

**DOORHAN®**



# LOADING DOCK SYSTEMS

SAFETY • RELIABILITY • EFFICIENCY • DURABILITY



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DoorHan loading equipment give extensive possibilities for optimisation of logistic operations. DoorHan offers wide range of technical solutions for safe and efficient cargo flow between vehicle and warehouse. DoorHan loading equipment is used in docks, places where cargo is to be moved from one level or floor to another. It provides good weather sealing and keeps temperature in premises. Warehouses, large shopping centers and supermarkets, factories and exhibition centers, customs and logistics terminals are the main users of loading equipment.

# 7 MAIN BENEFITS

## CARGO FLOW OPTIMIZATION

DoorHan loading equipment is designed to provide comfort conditions for loading/unloading procedures. It optimizes this process by reducing loading/unloading time significantly. The DoorHan loading equipment gives most efficient usage of workspace.

## SAFETY

The strictest requirements were taken into consideration while designing our loading equipment, we use special components and materials to achieve maximum operation safety. DoorHan loading equipment is supplied with mechanical and electronic safety devices. Besides, our equipment ensures cargo damage protection.

## VARIETY OF DESIGN SOLUTIONS

Our products are manufactured in accordance with intracorporate standards. They have common colour and style. We use high quality painting and coating technologies. A number of technical and design options allows to find the optimal solution for any project.

## ENERGY-SAVING

Due to constant increase of energy prices, modern businesses have to use new energy saving technologies. Heating and cooling of production and storage premises are key expenses of any company. Loading equipment produced by DoorHan has excellent energy saving properties.

## RELIABILITY AND DURABILITY

DoorHan loading equipment is made of high quality materials using modern technologies. The materials are resistant to environmental exposure and ensure extended equipment durability. All equipment is designed to work in the most difficult weather conditions. That is how its high reliability is achieved.

## COMPLETE SOLUTION

DoorHan manufactures a complete range of loading equipment. You will find all you need for your industrial project. We are able to meet your particular requirements and offer custom-made products.

## CONFORMITY WITH STANDARDS

DoorHan loading equipment complies with all European technical requirements.

The DoorHan Company reserves the right to make appropriate modifications/replacements without prior notice. All the provided technical information is for reference only. No changes can be made without prior permission by the DoorHan Company.

# GENERAL INFORMATION ABOUT DOCK LEVELERS

DoorHan dock levelers are designed to act as a bridge between warehouses and trucks' or trailers' bodies and to provide quick and unimpeded movement of forklifts during loading/unloading operations. They can be used with trucks which are equipped with tail-lifts.

DoorHan offers electrohydraulic and mechanica dock levelers. Electrohydraulic dock levelers are produced with hinged or telescopic lip.

Wide range of dock levelers allows for any design and architectural project to be realized. DoorHan dock levelers fully comply with rules and regulations of the European Standard EN 1398 and have certificate of adequacy.

## ELECTROHYDRAULIC DOCK LEVELERS WITH HINGED LIP OF DLHHI SERIES



DLHHI electrohydraulic dock leveler with hinged lip is the most typical device, that allows to arrange loading site and enables quick loading/unloading operations. When activated, the deck rises, the lip turns and opens. Then the dock leveler lowers until the lip rests on the truck bed. The system is ready for work. After loading/unloading is completed, the deck rises, the lip turns down and the deck returns to the rest position. Dock leveler can be installed by either embedded or suspended way. Upon customer's request, the dock leveler can be supplied with low temperature oil ( $-50^{\circ}\text{C}$ ). Dock levelers of DLHHI series comply with rules and regulations of the European Standard EN 1398.

### Main advantages:

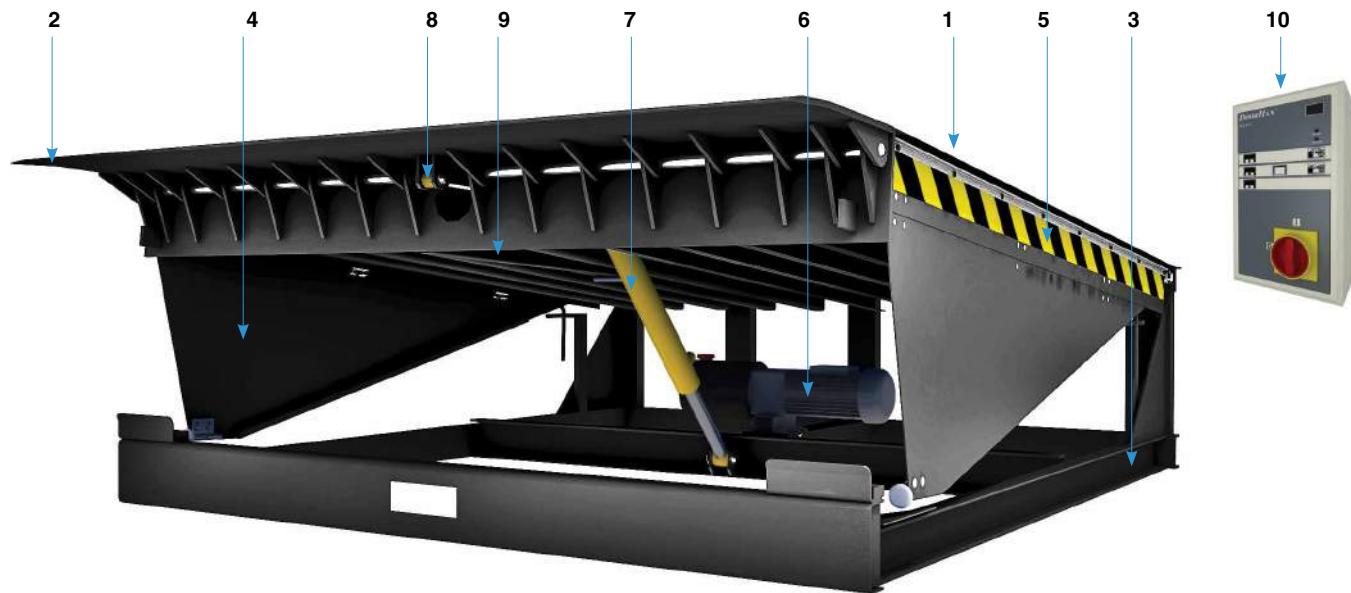
- self-cleaning hinges between upper deck and lip;
- lip length 400 mm (optionally can be increased up to 500 mm);
- the lip remains in contact with truck bed even if the truck bed is inclined up to 100mm from horizontal position;
- black/yellow safety marking;
- lip supports ensure safe cross movement along the upper deck in closed position;
- hydraulic safety system will stop the upper deck in case of hose rupture or unwanted departure of a truck during operation;
- safety shutters prevent personnel feet from jamming in the gap between the upper deck and the pit during operation;
- maintenance support beam ensures safe maintenance and repair of the dock leveler.

DIMENSIONS/FEATURES						
Length, mm	2000	2500	3000	3500	4000	4500
Width, m	1800	2000	2200			
Thickness of upper sheet						
• 6000 kg, mm		6/(0.6–1.8)*				
• 10000 kg, mm		8/(0.8–2.4)*				
Colour**		Black (RAL 9005)				
Amount of lift cylinders						
• standard		1				
• upon request		2				
* Riffling height is indicated in brackets.						
* Powder coating with preliminary shot blasting.						

PERFORMANCE	
Load capacity	6000 kg (60kN)/10000 kg (100kN)
Maximal point load (upper sheet — 6 mm)	1.3 N/mm
Maximal point load (upper sheet — 8 mm)	6.5 N/mm
Motor hydraulic unit	0.75 kW
Power supply	380V, 3 phases
Control voltage	24V
Control unit protection class	IP54
Working fluid	Mobil Univis HVI 26 / G-Special Hydraulic Nord-32
Class of surface cleaning before painting	Sa 2
Thickness of painted layer	60-90 micron
Operation temperature range	From -30 to +50 °C

OPERATING RANGE							
	Length, mm						
	2000	2500	3000	3500	4000	4500	
7°	mm	226	286	346	407	464	526
Above	mm	632	675	731	786	854	918
Below	mm	315	305	300	297	383	380

## GENERAL VIEW



- |                                  |                             |
|----------------------------------|-----------------------------|
| 1. Upper deck                    | 6. Hydraulic pump           |
| 2. Lip                           | 7. Lift cylinder            |
| 3. Frame                         | 8. Lip cylinder             |
| 4. Safety shutters               | 9. Maintenance support beam |
| 5. Signal yellow-black stripping | 10. Control unit            |

