UFE

VERTICAL LIFTING PLATFORM

INSTRUCTION MANUAL

EN

CONTROL OF EDITIONS		
EDITION	DATE APPROVED	REASON
00	30/10/2019	Final document issued
01	28/08/2020	Review and update
02	24/02/2021	Maximum nominal load (Q) according EN81- 41

INDEX

1 IDENTIFICATION DATA

1.1 COMPANY NAME AND FULL ADDRESS OF THE MANUFACTURER

Nombre:	CTV - Componentes de Tráfico Vertical, S.L.
Dirección:	Polígono Industrial La Huertecilla C/ Generación nº 44 E-29004 Málaga
C.I.F.:	ES B-29878980
Teléfono:	+ 34 952207166
Email:	ctv@ctvlifts.com
www:	www.ctvlifts.com

1.2 DESIGNATION OF THE MACHINE; NAMEPLATE AND CE ENGRAVED

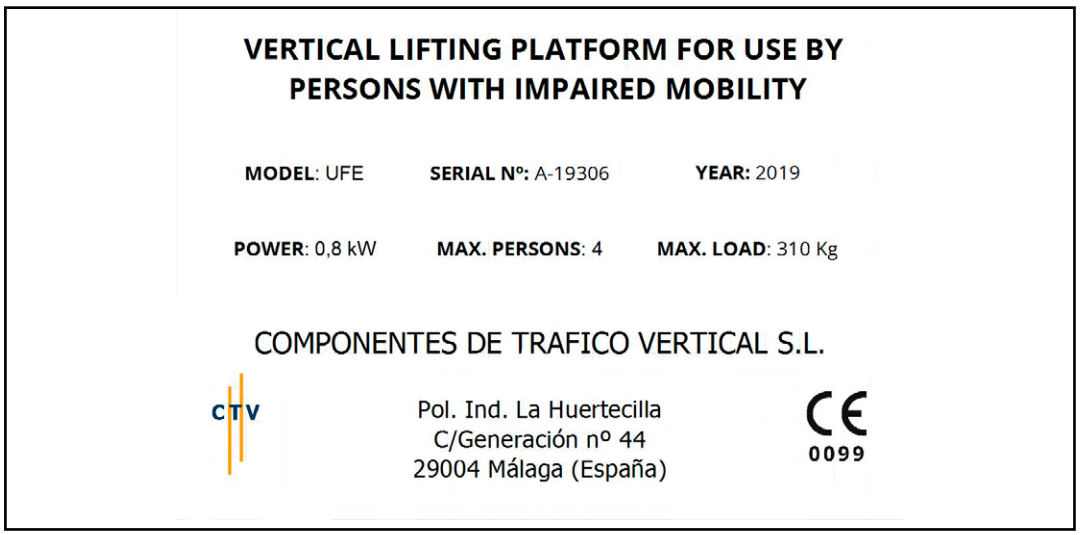
The identification label of the manufacturer and the data of the CE marking is supplied to be placed visibly on the machine.

CE
0099

COMPONENTES DE TRÁFICO VERTICAL S.L.
Pol. Industrial la Huertecilla
C/ Generación nº 44
29004 MÁLAGA (España)

A nameplate is supplied on the COP button panel. According to Annex I, Section 6.5 of Directive 2006/42 CE, the maximum load, number of people, serial number and the year of manufacture are mandatory.

A sticker is supplied with the complete data of the machine, CE marking and CTV data (sticker with visible, legible and indelible data). This sticker will be fixed to the control panel.



1.3 GENERAL DESCRIPTION OF THE MACHINE AND INTENDED USE

Lifting platform for people with reduced mobility with a maximum speed of 0.15 m / s of the electric traction type by adhesion and without a machine room, where the machinery is located inside the shaft. Cabin available with measurements corresponding to type A and type B user, according to EN 81-41 with a companion or others with a minimum load of 250 kg/ m^2.

MACHINE NAME	Lifting Platform for people with reduced mobility UFE (Electrical Homelift)
MODEL	UFE 015
TYPE	1= 225 / 250 kg 2 = 315 kg 3 = 385 kg
NOMINAL LOAD	Until 500 kg = 2,00 m^2 (according EN81- 41)
MAXIMUM VELOCITY	0,15 m/s
MAXIMUM STOPS NUMBER	8 (6 maximum with New Lift main controller)
MAXIMUM TRAVEL	21*
SUSPENSION	2:1
MINIMUM PIT	100 mm
MINIMUM HEADROOM	2600 mm
STANDARD PIT	150 mm
STANDARD HEADROOM	2700 mm

* For more travel, consult.

