fewer parts, fast and simple pre-assembly can be easily done even in the yard. Formwork and climbing platform are transported as single unit.

The standard individual components of these systems are available for rental in selected regions. Please contact your local GHI office to find out if this option is available in your area.

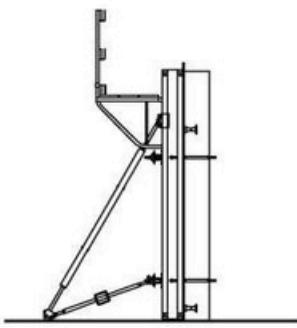


## System GHI - Climbing System CS



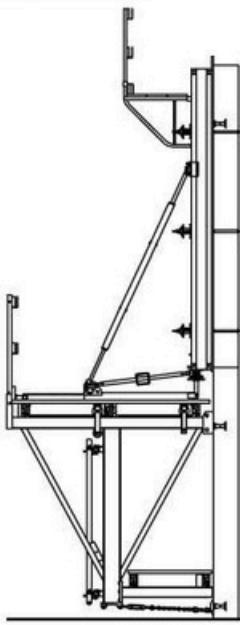
## System GHI - Climbing System CS

### WORKING SEQUENCE



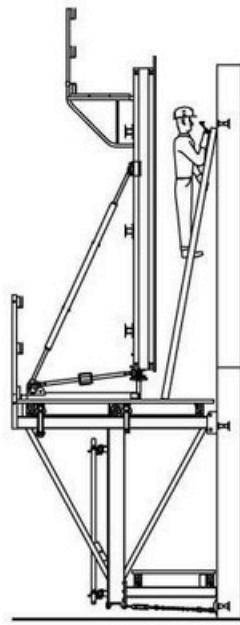
#### 1st Cycle

Position and install the leading anchor according to the chosen version and information for the following scaffold



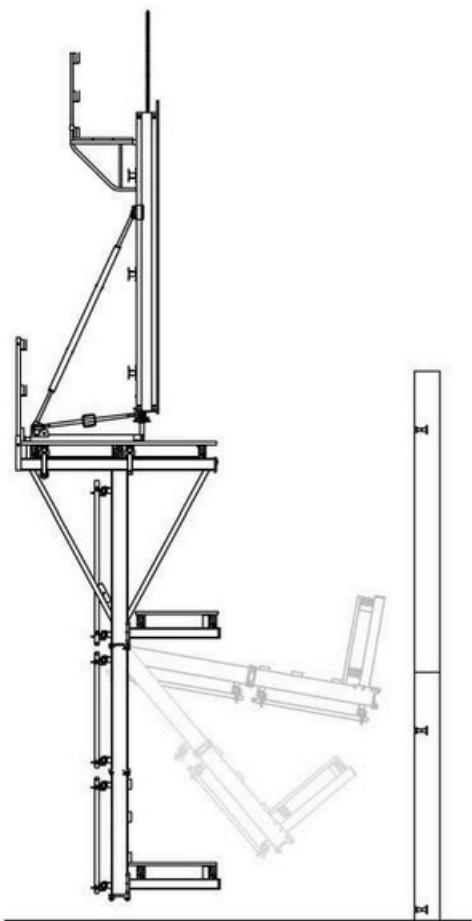
#### 2nd Cycle

Suspended the pre-assembled scaffolding unit on the anchor and, if necessary, secure against wind loads. Erect formwork unit on the scaffolding and adjust



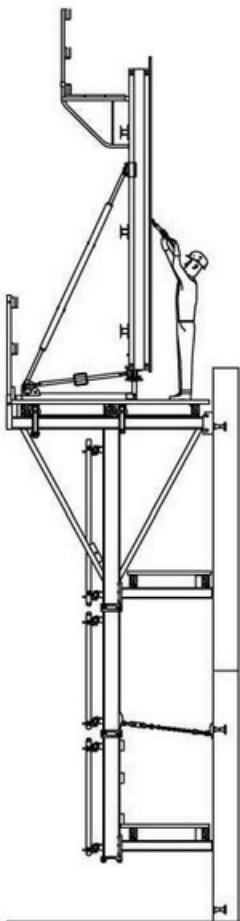
#### 3rd Cycle

Loosen formwork anchor, withdraw formwork and fix leading anchor



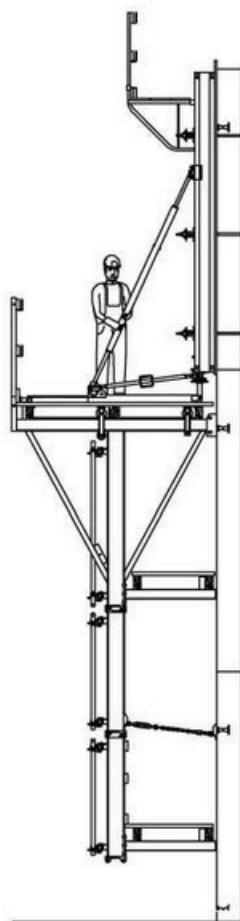
#### 4th Cycle

The pre-assembled finishing platform is fixed to the scaffolding unit before suspending on the next anchor.



#### 5th Cycle

After suspending the complete unit (formwork with scaffold unit) the lower wall scaffold hinge is taken off and the tension anchor fitted.



#### 6th Cycle

Clean the units. Fix reinforcement, close formwork and concrete. The "normal cycle" starts here.

## **System GHI - Climbing System CS**

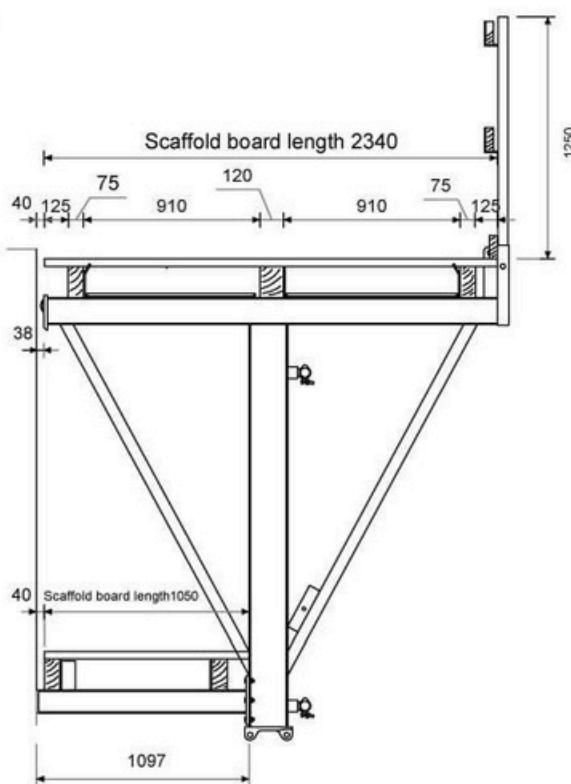
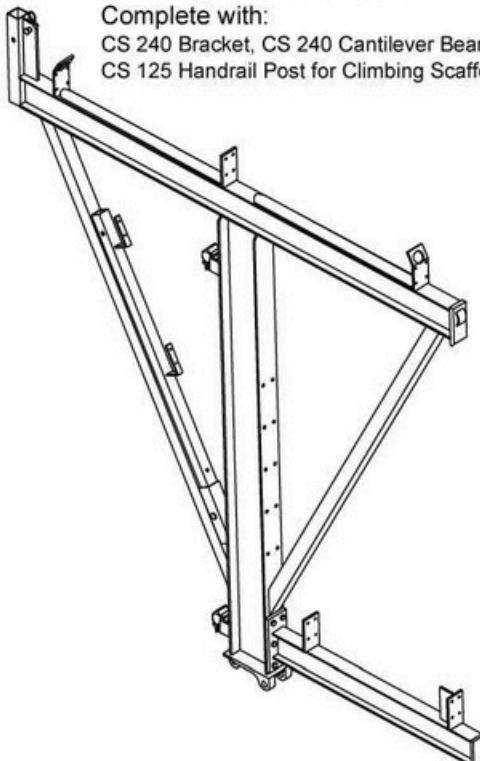
Climbing Bracket CS 240

**Complete with:**

Complete with:

CS 240 Bracket, CS 240 Cantilever Beam and  
CS 125 Handrail Post for Climbing Scaffold

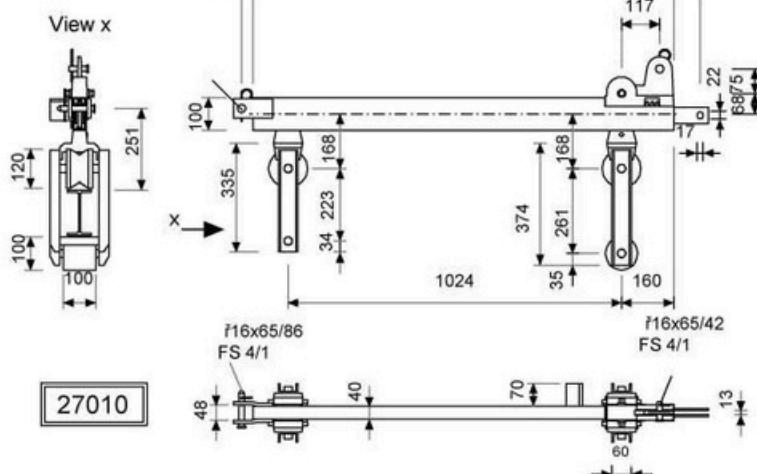
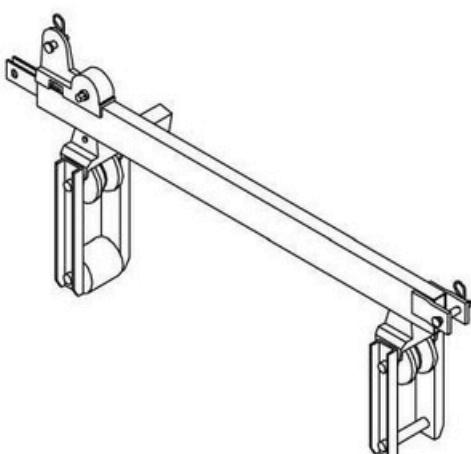
26055



## Carriage FW

Complete with:

Complete with:  
Wedge for continuously variable locking (1x),  
pin ⌀ 16 x 42 and Cotter Pin 4/1 (1x),  
pin ⌀ 16x65/86 and Cotter Pin



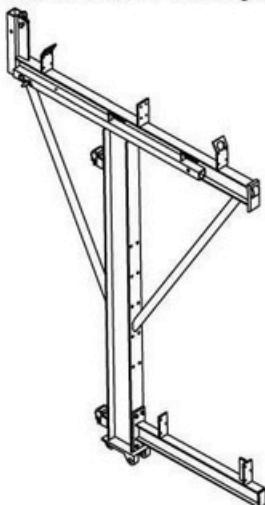


**System GHI - Climbing System CS**

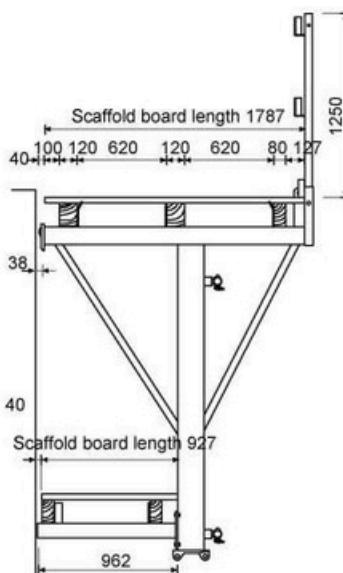
Climbing Bracket CS 180

**Complete with:**

Complete with:  
CS 180 Bracket , CS 180 Cantilever Beam and  
CS 125 Handrail Post for Climbing Scaffold.



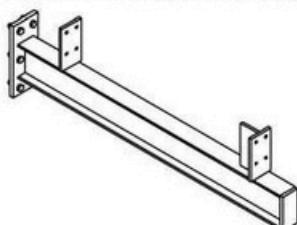
26035



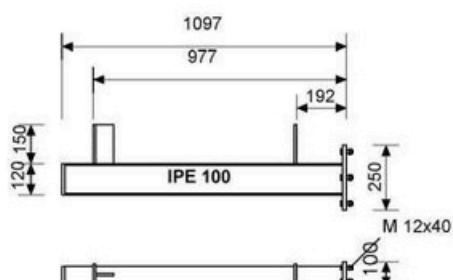
## Cantilever Beam CS 180

**Complete with:**

Hex. Bolt ISO 4017 M12x40-8.8, galv. MU (6x)



26060



Anchor Chain ZAH

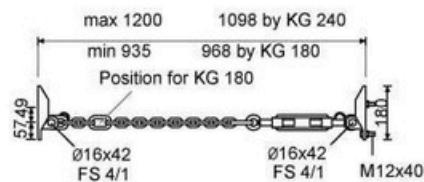
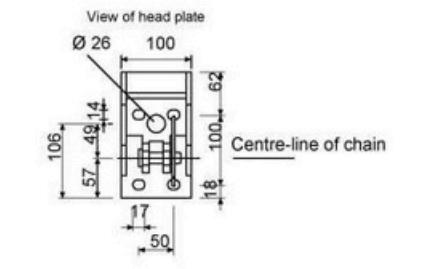
To prevent tilting of CS 180 and CS 240

To prevent this  
Complete with:

Complete with:  
Pin Ø 1642 and Cotter Pin 4/1 (2x)

Pin Ø 1642 and Cotter Pin 4/1 (2x),  
Hex. Bolt M12x40 MU DIN 601 gray (4x)

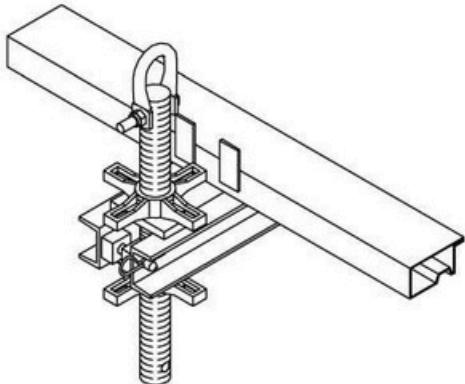
26100



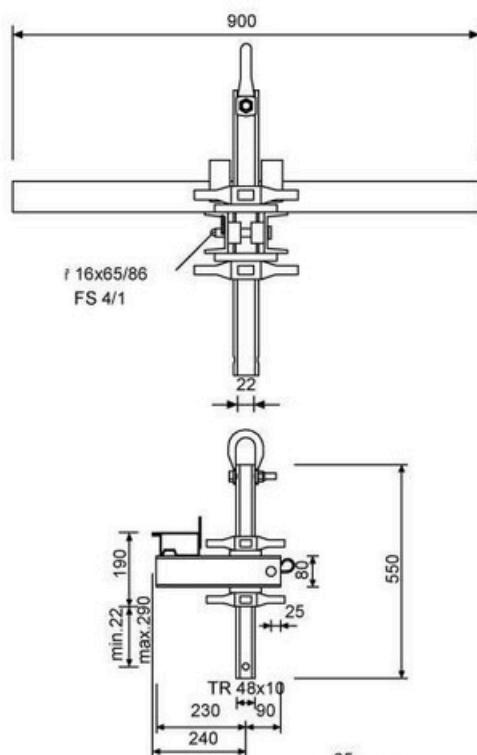
## System GHI - Climbing System CS

### Articulated Joint TriTec

For use with ghi TriTec Panels.  
Lifting Eye (1x),  
Pin ⌀ 16x65/86 and Cotter Pin 4/1 (1x).



27040



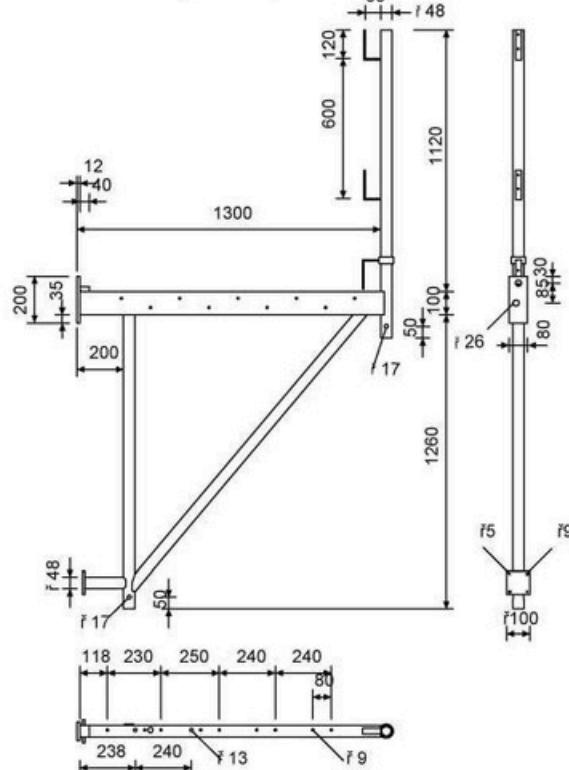
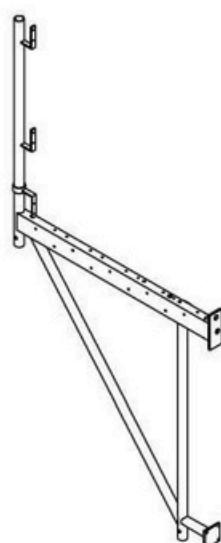
Load-bearing point

Load Capacity Lifting eye: 1500kg

### Bracket CS 130

With welded-on Handrail Post.  
Can also be moved as a complete platform unit, when two or more are combined using scaffold tube and Sweivel Couplings

26180



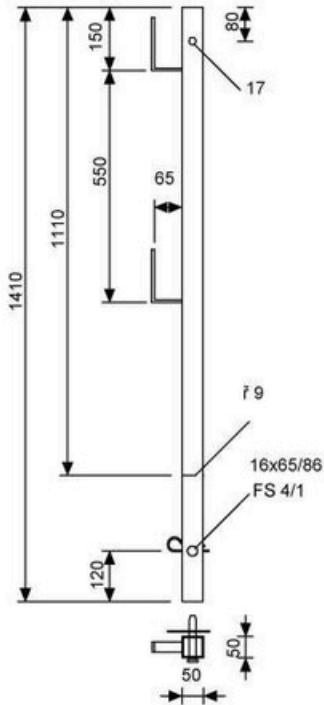
Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
27040	Articulated Joint TriTec	25.0			
26180	Bracket CS 130	37.50			

## **System GHI - Climbing System CS**

## **Handrail Post 125 KG**

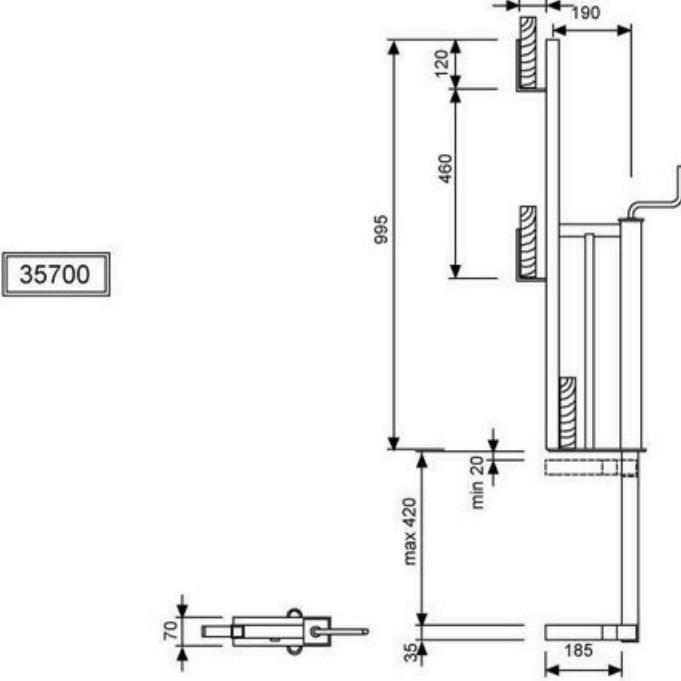
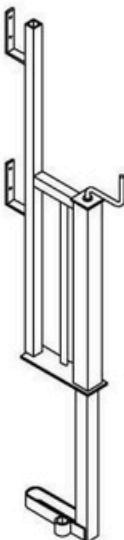
Complete with:

26120



## **Handrail Holder**

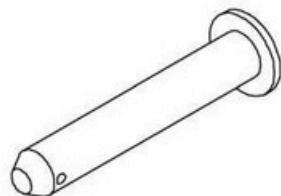
Can be clamped to concrete slabs or formwork substructure up to 42cm deep



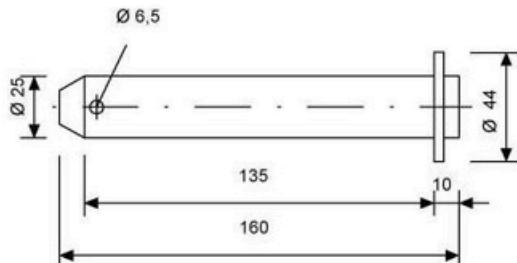
## System GHI - Climbing System CS

### Pin Ø 25x 160, galv.

For post extension KG 180 and KG 240,  
and Conenctor ZAH/KG



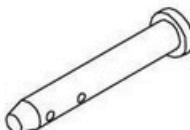
26200



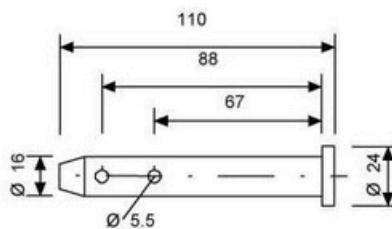
Accessories:  
Cotter Pin 5/1, galv.

22230

### Pin Ø 16x 65/86 ,galv.



18050

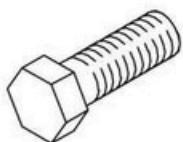


Accessories:  
Cotter Pin 4/1, galv.

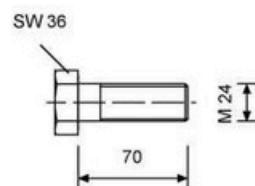
18060

### Hex. Bolt ISO 4014 M24X70-10.9

Hight-Strength bolt (black) for anchoring  
the scaffold



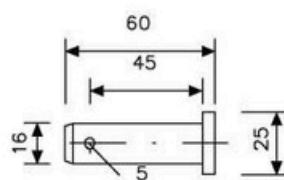
26430



### Pin Ø 16x42, galv.



27170



Accessories:  
Cotter Pin 4/1,galv.

18060

Stock Code	Stock Description	Weight	SQM	Unit	Sale Only
26200	Pin Ø 25x 160, galv.	0.61			x
22230	Cotter Pin 5/1,galv.	0.03			x
18050	Pin Ø 16x65/86, galv,	0.17			x
18060	Cotter Pin 4/1,galv.	0.03			x
26430	Hex. Bolt ISO 4014 M24X70-10.9	0.33			x
27170	Pin Ø 16 x 42, galv.	0.10			x
18060	Cotter Pin 4/1, galv.	0.03			x

## System GHI - Climbing System CS

### Anchor Positioning Plate M24, galv.

For connecting the Bolt Anchor Sleeve M24 or Screw On Positioning/Climbing Cone to the plywood form face, when it cannot be drilled

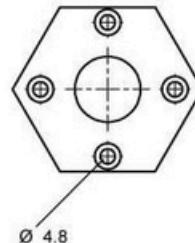
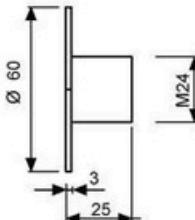


Accessories  
14 mm Allen Key,  
long nail 30x80 (4x)

15F3037/N

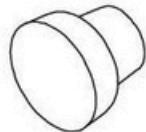
27212

710312



### KK Concrete Cone M24-67/52F

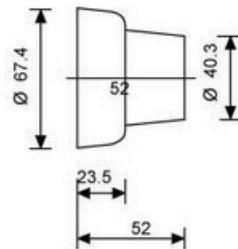
For closing anchor points constructed with M24/DW15 climbing cones 2.  
In packs of 50



Accessories  
5kg Pack of Sealing Compound

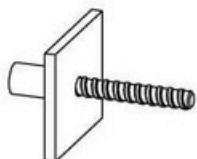
31554

31652

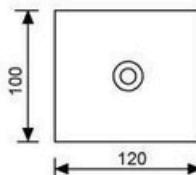
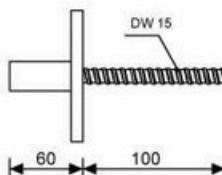


### Plate Anchor DW 15 160/100

Permissible load see product information



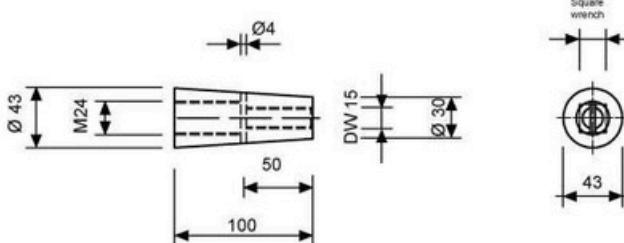
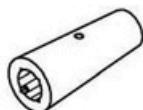
15G3058



### Positioning/Climbing Cone M24/DW15, galv.

Permissible load see product information (DSI-15F3037)

15F3073



Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
15F 3037/N	Anchor Positioning Plate M24, galv.	0.22			x
27212	14mm Allen Key, Long	0.45			x
710312	Nail 30 x 80 (4x)	0.005			x
31652	KK Concrete Cor eM24-67/52	0.27			x
31554	5kg Pack of Sealing Compound	6.13			x
15G 3058	Plate Anchor DW 15 160/100				x
15F 3073	Positioning/climbing Cone	0.63			x
15F 7045/18	Square Wrench for Positioning Cone				x
15F 3073/K	PE-Sleeve for Positioning Cone type 30				

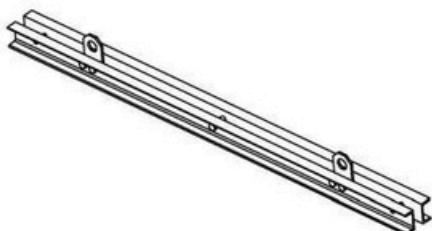
## **System GHI - Shaft platforms : Beams and Accessories**

## Platform Beam

As main beam for shaft platforms.