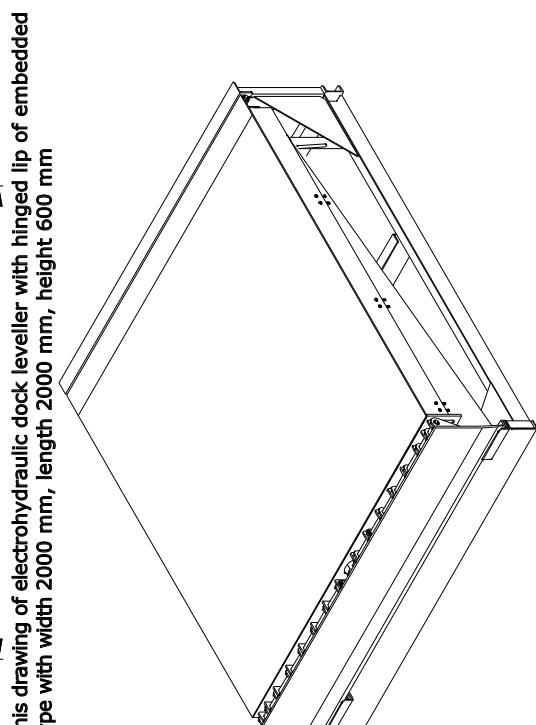
Upper plate of the dock leveler is a 6—8 mm thick steel sheet with diamond riffling with height of 0.6—2.4 mm. If loading/unloading is performed using a standard 4-wheel forklift with inflatable tyres, the dock leveler is manufactured with 6 mm thick sheet and riffling height 0.6—1.8 mm. If loading/unloading is performed using equipment with high point load (for example, electric pilers), the dock leveler is manufactured of 8 mm thick steel sheet with riffling height 0.8—2.4 mm. Small deformation of the dock leveler upper sheet is admissible, as it does not effect operation of the product. The lip is made of 12 mm thick steel sheet with diamond riffling of 1.2—3.6 mm height. The reinforcement profiles can be made of flanged beams 100/120 mm or L-shaped profile 140×40×4 mm, the frame is made of channel bar 100/120 mm. If the profile length exceeds 3500 mm, the reinforcement profiles and the frame are made of 120 mm flanged beams.

## CONFIGURATION AND DESIGN

PACKAGE		
	Standard	Options
Mounting type	Embedded/suspended	Other upon request
Colour	Black (RAL 9005)	Other upon request
Lip	Length — 400 mm, bevel — 35 mm	Length — 500 mm, segmented lip, tapered lip
Hydraulic system	1 lift cylinder, 1 control cylinder	2 lift cylinders
Bumpers		See Page 27
Seal	PVC-seal along perimeter	For dock levellers ≥ 3500 mm
Heat insulation		Polyurethane foam insulation under upper deck
Load capacity	6000/10000 kg	Others upon request
Working range	From -30 to +50 °C	Others upon request

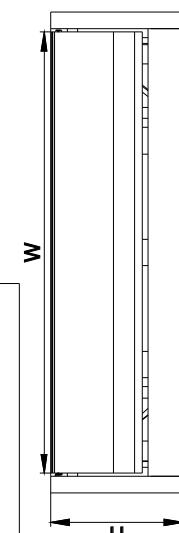
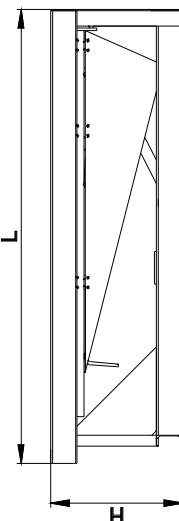
Dock leveller dimensions		DLHHE Model dock leveller					
Article of dock leveller	Article of dock leveller	Dock leveller size (length x width), mm x mm	L , mm	W , mm	H , mm	DoorHan-Docking systems	
6tn	10tn	mm x mm	mm	mm	mm		
DLHHT2018-(06)E	DLHHT2018-(10)E	2000x1800	2000	1800	600		
DLHHT2518-(06)E	DLHHT2518-(10)E	2500x1800	2500	1800	600		
DLHHT3018-(06)E	DLHHT3018-(10)E	3000x1800	3000	1800	600		
DLHHT3518-(06)E	-	3500x1800	3500	1800	600		
DLHHT4018-(06)E	-	4000x1800	4000	1800	700		
DLHHT4518-(06)E	-	4500x1800	4500	1800	700		
DLHHT2020-(06)E	DLHHT2020-(10)E	2000x2000	2000	2000	600		
DLHHT2520-(06)E	DLHHT2520-(10)E	2500x2000	2500	2000	600		
DLHHT3020-(06)E	DLHHT3020-(10)E	3000x2000	3000	2000	600		
DLHHT3520-(06)E	-	3500x2000	3500	2000	600		
DLHHT4020-(06)E	-	4000x2000	4000	2000	700		
DLHHT4520-(06)E	-	4500x2000	4500	2000	700		
DLHHT2022-(06)E	DLHHT2022-(10)E	2000x2200	2000	2000	600		
DLHHT2522-(06)E	DLHHT2522-(10)E	2500x2200	2500	2200	600		
DLHHT3022-(06)E	DLHHT3022-(10)E	3000x2200	3000	2200	600		
DLHHT3522-(06)E	-	3500x2200	3500	2200	600		
DLHHT4022-(06)E	-	4000x2200	4000	2200	700		
DLHHT4522-(06)E	-	4500x2200	4500	2200	700		

For more detailed information, please contact DoorHan company.



This drawing of electrohydraulic dock leveller with hinged lip of embedded type with width 2000 mm, length 2000 mm, height 600 mm

**ELECTROHYDRAULIC DOCK LEVELLER WITH HINGED LIP  
OF SUSPENDED TYPEWITH HINGED LIP OF SUSPENDED TYPE**



W+134

H

W

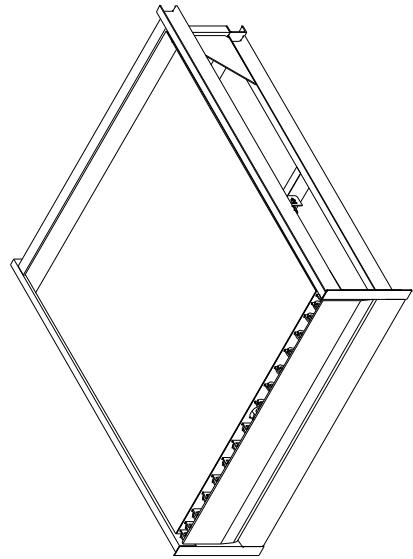
Dock leveller dimensions

Article of dock leveller 6tn	Article of dock leveller 10tn	Dock leveller size (length x width), mm x mm	L, mm	W, mm	H, mm
DLHHI2018-(06)S	DLHHI2018-(10)S	2000x1800	2000	1800	600
DLHHI2518-(06)S	DLHHI2518-(10)S	2500x1800	2500	1800	600
DLHHI3018-(06)S	DLHHI3018-(10)S	3000x1800	3000	1800	600
DLHHI3518-(06)S	-	3500x1800	3500	1800	600
DLHHI4018-(06)S	-	4000x1800	4000	1800	700
DLHHI4518-(06)S	-	4500x1800	4500	1800	700
DLHHI2020-(06)S	DLHHI2020-(10)S	2000x2000	2000	2000	600
DLHHI2520-(06)S	DLHHI2520-(10)S	2500x2000	2500	2000	600
DLHHI3020-(06)S	DLHHI3020-(10)S	3000x2000	3000	2000	600
DLHHI3520-(06)S	-	3500x2000	3500	2000	600
DLHHI4020-(06)S	-	4000x2000	4000	2000	700
DLHHI4520-(06)S	-	4500x2000	4500	2000	700
DLHHI2022-(06)S	DLHHI2022-(10)S	2000x2200	2000	2000	600
DLHHI2522-(06)S	DLHHI2522-(10)S	2500x2200	2500	2200	600
DLHHI3022-(06)S	DLHHI3022-(10)S	3000x2200	3000	2200	600
DLHHI3522-(06)S	-	3500x2200	3500	2200	600
DLHHI4022-(06)S	-	4000x2200	4000	2200	700
DLHHI4522-(06)S	-	4500x2200	4500	2200	700

L+60

W+180

This drawing of electrohydraulic dock leveller with hinged lip of suspended type with width 2000 mm, length 2000 mm, height 600 mm.