CABLES	4 cables Ø 6mm, Pawo 819 W (certificate CA 298B)
MACHINE POSITION	Top of the shaft
CAR GUIDES	T-Profile; calibrated and brushed steel
RESCUE OPERATION	Automatic through SAI, due to load decompensation
OVERSPEED PROTECTION	Fixed Overspeed Governor Dynatech Quasar Ø120 mm
FREEFALL PROTECTION	Instantaneous Safety Gear Downwards acting Luezar IT100S
OVERLOAD CONTROL	Dinacell SV3000 / SV_2RM NG or Micelect VG
DOORS PROTECTION	Photocell or photoelectrical barrier
TELEPHONE	Telephone connected to home phone line
OPTIONAL	Emergency telephone according EN 81/28
MAIN LIFT CONFIGURATION	Universal in the cabinet (in jamb door optional)
SHIPMENT DISPOSITION	Single 0º; Double at 180º and Double at 90º or 270º; Triple
ENCLOSURE	Flat and smooth surface
SHAFT WALL MATERIAL	Any material that fulfils construction regulations and withstands the forces of the machine
INTENDED USE	Vertical transport between levels of people and people with reduced mobility.
WORKING MODES	Normal and maintenance
EXPECTED TYPE OF USERS	

	USER	SPECIFIC PERSONNEL
START UP	☐	☒
PROCESS	☒	☐
MAINTENANCE	☐	☒
CLEANING	☐	☐

STARTING UP OPERATIONS AND MAINTENANCE SHOULD BE CARRIED OUT ONLY BY QUALIFIED TRAINED PERSONNEL

1.4 RESIDUAL RISKS

In part 3 of the Technical Dossier of Design of the lifting Platform for people with reduced mobility UFE model, the risk analysis is carried out considering the intended use of the machine, both under normal conditions of use such as maintenance and cleaning conditions.

Annex I section 1.7.2 indicates that, despite inherently safe design measures, protectors and other complementary protection measures adopted, there are risks where they should be placed the necessary warning signs.

Annex I section 1.1.2 b) indicates the obligation to inform users about residual risks due to the incomplete effectiveness of the preventive measures adopted, indicates if training is required and if it is necessary to provide any personal protective equipment. Below we mention these risks considered as residual.

HAZARD Nº29						Life cycle phases (A)			
GUARDS AND PROTECTIVE DEVICES						5			
INCIDENT						Crushing of staff			
EXPOSED PERSON	Maintainer			HAZARDOUS ZONE / ACTIVITY		Pit / headroom inspection			
RISK EVALUATION								**(HRN)**	**Categorization**
Probability of contact with the hazard due to exposure **(PE)**	8	Frequency of exposure to hazard **(FE)**	1	Maximum possible loss **(MPL)**	12	Number of people at risk **(NP)**	1	**96,0**	**Medium - High**
APPLICABLE STANDARDS	- Directive 2006/42/CE, relative to machines. Section 1.4.1 Annex I - EN 81- 41: 2010. Safety rules for the construction and installation of elevators. Special elevators for the transport of people and loads. Part 41: vertical lifting platforms for use by people with reduced mobility								
SECURITY MEASURES AND / OR PROPOSALS (Riks reduction measures)									
- There are specific instructions for operation in maintenance interventions - Sings have been placed near the access to the pit - The mechanical stop in the pit has an electrical contact that blocks any main lift when activated									
RISK EVALUATION								**(HRN)**	**Categorization**
Probability of contact with the hazard due to exposure **(PE)**	2	Frequency of exposure to hazard **(FE)**	1	Maximum possible loss **(MPL)**	2	Number of people at risk **(NP)**	1	**4,0**	**Negligible**
DESCRIPTION OF THE SECURITY MEASURES ADOPTED									
Stickers are placed in areas where the maintainer may encounter hazards There are stickers for pit									

CAUTION

DO THE MODIFICATIONS MADE ADD NEW HAZARDS?		Describe new measures to adopt:
NO	X	
YES		