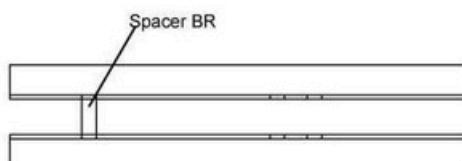
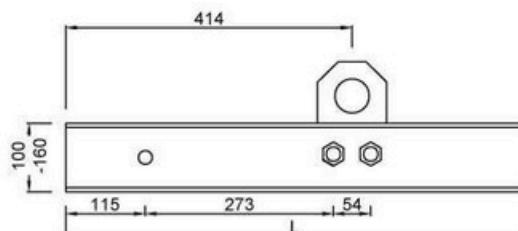
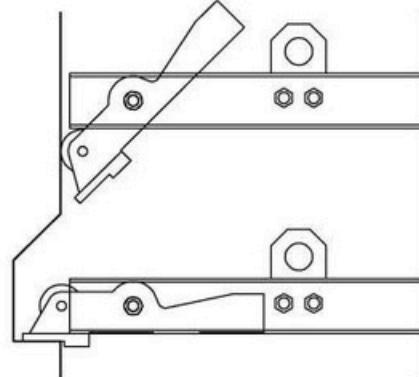
- Platform Beam 2U100 Special Length  
Platform Beam 2U120 Special Length  
Platform Beam 2U140 Special Length  
Platform Beam 2U160 Special Length

The listed Item no. is for the Platform Beams only.  
Gravity Pivot Plate, Spacer and Crane Eyes are to be ordered separately.



**Accessories:**  
**BR Spacing** (spacing ≤ 70mm)  
**BR Crane eye 0.4t (2x)**

#### **With gravity Pivot Plate**

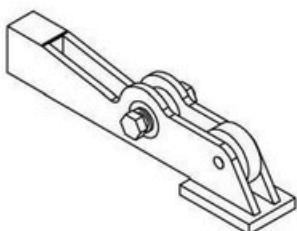


## Gravity Pivot Plate

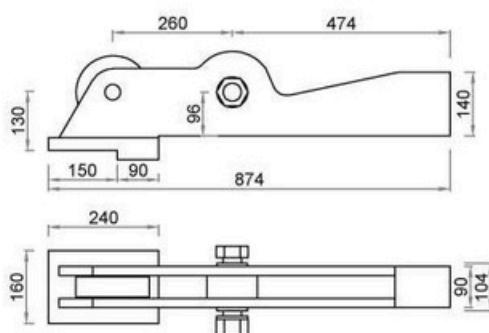
**Gravity Tie Net**  
2 per Platform Beam.

Complete with:

Complete with:  
Hex. Bolt M20x90-8.8, galv.  
with Spring Washer A20 , galv.  
and Hex. Nut M20-8 . galv. (1x).



20600



## Accessories: **Bearing box**

## **System GHI - Shaft platforms : Beams and Accessories**

## **Spacer for Platform Beam**

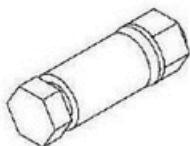
Max. Spacing e = 700mm.

Number depends on length of Platform Beams.

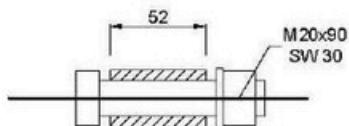
Complete with:

Hex. Bolt M20x90-8.8, galv.,

with Spring Washer, galv.



20620



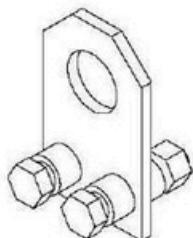
#### **Crane Eye for Platform Beam 0.4t**

2 per Platform Beam.

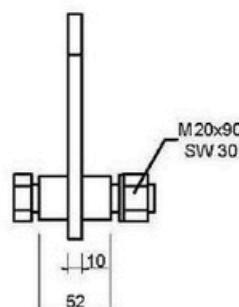
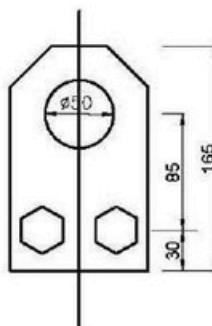
Complete with:

Hex. Bolt M20x90-8.8, galv.,

with Spring Washer A 20 , galv.,  
and Hex. Nut M20-8, galv. (2x).



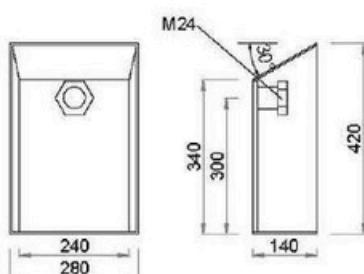
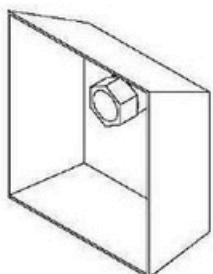
20610



### Bearing box

To box out recess in wall to house gravity pivot plates of platform beams for subsequent lift.

108162

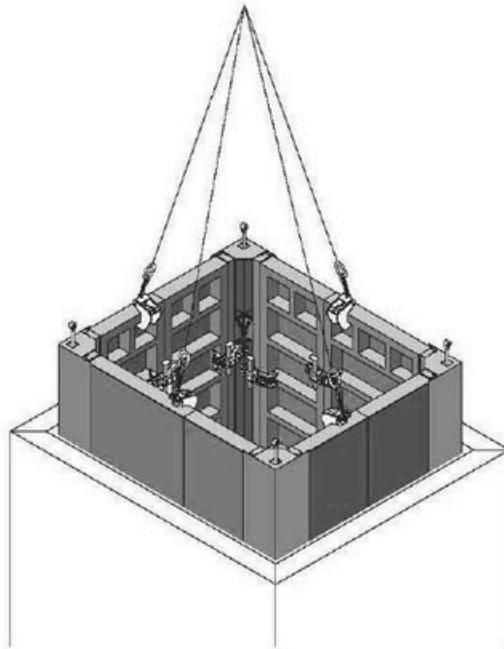
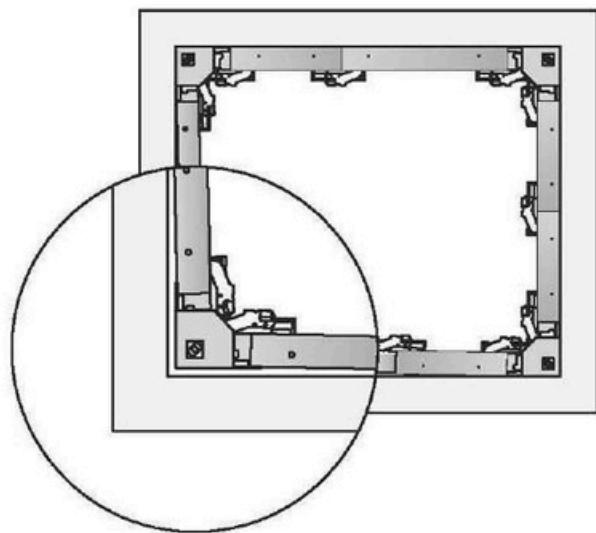


#### Accessories:

#### **Advancing Screw M 24 galv**

29270

## System GHI - TriTec : Stripping corner



## TriTec Stripping Corners

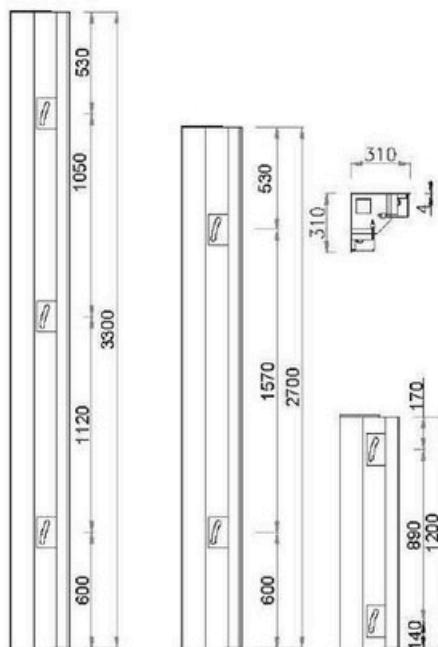
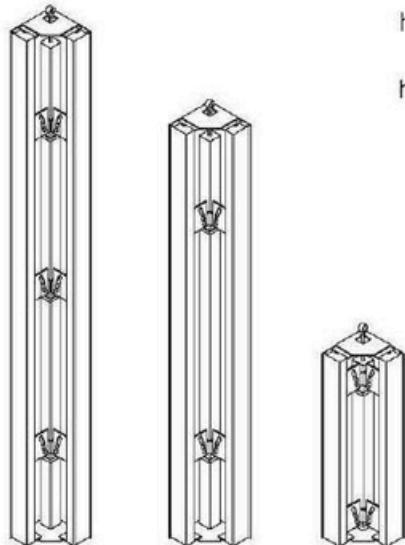
Panel h = 3,30/2,70m/1,20m

Easy and fast striking by lifting complete internal shaft formwork as a single unit.

**h = 3,30m**

$h = 2,70\text{m}$

$h = 1,20m$



## TriTec TTS Column Formwork

Forming columns with components from the framed formwork system TriTec

In this system, panels from the framed formwork system TriTec are used to cast changing column cross-sections at every 5-cm grid, be it square or rectangular. With centre-positioned ties, cross sections up to 75 x 75 and 105 x 105 cm can be formed. Panels can be inter-connected using standard TriTec accessories.

Thanks to the built-in plywood and due to fewer parts, continuous assembly and dismantling time is radically reduced to at least 70% compared with other beam/waler column systems.

In selected regions, the standard individual elements are supplied on short-term hire basis. Please contact your local GHI branch to find out if this service is available in your area.

### Advantages

#### Strong

The formwork is designed to allow fresh concrete pressure up to 100 kN/m<sup>2</sup>.

#### Versatile

The TriTec column elements give you the flexibility to form cross sections up to 75 x 75 cm or 105 x 105 cm, in 5-cm grid. They are highly engineered to enable precision adjustment.

#### Extendable

The TriTec panels come in 330 cm, 270 cm, 120 cm and 60 cm standard heights. Forming a column as high as 990 cm can be done easily and smoothly.

#### Flexible

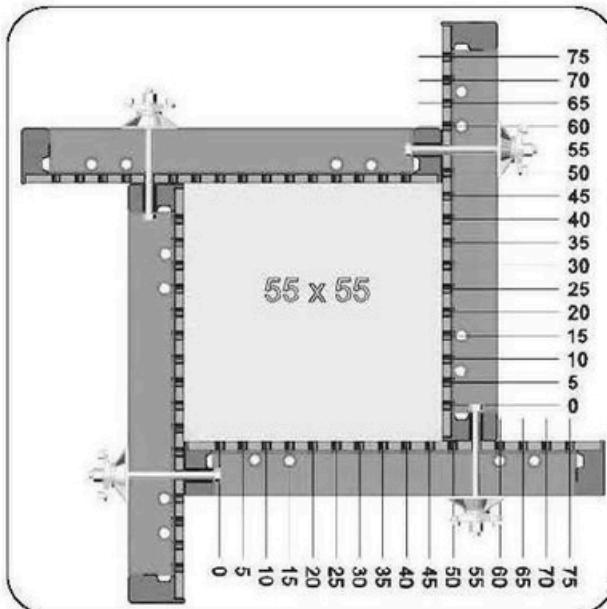
The panels can be used also in the TriTec wall system as 90 cm or 120 cm frames.

#### Economical

The panels are supplied with built-in plywood and safe concreting platform that is continuously adjustable. Moreover, the metal nature of the frames allows for easy cleaning and re-use with little waste generated compared to traditional formwork.

#### Simple and Fast

Panels are aligned and fastened with a single hammer stroke using only one device – the APC (Aligning Panel Clamp). The standard mounting and erection cycle can be completed within 45 minutes.

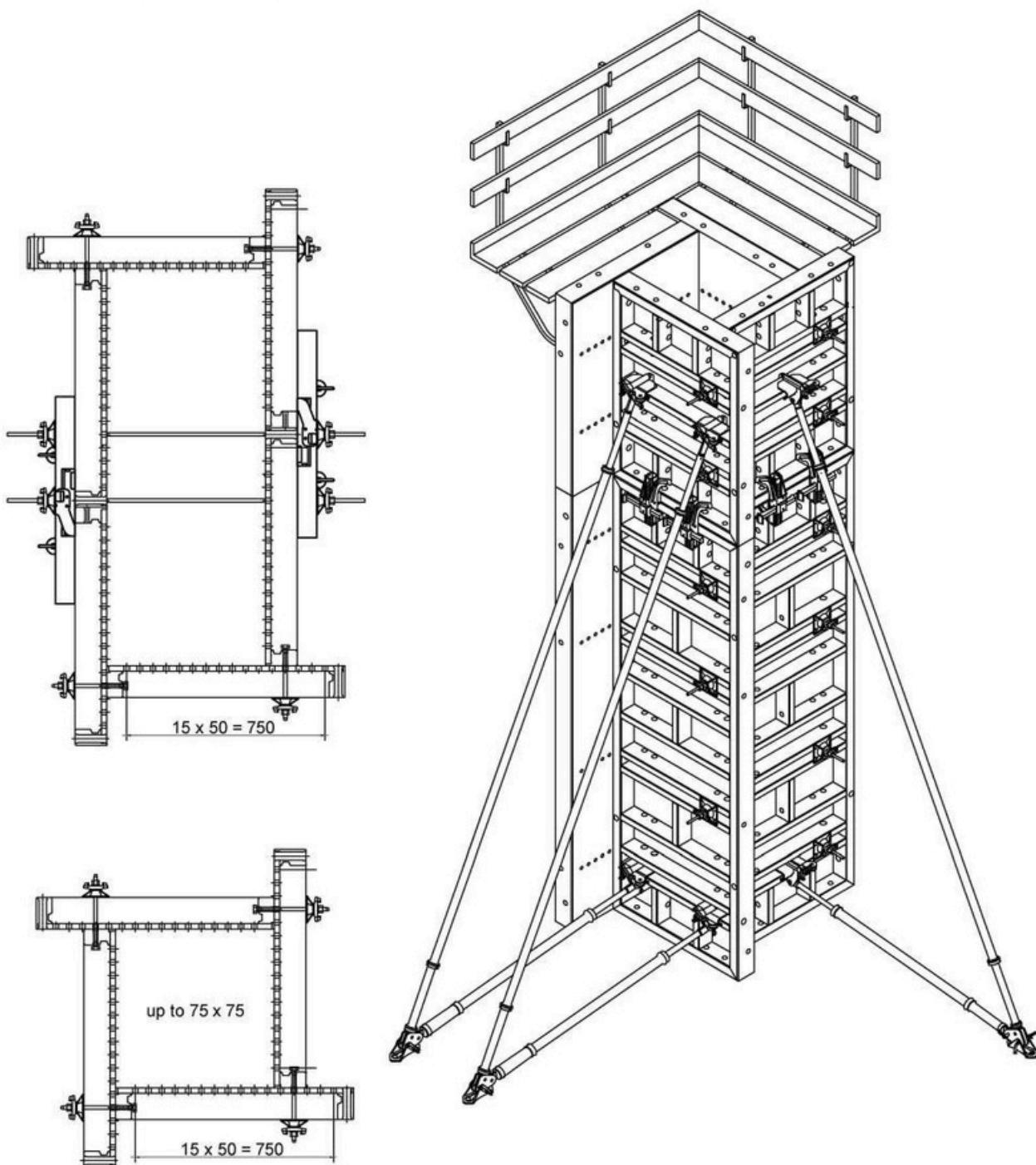


## System GHI - TriTec for Column x Bolt

### Column Panel TTS 90, Steel

The permissible ( allowed) fresh concrete pressure on surface of panel TTS is 100 kN/m<sup>2</sup>. For the height 2.70m four joints are necessary, for height 3.3m five. TriTec for column can be used to shutter square or rectangular column up to 75 x 75 cm (in 5 cm steps) or as a standard panel in the TriTec wall formwork.

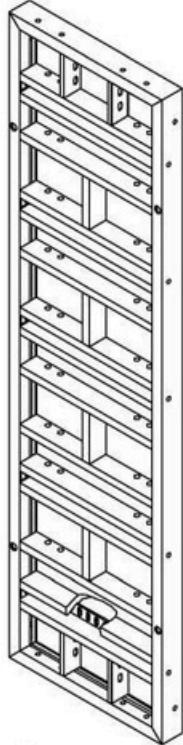
A continuously adjustable platform for any cross section from 20 x 20 to 75 x75 cm is available.



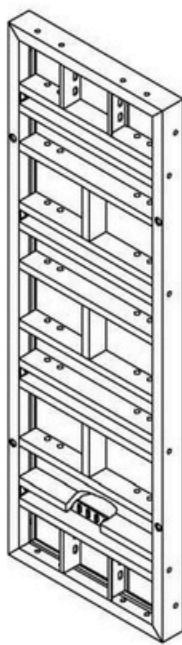
## System GHI - TriTec for Column X Bolt

**Tri Tec Column Panels TTS 90, Steel  
red powder coated.**

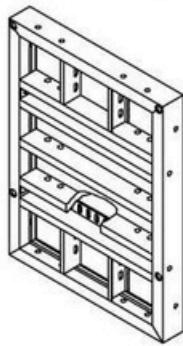
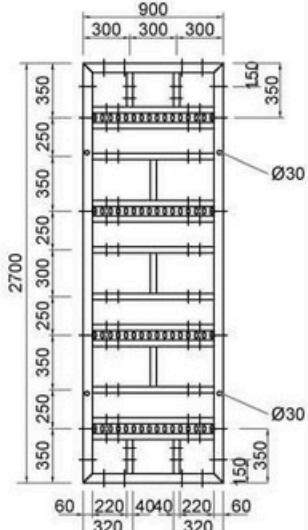
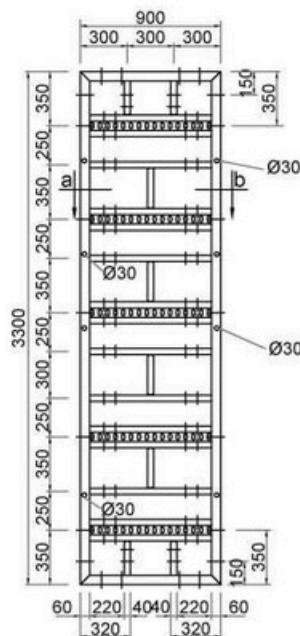
Fitted with 18mm Birchply formlining  
Complete with : Plug & 25mm TTS



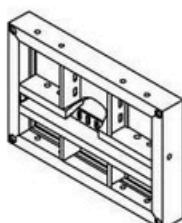
54205



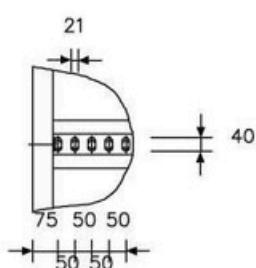
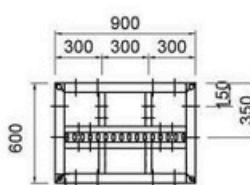
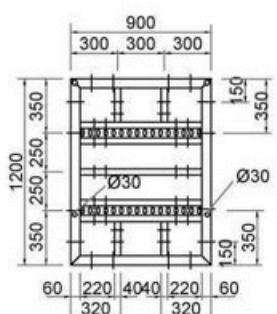
54200



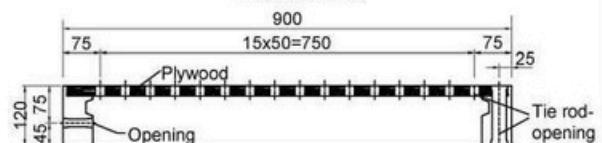
54210



54220



### Section a - b

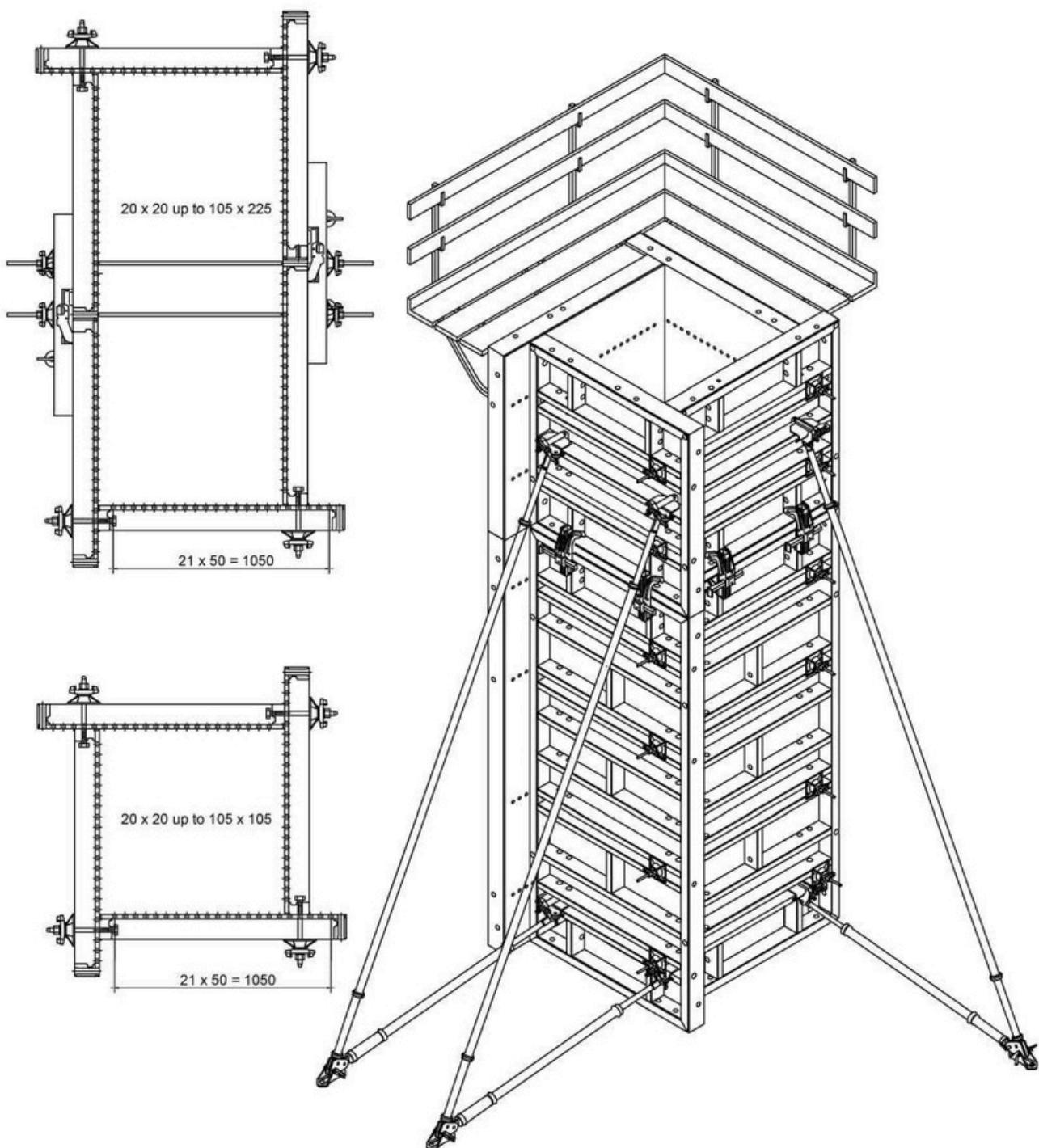


## System GHI - TriTec for Column x Bolt

### Column Panel TTS 120 , Steel

The permissible ( allowed) fresh concrete pressure on surface of panel TTS is 100 kN/m<sup>2</sup>. For the height 2.70m four joints are necessary, for height 3.3m five. TriTec for column can be used to shutter square or rectangular column up to 105 x 105 cm (in 5 cm steps) or as a standard panel in the TriTec wall formwork.

A continuously adjustable platform for any cross section from 20 x 20 to 105 x105 cm is available.



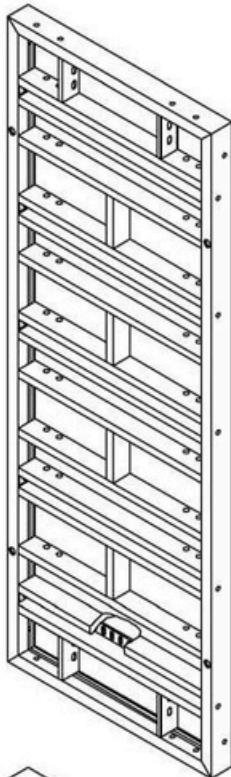
## System GHI - TriTec for Column X Bolt

## **Tri Tec Column Panels TTS 120, Steel**

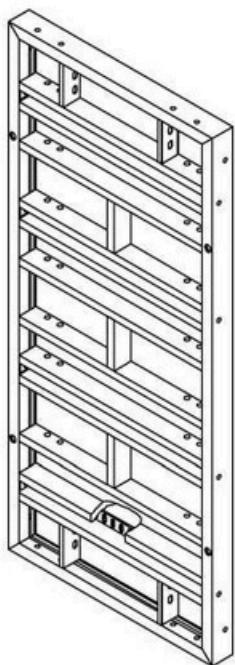
red powder coated.