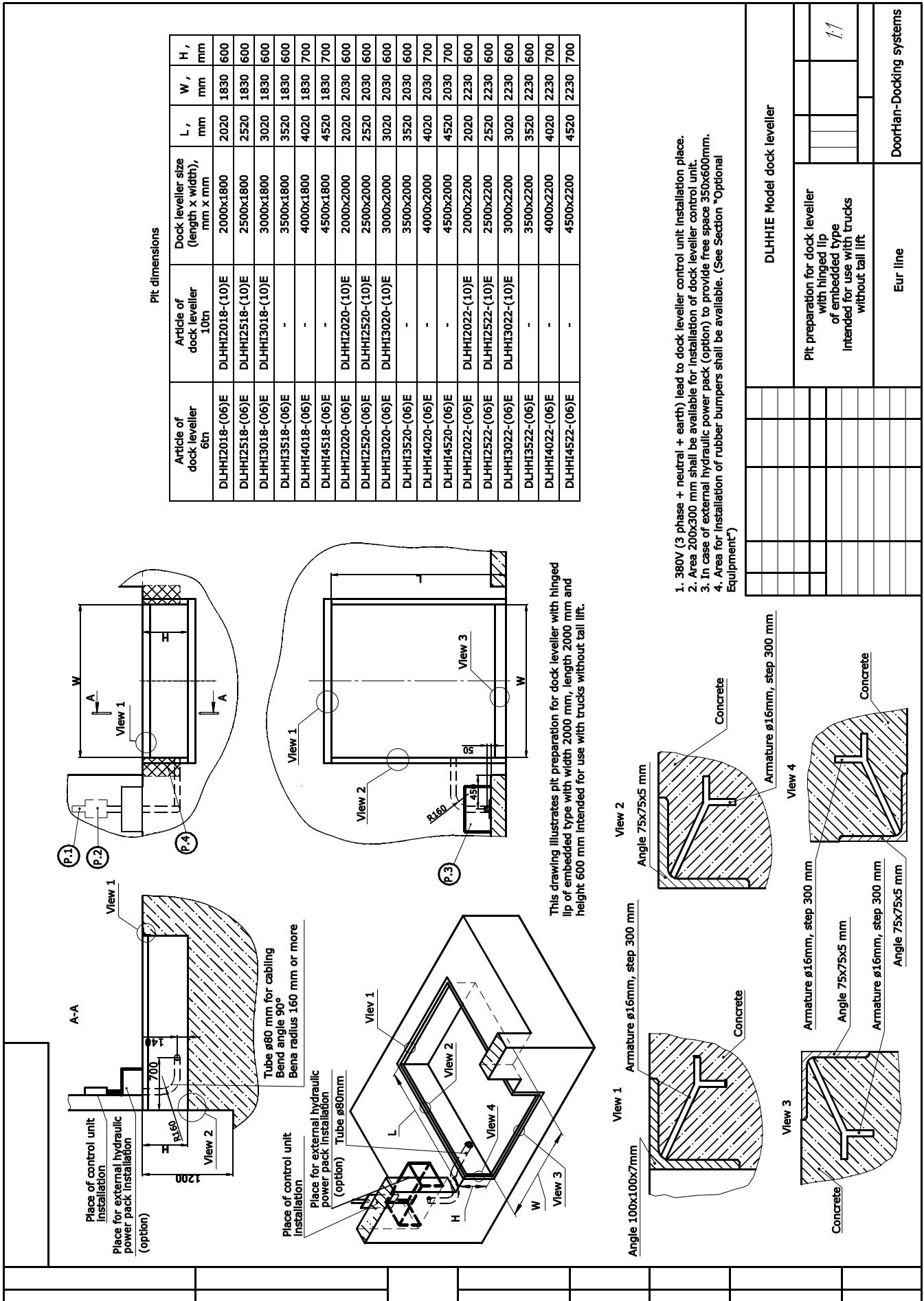


For more detailed information, please contact DoorHan company.

DLHHIS Model dock leveller

Electrohydraulic dock leveller with hinged lip of suspended type	1/1
Eur line	DoorHan-Docking systems

**PIT PREPARATION FOR DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE  
INTENDED FOR USE WITH TRUCKS WITHOUT TAIL LIFT**



**PIT PREPARATION FOR DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE  
INTENDED FOR USE WITH TRUCKS, WHICH ARE EQUIPPED WITH TAIL LIFT**

Article of dock leveller	Article of dock leveller 10tn	Pit dimensions			DLH1E Model dock leveller
		Dock leveller size (length x width), mm x mm	L, mm	W, mm	
DLH12018-(06)E	DLH12018-(10)E	2000x1800	2020	1830	600
DLH12518-(06)E	DLH12518-(10)E	2500x1800	2520	1830	600
DLH13018-(06)E	DLH13018-(10)E	3000x1800	3020	1830	600
DLH13518-(06)E	-	3500x1800	3520	1830	600
DLH14018-(06)E	-	4000x1800	4020	1830	700
DLH14518-(06)E	-	4500x1800	4520	1830	700
DLH15020-(06)E	DLH15020-(10)E	2000x2000	2020	2030	600
DLH15220-(06)E	DLH15220-(10)E	2500x2000	2520	2030	600
DLH15020-(06)E	DLH15020-(10)E	3000x2000	3020	2030	600
DLH15520-(06)E	-	3500x2000	3520	2030	600
DLH14020-(06)E	-	4000x2000	4020	2030	700
DLH14520-(06)E	-	4500x2000	4520	2030	700
DLH15022-(06)E	DLH15022-(10)E	2000x2200	2020	2230	600
DLH15522-(06)E	DLH15522-(10)E	2500x2200	2520	2230	600
DLH15022-(06)E	DLH15022-(10)E	3000x2200	3020	2230	600
DLH15522-(06)E	-	3500x2200	3520	2230	600
DLH14022-(06)E	-	4000x2200	4020	2230	700
DLH14522-(06)E	-	4500x2200	4520	2230	700

This drawing illustrates pit preparation for dock leveller with hinged lip of embedded type with width 2000 mm, length 2000 mm and height 600 mm intended for use with trucks, which are equipped with tail lift.

1. 380V (3 phase + neutral + earth) lead to dock leveller control unit installation place.  
2. Area 200x300 mm shall be available for installation of dock leveller control unit.  
3. In case of external hydraulic power pack (option) to provide free space 350x600mm.  
4. Area for installation of rubber bumpers shall be available. (See Section "Optional Equipment")

PIT PREPARATION FOR DOCK LEVELLER WITH HINGED LIP OF SUSPENDED TYPE

Pit dimensions							
Article of dock leveller	Article of dock leveller 10tn	Dock leveller size (length x width), mm x mm	L, mm	W, mm	H, mm		
DLHHI2018-(06)S	DLHHI2018-(10)S	2000x1800	2000	1860	600		
DLHHI2518-(06)S	DLHHI2518-(10)S	2500x1800	2500	1860	600		
DLHHI3018-(06)S	DLHHI3018-(10)S	3000x1800	3000	1860	600		
DLHHI3518-(06)S	-	3500x1800	3500	1860	600		
DLHHI4018-(06)S	-	4000x1800	4000	1860	700		
DLHHI4518-(06)S	-	4500x1800	4500	1860	700		
DLHHI2020-(06)S	DLHHI2020-(10)S	2000x2000	2000	2060	600		
DLHHI2520-(06)S	DLHHI2520-(10)S	2500x2000	2500	2060	600		
DLHHI3020-(06)S	DLHHI3020-(10)S	3000x2000	3000	2060	600		
DLHHI3520-(06)S	-	3500x2000	3500	2060	600		
DLHHI4020-(06)S	-	4000x2000	4000	2060	700		
DLHHI4520-(06)S	-	4500x2000	4500	2060	700		
DLHHI2022-(06)S	DLHHI2022-(10)S	2000x2200	2000	2260	600		
DLHHI2522-(06)S	DLHHI2522-(10)S	2500x2200	2500	2260	600		
DLHHI3022-(06)S	DLHHI3022-(10)S	3000x2200	3000	2260	600		
DLHHI3522-(06)S	-	3500x2200	3500	2260	600		
DLHHI4022-(06)S	-	4000x2200	4000	2260	700		
DLHHI4522-(06)S	-	4500x2200	4500	2260	700		

Place of control unit installation  
Place for external hydraulic power pack (option)  
Place of control unit installation

Tube Ø80 mm for cabling  
Bend angle 90°  
Bend radius 160 mm or more

Place for external hydraulic power pack (option)

View 1

Place of control unit installation  
Place for external hydraulic power pack (option)  
Place of control unit installation

Tube Ø80 mm  
Angle 100x100x10mm

View 1

Place of control unit installation  
Place for external hydraulic power pack (option)  
Place of control unit installation

Tube Ø80 mm  
Angle 100x100x10mm

View 3

Place of control unit installation  
Place for external hydraulic power pack (option)  
Place of control unit installation

Tube Ø80 mm  
Angle 100x100x10mm

View 4

This drawing illustrates pit preparation for dock leveller with hinged lip of suspended type with width 2000 mm, length 2000 mm and height 600 mm.