HAZARD Nº32						Life cycle phases (A)			
ASSEMBLY ERROR						2			
INCIDENT						Electrocution, contact electric shock, or malfunction			
EXPOSED PERSON		Installer		HAZARDOUS ZONE / ACTIVITY		Electrical installation			
RISK EVALUATION								**(HRN)**	**Categorization**
Probability of contact with the hazard due to exposure **(PE)**	8	Frequency of exposure to hazard **(FE)**	0,5	Maximum possible loss **(MPL)**	15	Number of people at risk **(NP)**	1	**60,0**	**Medium - High**
APPLICABLE STANDARDS	- Directiva 2006/42/CE, relative to machines. Section 1.5.4 Annex I - EN 81-41:2010. Safety rules fot the construction and installation of elevators. Special elevators for the trasnport of people on loads. Part 41: vertical lifting platforms for use by people with reduced mobility								
SECURITY MEASURES AND / OR PROPOSALS (Riks reduction measures)									
- The cables are maked with their identification, according to electrical diagrams									
RISK EVALUATION								**(HRN)**	**Categorización**
Probability of contact with the hazard due to exposure **(PE)**	2	Frequency of exposure to hazard **(FE)**	0,5	Maximum possible loss **(MPL)**	0,5	Number of people at risk **(NP)**	1	**0,5**	**Negligible**
DESCRIPTION OF THE SECURITY MEASURES ADOPTED									
Pre-assembled certificated									

Electrical panel with identification of conductors according to assembly drawings

DO THE MODIFICATIONS MADE ADD NEW HAZARDS?		Describe new measures to adopt:
NO	X	
YES	☐	

HAZARD N°39						Life cycle phases (A)			
SKID, TRIPPING OR FALLING						4			
INCIDENT						Fall			
EXPOSED PERSON	Maintainer			HAZARDOUS ZONE / ACTIVITY		Car roof access			
RISK EVALUATION								(HRN)	Categorization
Probability of contact with the hazard due to exposure **(PE)**	8	Frequency of exposure to hazard **(FE)**	1	Maximum possible loss **(MPL)**	12	Number of people at risk **(NP)**	1	**96,0**	**Medium - High**
APPLICABLE STANDARDS	- Directive 2006/42/CE, relative to machines. Section 1.5.15 Annex I - EN 81-41:2010. Safety rules for the construction and installation of elevators. Special elevators for the transport of people and loads. Part 41: vertical lifting platforms for use by people with reduced mobility Section 5.1.4, 5.9.5, 5.9.6								
SECURITY MEASURES AND / OR PROPOSALS (Riks reduction measures)									
- There is a check box with an emergency stop, on the roof of the cabin. It prevents movement in review state - Maitenance is done on the platform, from inside the cabin by folding down the roof of the cabin - There are maintenance instructions wich are mandatory to follow									

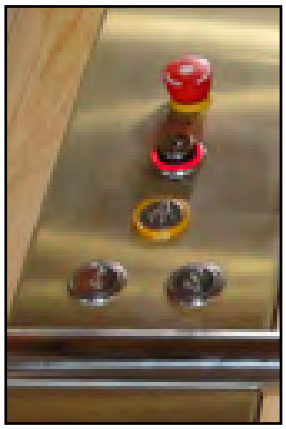
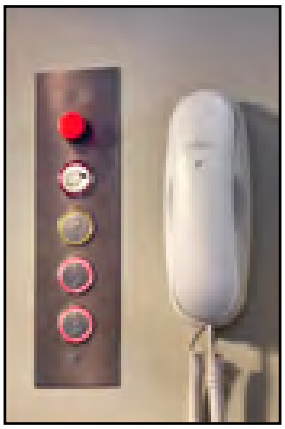
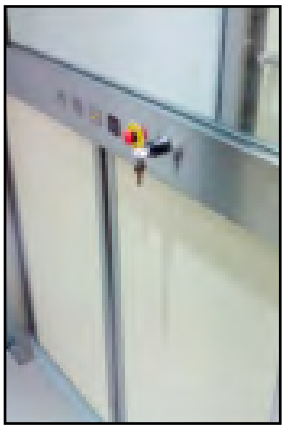
RISK EVALUATION								(HRN)	Categorization
Probability of contact with the hazard due to exposure **(PE)**	2	Frequency of exposure to hazard **(FE)**	1	Maximum possible loss **(MPL)**	2	Number of people at risk **(NP)**	1	**4,0**	**Negligible**