Fitted with 18mm Birchply formlining

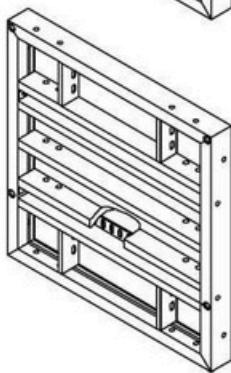
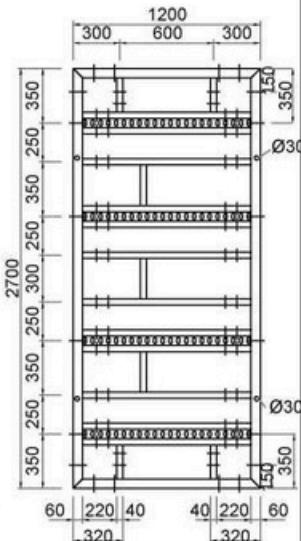
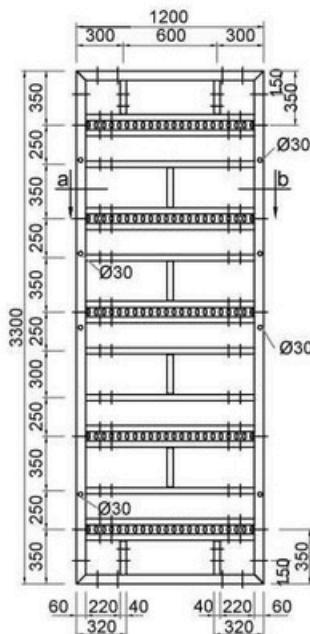
Complete with : Plug ø 25mm TTS



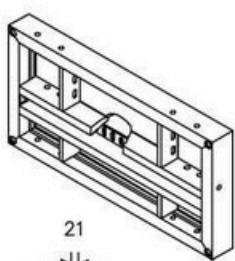
54205



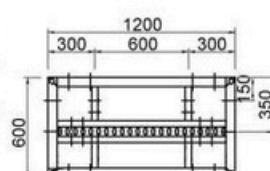
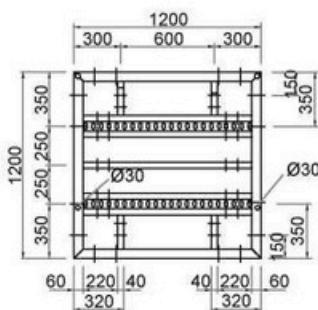
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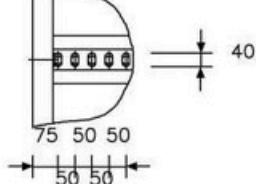
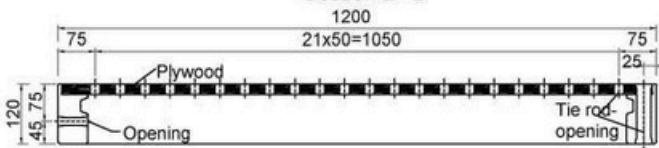
54210



54220



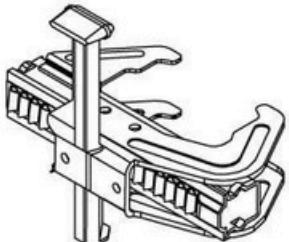
### Section a - b



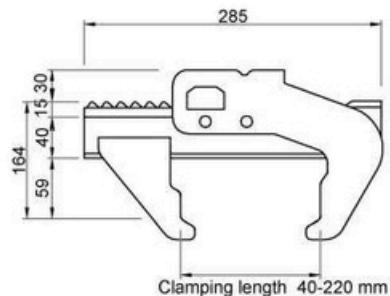
## System GHI - TriTec Column Accessories

### Alignent Coupler APC, galv.

For extending the Column Panel TTS

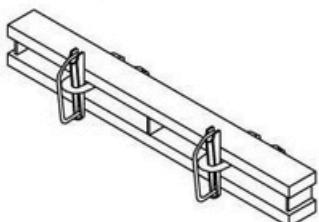


23500

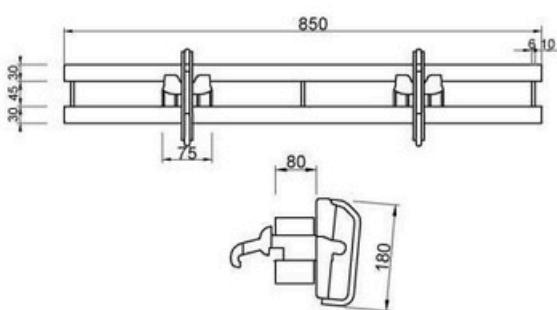


### Compensation Waler TTR 85

Join parts integrated



23550



### TriTec Column Tie Yoke DW 15

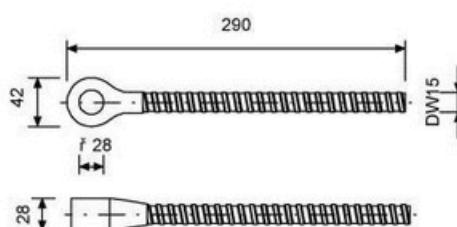
For tying TriTec Column Frames.

Comes with the TriTec Column Frames.

For Column Frame 330(5x)300(4x), 210(3x), 60(1x)

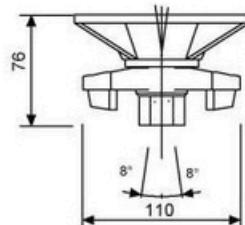
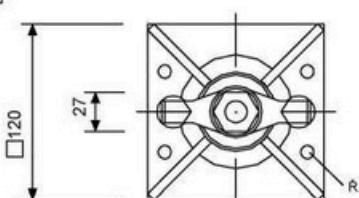
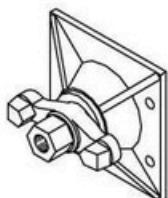


37150



### Wingnut Pivot Plate DW 15, galv.

30370

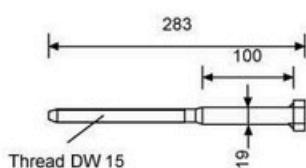


### Column Tie Bolt TriTec , galv.

Alternative to Tie Yoke DW15



54230



SW 30

Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
23500	Alignment Coupler APC, galv.	4.05			
23550	Compensation Waler TTR 85	12,50			
37150	TriTec Column Tie Yoke DW 15	0.60			
30370	Wingnut Pivot Plate DW15, galv.	1.54			
54230	Column Tie Bolt TriTec, galv.	0.62			

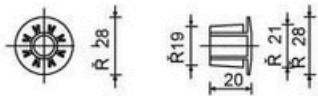
## System GHI - TriTec Column Accessories

### Sealing Plug ø 20/24mm

For sealing tie holes ø 20 to 24mm,  
which are not required.



30300

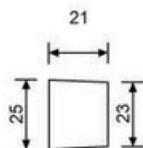


### Plug ø 25mm TTS

For sealing anchoring points, flush fitting



30320

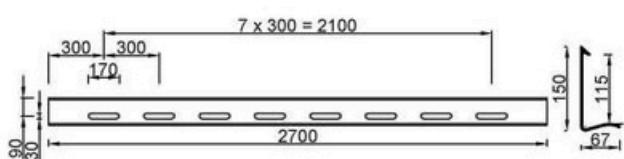


### Chamfer Strip 15/15 L=2.70 m

To prevent "bleeding" concrete  
at column edge



54240

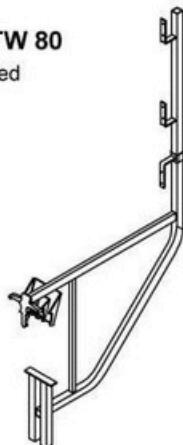


### TriTec Walkway Bracket TTW 80

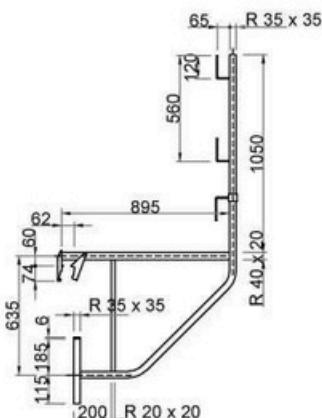
Secured automatically when mounted  
on horizontal and vertical struts

Allowable spacing : 1.35m

Permissible Load : 150 kg/m.



23670



### Lifting Hook TriTec 1.5t

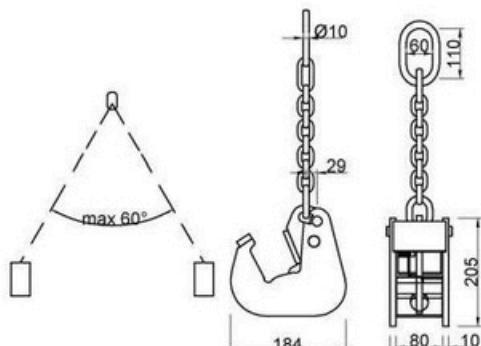
Permissible Load 1,500kg

Use 2 for each unit to be lifted.

The Max inclination angle 60 (degree)



23690



Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
30300	Sealing Plug Ø 20/24mm	0.003	250	x	
30320	Plug ø 25mm TTS	0.004	1,000	x	
54240	Chamfer Strip 15/15 L=2.70 m	1.90			
23670	TriTec walkway Bracket TTW 80	12.70			
23690	Lifting Hook TriTec 1.5t	7.06			x

**GHI Multiflex Slab Formwork System**

Quick shuttering – especially for non-typical floor plan and height

**At a glance**

- *Most versatile system for all types of slab*
- *Economical due to longer life span and fewer parts*
- *Safe system engineered in Germany and load-bearing parts conform to leading standards*

GHI Multiflex is the ideal slab formwork system for multi-storey structures with non-typical floor plans at any floor height. The system can be designed to suit special shaped slabs, where there are no regular grids or patterns. It is also ideal for irregular slab design, e.g. oval, round or sloping areas. The system is particularly suitable if crane movement is restricted like in basements, core areas or general infill zones.

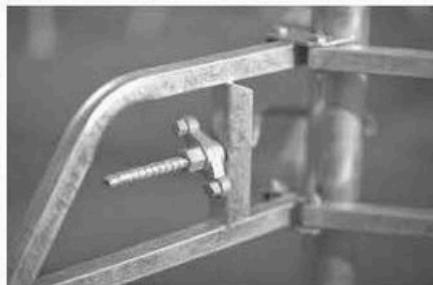
The system prides itself in using fewer parts compared to traditional scaffolding. As a result, the search (for a component) is minimized, interim storage is simplified and worksite waiting time is reduced to a minimum. Moreover, fewer pieces to handle mean faster assembling and dismantling to be done by the site workers.

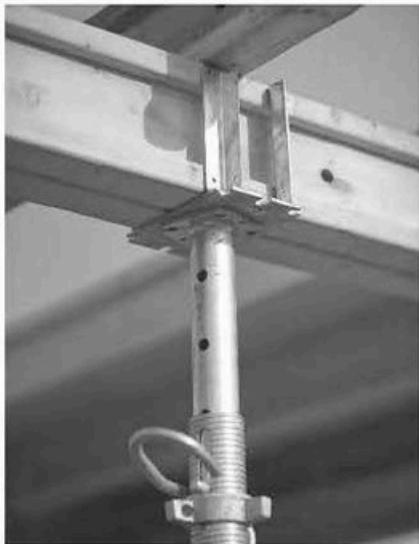
The system is engineered in Germany and parts are manufactured according to leading German standards, which are controlled and certified by well-respected European laboratories. Its main elements are H20 beams, props, cross heads, tripods, and plywood. Each component is created in harmony

with one another that they are assembled to yield a compact unit.

The high quality solid H20 beams are manufactured in Germany under strict European standards. The 20 kN and 30 kN props are tested to classes D and E standards respectively. They are available in 300 cm up to 550 cm maximum extension length, in 50 cm increments. The cross heads come with a self-locking device to prevent it from slipping out of the prop when the set is moved. The universal tripods fit any type of props. All main steel parts are hot dip galvanised for extended service life.

For cantilevers or higher elevations starting from 5.50 m up to 100 m, the Multiflex slab formwork system can be used with the lightweight yet heavy-duty GHI D-15 shoring system. Requiring a minimum footprint of just 1 m x 1 m, each tower can support load of up to 220 kN and it consists of six components only. With its self-locking device, every tower is easy to erect and dismantle.



**Accessories for GHI Multiflex Slab Formwork System****GHI CROSS HEAD**

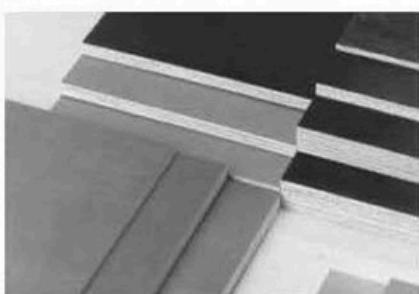
- Hot-dip galvanised for longer service life
- Self-locking device prevents it from slipping while the prop is being moved
- Compatible with all common European props
- Compatible with all heavy duty props
- Suitable for either GT 24 or H20 primary timber beams
- Suitable for single or double primary timber beams

The GHI Cross Head (also known as Prop Head), which is inserted onto the prop, is used mainly to provide a firm link between the GHI H20 timber beam and the GHI Prop 20 kN (or 30 kN, as the case may be).

**GHI UNIVERSAL TRIPOD**

- Hot-dip galvanised for longer service life
- Compatible with all standard and heavy-duty European props
- Foldable feature requires less storage space

The GHI Tripod is used to hold the GHI prop upright and keep it stabilised during the erection of the GHI Multiflex system. The tripod's swing-out legs allow flexible positioning in areas where work space is limited, such as along edges and in corners.

**GHI PLYWOOD 3-PLY, MULTI-PLY**

- Available in 18mm, 21mm and 27mm thicknesses
- Water-proof guard cover
- Dimensionally stable guard cover
- Smooth surface

The GHI plywood serves as the face of the concrete.

NB: All the components listed above can be supplied either as a complete system or as individual items. Please contact your local GHI branch for details.

## System GHI - MULTIFLEX : Determine spacing between supported beams

Table for slab beams H20

Slab thick- ness [cm]	Total area load [kN/m <sup>2</sup> ]	Maximum allowed Spacing [ cm ]					
		for Primary beams(a)			for props		
		by choosen secondary beams centras(spacing) [ cm ]		38	50	75	100
1	2	3	4	5	6	7	8
10	4.5	343	313	274	249	231	217
12	5.02	331	302	264	240	222	209
14	5.54	320	292	255	232	215	203
16	6.06	311	284	248	225	209	194
18	6.58	302	276	241	219	203	178
20	7.1	295	269	235	214	198	165
22	7.62	288	263	230	209	185	154
24	8.14	282	257	225	204	173	144
26	8.66	276	252	220	200	163	135
28	9.18	271	247	216	192	153	128
30	9.76	265	242	211	180	144	120
40	12.88	242	221	193	137	109	91
50	16	225	205	179	110	88	73
60	19.12	212	193	169	92	74	61
<hr/>							
Slab thick- ness [cm]	Total area load [kN/m <sup>2</sup> ]	Maximum allowed Spacing [ cm ] for props(b)					
		by choosen primary beams spacing [ cm ]					
		175	200	225	250	300	350
1	2	9	10	11	12	13	14
10	4.5	206	196	174	156	130	112
12	5.02	199	175	156	140	117	100
14	5.54	182	159	141	127	106	91
16	6.06	166	145	129	116	97	83
18	6.58	153	134	119	107	89	76
20	7.1	142	124	110	99	83	71
22	7.62	132	115	103	92	77	66
24	8.14	124	108	96	86	72	62
26	8.66	116	102	90	81	68	58
28	9.18	110	96	85	77	64	55
30	9.76	103	90	80	72	60	52
40	12.88	78	68	61	55	46	39
50	16	63	55	49	44	37	31
60	19.12	53	46	41	37	31	26

Load calculated according to DIN 4421

All spacings designed for worst load cases

Secondary beam as single - span beam - freely supported with deflection limit up to  $f = l/500$

Primary beams as double - span beams with max. shear force  $Q = 0,625 q \times l$   
and max Bending moment  $M = 0,125 q \times l^2$

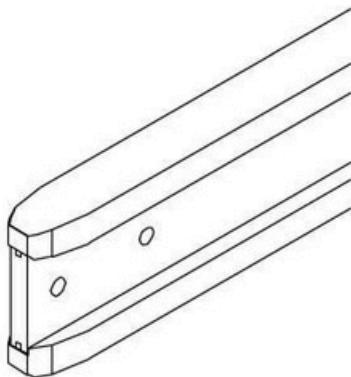
## System GHI - MULTIFLEX

### H-20 Beams

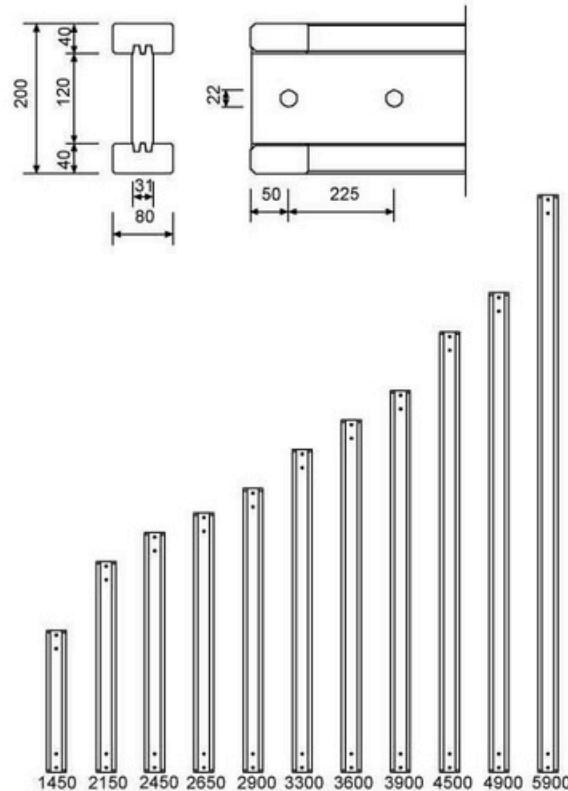
perm. Q = 11.0kN

perm. M = 5.0kNm

Iy=4290cm<sup>4</sup>



74990
74905
74910
74890
74920
74930
74940
74950
74960
74970
74980



GHI 20 & 30kN props are tested according to (EN 1065) and fully hot dipped galvanized. To make the system complete GHI props range from 250 cm to 550 maximum extension length, with 50cm increments given.

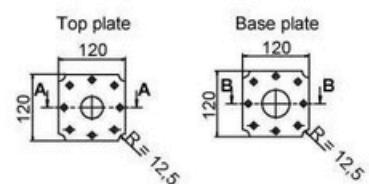
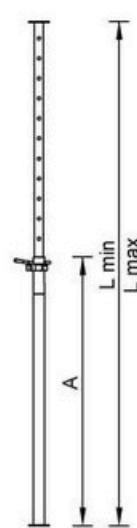


20KN

103061-1
103058
103059
103060
103061
103062

30KN

103062
103063
103065



	250	300	350	400	500	550
L min	1452	1702	1950	2349	2749	3097
L max	2500	3000	3500	4000	5000	5500
A	1370	1620	1868	2267	2667	3015

## **System GHI - MULTIFLEX: Accessories**

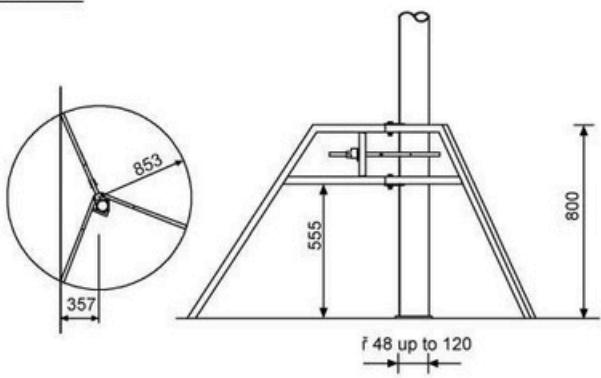
### **Universal Tripod, galv.**

For props  $\varnothing$  48 to  $\varnothing$  120mm

Can also be used in combination with MULTIPROP.



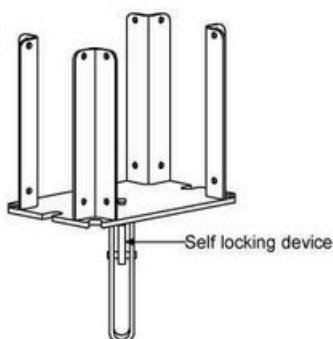
28000



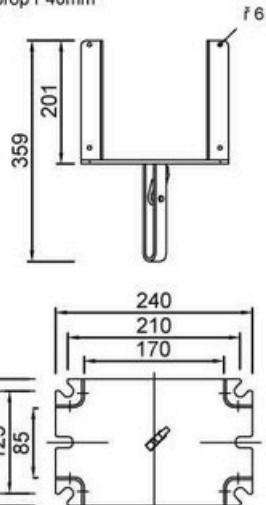
**Crosshead 20/24, galv.**

With self-locking coupling  
providing stable support for single or twin  
GT 24 or H -20 Beams.

28680



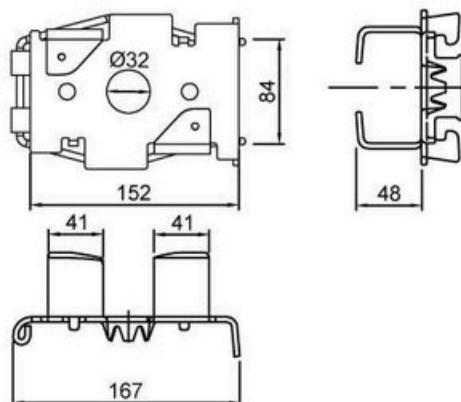
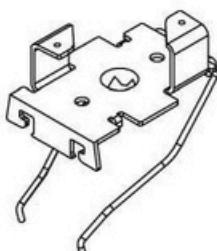
Required diameter of hole in the endplate of the prop is 40mm



### Supporting head H<sub>2</sub>O, galv.

**Required diameter of hole in the endplate  
of the prop = 40mm**

5861790



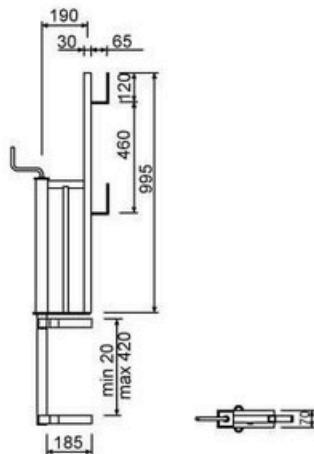
## **System GHI - MULTIFLEX: Accessories**

## **Handrail Holder**

For easy and quick clamping to concrete slabs for supporting handrail.

Adjustable from 20 up to 420mm

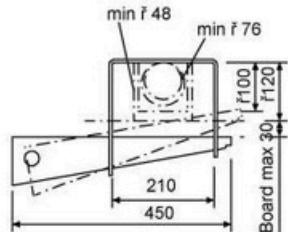
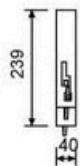
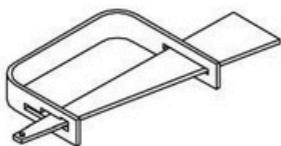
35700



### **Brace Clamp HL, galv.**

Diameter of prop ₦ 76 up to 89mm  
as well as ₦100 up to ₦120mm

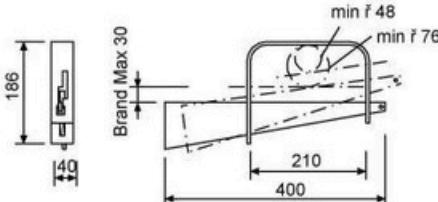
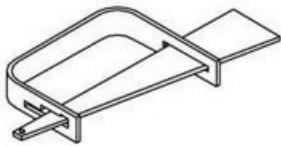
27790



### **Brace Clamp, galv.**

Diameter of prop 48 up to 76mm

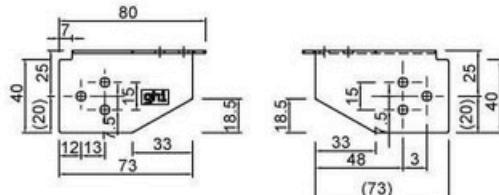
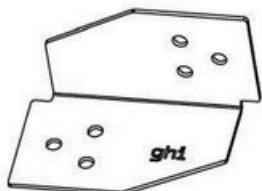
27940



#### Rafter plate

**Rafter plate**  
to fix the secondary beams  
to Primary beams

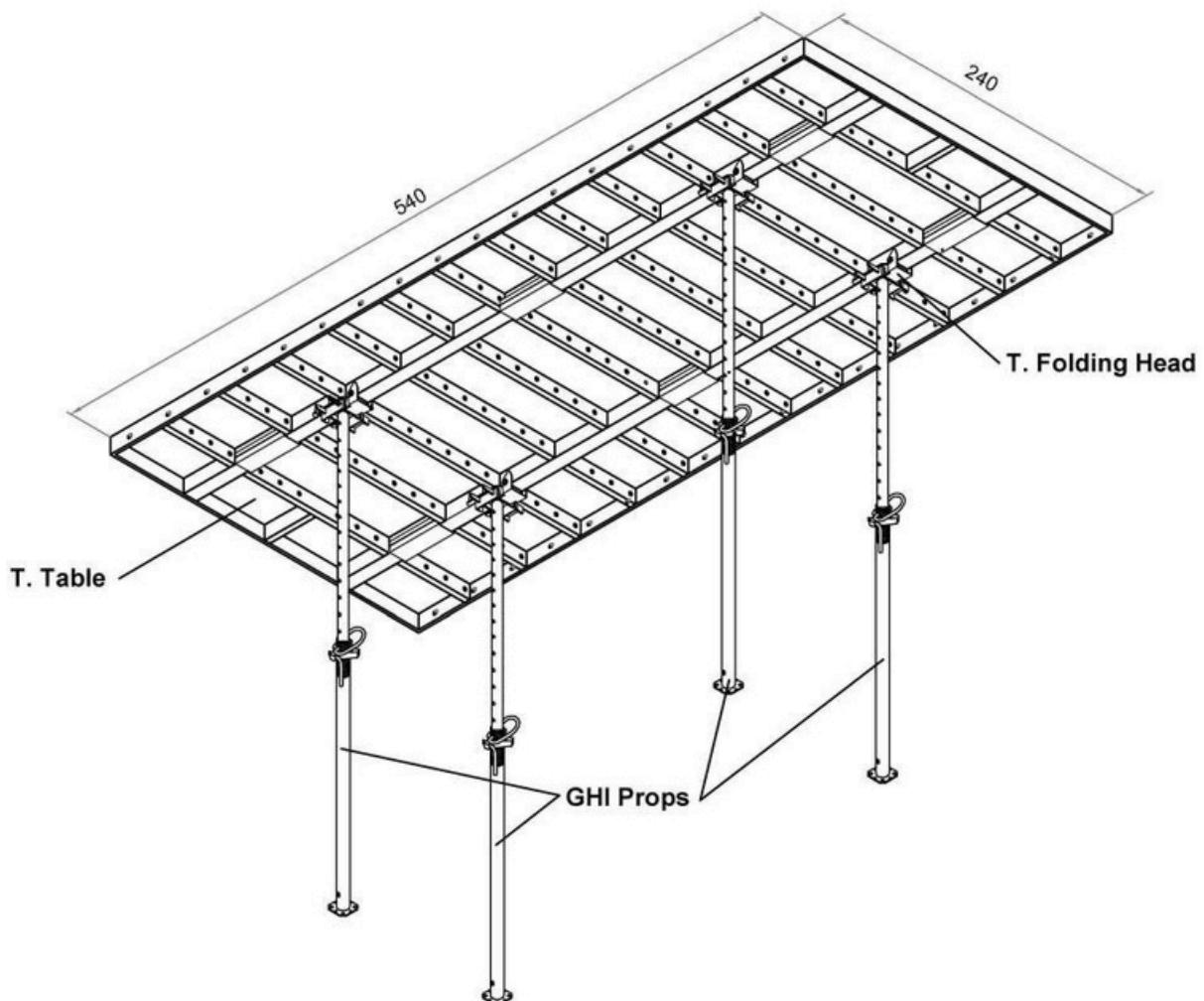
5825210



Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
35700	Handrail Holder	9.79			
27790	Brace Clamp HL, galv.	2.48			
27940	Brace Clamp , galv.	1.85			
5825210	Rafter plate.				