DLHHTS Model dock leveller	
Pit preparation for dock leveller with hinged lip of suspended type	
Eur line	DoorHan Docking systems

# ELECTROHYDRAULIC DOCK LEVELER WITH TELESCOPIC LIP OF DSI SERIES



DSI electrohydraulic dock leveler with telescopic lip is the most efficient device, which enables access of a forklift from the warehouse to the truck bed when loading/unloading. It is used, when there is a need in exact positioning of the lip on the truck bed, for instance, if the truck is not correctly parked, or if side loading is to be performed. Lip segments allow to load/unload the trucks, which is less than width of the dock leveler.

After activation the deck rises and the lip slides ahead, then the deck lowers until the lip rests on the truck bed. After loading/unloading is completed, the deck rises, the lip slides in and the dock leveler returns to its rest position.

Dock leveler can be installed by either embedded or suspended way. Upon customer's request, the dock leveler can be supplied with low temperature oil ( $-50^{\circ}\text{C}$ ).

## Main advantages:

- lip length of 500 or 1 000 mm;
- the lip remains in contact with truck bed even if the truck bed is inclined up to 100mm from horizontal position;
- black/yellow safety marking;
- lip supports ensure safe cross movement along the upper deck in closed position;
- hydraulic safety system will stop the deck in the event of hose rupture or unwanted departure of a truck during operation;
- safety shutters prevent personnel feet from jamming in the gap between the upper deck and the pit during operation.

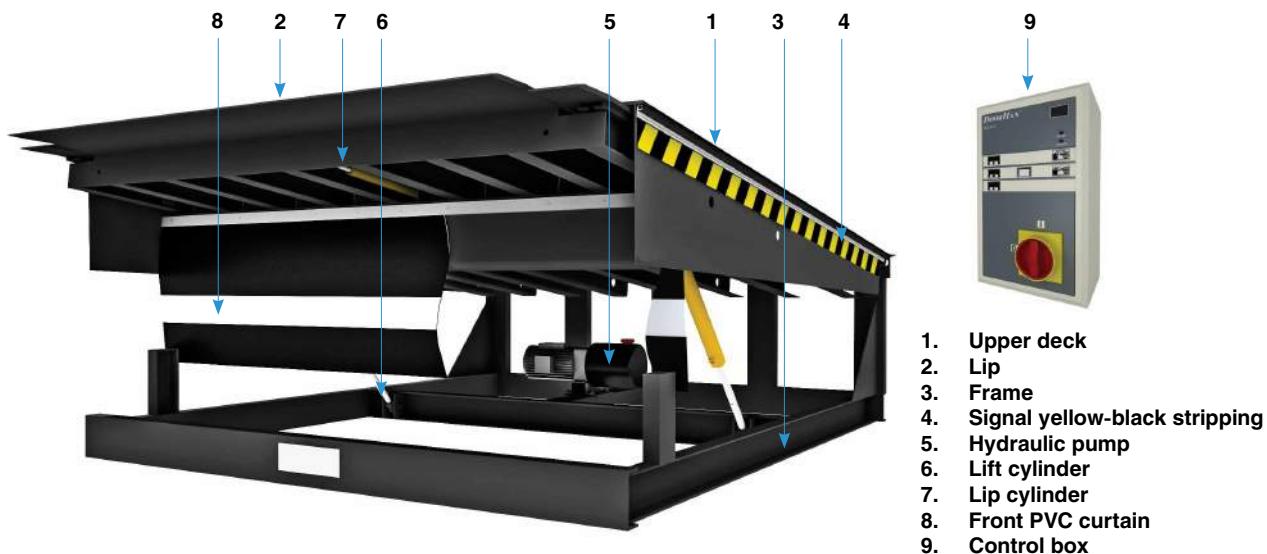
DIMENSIONS/ FEATURES					
Length, mm	2000	2500	3000	3500	4000
Width, in	2000	2200	2400		
Thickness of upper sheet					
• 6000 kg, mm		8/(0.8–2.4)*			
• 10000 kg, mm		10/(1–3)*			

\* Riffling height is indicated in brackets.  
\*\* Powder coating with preliminary shot blasting.

PERFORMANCE	
Load capacity	6000 kg (60kN)/10000 kg (100kN)
Maximal point load (upper sheet 0,24 in)	1.3 N/mm
Maximal point load (upper sheet 0,31 in)	6.5 N/mm
Motor hydraulic unit	1.1 kW
Power supply	380V, 3 phases
Control voltage	24V
Control unit protection rating	IP54
Working fluid	Mobil Univis HVI 26 / G-Special Hydraulic Nord-32
Class of surface cleaning before painting	Sa 2
Thickness of painted layer	60–90 micron
Operation temperature range	From -30 to +50 °C

THE DOCK LEVELER LIFTING HEIGHT SERIES DSI				
Dock leveler length, mm	Overall length, mm	Lip length, mm	Maximum lip lifting height, mm	Maximum lip lowering height, mm
2000	2000	500	260	470
2500	2500	500	320	420
3000	3000	500	380	470
3500	3500	500	440	450
4000	4000	500	500	430
2500	2500	1000	380	490
3000	3000	1000	440	530
3500	3500	1000	500	500
4000	4000	1000	560	480

## CONSTRUCTION



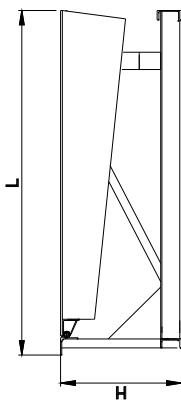
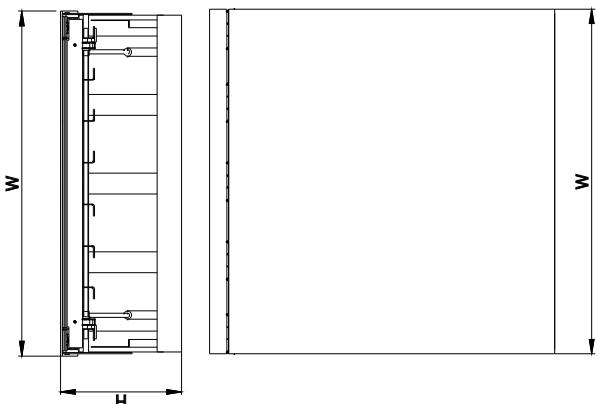
Upper plate of the dock leveler is a steel 8-10 mm thick sheet with 0.8—3 mm high riffling. If loading/unloading is performed using a standard 4-wheel forklift with inflatable tyres, the dock leveler is manufactured with 8 mm thick sheet and riffling height of 0.8—2.4 mm. If load capacity is 10000 kg, the dock leveler is manufactured from 10 mm thick steel sheet with riffling height of 1—3 mm. Small deformation of the dock leveler upper sheet is admissible, as it does not effect operation of the product. The lip is made of 12 mm thick steel sheet with diamond riffling height of 1.2—3.6 mm. The reinforcement profiles are made of flanged beams 100/120 mm or L-shaped profile 187 70 4 mm, the frame is made of channel bar or flanged beam 100—120 mm.

## CONFIGURATION AND DESIGN

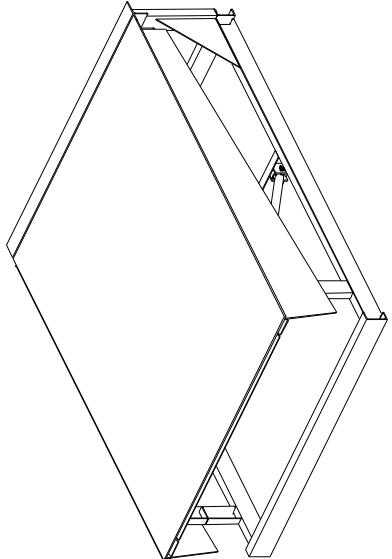
PACKAGE		
	Standard	Options
Mounting type	Embedded/suspended	Other upon request
Colour	Black (RAL 9005)	Other upon request
Lip	Length — 500/1000 mm; bevel — 35 mm	Segmented/tapered lip
Hydraulic system	2 lift cylinders, 1 lip control cylinder	
Seal	PVC-seal along the perimeter	For dock levellers $\geq$ 3500 mm
Load capacity	6000/10000 kg	Other upon request
Working range	From -30 to +50 °C	Other upon request