DESCRIPTION OF THE SECURITY MEASURES ADOPTED

Check box for maintenance operations on cabin roof
Included in the Maintenance Manual

DO THE MODIFICATIONS MADE ADD NEW HAZARDS?		Describe new measures to adopt:
NO	X	
YES		

HAZARD Nº44						Life cycle phases (A)			
WARNING SIGNS. RESIDUAL HAZARDS						4			
INCIDENT						Errors of understanding, interpretation, entrapment			
EXPOSED PERSON	Maintainer			HAZARDOUS ZONE / ACTIVITY		Car			
RISK EVALUATION								**(HRN)**	**Categorization**
Probability of contact with the hazard due to exposure **(PE)**	5	Frequency of exposure to hazard **(FE)**	2,5	Maximum possible loss **(MPL)**	2	Number of people at risk **(NP)**	1	**25,0**	**Low but relevant**
APPLICABLE STANDARDS	- Directive 2006/42/CE, relative to machines. Section 1.7.2 Annex I - EN 81-41:2010. Safety rules for the construction and installation of elevators. Special elevators for the transport of people and loads. Part 41 vertical lifting platforms for use by people with reduced mobility - EN 981:1996 + A1:2008 Safety of machinery. Warning signal system and auditory and visual information - EN 61310-1:2008 Safety of machines. Indication, marking and maneuvering. Part 1: specifications for visual, audible and tactile signals - EN 60204-1:2006/A1:2009 Safety of machines. Electrical equipment of machines. Part 1: general requirements								
SECURITY MEASURES AND / OR PROPOSALS (Riks reduction measures)									
- In the car, the control devices are dearly identified - There is signage indicating maximum load; there is an acoustic of overload									
RISK EVALUATION								**(HRN)**	**Categorization**
Probability of contact with the hazard due to exposure **(PE)**	2	Frequency of exposure to hazard **(FE)**	2,5	Maximum possible loss **(MPL)**	1	Number of people at risk **(NP)**	1	**5,0**	**Negligible**
DESCRIPTION OF THE SECURITY MEASURES ADOPTED									

COP layout in the cars

DO THE MODIFICATIONS MADE ADD NEW HAZARDS?		Describe new measures to adopt:
NO	X	
YES		

HAZARD Nº45						Life cycle phases (A)			
WARNING SIGNS. RESIDUAL HAZARDS						4			
INCIDENT						Entrapment of people			
EXPOSED PERSON	User, maintainer, authorized person				HAZARDOUS ZONE / ACTIVITY	Evacuation			
RISK EVALUATION								**(HRN)**	**Categorization**
Probability of contact with the hazard due to exposure **(PE)**	5	Frequency of exposure to hazard **(FE)**	0,5	Maximum possible loss **(MPL)**	2	Number of people at risk **(NP)**	1	**5,0**	**Negligible**
APPLICABLE STANDARDS	- Directiva 2006/42/CE, relative to machines. Section 1.7.2 Annex I - EN 81-41:2010. Safety rules for the construction and installation of elevators. Special elevators for the transport of people and loads Parte 41: vertical lifting platforms for use by people with reduced mobility								
SECURITY MEASURES AND / OR PROPOSALS (Riks reduction measures)									
The rescue can be automatic or manual (depending on the option chosen), in wich case ther is a Rescue Manual, which must be followed to carry out this type of maneuver. The rescue will always be done by authorized personnel									
RISK EVALUATION								**(HRN)**	**Categorization**
Probability of contact with the hazard due to exposure **(PE)**	2	Frequency of exposure to hazard **(FE)**	0,5	Maximum possible loss **(MPL)**	1	Number of people at risk **(NP)**	1	**1,0**	**Negligible**
DESCRIPTION OF THE SECURITY MEASURES ADOPTED									
Included in the Rescue Manual									

DO THE MODIFICATIONS MADE ADD NEW HAZARDS?				Describe new measures to adopt:
NO	X	YES	☐	