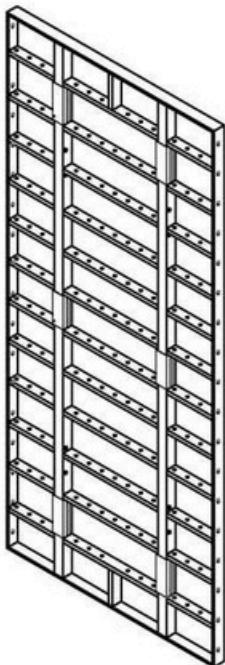
**System Topmax**

Topmax Table System Presentation



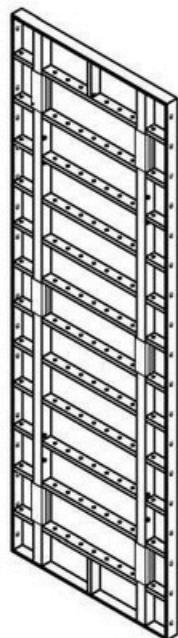
## System TOPMAX

### TOPMAX Panels



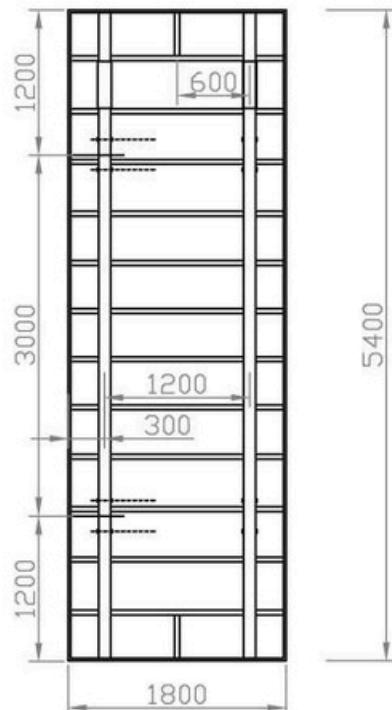
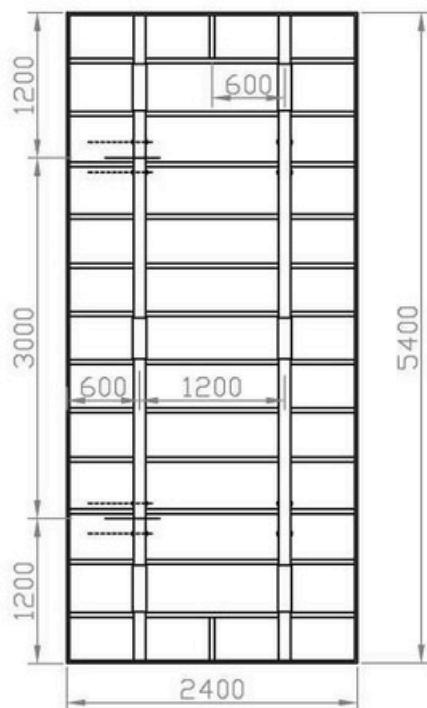
540/240

602586



540/180

603185



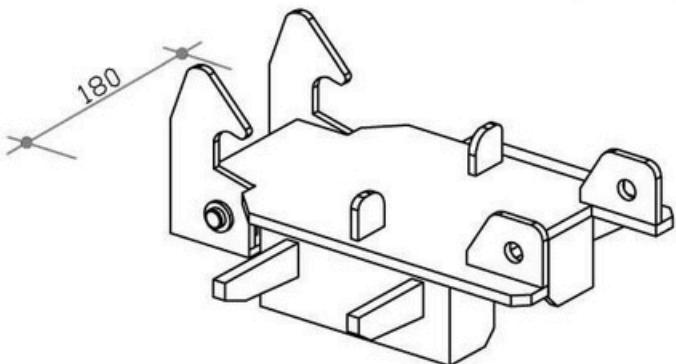
Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
602586	TOPMAX Panel 240 x 540	516.78	12.96		
603185	TOPMAX Panel 180 x 540	421.88	9.72		

## System Topmax

## Components

## TOPMAX Folding Head

602596



A technical drawing of a mechanical part, likely a bracket or frame. The top horizontal dimension is labeled 330. The bottom horizontal dimension is labeled 186. The drawing includes various features such as a slot, two circular holes, and a central vertical slot.

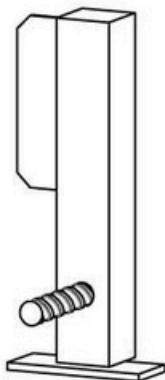
## TOPMAX Locking Pin

603067



TOPMAX Post fastener

603123

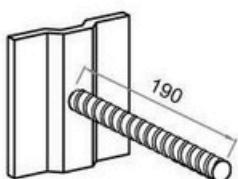


System Topmax

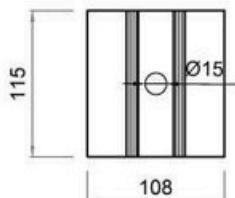
## Components

## Centering Tension Bolt

602586

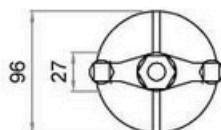


**Permitted load:** 40kN



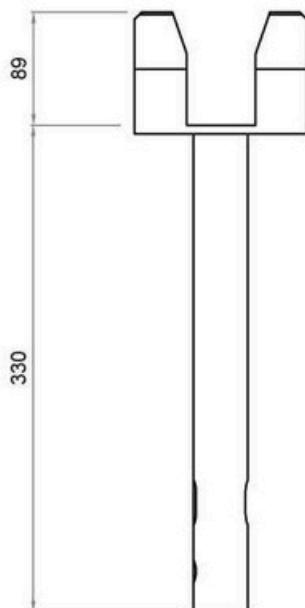
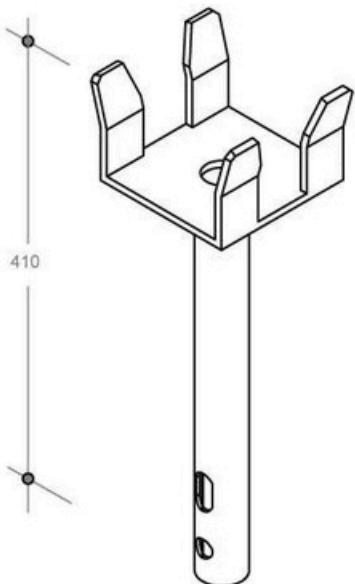
### **Wingnut Counterplate DW 15, galv.**

30110



TOPMAX Prop fixing Part

603141



## System Topmax

## Components- Wall Struts

## **Push-Pull Props PPS I**



28010

PPS I min 2050 - max 2940

PPS II min 2910 - max 3800

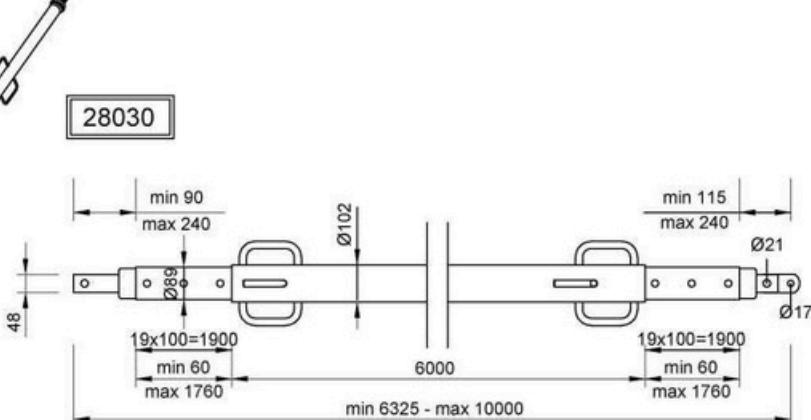
## **Push-Pull Props PPS II**

28020

PPS I 1915  
PPS II 3776

PPS II 2775

## **Push-Pull Props PPS III**

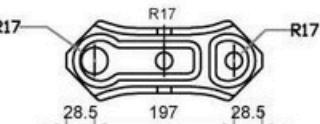
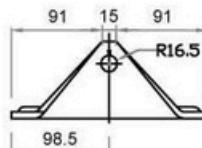


28030

28100

### **Plate for PPS-base/connection**

Complete with: Pin r 16x65/86 and  
Cotter pin 4/1 (1x)

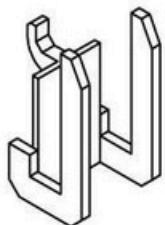


## System Topmax

## Components

## Topmax-Topec adapter

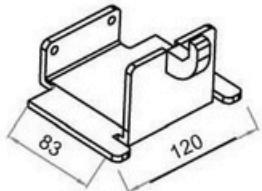
604515



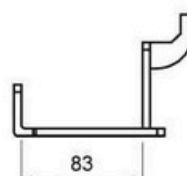
30

## Topmax timber holder

603235

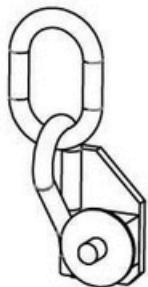


**Permitted vertical load : 1.9kN**



## Topmax crane suspension

603050



Permitted load capacity: 5kN

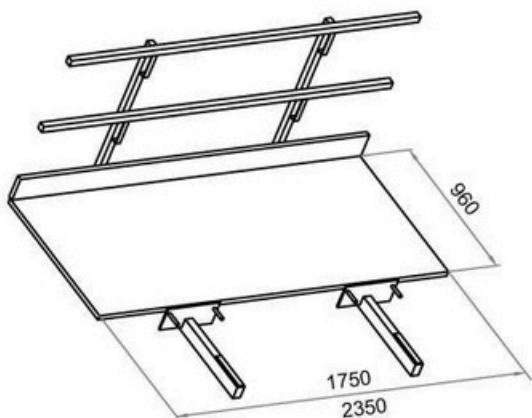


**System Topmax**

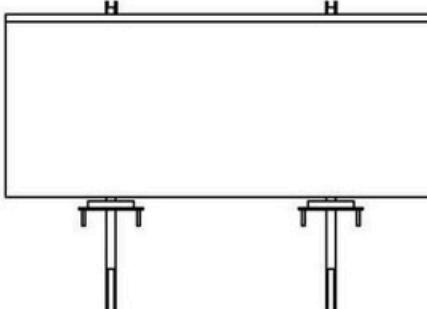
## Components

## Topmax working platform 2.4

603342



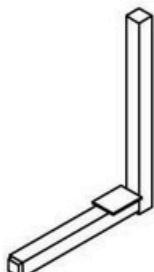
2350



Permitted load : 150 kg/m

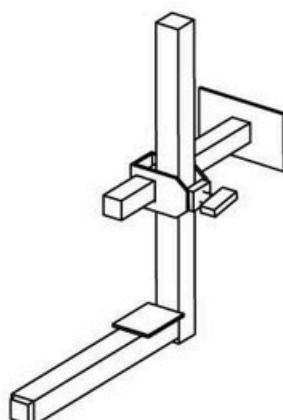
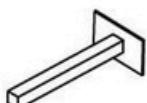
### Topmax stopend angle

603375



## Topmax stopend adjuster

603379



603432

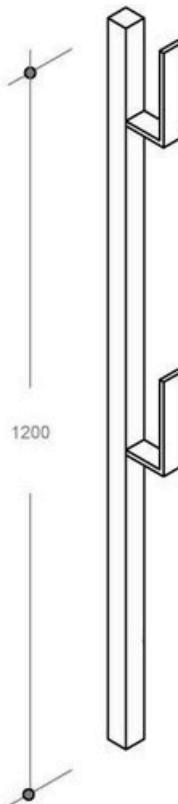
## Topmax stopend clamp

## System Topmax

#### **Protection and safety measures**

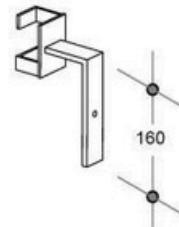
## Protecto railing post

601225



### **Protecto toe board**

601227

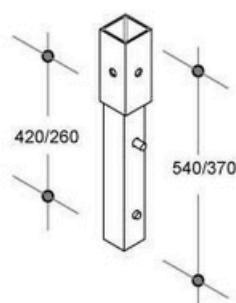


## Protecto post extension 42

602580

## Protecto post extension 26

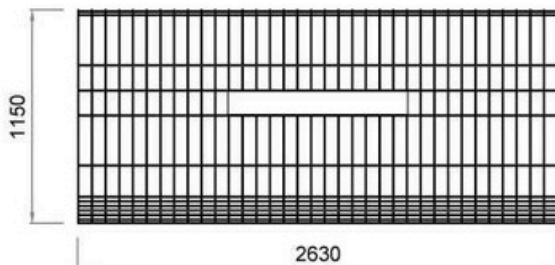
602111



## System Topmax

### **Protective mesh panel 1.15x2.63m**

601231



**Protective mesh panel 1.15 x 2.40 m**

604730

**Protective mesh panel 1.15 x 1.80 m**

604731

Protective mesh panel 1.15 x 1.30 m

604733

### Lifting jack carriage (standard)

603226



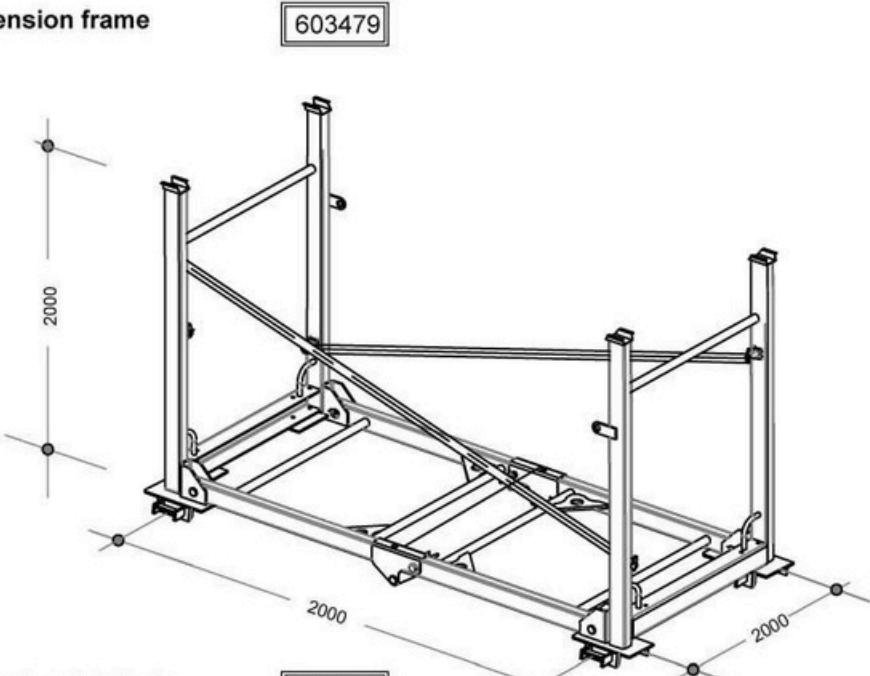
Permitted load max. 10.0 kN

Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
601231	Protective mesh 1.15 x 2.63m	22.0			
604730	Protective mesh 1.15 x 2.40m	20.0			
604731	Protective mesh 1.15 x 1.80m	15.18	-		
604733	Protective mesh 1.15 x 1.30m	10.55	-		
601227	Protecto toe board	0.69	-		
602580	Protecto post extension 42	1.20	-		
602111	Protecto post extension 26	0.69	-		

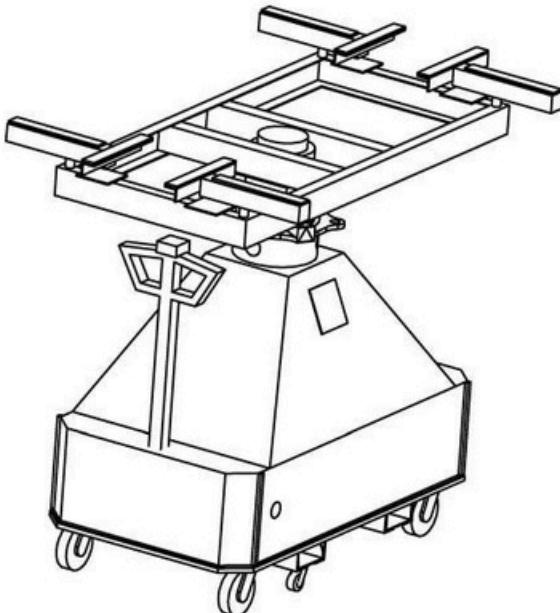
## System Topmax

## Components

## Topmax-extension frame



## Topmax-electric table jack lift



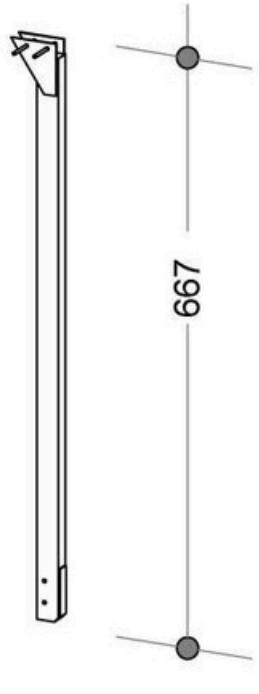
## System Topmax

## Lifting and moving equipment

## UG - vertical post 600

603596

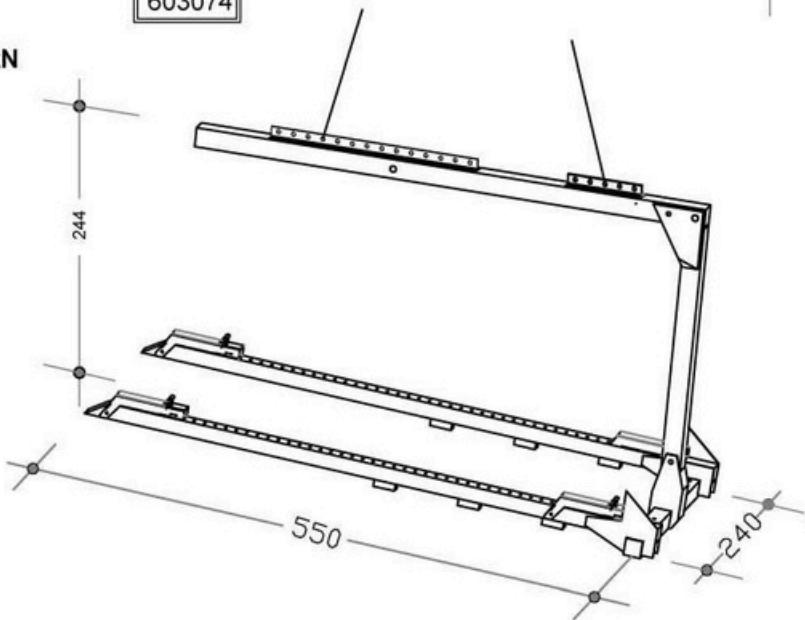
Permitted load max. 12.5 kN



## Topmax lifting fork

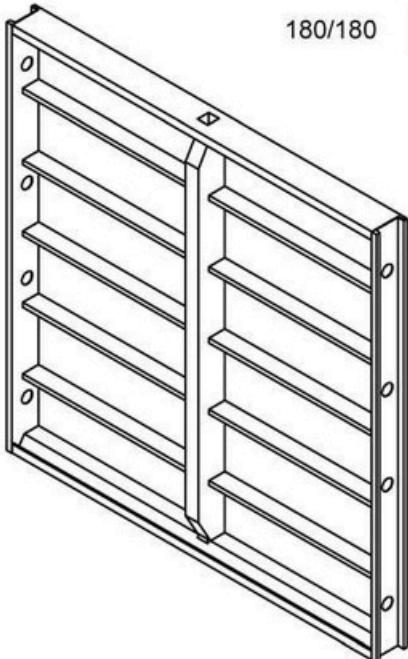
603074

Permitted load max. 12.5 kN



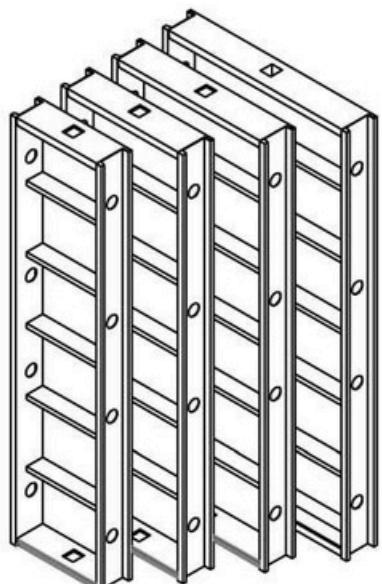
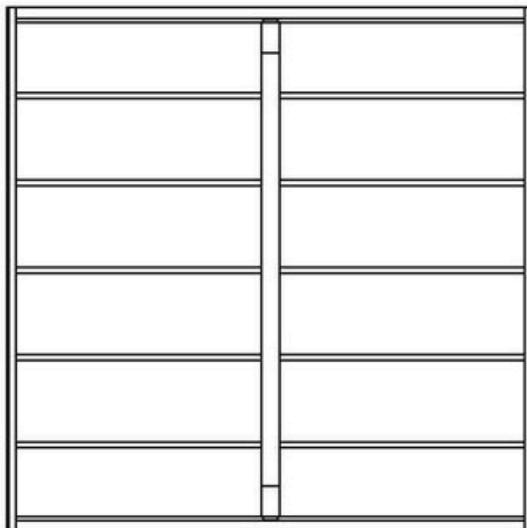
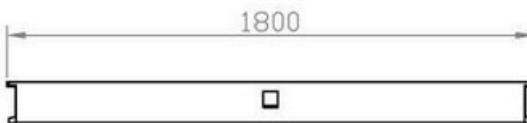
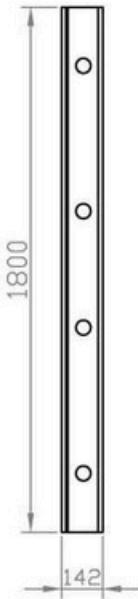
## System Topec

Topec Panel I=180



180/180

554000



180/90

548001

180/75

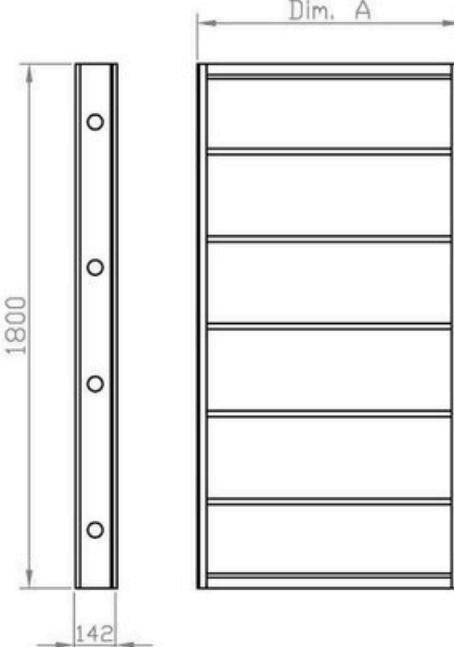
548012

180/60

548023

180/45

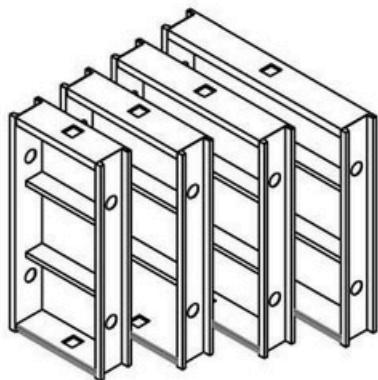
548034



Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
554000	Topec Panel 180/180	45.48	3.24		
548001	Topec Panel 180/90	21.42	1.62		
548012	Topec Panel 180/75	18.84	1.35		
548023	Topec Panel 180/60	16.43	1.08		
548034	Topec Panel 180/45	13.88	0.81		

## System Topec

Topec Panel I=90

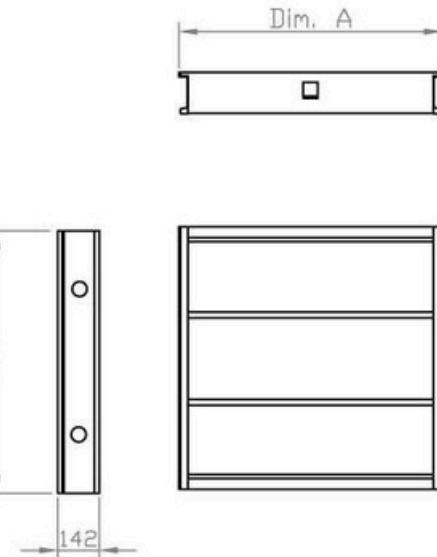


90/90

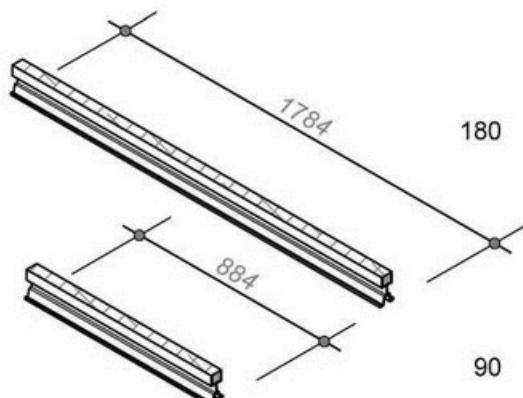
548089

90/60 548104

90/45 548115

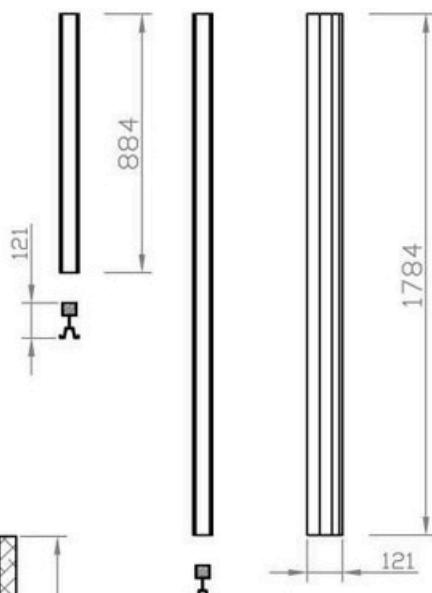


### Adjustable beams l=180; l=90;

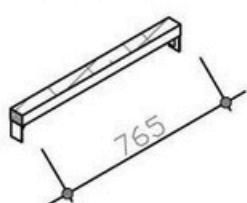


487890

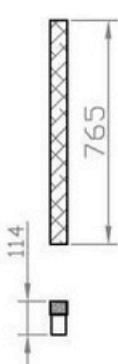
487880



### Transverse beam $I = 76$

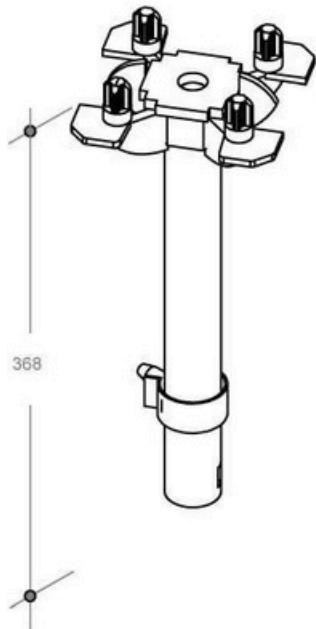


492806



## System Topec

## Topec Accessories



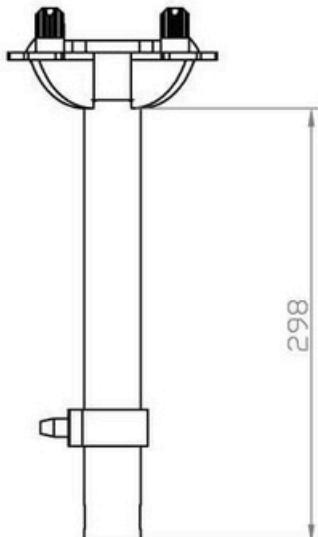
## Topec bearing

465410



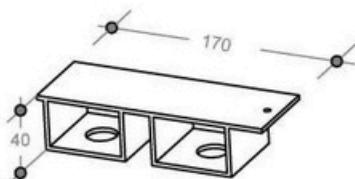
## Topec bolt

470804

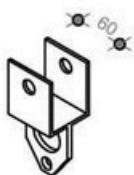


#### Topec support shoe

422558



Topec support shoe

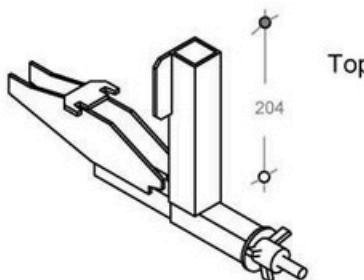


### Topec panel tension strap

600521

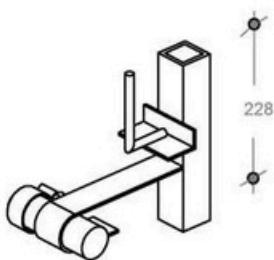
## System Topec

## Topec accessories

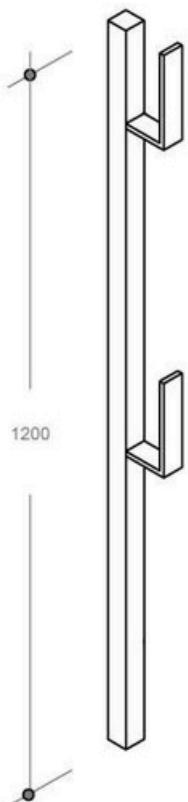


## Topec railing shoe

588474



Topec railing connector 448628



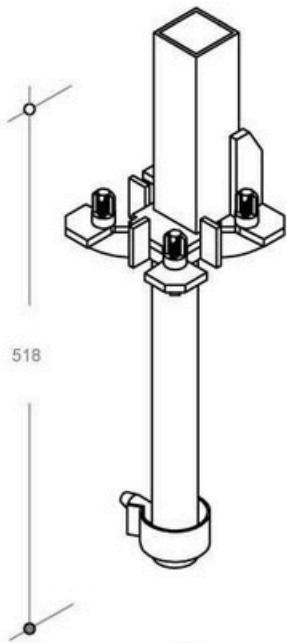
## Topec railing post

601225

# System Topec

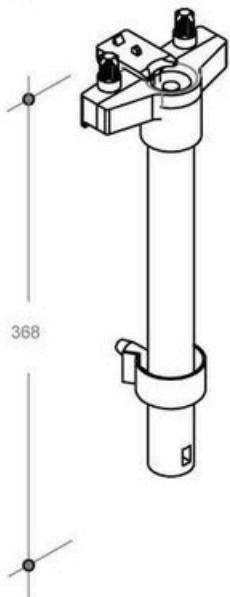
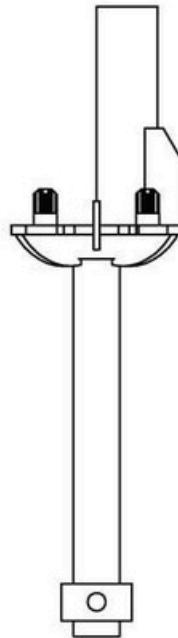
## Topec bearings

For Topec panels.....