Dock leveller dimensions						
Article of dock leveller 6tn with lip 500mm	Article of dock leveller 6tn with lip 1000mm	Article of dock leveller 10tn with lip 500mm	Article of dock leveller 10tn with lip 1000mm	Dock leveller size (length x width), mm x mm	L, mm	W, mm
DSI202005-(06)E	-	DSI202005-(10)E	-	2000x2000	2000	2000
DSI202205-(06)E	-	DSI202205-(10)E	-	2000x2200	2000	2200
DSI202405-(06)E	-	DSI202405-(10)E	-	2000x2400	2000	2400
DSI252005-(06)E	DSI252010-(06)E	DSI252005-(10)E	-	2500x2000	2500	2000
DSI252205-(06)E	DSI252210-(06)E	DSI252205-(10)E	-	2500x2200	2500	2200
DSI252405-(06)E	DSI252410-(06)E	DSI252405-(10)E	-	2500x2400	2500	2400
DSI302005-(06)E	DSI302010-(06)E	DSI302005-(10)E	-	3000x2000	3000	2000
DSI302205-(06)E	DSI302210-(06)E	DSI302205-(10)E	-	3000x2200	3000	2200
DSI302405-(06)E	DSI302410-(06)E	DSI302405-(10)E	-	3000x2400	3000	2400
DSI352005-(06)E	DSI352010-(06)E	DSI352005-(10)E	-	3500x2000	3500	2000
DSI352205-(06)E	DSI352210-(06)E	DSI352205-(10)E	-	3500x2200	3500	2200
DSI352405-(06)E	DSI352410-(06)E	DSI352405-(10)E	-	3500x2400	3500	2400
DSI402005-(06)E	DSI402010-(06)E	-	-	4000x2000	4000	2000
DSI402205-(06)E	DSI402210-(06)E	-	-	4000x2200	4000	2200
DSI402405-(06)E	DSI402410-(06)E	-	-	4000x2400	4000	2400

This drawing of electrohydraulic dock leveller with sliding lip 500 mm of embedded type with width 2000 mm, length 20000 mm, height 700 mm



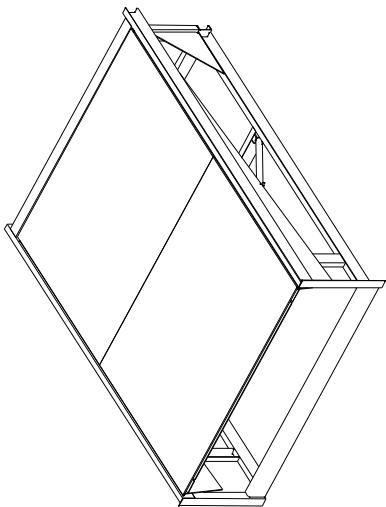
## Dock leveller dimensions



**ELECTROHYDRAULIC DOCK LEVELLER  
WITH SLIDING LIP OF SUSPENDED TYPE**

Dock leveller dimensions						
	Article of dock leveller 6tn with lip 500mm	Article of dock leveller 10tn with lip 1000mm	Article of dock leveller 10tn with lip 500mm	Dock leveller size (length x width), mm x mm	L, mm	W, mm
DSI202005-(06)S	-	DSI202005-(10)S	-	2000x2000	2000	2000
DSI2022205-(06)S	-	DSI2022205-(10)S	-	2000x2200	2000	2200
DSI202405-(06)S	-	DSI202405-(10)S	-	2000x2400	2000	2400
DSI252005-(06)S	DSI252010-(06)S	DSI252005-(10)S	-	2500x2000	2500	2000
DSI252205-(06)S	DSI252210-(06)S	DSI252205-(10)S	-	2500x2200	2500	2200
DSI252405-(06)S	DSI252410-(06)S	DSI252405-(10)S	-	2500x2400	2500	2400
DSI302005-(06)S	DSI302010-(06)S	DSI302005-(10)S	-	3000x2000	3000	2000
DSI3022205-(06)S	DSI302210-(06)S	DSI302205-(10)S	-	3000x2200	3000	2200
DSI302405-(06)S	DSI302410-(06)S	DSI302405-(10)S	-	3000x2400	3000	2400
DSI352005-(06)S	DSI352010-(06)S	DSI352005-(10)S	-	3500x2000	3500	2000
DSI3522205-(06)S	DSI352210-(06)S	DSI352205-(10)S	-	3500x2200	3500	2200
DSI352405-(06)S	DSI352410-(06)S	DSI352405-(10)S	-	3500x2400	3500	2400
DSI402005-(06)S	DSI402010-(06)S	DSI402005-(10)S	-	4000x2000	4000	2000
DSI4022205-(06)S	DSI402210-(06)S	DSI402205-(10)S	-	4000x2200	4000	2200
DSI402405-(06)S	DSI402410-(06)S	DSI402405-(10)S	-	4000x2400	4000	2400

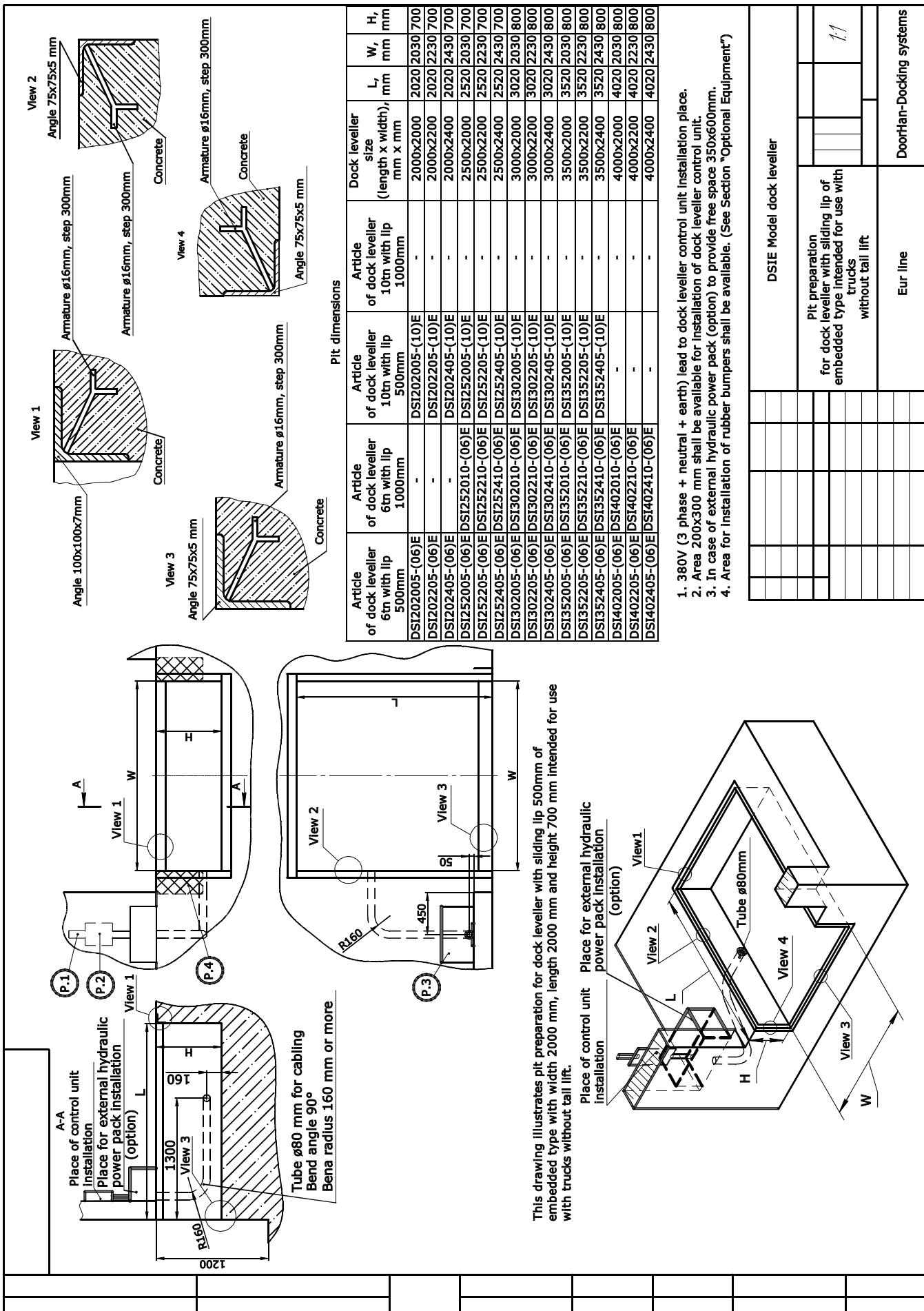
This drawing of electrohydraulic dock leveller with sliding lip 500 mm of suspended type with width 2000 mm, length 2000 mm, height 700 mm