HAZARD Nº46						Life cycle phases (A)			
WARNING SIGNS. RESIDUAL HAZARDS						5			
INCIDENT						Electrocution, fall, slip, burns			
EXPOSED PERSON	Maintainer			HAZARDOUS ZONE / ACTIVITY		Inspection			
RISK EVALUATION								**(HRN)**	**Categorization**
Probability of contact with the hazard due to exposure **(PE)**	5	Frequency of exposure to hazard **(FE)**	1	Maximum possible loss **(MPL)**	15	Number of people at risk **(NP)**	1	**75,0**	**Medium - High**
APPLICABLE STANDARDS	- Directiva 2006/42/CE, relative to machines. Section 1.7.2 Annex I - EN 81-41:2010. Safety rules for the construction and installation of elevators. Special elevators for the transport of people and loads Parte 41: vertical lifting platforms for use by people with reduced mobility - EN 981:1996 + A1:2008 Safety of machinery. Warning signal system and auditory and visual information - EN 61310-1:2008 Safety of machines. Indication, marking and maneuvering. Part 1: specifications for visual, audible and tactile signals - EN 60204-1:2006/A1:2009 Safety of machines. Electrical equipment of machines. Part 1: general requirements								
SECURITY MEASURES AND / OR PROPOSALS (Riks reduction measures)									

- Electrical hazard stickers have been placed
- There is a Maintenance Manual that must be followed

RISK EVALUATION								**(HRN)**	**Categorization**
Probability of contact with the hazard due to exposure **(PE)**	2	Frequency of exposure to hazard **(FE)**	1	Maximum possible loss **(MPL)**	1	Number of people at risk **(NP)**	1	**2,0**	**Negligible**
DESCRIPTION OF THE SECURITY MEASURES ADOPTED									
Included in the Manual of Maintenance									

DO THE MODIFICATIONS MADE ADD NEW HAZARDS?			Describe new measures to adopt:
NO	X	YES	

2 ANNEXES

2.1 MACHINE DATA SHEET

Attached below is the technical sheet of the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order.