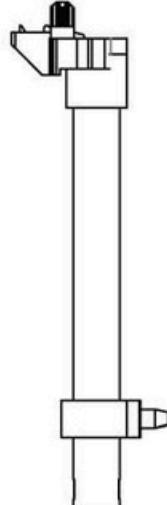
## Topec bearing for railing

606250



Topec edge support N

487673





GHI Formwork AG.  
Höffnerstraße 96  
CH- 63134 Unterägeri

complete FORMWORK solutions

GHI MJ Combi Metric System (Group 10.00)

## Modular Scaffolding **COMBI METRIC**

represented by



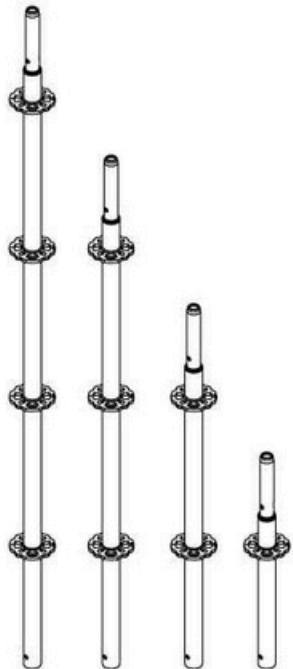
valid from 15.04.2013

## System MJ Combi Metric

Vertical Components:

MJ Vertical - Stadarts with Spigots

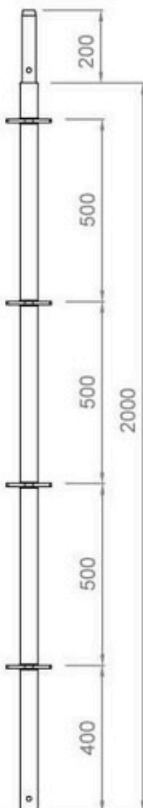
000727



000719

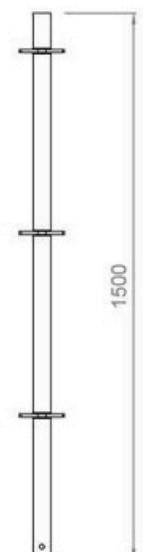
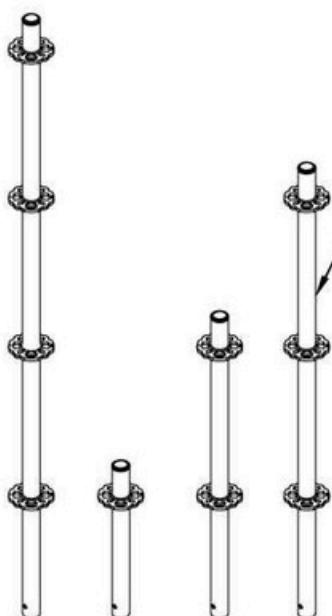
000706

000696



MJ Vertical - Stadarts without Spigots

000720

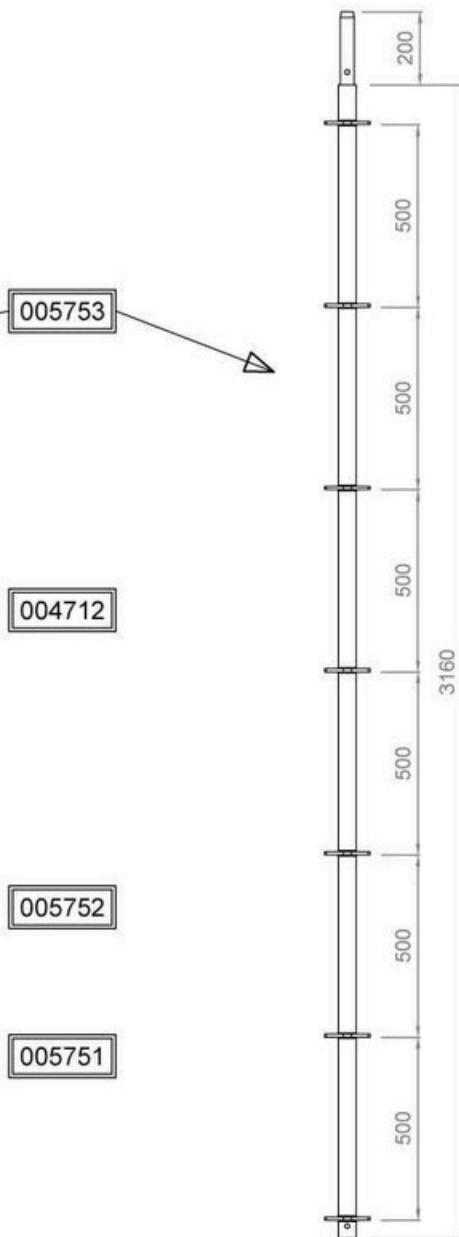
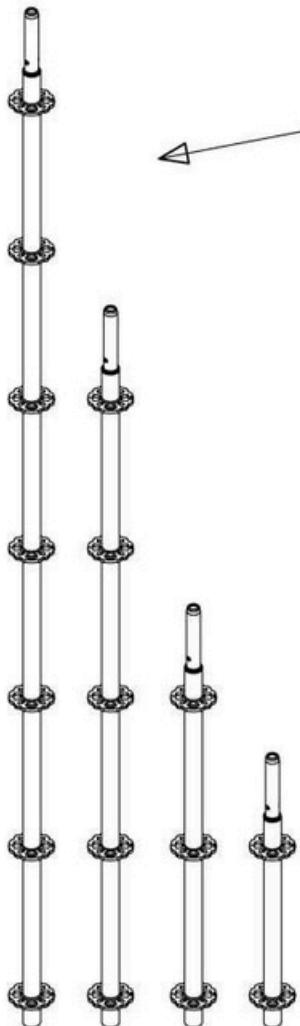


Stock Code	Stock Description	Dimensions	Weight	Stock Code	Stock Description	Dimensions	Weight		
Vertical Structural Elem.				Vertical Structural Elem.					
		H(cm)	L(cm)			H(cm)	L(cm)		
000696	Standart with spigot	50	-	3.20	000697	Standart without spigot	50	-	2.80
000706	Standart with spigot	100	-	5.20	000707	Standart without spigot	100	-	4.30
000719	Standart with spigot	150	-	7.70	000720	Standart without spigot	150	-	6.80
000727	Standart with spigot	200	-	9.80	000728	Standart without spigot	200	-	8.90
000764	Standart with spigot	250	-	12.10	000765	Standart without spigot	250	-	11.20
000738	Standart with spigot	300	-	14.40	000739	Standart without spigot	300	-	13.50
002892	Standart with spigot	350	-	16.70	-	-	-	-	
000745	Standart with spigot	400	-	18.50	000746	Standart without spigot	400	-	17.60

## System MJ Combi Metric

### **Vertical Components:**

MJ Vertical - Base Standards

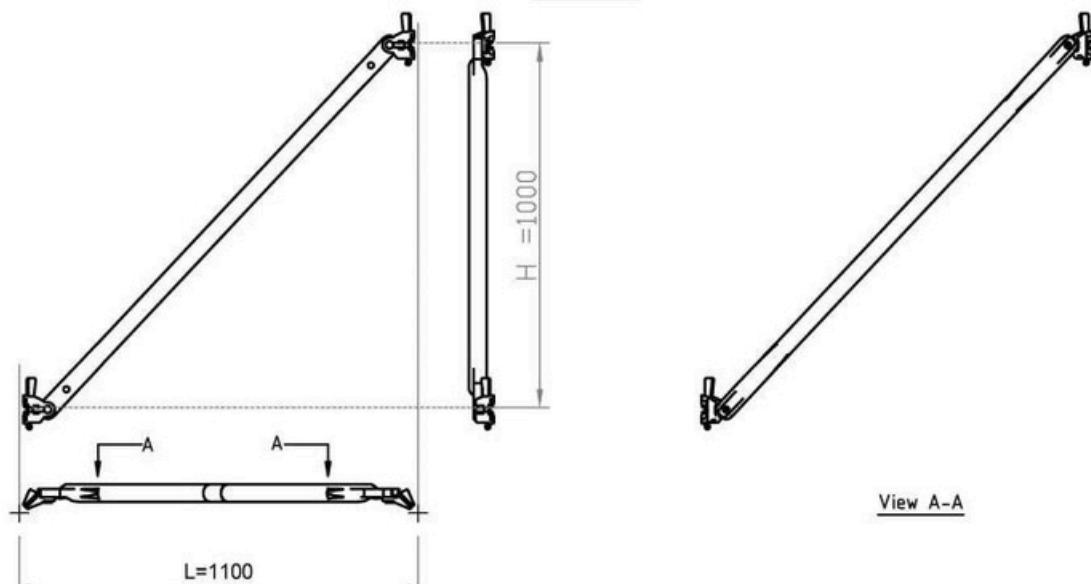


## System MJ Combi Metric

Vertical Components:

MJ Vertical - Diagonals

004943



Stock Code	Stock Description	Dimensions		Weight	Stock Code	Stock Description	Dimensions		Weight
	Vertical Diagonal	H(cm)	L(cm)	(kg)		Vertical Diagonal	H(cm)	L(cm)	
004949		50	100	4.50	004938		150	100	6.40
004948		50	150	5.70	004937		150	110	6.80
002184		50	200	7.00	000808		150	150	7.20
005108		50	250	8.20	000797		150	200	8.10
004947		50	300	9.50	000807		150	250	9.20
004946		100	50	4.70	000805		150	300	10.30
004945		100	74	5.00	004791		200	50	7.00
004944		100	75	5.10	006348		200	65	7.10
004943		100	100	5.40	004935		200	74	7.40
004942		100	110	5.50	004717		200	100	7.60
004941		100	125	5.80	004934		200	110	7.70
000803		100	150	6.30	007451		200	125	7.70
000802		100	200	7.40	004933		200	139	8.10
000801		100	250	8.60	000753		200	150	8.30
000804		100	300	9.80	000755		200	200	9.10
005684		150	50	6.00	000754		200	250	10.00
004939		150	74	6.20	000756		200	300	11.00



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CH- 63134 Unterägeri

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GHI MJ Combi Metric System (Group 10.00)

## System MJ Combi Metric

Vertical connection Components:

MJ Vertical - Spigot

005114

MJ Vertical - Metric bolt M12x65

010697

MJ Vertical - Self-locking nut M12

005817

MJ Vertical - Hinged pin 12x 60

012057

MJ Vertical - Locking pin Ø11

006241

MJ Vertical - Base jack fastening guard  
with half-coupler

010294

MJ Vertical - Base jack fastening guard  
with wedge-coupler

007165

MJ Vertical - Tensile connector for  
standarts

005115

Permitted tensile load 18.0kN

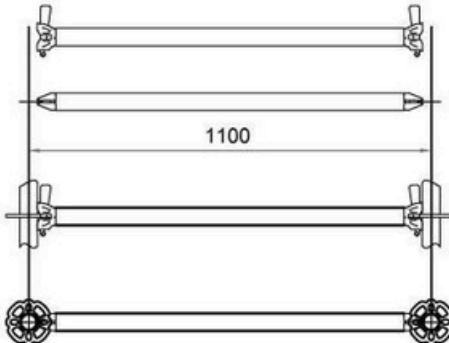
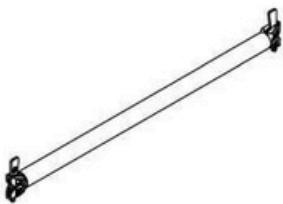
Stock Code	Stock Description	Weight	H-[cm]	Unit	Sale Only
	Vertical connection components				
005114	Spigot for vertical standarts	2.00	52		
010697	Metric bolt M12x65	0.06	-		
005817	Self locking nut M12	0.02	-		
012057	Hinged pin 12x60	0.085	-		
006241	Locking pin Ø11	0.15	-		
010294	Base jack fastening guard with half-coupler	2.0	40		
007165	Base jack fastening guard with wedge-coupler	2.4	64		
005115	Tensile connector for standarts	3.61	50		

## System MJ Combi Metric

Horizontal Components:

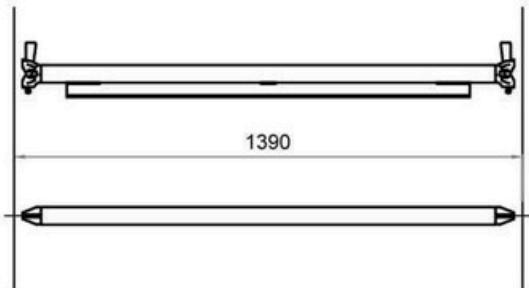
MJ Horizontal - O Legers

000763



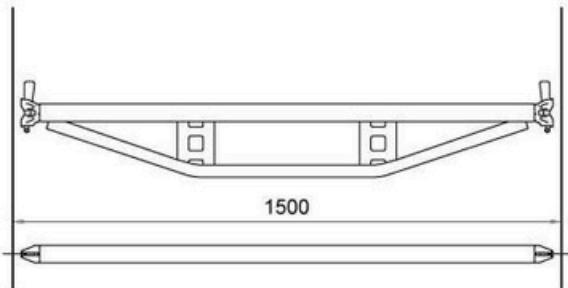
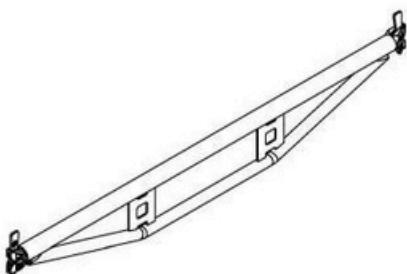
MJ Horizontal - Reinforced O Legers

005656



MJ Horizontal - Double O Legers

000759

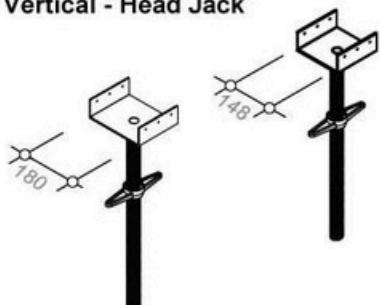


Stock Code	Stock Description	Dimensions		Weight	Stock Code	Stock Description	Dimensions		Weight
	Horizontal Structural El.	H(cm)	L(cm)	(kg)		Horizontal Structural El.	H(cm)	L(cm)	
005620	Pipe Ledger	-	25	1.40	000750	Pipe Ledger	-	200	7.60
005653	Pipe Ledger	-	41	2.00	000751	Pipe Ledger	-	250	9.40
004834	Pipe Ledger	-	50	2.20	000752	Pipe Ledger	-	300	10.90
006237	Pipe Ledger	-	65	2.90	004512	Pipe Ledger	-	400	13.30
004510	Pipe Ledger	-	74	3.55	005656	Reinforced Pipe Ledger	-	139	9.10
000748	Pipe Ledger	-	75	3.60	000790	Reinforced Pipe Ledger	-	150	9.90
000809	Pipe Ledger	-	100	4.00	000759	Double Pipe Ledger	-	150	9.50
000763	Pipe Ledger	-	110	4.20	000760	Double Pipe Ledger	-	200	12.60
005654	Pipe Ledger	-	125	4.90	000792	Double Pipe Ledger	-	250	15.70
005655	Pipe Ledger	-	139	5.40	000793	Double Pipe Ledger	-	300	18.50
000749	Pipe Ledger	-	150	6.10	-	-	-	-	-

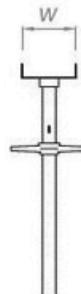
## System MJ Combi Metric

Vertical Components:

MJ Vertical - Head Jack



000693



011537

MJ Vertical - Base Jack

000318



000322



000323

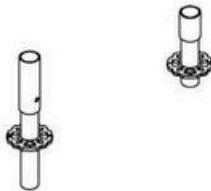
MJ Vertical - Base Jack swivel

013292

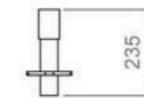


MJ Vertical - Base collar

004838



004525



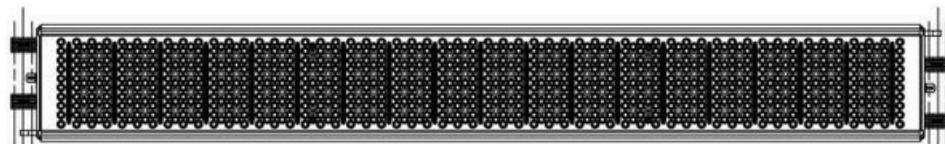
Stock Code	Stock Description	Dimensions		Weight	Stock Code	Stock Description	Dimensions		Weight
	Vertical Structural Elem.	H(cm)	L(cm)	(kg)		Vertical Structural Elem.	H(cm)	L(cm)	
000693	Head Jack	-	148	5.60	000323	Base Jack - swivel	50	-	3.10
011537	Head Jack	-	180	8.30	013292	Base Jack - swivel	80	-	4.30
000318	Base Jack	30	-	2.40	004838	Base collar	230	-	1.40
000319	Base Jack	50	-	3.10	004525	Base collar	430	-	2.50
000320	Base Jack	60	-	3.40					
000321	Base Jack	78	-	3.90					
000322	Base Jack	100	-	4.70					

## System MJ Combi Metric

Horizontal Components:

MJ Combi M. - O-Steel Access Decks  
0.32m

008798

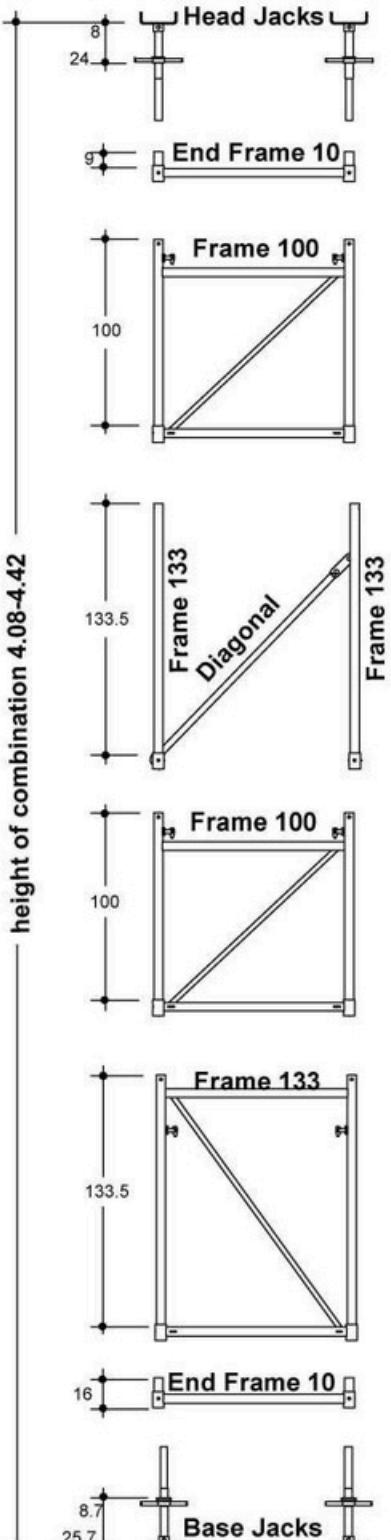
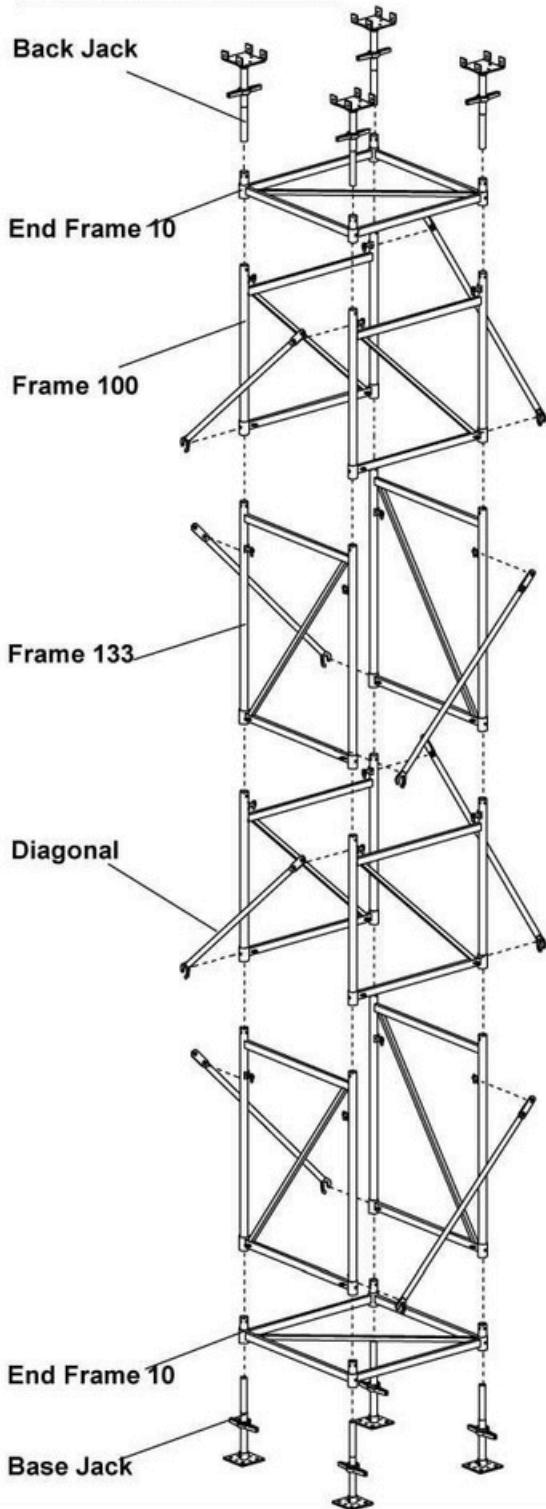


MJ Combi M. -Story Ladder 2.16m

000172

Stock Code	Stock Description	Weight	L-[cm]	Unit	Sale Only
	MJ Combi M. O-Steel Access Decks 0.32m				
008791	MJ Combi M. O-Steel Deck	7.20	75		
008792	MJ Combi M. O-Steel Deck	8.70	100		
008793	MJ Combi M. O-Steel Deck	9.10	110		
008796	MJ Combi M. O-Steel Deck	12.20	150		
008797	MJ Combi M. O-Steel Deck	15.30	200		
008798	MJ Combi M. O-Steel Deck	18.40	250		
008799	MJ Combi M. O-Steel Deck	21.40	300		
000172	MJ Combi M. Story Ladder-steel	10.50	216		