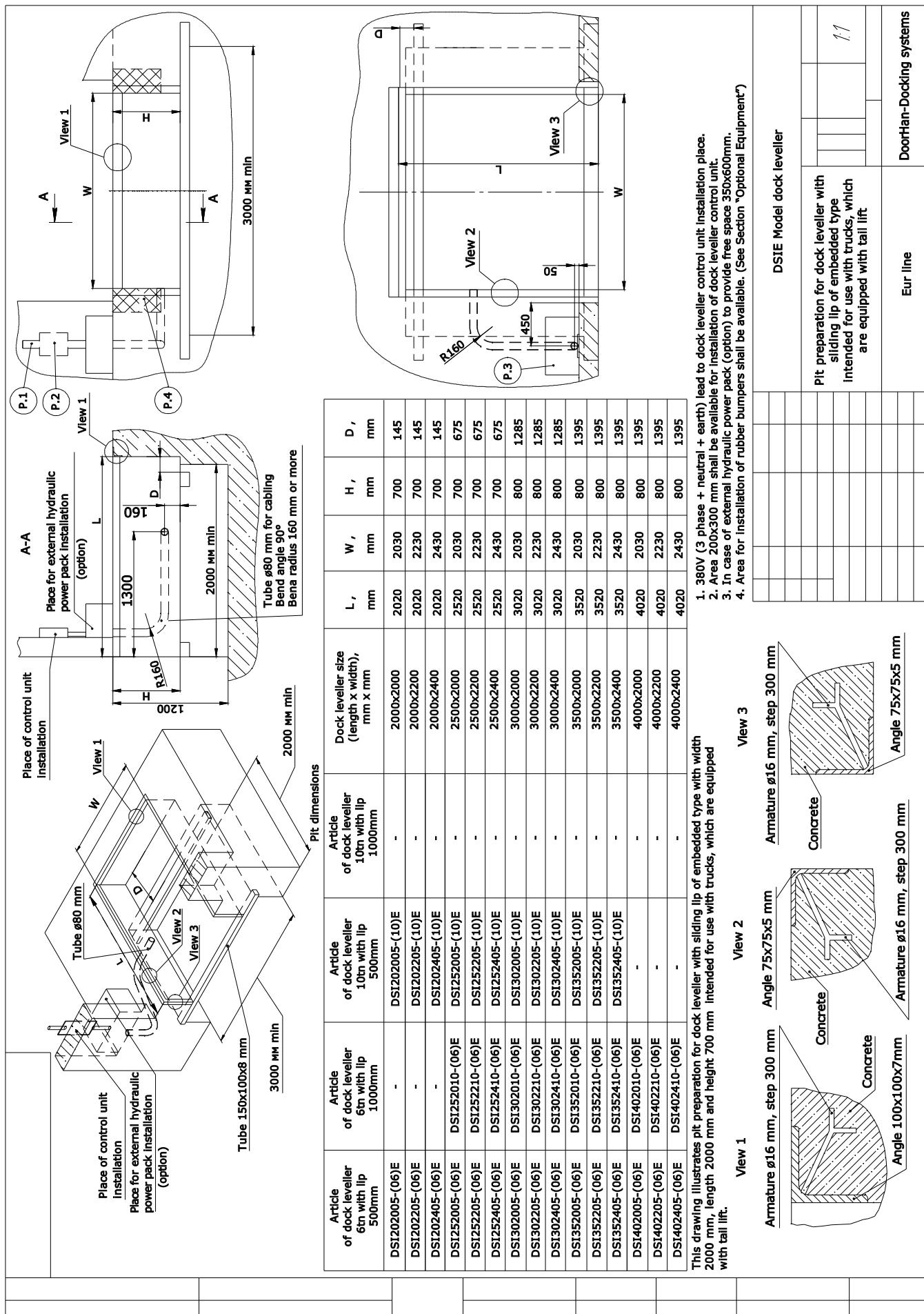
For more detailed information, please contact DoorHan company.

DSIS Model dock leveller	
Electrohydraulic dock leveller with sliding lip of suspended type	1/
Eur line	DoorHan-Docking systems

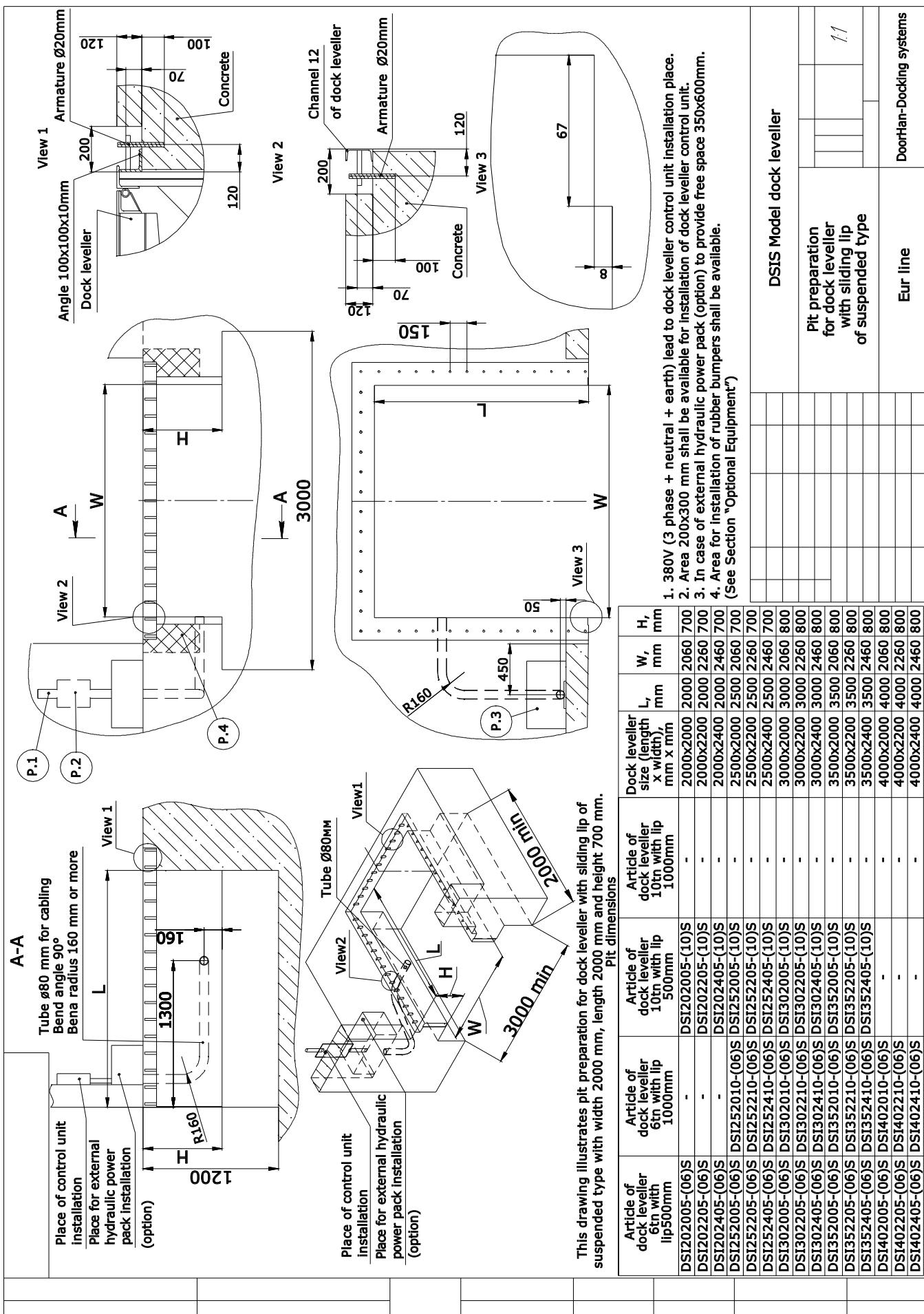
## PIT PREPARATION FOR DOCK LEVELLER WITH SLIDING LIP OF EMBEDDED TYPE INTENDED FOR USE WITH TRUCKS WITHOUT TAIL LIFT