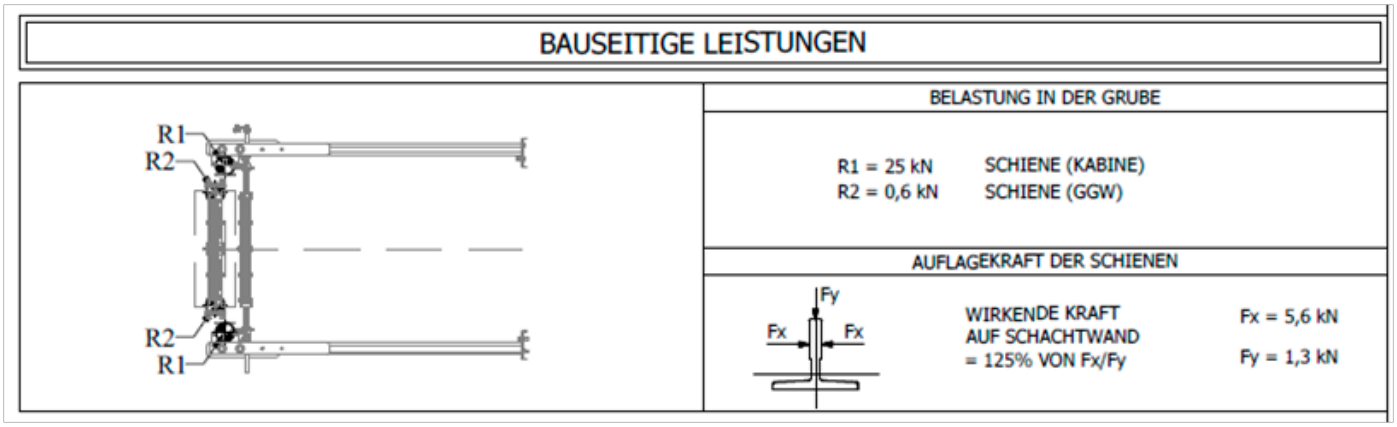
2.2 CE DECLARATION OF CONFORMITY OF THE MACHINE

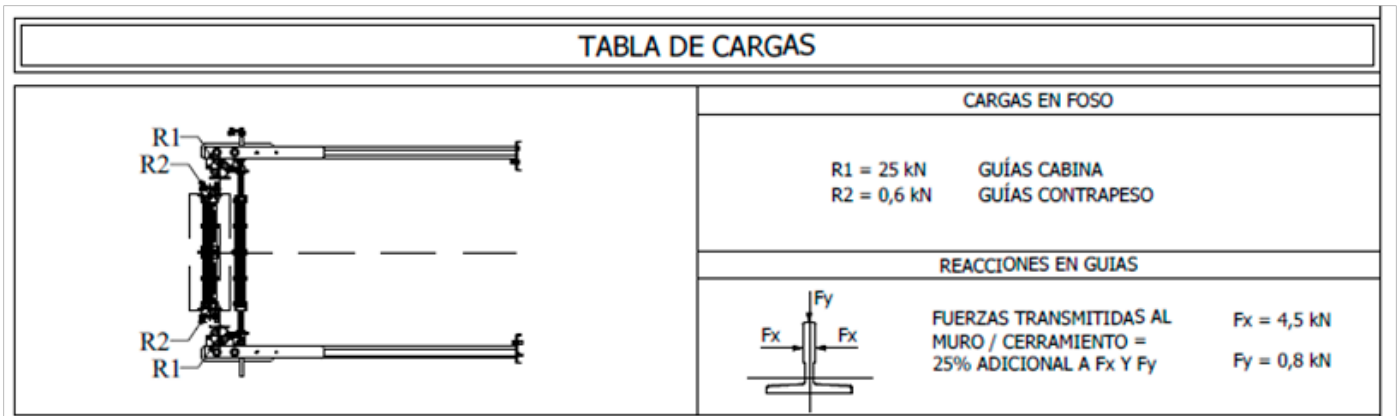
Attached below is the CE Declaration of Conformity for the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order.

2.3 MACHINE DRAWINGS

The descriptive plans of the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order, are attached below.

"In the plane of the machine the forces transmitted to the closing of the opening are shown."





2.4 ELECTRICAL DIAGRAMS OF THE MACHINE

Below are the specific electrical diagrams for the main controller of the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order.

2.5 INSTALLATION MANUALS FOR THE ELECTRICAL PARTS

Below are the installation manuals for the electrical part of the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order.

2.6 CE DECLARATIONS OF CONFORMITY AND TEST CERTIFICATES OF THE COMPONENTS

The following are the components of the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY.

Drive unit (Machine);	Geared Tornado TDA1.5 3~230V/400V-AC- 1~230V/AC-50Hz-0.8Kw-3,6A
Rope clamps;	Rope anchor Ceham TS6 with spring Gutekunst
Traction cables;	4 Cables Ø 6mm, Pawo 819W (certificate CA 298b)
Car guides;	T profile, in calibrated steel model T82-B
Counterweight guides;	T profile, in calibrated steel model T45-A
Overspeed governor;	Fixed Overspeed Governor Dynatech Quasar Ø120 mm
Overspeed governor cable;	Cable Ø 6,5mm, Pawo 819W
Safety gear;	Instantaneous Safety Gear Downwards acting Luezar IT100S
Main lift controller and premounted;	INELCA – NEWLIFT
Load weighing device;	Extensometer or strain gauge type, Dinacell SV_2RM NG
Doors;	Can be used any model whose lock complies with Directive 2014/33 / EU

Attached to this Annex are CE declarations of conformity, calculations and test certificates for the mentioned components.

The mechanical components not mentioned in this annex are of internal CTV design, and are justified in the Technical Design File.

2.7 USER INSTRUCTIONS

Below are attached the instructions for use of the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order.

2.8 MAINTENANCE INSTRUCTIONS AND WARNING SIGNS

Attached below are the Maintenance Instructions and Warning Signs for the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order.

2.9 ASSEMBLY INSTRUCTION FOR THE MECHANICAL PART

The assembly instructions for the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order, are attached below.

The following documents are attached to the assembly manual:

1) Descriptive sequence of the complete assembly of the machine and its components.
2) Manuals for the assembly of mechanical components.

2.10 RESCUE INSTRUCTIONS

Attached below are the Rescue instructions for the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order.

2.11 TRIALS AND INSPECTION TEST PROTOCOL FOR COMMISSIONING ACCORDING TO ARTICLE 6.3 OF THE EN 81-41 STANDARD

Attached below is the document for the tests to start up the VERTICAL LIFTING PLATFORM FOR PEOPLE WITH REDUCED MOBILITY, supplied with each order.

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