## System GHI D15



height of combination 4.08-4.42

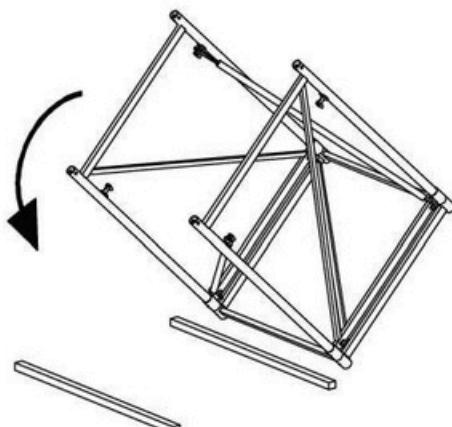
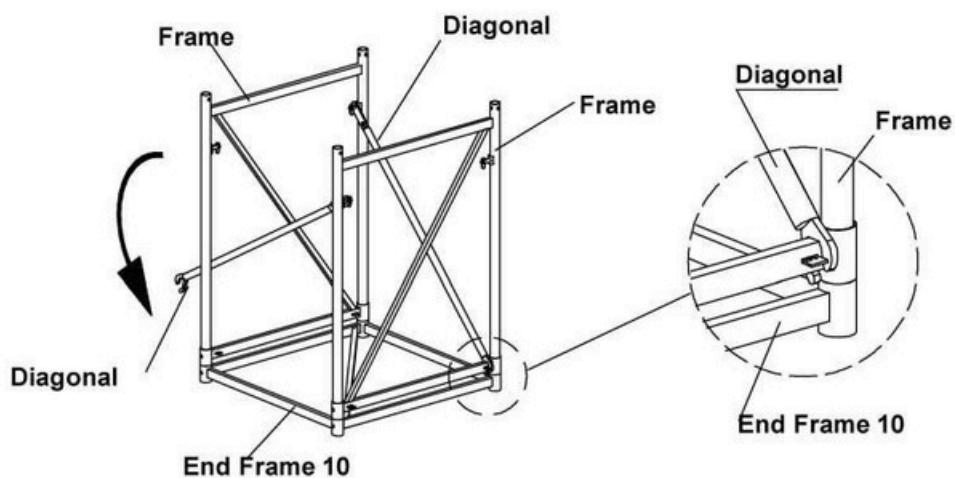
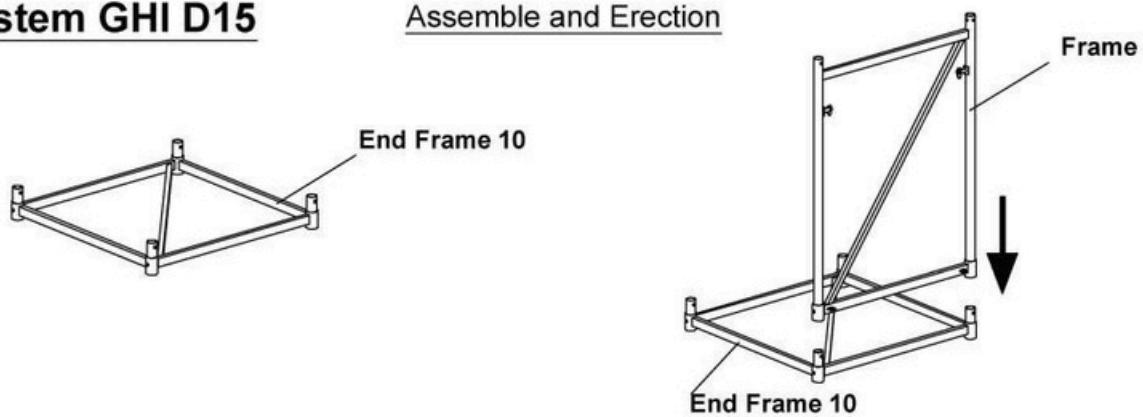
Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only	
148530	Head Spindle 38/52	8.200				
148552	Base Spindle 38/53	8.000				
057162	Frame 133	19.100				
057173	Frame 100	16.100				
148574	Diagonal	2.800				
118163	End Frame 10	15.800				

## Table of Combinations

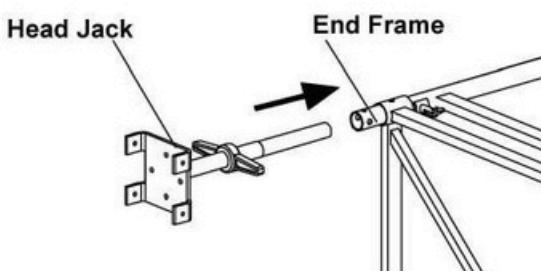
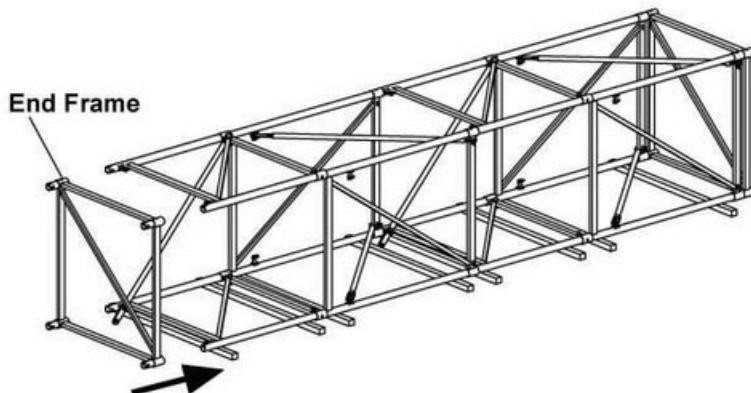
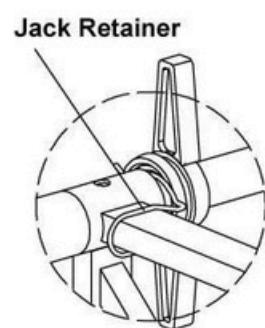
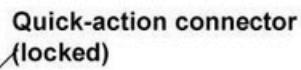
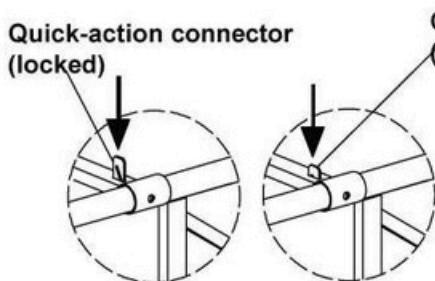
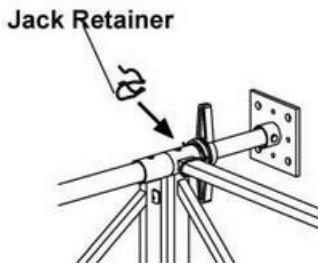
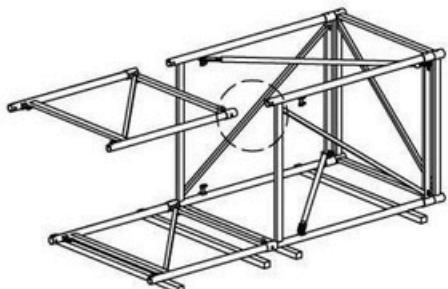
ART NO	148 530	148 552	057 162	057 173	118 163	148 574	WEIGHT OF TOWER
WIEGHT\ITEM KG	8.2	8	19.1	16.1	15.8	2.8	
HEIGHT OF TOWER	HEAD JACK	BASE JACK	FRAME 133	FRAME 100	END FRAME10	DIAGONAL	
1.42-1.75	4	4	-	2	2	2	134.2
1.75-2.08	4	4	2	-	2	2	140.2
1.84-2.17	4	4	2	-	2	2	156
1.93-2.26	4	4	2	-	2	2	171.8
2.42-2.75	4	4	-	4	2	4	172
2.75-3.08	4	4	2	2	2	4	178
3.09-3.42	4	4	4	-	2	4	184
3.42-3.75	4	4	-	6	2	6	209
3.75-4.08	4	4	2	4	2	6	215
4.09-4.72	4	4	4	2	2	6	221
4.42-4.75	4	4	6	-	2	6	227
4.75-5.08	4	4	2	6	2	8	253.6
5.09-5.72	4	4	4	4	2	8	259.6
5.42-5.75	4	4	6	2	2	8	265.6
5.76-6.09	4	4	8	-	2	8	271.6
6.09-6.42	4	4	4	6	2	10	297.4
6.42-6.75	4	4	6	4	2	10	303.4
6.76-7.09	4	4	8	2	2	10	309.4
7.09-7.42	4	4	10	-	2	10	315.4
7.42-7.76	4	4	6	6	2	12	341.2
7.76-8.09	4	4	8	4	2	12	347.2
8.09-8.42	4	4	10	2	2	12	353.2
8.42-8.76	4	4	6	-	2	12	359.2
8.76-9.09	4	4	8	6	2	14	385
9.09-9.42	4	4	10	4	2	14	391
9.43-9.76	4	4	12	2	2	14	397
9.76-10.09	4	4	14	-	2	14	403
10.09-10.43	4	4	10	6	2	16	428.8
10.43-10.76	4	4	12	4	2	16	434.8
10.76-11.09	4	4	14	2	2	16	440.8
11.10-11.43	4	4	16	-	2	16	446.8
11.43-11.76	4	4	12	6	2	18	472.6
11.76-12.09	4	4	14	4	2	18	478.6
12.10-12.43	4	4	16	2	2	18	484.6
12.43-12.76	4	4	18	-	2	18	490.6
12.76-13.09	4	4	14	6	2	20	516.4
13.10-13.43	4	4	16	4	2	20	522.4
13.43-13.76	4	4	18	2	2	20	528.4
13.77-14.10	4	4	20	-	2	20	534.4
14.10-14.43	4	4	16	6	2	22	560.2
14.43-14.76	4	4	18	4	2	22	566.2
14.77-15.10	4	4	20	2	2	22	572.2
15.10-15.43	4	4	22	-	2	22	578.2
15.43-15.76	4	4	18	6	2	24	604
15.77-16.10	4	4	20	4	2	24	610
16.10-16.43	4	4	22	2	2	24	616
16.44-16.77	4	4	24	-	2	24	622
16.77-17.10	4	4	20	6	2	26	647.8
17.10-17.43	4	4	22	4	2	26	653.8
17.44-17.77	4	4	24	2	2	26	659.8
17.77-18.10	4	4	26	-	2	26	665.8
18.10-18.43	4	4	22	6	2	28	691.6
18.44-18.77	4	4	24	4	2	28	697.6
18.77-19.10	4	4	26	2	2	28	703.6
19.10-19.44	4	4	28	-	2	28	709.6
19.44-19.77	4	4	24	6	2	30	735.4
19.77-20.10	4	4	26	4	2	30	714.4

## System GHI D15

### Assemble and Erection



System GHI D15

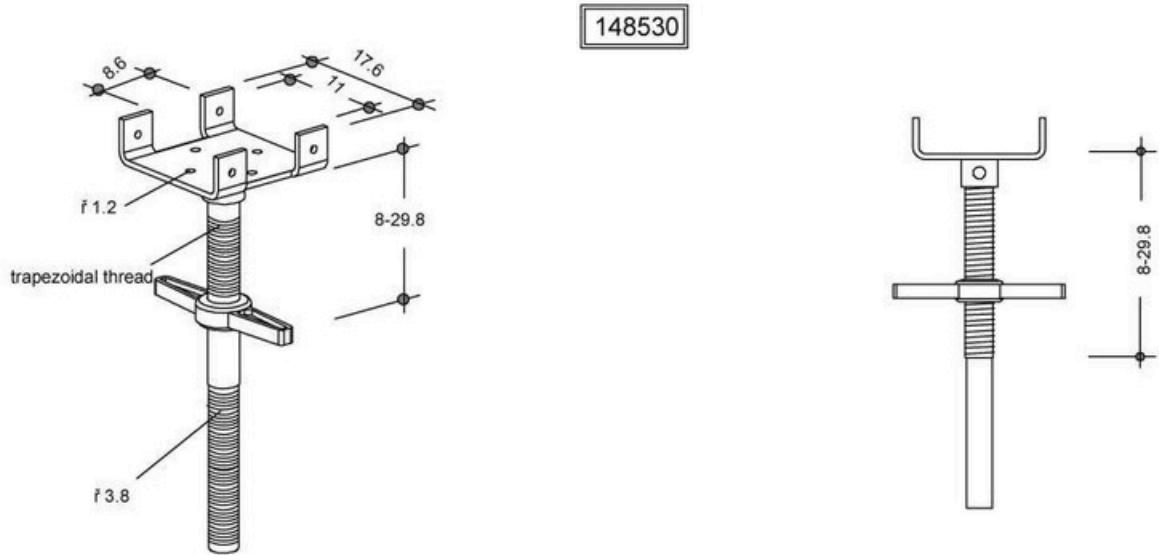


## System GHI D15

Head Jack 38/52

For bearing timber or steel beams. Slope of up to 6% can be compensated by the head plate.

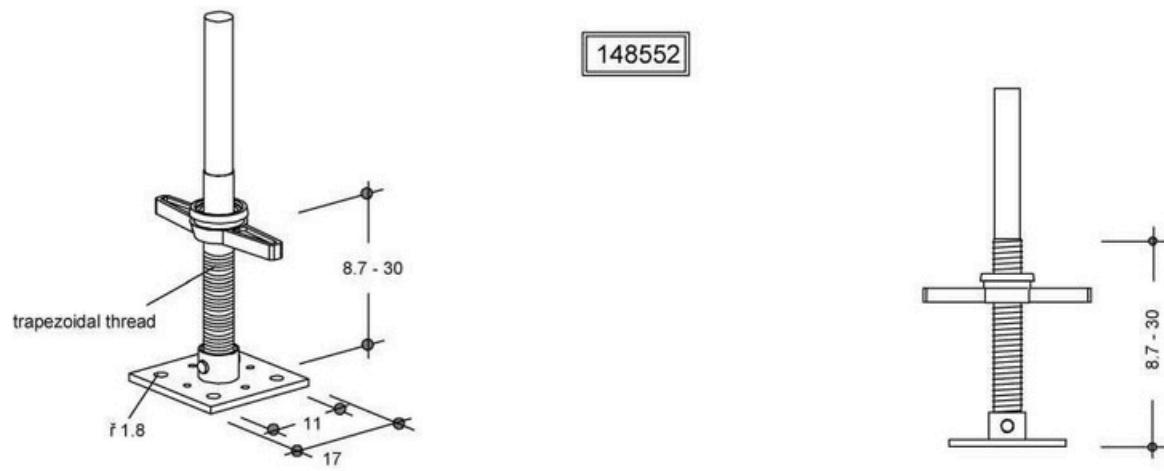
Height adjustment: from 8 cm to 29.8 cm.



Base Jack 38/52

For setting-up the frame support. Slope of up to 6 % can be compensated by the head plate.

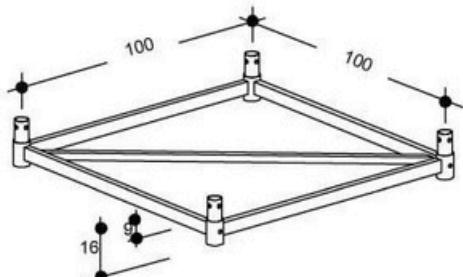
Height adjustment: from 8.7 cm to 30.0 cm



## System GHI D15

D End Frame 10

To be assembled as sectional bracing of the frame support to ensure the square shape. Always installed at the top and at the base.  
Installation height at the top: 9cm  
Installation height at the base: 16cm

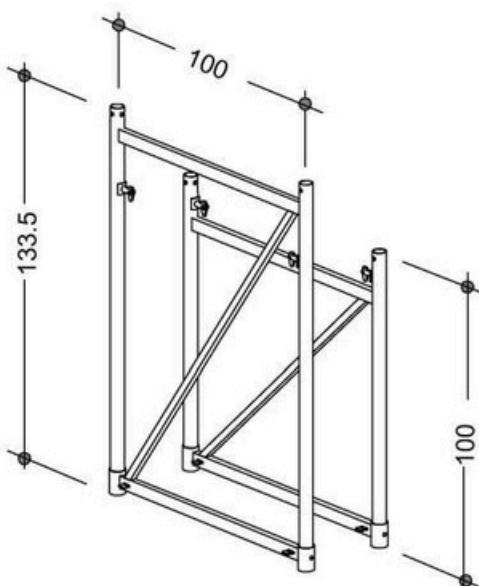
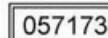


D Frame 133



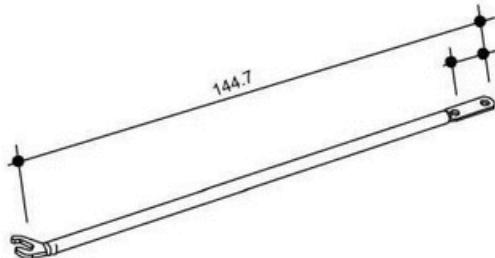
D Frame 100

The frame has tension-resistant connection with the tightly built-in wedges (quick-action connectors.) Pins with gravity flips are provided for attaching the diagonals.  
Design height of frame :100 cm or 133.5 cm.



## D Diagonal

Used for bracing both types of frame within the tower at right angles to frame plane.  
The lower end with its claws is fixed to the horizontal bottom bar of one frame, the upper end fixed to the hinged pin of the opposite frame.



## System GHI D 15

### Scaffold tubes 48.3 x 3.2mm

Scaffold tube 150, 200, 250, 300, 350,  
400, 450 & 500

026411

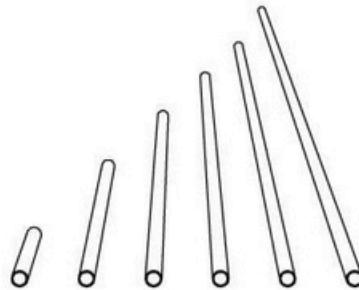
026412

026413

026414

026419

026418

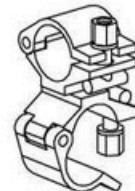


### Double Coupler/Rigid Coupler 48/48

Permissible load: 9kN

Required torque: 5kN cm

17020



### Swivel Coupler 48/48

Permissible load: 5kN

Required torque: 5kN cm

17010



### D Base Jack Retainer

Prevents the base jack or head/base piece from dropping-out when towers are lifted and moved by crane.

78652



Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
78652	D Base Jack Retainer	0.10			X
17020	Double/Rigid Coupler 48/48	1.20			X
17010	Swivel Coupler 48/48	1.40			X
026411	Scaffold tube 100	3.55			X
026412	Scaffold tube 200	7.10			X
026413	Scaffold tube 300	10.65			X
026414	Scaffold tube 400	14.20			X
026419	Scaffold tube 500	17.75			X
026418	Scaffold tube 600	21.60			X

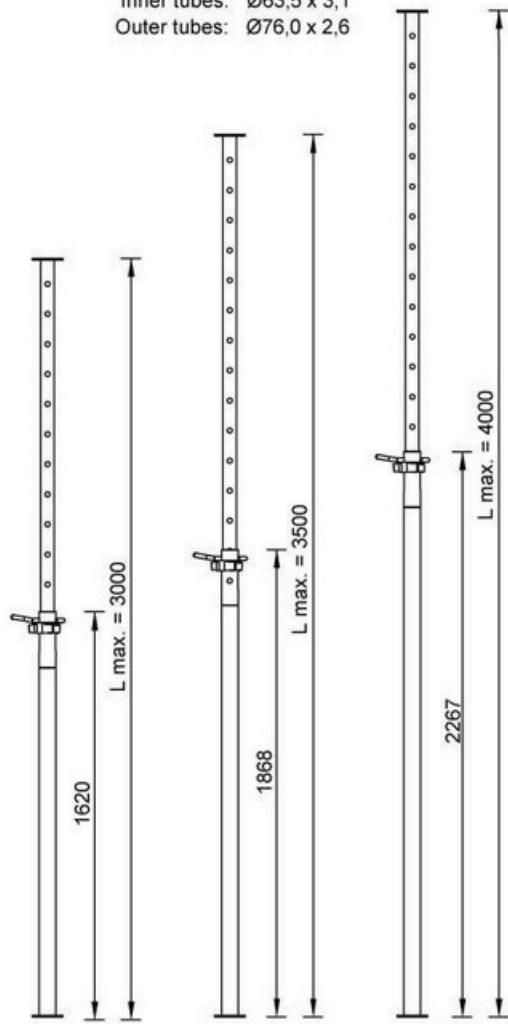
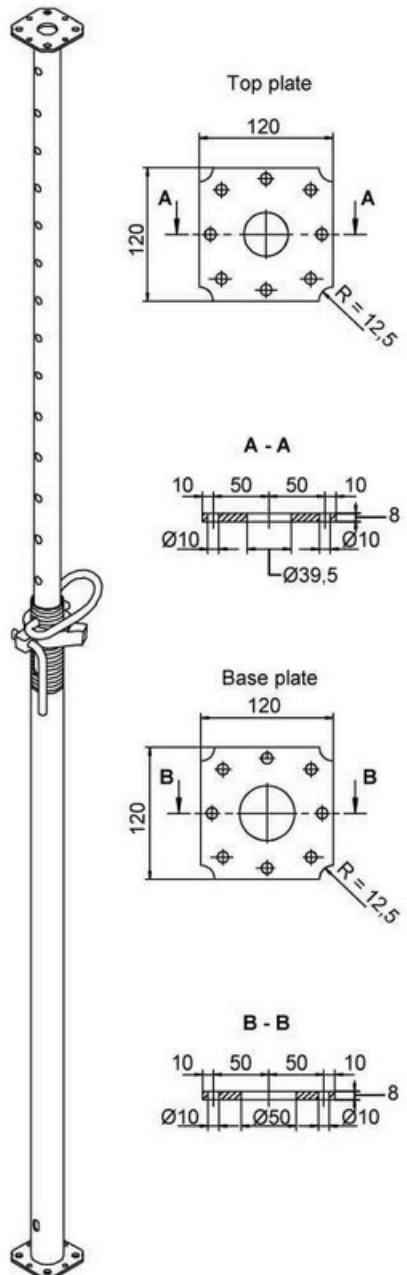
## **System GHI - MULTISTEEL: PROPS**

**GHI 30 kN** props are tested to (EN1065) and fully hot dipped galvanized.

GHI 30 kN props range from 300 cm to 400cm maximum extension length, with 50cm increments given.

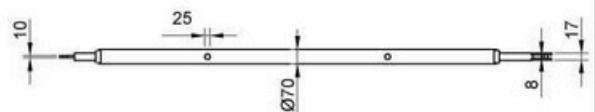
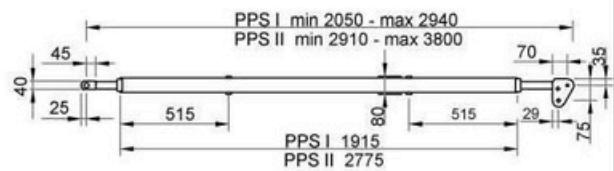
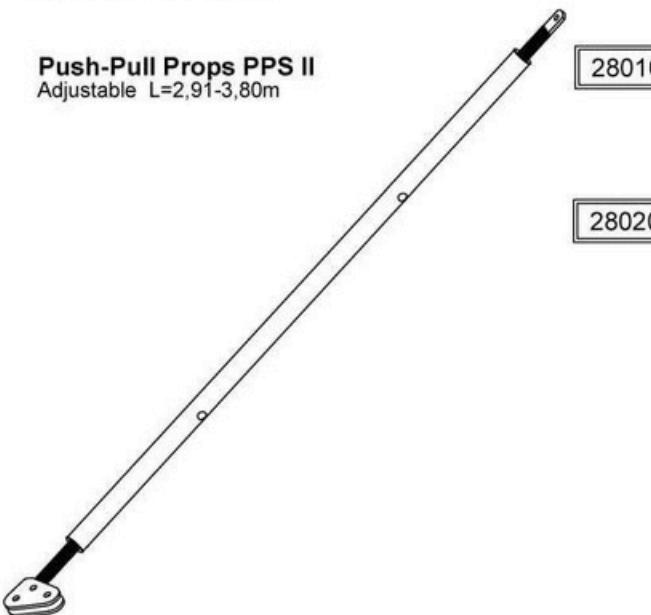
103062

Inner tubes: Ø63,5 x 3,1  
Outer tubes: Ø76,0 x 2,6



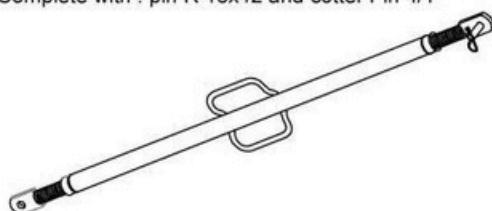
## System GHI - PPS Push-Pull Props and Accessories

**Push-Pull Props PPS I**  
Adjustable L=2,05-2,94m

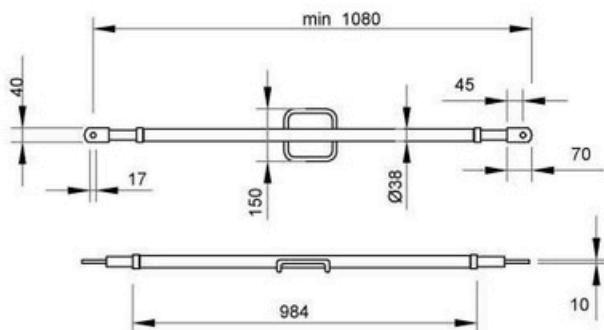


**Kicker KS**

L=1,08 - 1,40m  
Complete with : pin R 16x42 and cotter Pin 4/1

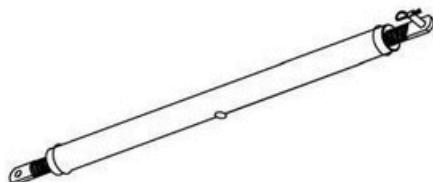


28110

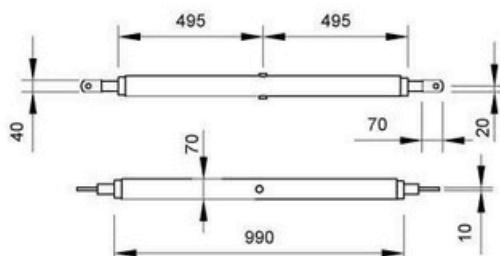


**Kicker KS 190/210**

L=1,10 - 1,90m  
Complete with : pin R 16x42 and cotter Pin 4/1



28270

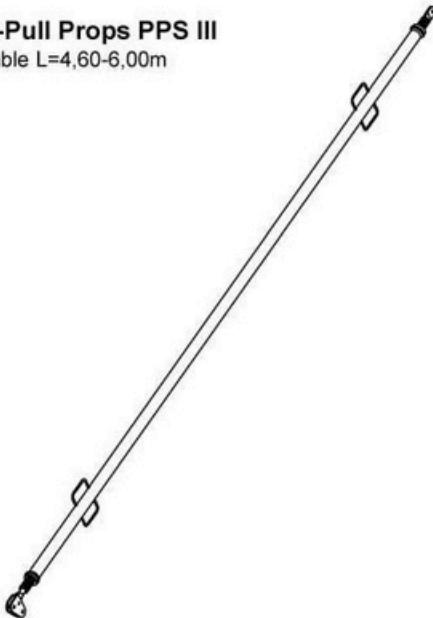


Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
28010	Pull-Pull Props PPS I	18,00			
28020	Pull-Pull Props PPS II	22,10			
28110	Kicker KS	5,20			
108135	Kicker KS 190/210	13,10			
27170	Pin Ø16x42	0,24		1	X
18060	Cotter pin 4/1	0,033		1	X

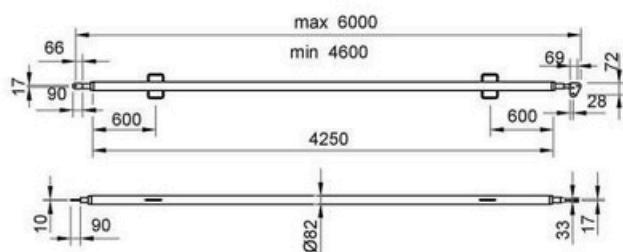
## System GHI - PPS Push-Pull Props and Accessories