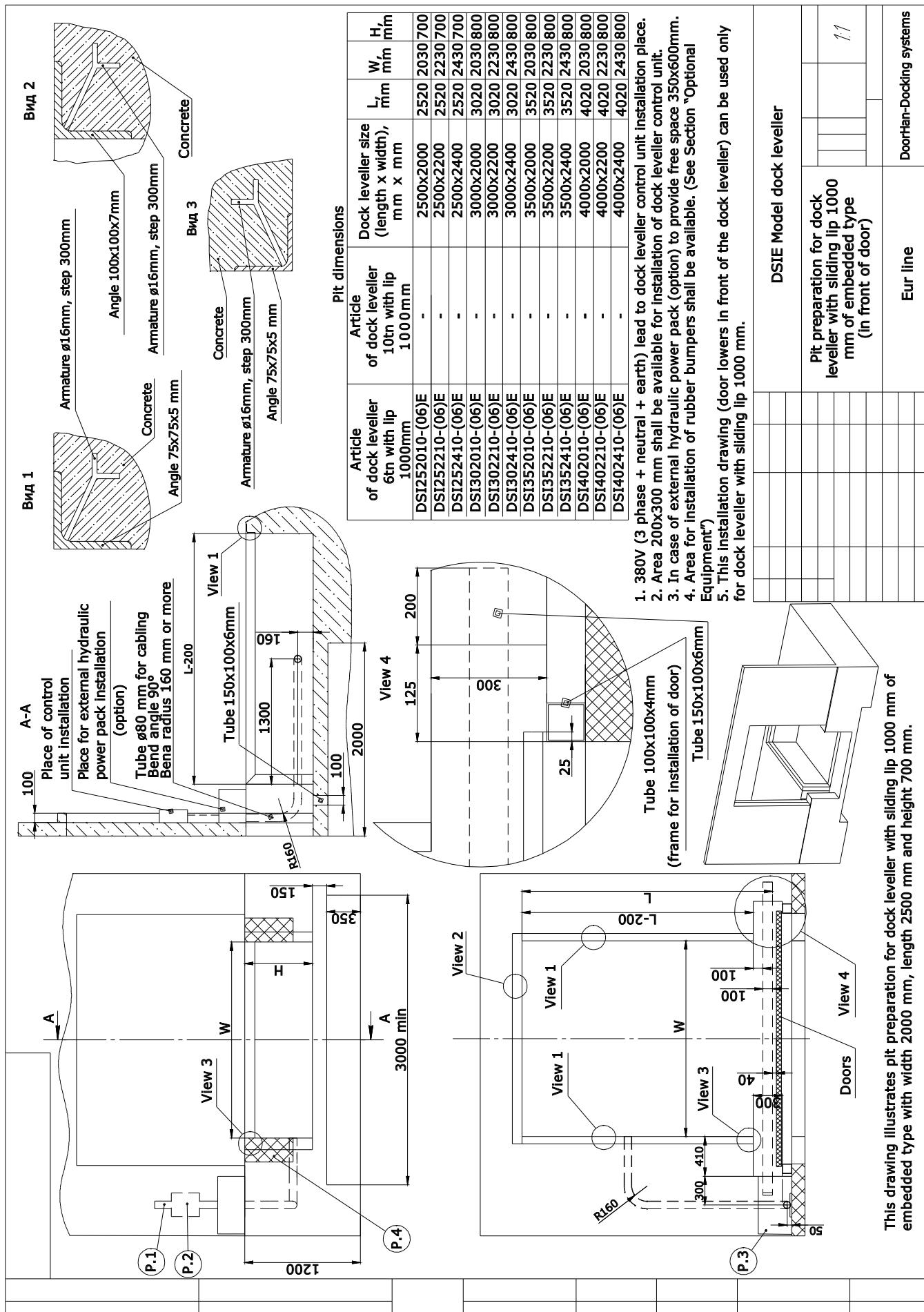
**PIT PREPARATION FOR DOCK LEVELLER WITH SLIDING LIP OF EMBEDDED TYPE  
INTENDED FOR USE WITH TRUCKS, WHICH ARE EQUIPPED WITH TAIL LIFT**



## PIT PREPARATION FOR DOCK LEVELLER WITH SLIDING LIP OF SUSPENDED TYPE



**PIT PREPARATION FOR DOCK LEVELLER WITH SLIDING LIP  
1000 MM OF EMBEDDED TYPE (IN FRONT OF DOOR)**



# MECHANICAL DOCK LEVELER OF MODL SERIES



MODL mechanical dock leveler does not require power supply and is a good alternative to the electrohydraulic dock leveler in case power supply is not available. Manual efforts of 2 people are needed to rise the upper deck, at that the lip turns and opens automatically. Then the deck lowers until it rests on the truck bed. After loading/unloading is completed, the lip lowers; the deck rises and returns to its rest position. Dock leveler can be installed by either embedded or suspended way.

## Main advantages:

- self-cleaning hinges between deck and lip;
- lip length of 400 mm;
- the lip remains in contact with truck bed even if the truck bed is inclined up to 100 mm from horizontal position;
- black-yellow safety marking;
- lip supports ensure safe cross movement along the upper deck in closed position;
- safety shutters prevent personnel feet from jamming in the gap between the upper deck and the pit during operation;
- maintenance support beam ensures safe maintenance and repair of the dock leveler.

## TECHNICAL SPECIFICATIONS AND DIMENSIONS

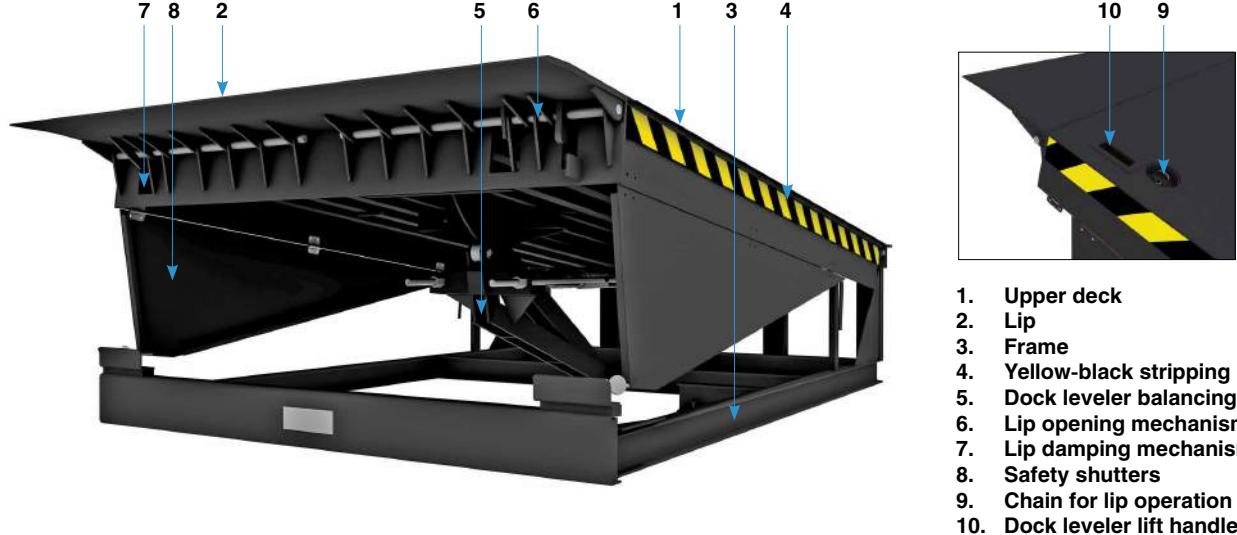
DIMENSIONS / FEATURES		
Length, mm	2500	
Width, mm	1800	2000
Working range		
Above the dock, mm	785	
Below the dock, mm	300	
Thickness of upper sheet, mm	6/(0.6–1.8)*	
Colour**	Black (RAL 9005)	

\* Riffling height is indicated in brackets.

\*\* Powder coating with preliminary shot blasting.

PERFORMANCE	
Load capacity	6000 kg (60 kN)
Maximal point load (upper sheet 6 mm)	1.3 N/mm <sup>2</sup>
Class of surface cleaning before painting	Sa 2
Thickness of painted layer	60–90 micron
Operation temperature range	From -30 to +50 °C

## CONSTRUCTION

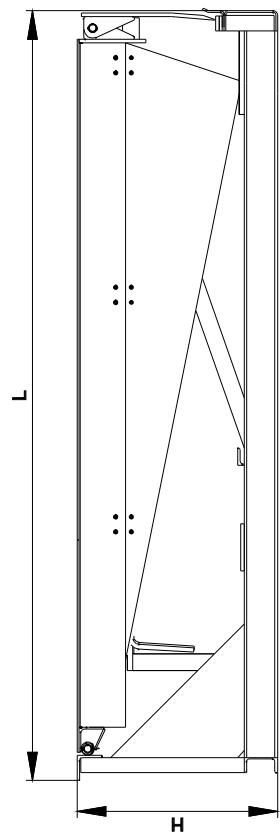


1. Upper deck
2. Lip
3. Frame
4. Yellow-black stripping
5. Dock leveler balancing mechanisms
6. Lip opening mechanisms
7. Lip damping mechanisms
8. Safety shutters
9. Chain for lip operation
10. Dock leveler lift handles

Dock leveler upper deck is made of 5 mm thick steel sheet with 0.5—1.5 mm high riffling and designed to work with a standard 4-wheel forklift with inflatable tyres. Small deformation of the dock leveler surface is admissible, as it does not effect operation of the product. The lip is made of 12 mm thick steel sheet with 1.2—3.6 mm high riffling. The reinforcement profiles can be made of 100 mm flanged beam or 140 140 4mm L-shaped profile, the frame is made of 100 mm channel.