### Push-Pull Props PPS III

Adjustable L=4,60-6,00m



28030



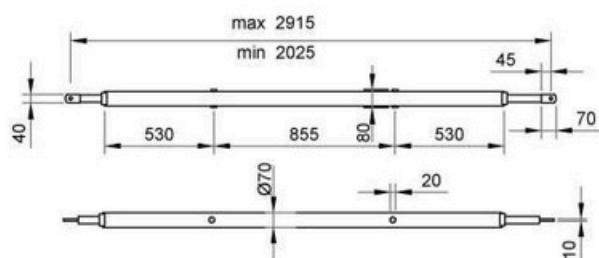
### Kicker Brace PPS III

L=2,05-2,94m

Complete with : Pin Ø 16x42 and Cotter Pin 4/1



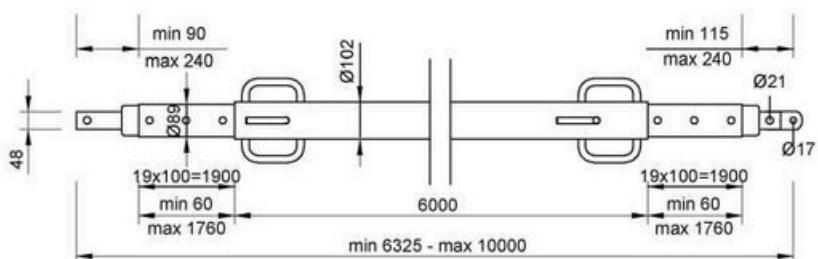
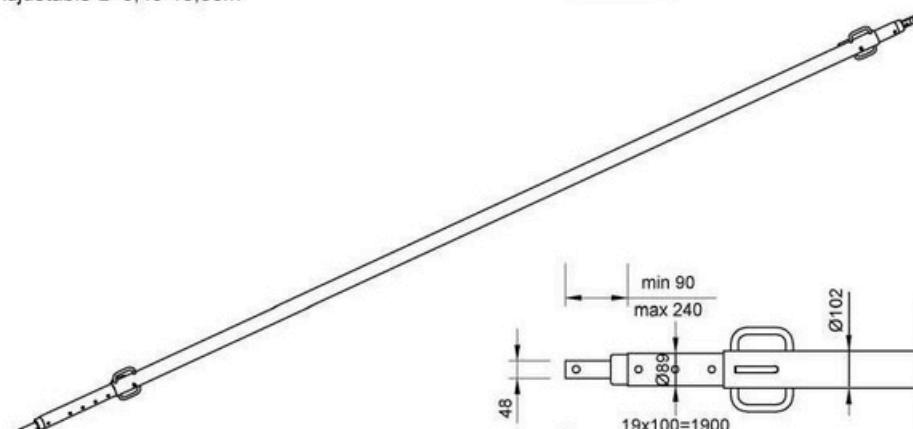
28120



### Push-Pull Props PPS 1000

Adjustable L=6,40-10,00m

28990



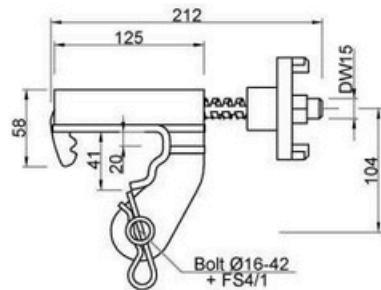
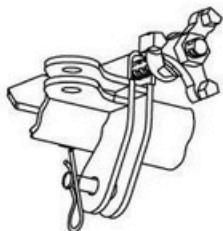
Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
28030	Pull-Pull Props PPS III	38,80			
28120	Kicker Brace PPS III	17,00			
28990	Push-Pull Props PPS 1000				
27170	Pin Ø16x42	0,24		1	X
18060	Cotter pin 4/1	0,033		1	X

## System GHI - PPS Push-Pull Props and Accessories

### TriTec Prop Connector TT-PPS

For fixing Push-Pull props and kickers to the TriTec Panels on vertical and horizontal struts.  
Complete with Pin Ø 16x42 and Cotter Pin 4/1

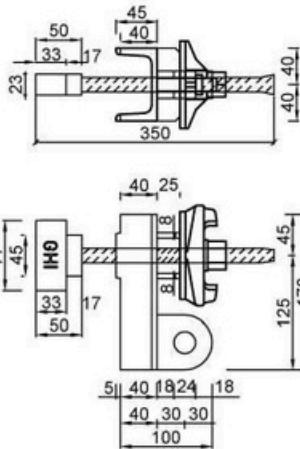
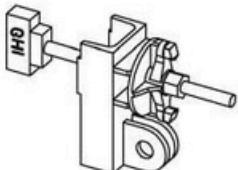
23660



### WS 10 Waler connector

For fixing Push-Pull props and kickers to the WS FLEX 50 waler.  
Complete with:  
Bolt and nut

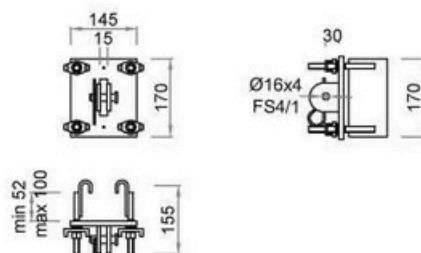
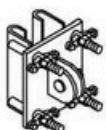
28060



### Girder Headpiece 20/A, galv.

For fixing Push-Pull Props  
and Kicker Braces to the H 20 Beams  
Complete with:  
Pin Ø 16x42 and Cotter Pin 4/1 (1x).

028070



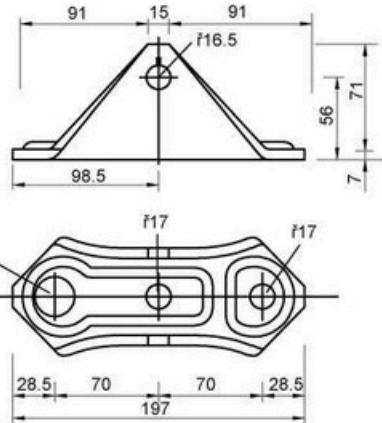
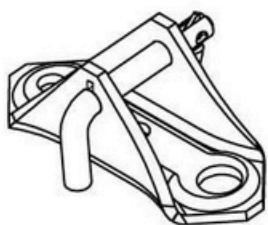
Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only	
23660	TriTec Prop Connector TT-PPS	3,26				
28060	WS 10 WALER CONECTOR	4,040				
28070	Girder headpiece 20/A					
27170	Pin Ø16x42	0,24		1	x	
18060	Cotter pin 4/1	0,033		1	x	

## **System GHI - PPS Push-Pull Props and Accessories**

## Base Plate for PPS

Complete with: Pin ſ 16x65/86 and  
Cotter pin 4/1 (1x)

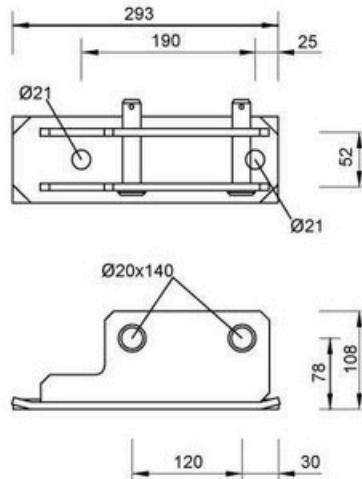
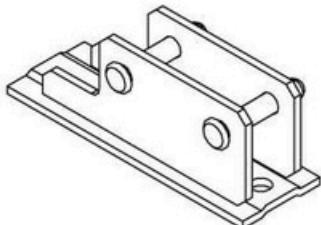
28100



### Base Plate for PPS 1000

Complete with: Pin ř 16x65/86 and  
Cotter pin 4/1 (1x)

102018



## SB Supporting Brace Frames

The supporting construction frame for single-sided concreting up to 7.85 m high

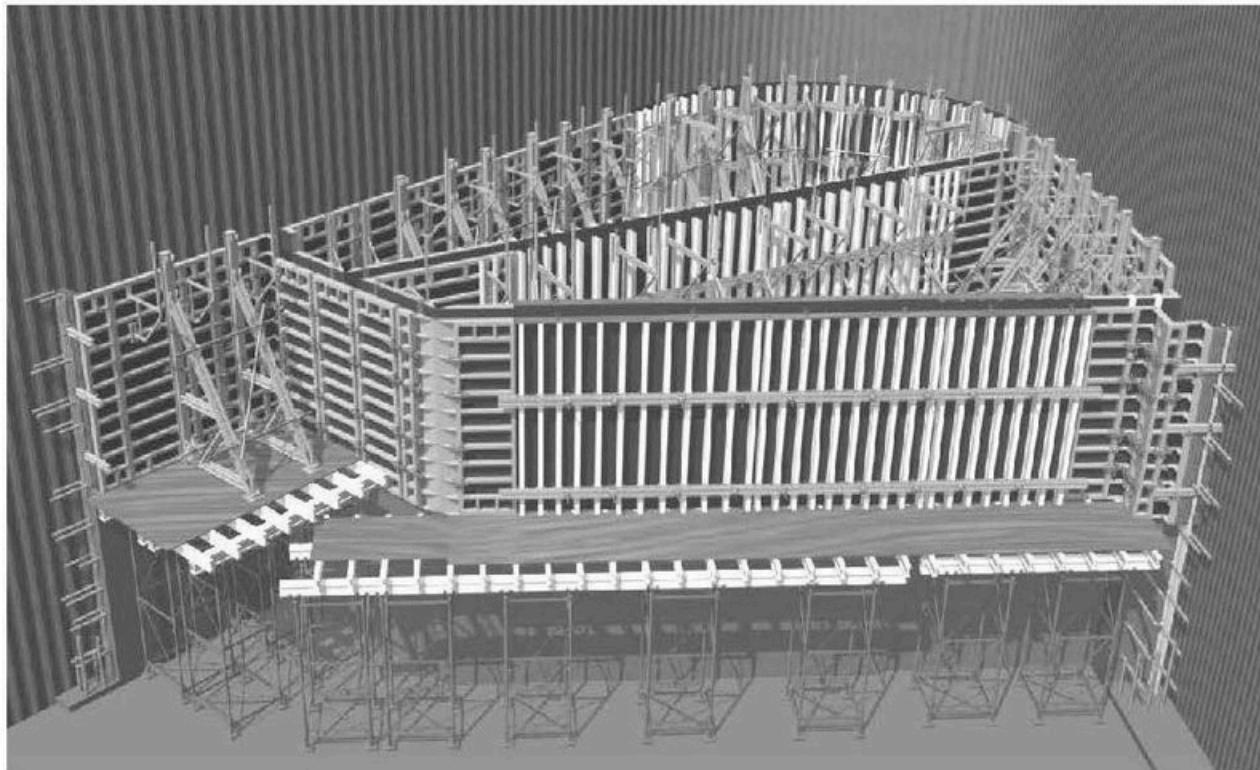
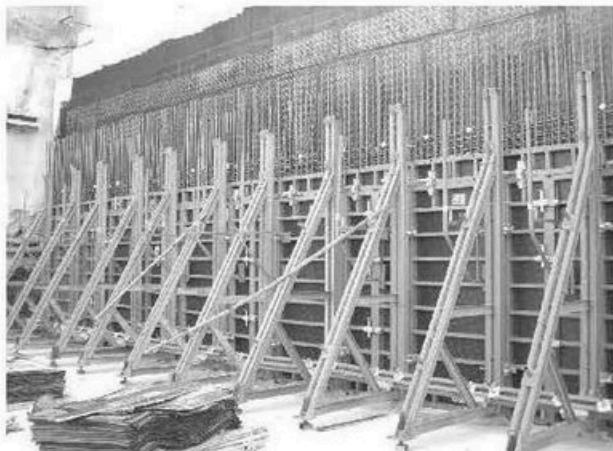
### At a glance

- Allows flexible pouring height adjustments up to 7.85 m
- Rigid steel structures permits fresh concrete pressure up to 60 kN/m<sup>2</sup>
- Supplied with built-in safety features
- Has spindles with pivoting base plates to accommodate un-even grounds

The SB Supporting Brace Frames are used mainly to pour against existing structures (such as walls, rock soil, sheet piling, foundations, etc) if only one side of the formwork can be erected. Normally it is not practical to tie through the forms. Therefore the concrete pressure has to be transferred from the formwork via the support structure into the foundation (anchoring system).

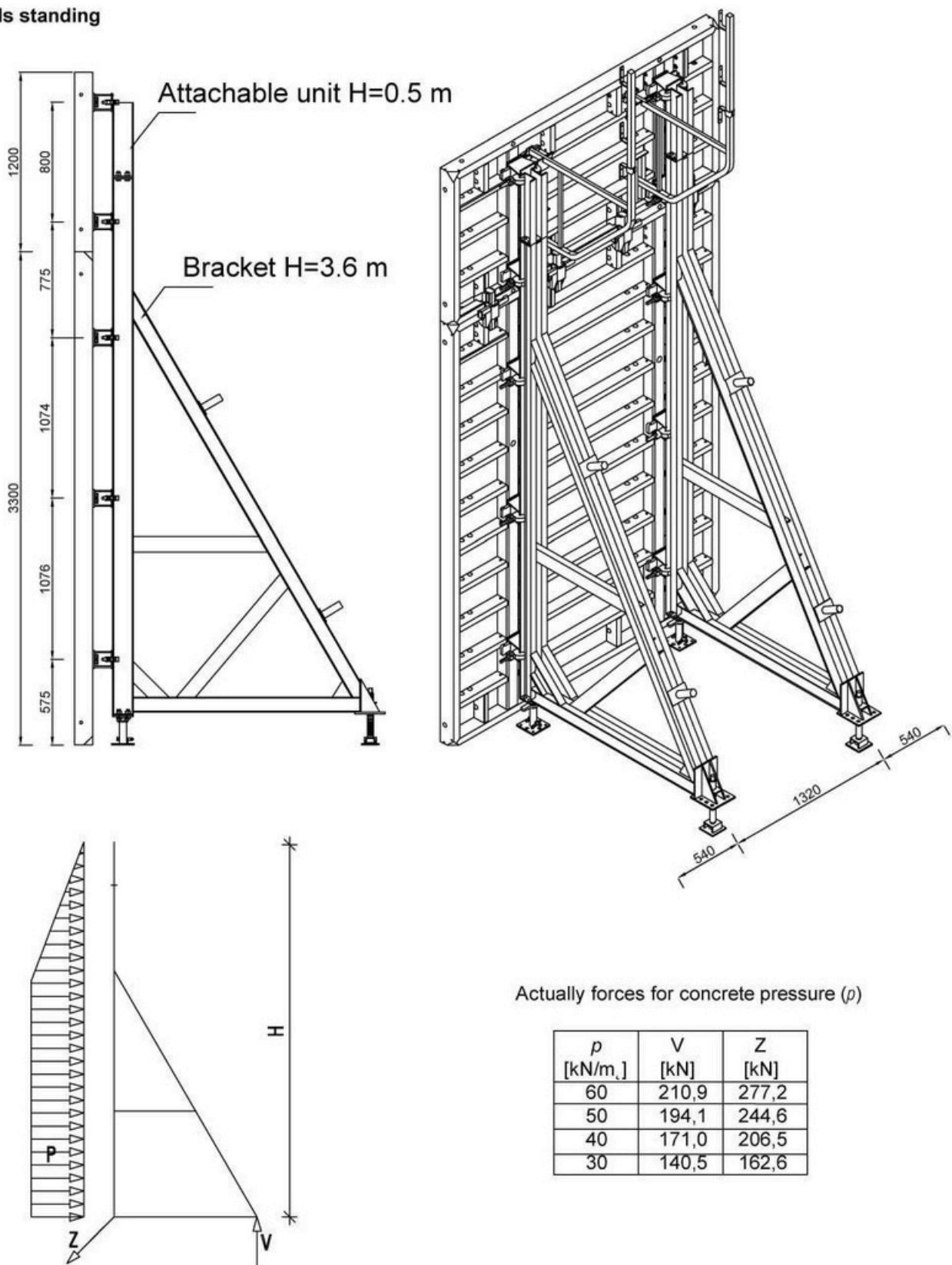
The brace frames can be utilized in various combinations to achieve the desired height, allowing adjustments up to 7.85 meters. TriTec, TriTec Light, Flex 50, Roundflex or other similar wall formwork systems are joined quickly with suitable connectors. For maximum utilization and different applications, the frames can be used with all standard anchoring systems. Besides, the size of individual components allows them to be transported by truck or in a container.

For short-term usage, the GHI SB frames combines best with TriTec wall formwork. These can be hired at very competitive rental prices from your local GHI branch.



## System GHI - Single Side Wall System

Panels standing

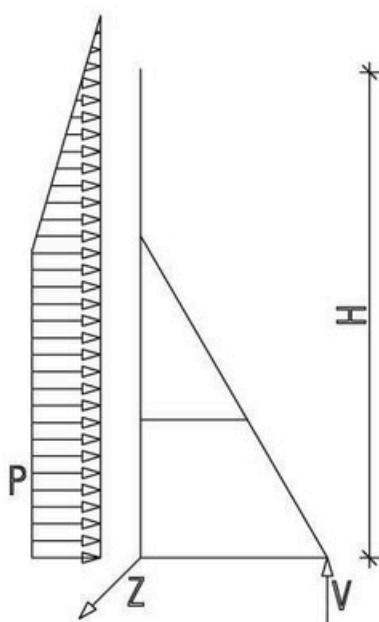
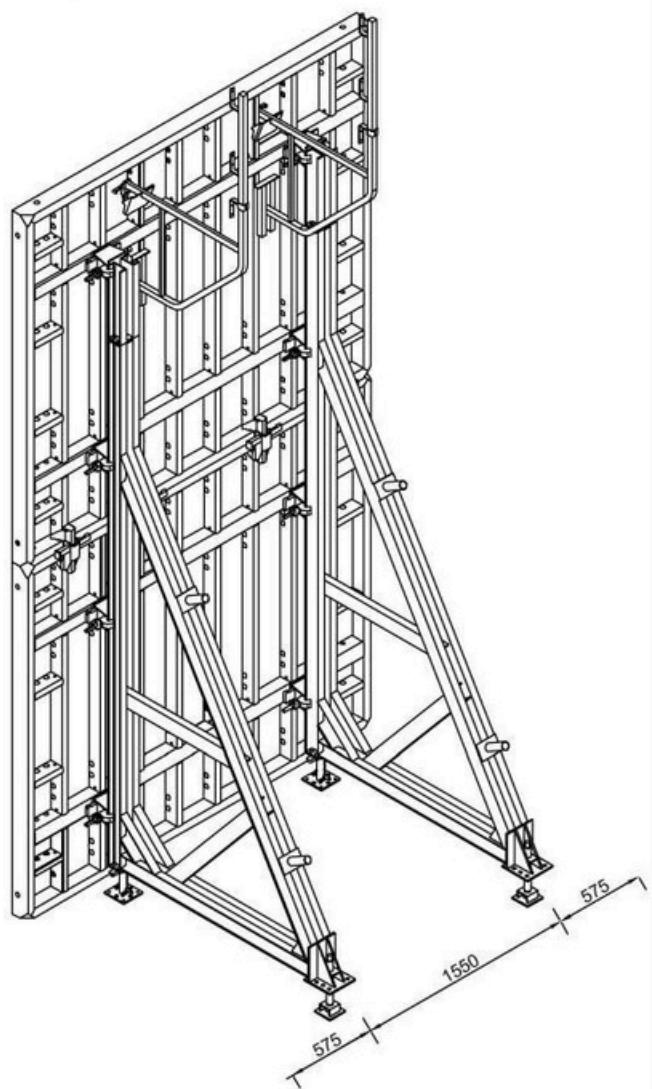
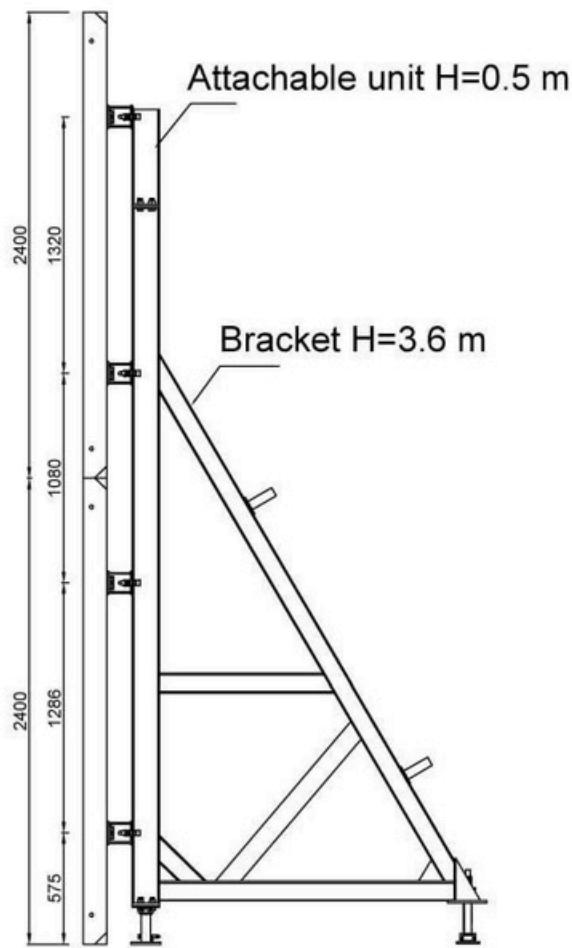


Actually forces for concrete pressure ( $p$ )

$p$ [kN/m <sub>2</sub> ]	V [kN]	Z [kN]
60	210,9	277,2
50	194,1	244,6
40	171,0	206,5
30	140,5	162,6

## System GHI - Single Side Wall System

Panels standing

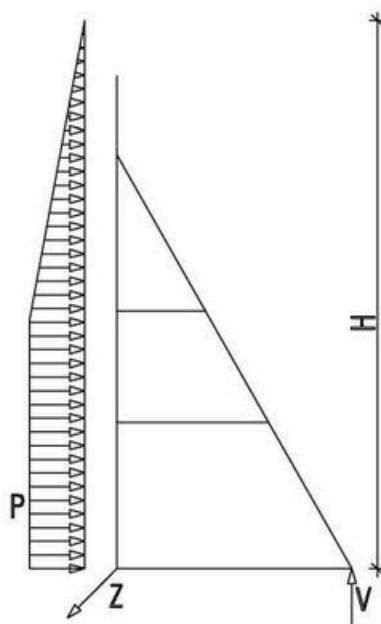
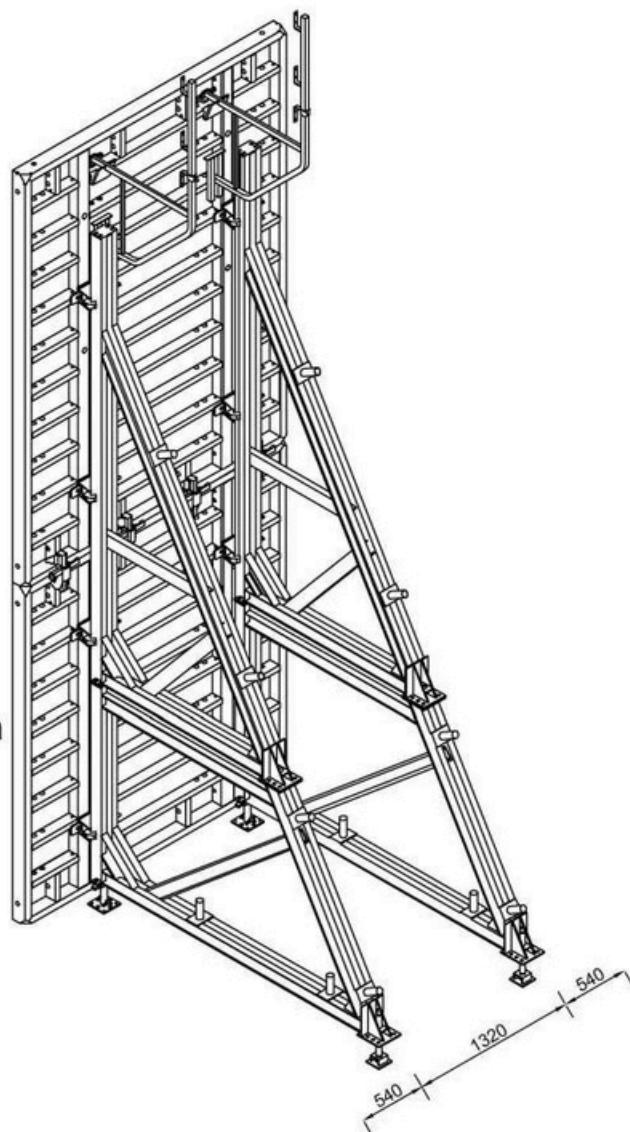
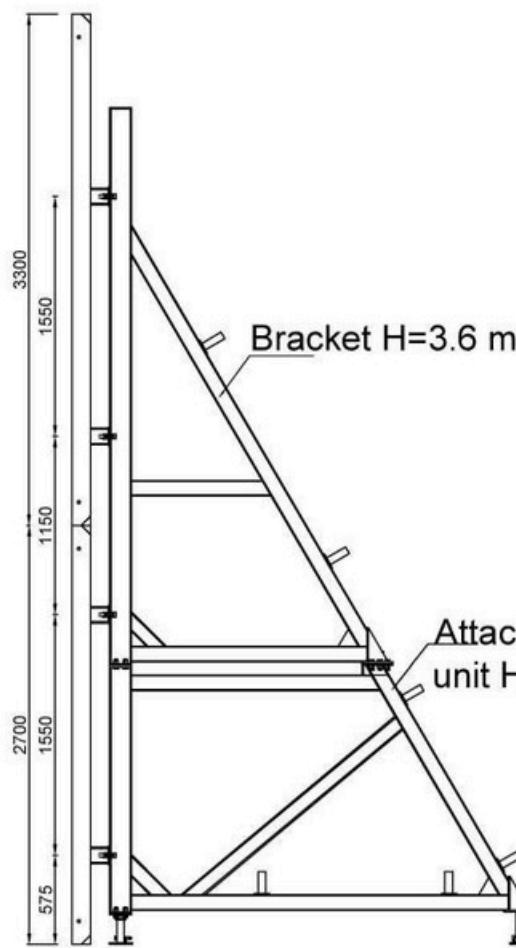


Actual forces for concrete pressure ( $p$ )

H [m]	$p$ [kN/m.]	V [kN]	Z [kN]
6,0	60	238,8	296,8
	50	217,4	260,1
	40	188,8	214,6
	30	152,1	169,52

## System GHI - Single Side Wall System

Panels standing



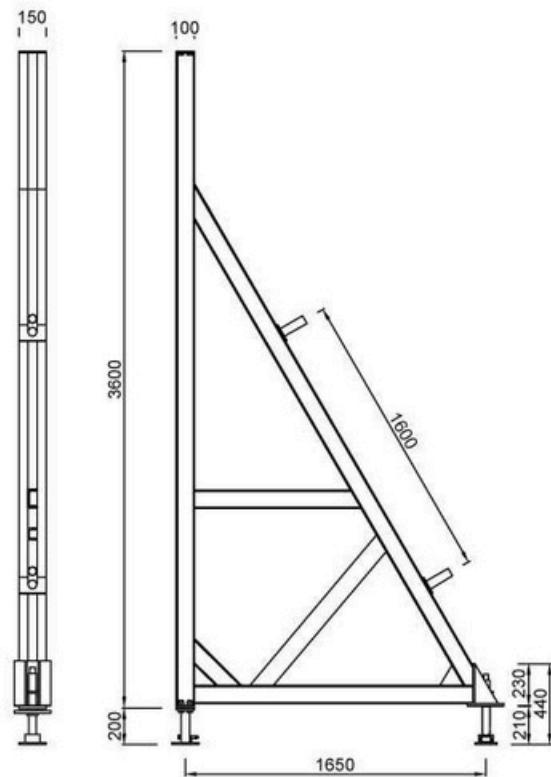
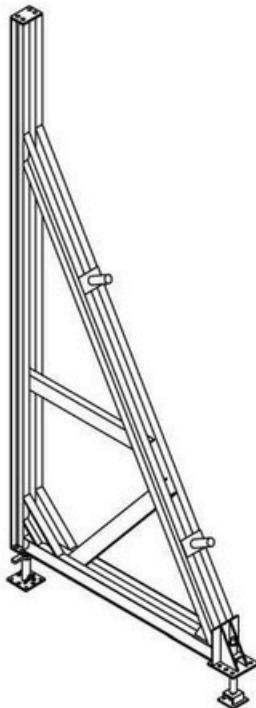
Actually forces for concrete pressure ( $p$ )

H [m]	$p$ [kN/m <sub>2</sub> ]	V [kN]	Z [kN]
6,0	60	316,8	491,8
	50	283,6	426,7
	40	241,6	353,0
	30	195,2	274,9
5,4	60	236,8	427,7
	50	215,2	373,3
	40	187,5	312,3
	30	152,9	244,4

## **System GHI - Single Side Wall System : Brace Frame**

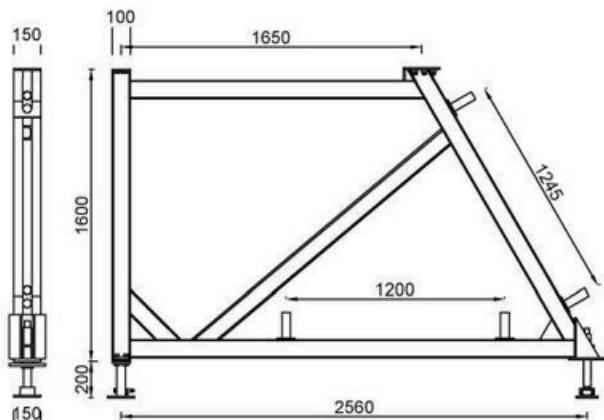
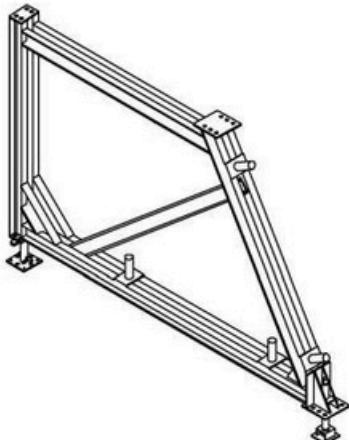
**Frame H=3.60 m**

25710-G



Attachable frame H=1.60 m

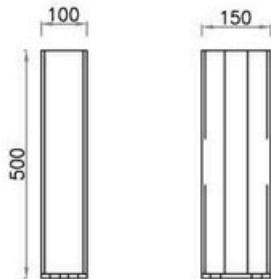
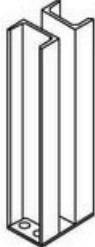
27510-G



## System GHI - Single Side Wall System : Accessories

Attachable unit H = 0.50 m

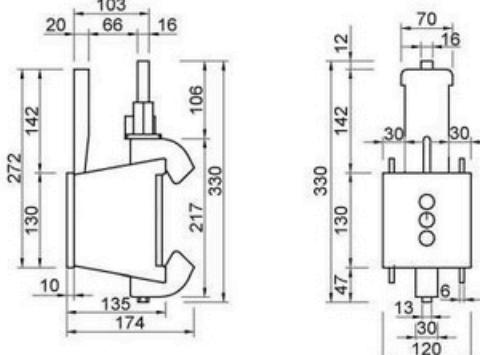
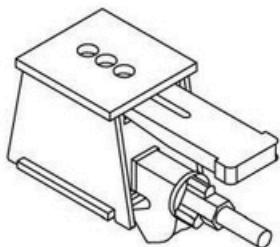
27651



### TriTec Bracket Adapter (Connector)

One for each tie point to connect with single sided formwork

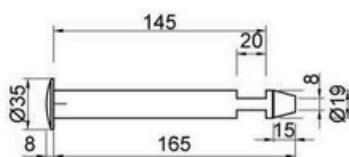
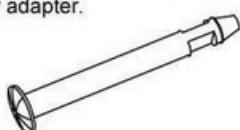
25740



### Pin Ø 19x165, galv.

For 120mm thick formwork panels.  
1 pcs per adapter.

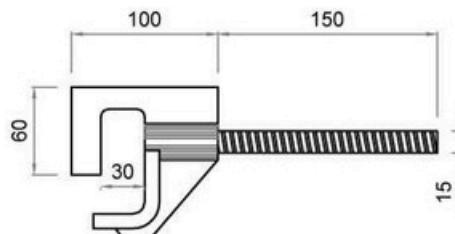
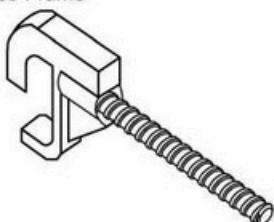
27690



### Wailing to Bracket Connector

For Connecting Roundflex Waler with Brace Frame

25711-1-G



Accessories : Wing Nut D15 and Cast Plate 60x120 D15

Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
27651	Attachable Unit	-			
25740-G	Tritec Bracket Adapter (Connector)	8.76			
27690-G	Pin Ø19x165, galv.	0.40			x
25711-1-G	Wailing to Bracket Connector	1.00			
25711-2-G	Wing Nut D15	0.20			x
25711-3-G	Cast Plate 60x120/D15	0.40			x

## System GHI - Single Side Wall System : Accessories

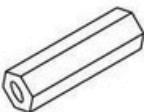
Brace frame double anchor DW 15



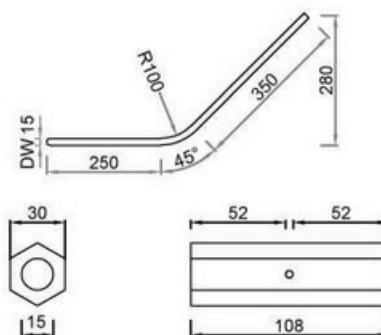
030060



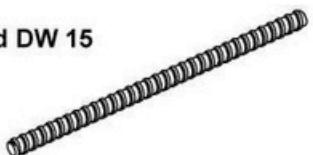
Hex. nut DW 15 SW30/103



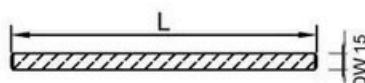
030090



Tie rod DW 15



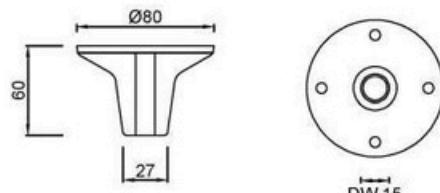
030030



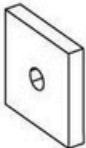
Threaded plate DW 15



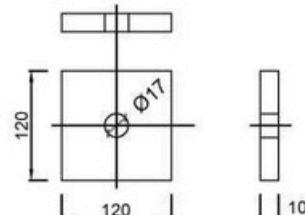
030840



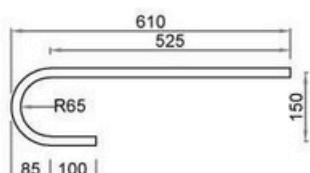
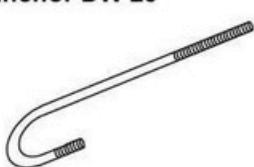
Counterplate DW 15



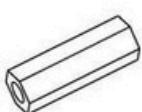
030140



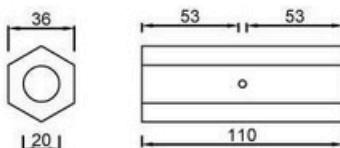
Hook anchor DW 20



Hex. nut DW 20 SW 36/110



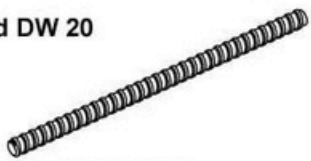
030590



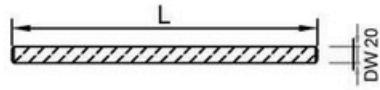
Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
030060	Brace frame double anchor DW 15	2.50			X
030090	Hex. nut DW 15 SW30/103	0.40			X
030030	Tie rod DW 15	1.44/m			X
030840	Threaded plate DW 15	0.60			X
030140	Counterplate DW 15	1.62			X
	Hook anchor DW 20				X
030590	Hex. nut DW 20 SW 36/110	0.63			X

## System GHI - Single Side Wall System : Accessories

Tie rod DW 20



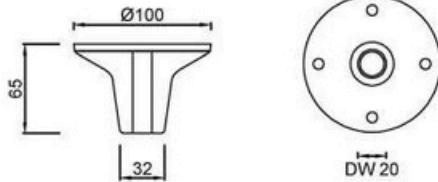
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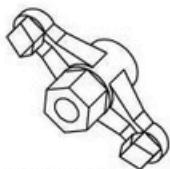
Threaded plate DW 20



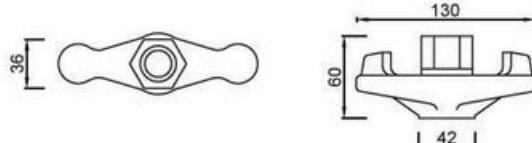
030860



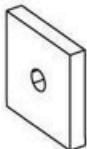
Wingnut DW 20



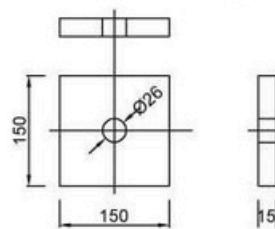
030990



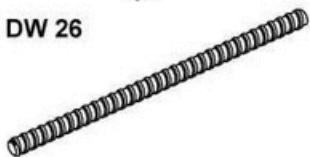
Counterplate DW 20



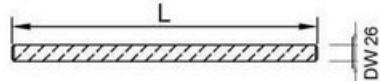
030830



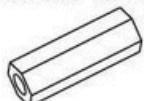
Tie rod DW 26



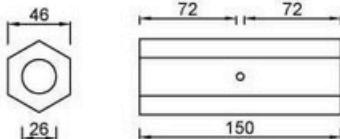
030340



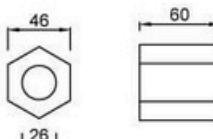
Hex. nut DW 26 SW 46/150



030980



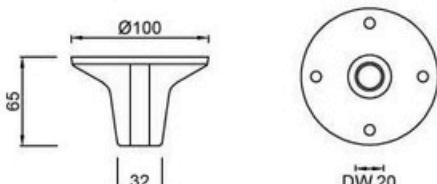
Hex. coupler DW 26 SW 46/60



Threaded plate DW 26



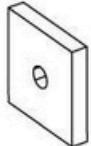
030870



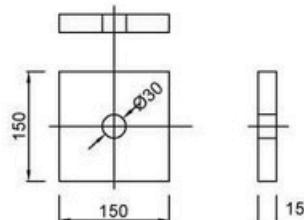
Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
030700	Tie rod DW 20	2.56/m			x
030860	Threaded plate DW 20	0.70			x
030990	Wingnut DW 20	0.79			x
030830	Counterplate DW 20	2.18			x
030340	Tie rod DW 26	4.48/m			x
030980	Hex. nut DW 26 SW 46/150	1.39			
	Hex. coupler DW 26 SW 46/60				
030870	Threaded plate DW 26	1.20			

## System GHI - Single Side Wall System : Accessories

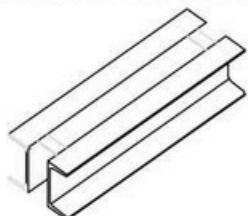
Counterplate DW 26



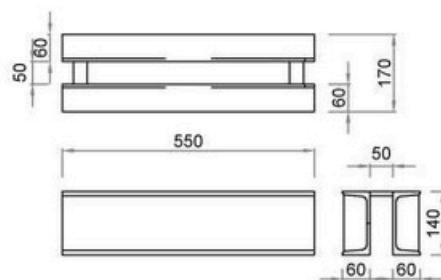
030420



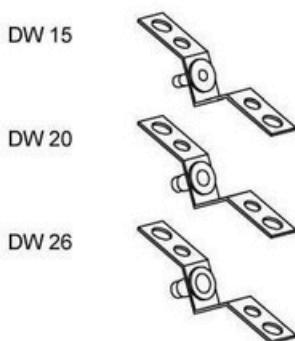
Anchor waler 2U140 L = 0.55 m



27650



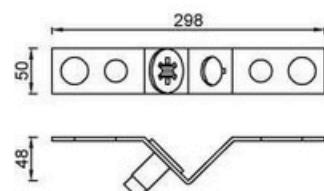
V-Tie



511591

512056

512657



Leading anchor coupler

DW 15



31631

DW 20

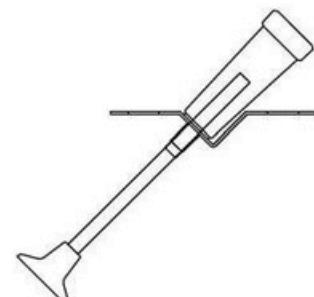
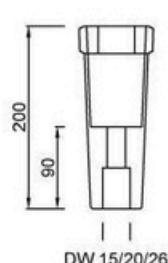


31632

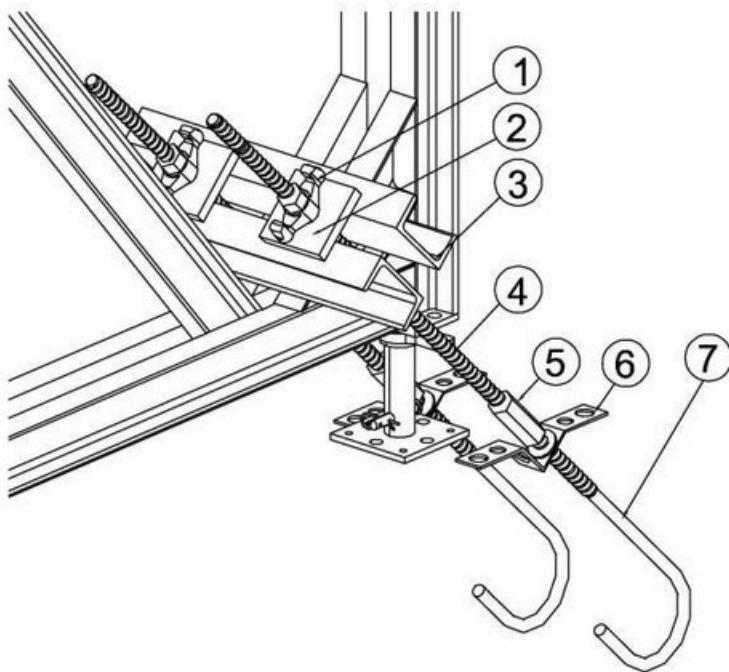
DW 26



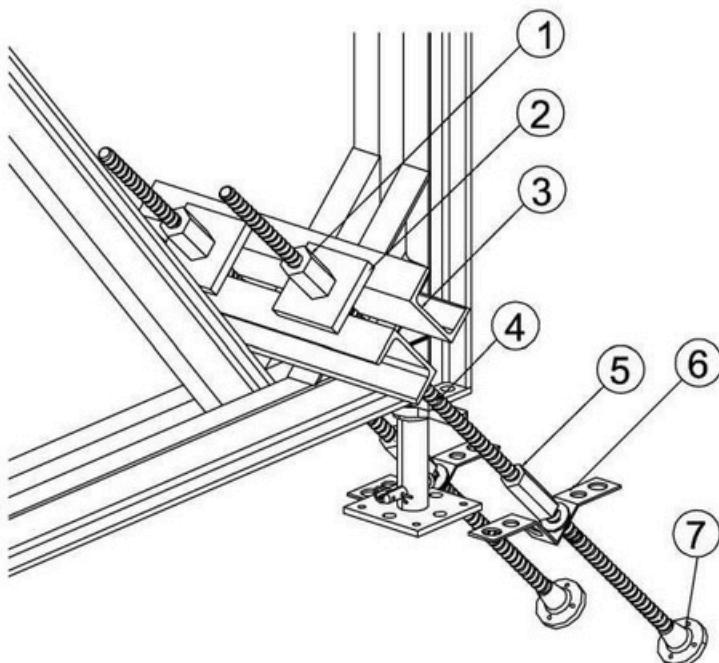
31633



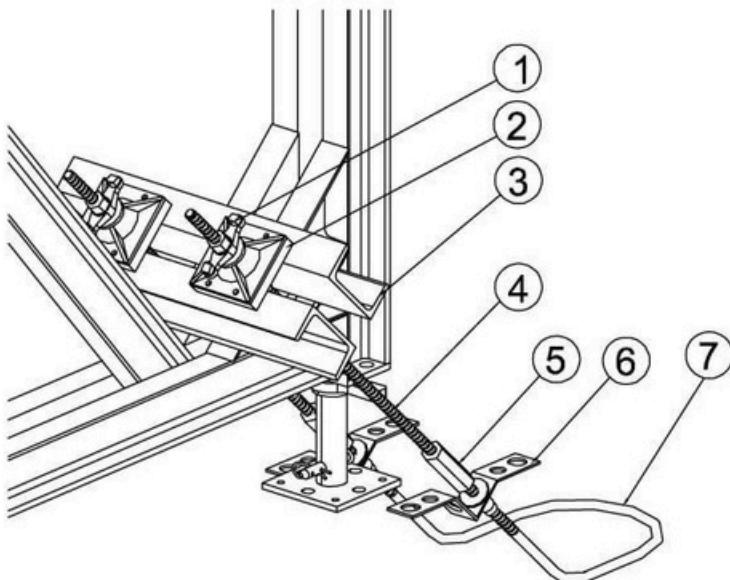
Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
030420	Counterplate DW 26	2.14			x
27650	Anchor waler 2U140 L = 0.55 m				x
511591	V-Tie DW 15				x
512056	V-Tie DW 20				x
512657	V-Tie DW 26				x
031631	Leading anchor coupler DW 15	0.45			x
031632	Leading anchor coupler DW 20	0.46			x
031633	Leading anchor coupler DW 26	0.47			

**System GHI - Single Side Wall System : Anchoring**

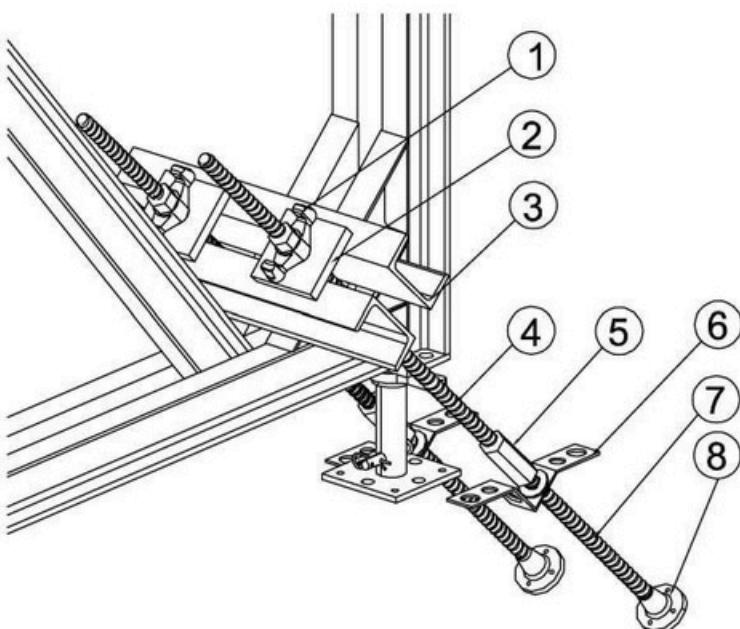
1. Wingnut DW 20.  
Art. 512060
2. Counterplate DW 20.  
Art. 512054
3. Anchor Waler 2U140,
4. Tie Rod DW 20,  
Art. 512000
5. Hex. Nut DW 20 SW 36/110.  
Art. 512051
6. V-Tie Holder DW 20.  
Art. 512056
7. Hook anchor DW 20  
Art. 512058



1. Hex. Coupler DW 26 SW 46/60.  
Art. 512650
2. Counterplate DW 26.  
Art. 512653
3. Anchor Waler 2U140,
4. Tie Rod DW 26,  
Art. 512600
5. Hex. Nut DW 20 SW 46/150.  
Art. 512652
6. V-Tie Holder DW 26.  
Art. 512657
7. Threaded Plate DW 26  
Art. 512654

**System GHI - Single Side Wall System : Anchoring**

1. Wingnut DW 15.  
Art. 511576
2. Counterplate DW 15.  
Art. 511569
3. Anchor Waler 2U140,
4. Tie Rod DW 15,  
Art. 511500
5. Hex. Nut DW 15 SW 30/103.  
Art. 511556
6. V-Tie Holder DW 15.  
Art. 511591
7. Brace frame double anchor DW 15  
Art. 511594



1. Wingnut DW 20.  
Art. 512060
2. Counterplate DW 20.  
Art. 512054
3. Anchor Waler 2U140,
4. Tie Rod DW 20,  
Art. 512000
5. Hex. Nut DW 20 SW 36/110.  
Art. 512051
6. V-Tie Holder DW 20.  
Art. 512056
7. Tie Rod DW 20,  
Art. 512000
8. Threaded Plate DW 20  
Art. 512055

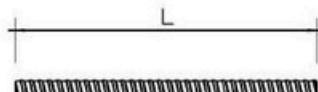
## System GHI - Tie Rod DW 15 and Accessories

### Tie Rod DW 15

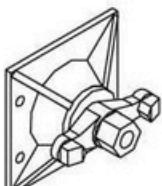


- DW 15 L = 1.00 m
- DW 15 L = 1.50 m
- DW 15 L = 2.00 m
- DW 15 L = 3.00 m
- DW 15 L = 6.00 m
- DW 15 spec. lenght
- cutting Tie Rod

- 030480
- 030170
- 030180
- 030720
- 030160
- 030030
- 030050

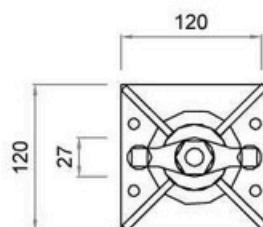


### Wingnut Pivot Plate DW 15, galv.



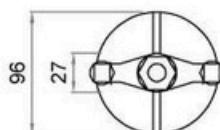
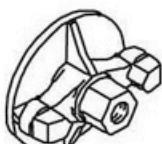
For each stopend tie/hook tie

30370



### Wingnut Counterplate DW 15, galv.

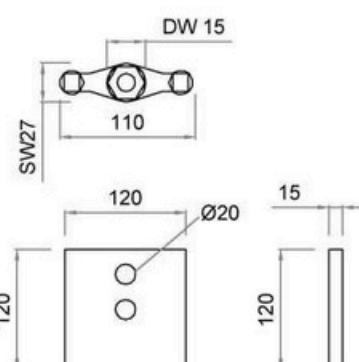
30110



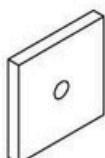
### Wingnut DW 15, galv.



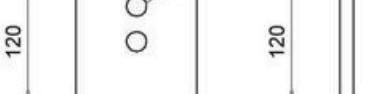
30110



### Counterplate DW 15, 120 x 120 x 15



30140



Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
30480	Tie Rod DW 15 L = 1.00m	1.44			x
30170	Tie Rod DW 15 L = 1.50m	2.16			x
30180	Tie Rod DW 15 L = 2.00m	2.88			x
30720	Tie Rod DW 15 L = 3.00m	4.32			x
30160	Tie Rod DW 15 L = 6.00m	8.64			x
30030	Tie Rod DW 15 spec. length	1.44/min			x
30050	Cutting Cost Tie Rod DW 15				
30370	Wingnut Pivot Plate DW 15, galv.	1,54			x
30110	Wingnut Counterplate DW 15, galv.	0,80			x
30100	Wingnut DW 15, galv.	0,44			x
30140	Counterplate DW 15, 120 x 120 x 15	1,62			

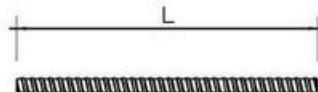
## System GHI - Tie Rod DW 20 and Accessories

### Tie Rod DW 20

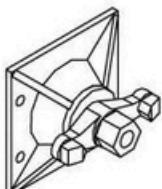


- DW 20 L = 0.50 m
- DW 20 L = 0.75 m
- DW 20 L = 6.00 m
- DW 20 spec. lenght
- Cutting Tie Rod

030640  
030641  
030680  
030700  
030800

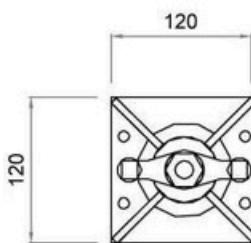


### Wingnut Pivot Plate DW 20, galv.



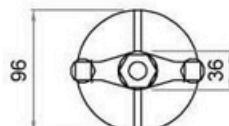
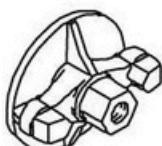
For each stopend tie/hook tie

30370-A



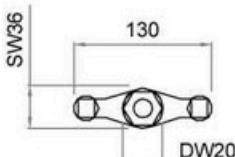
### Wingnut Counterplate DW 20, galv.

30110-A



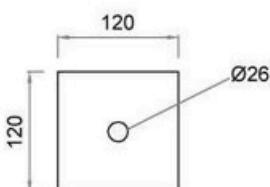
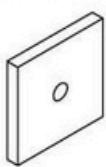
### Wingnut DW 20, galv.

30990



### Counterplate DW 20, 120 x 120 x 20

030830



Stock Code	Stock Description	Weight	Sqm	Unit	Sale Only
30480	Tie Rod DW 20 L = 0.50m	1.28			x
30170	Tie Rod DW 20 L = 0.75m	1.92			x
30180	Tie Rod DW 20 L = 6.00m	15.36			x
30720	Tie Rod DW 20 spec. length	2.56/m			x
30050	Cutting Cost Tie Rod DW 15				
30370-A	Wingnut Pivot Plate DW 20, galv.	1,54			x
30110-A	Wingnut Counterplate DW 20, galv.	0,80			x
30990	Wingnut DW 20, galv.	0,79			x
30830	Counterplate DW 20, 120 x 120 x 20	2.18			x



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