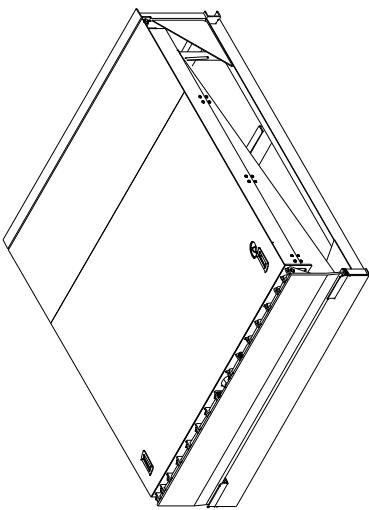
## CONFIGURATION AND DESIGN

PACKAGE	Standard	Options
Lip	Length — 400 mm, bevel — 35 mm	tapered lip
Mounting type	Embedded/suspended	Other upon request
Colour	Black (RAL 9005)	Other upon request
Seal	PVC-seal along the perimeter	-
Load capacity	6000 kg	-
Working range	From -300 to 785 mm	-

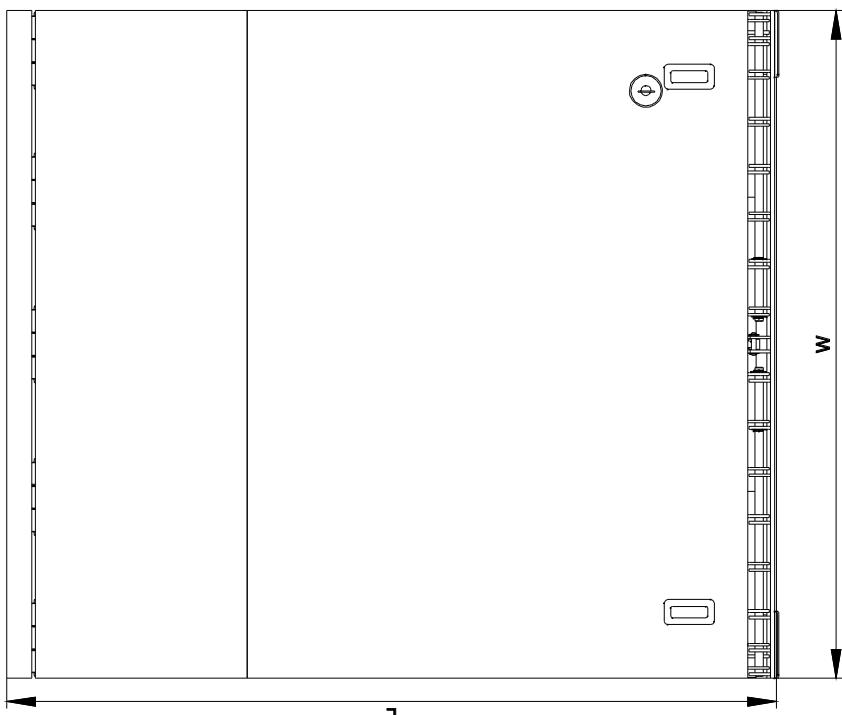
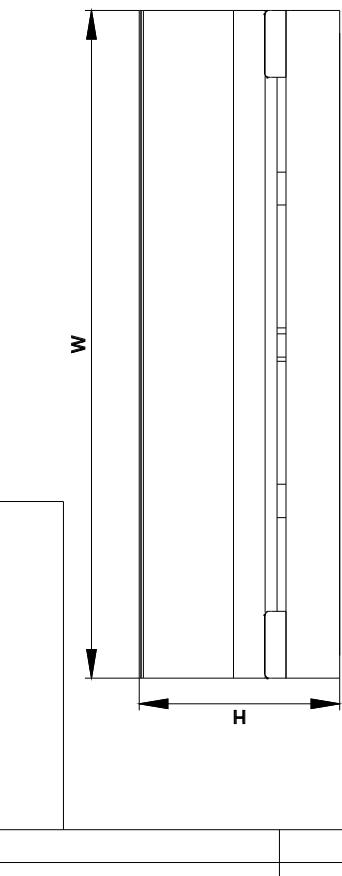


## Dock leveller dimensions

Article of dock leveller	Dock leveller size (length x width), mm x mm	L, mm	W, mm	H, mm
MODL2318E	2300x1800	2300	1800	600
MODL2320E	2300x2000	2300	2000	600

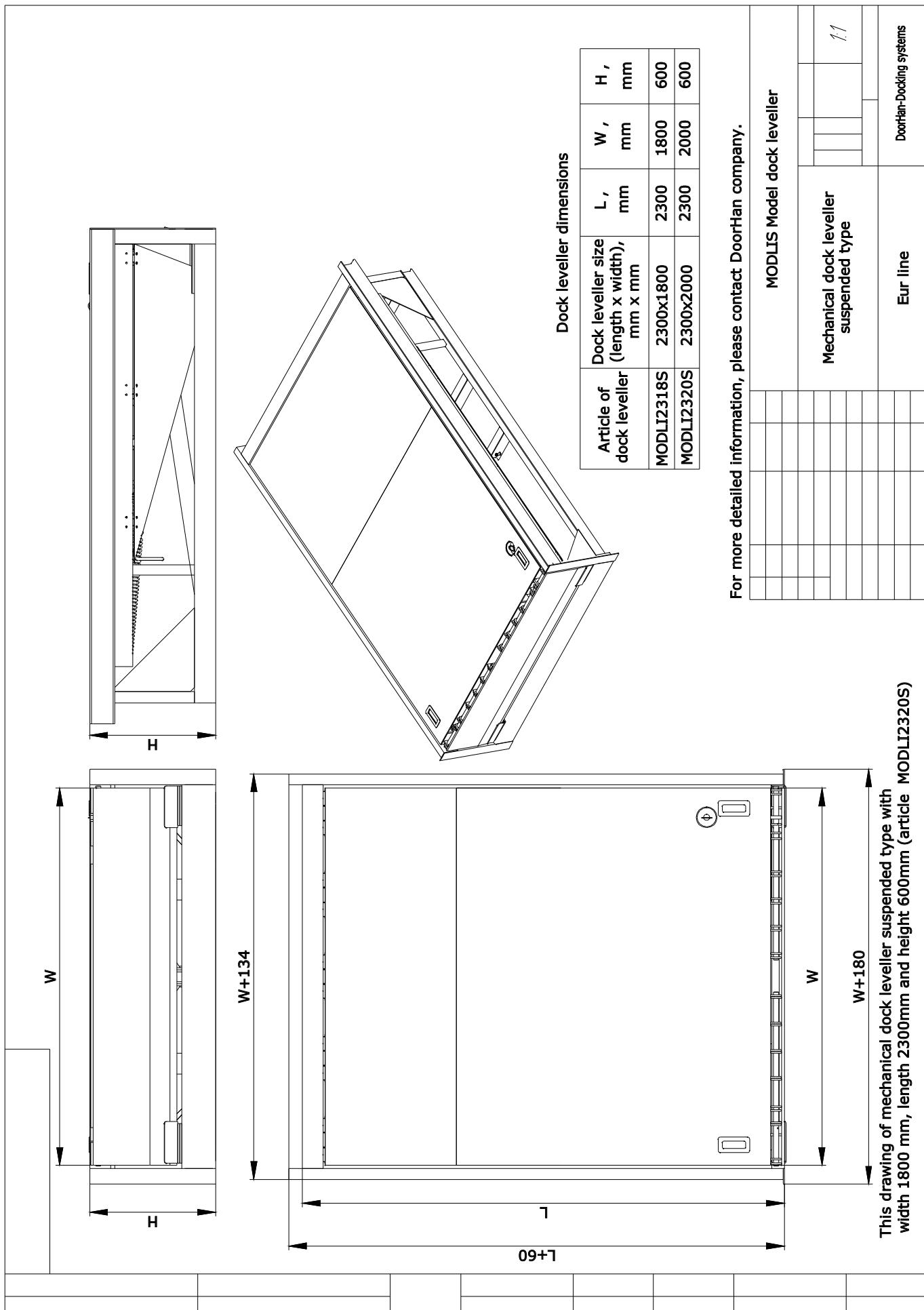


For more detailed information, please contact Doorhan company.

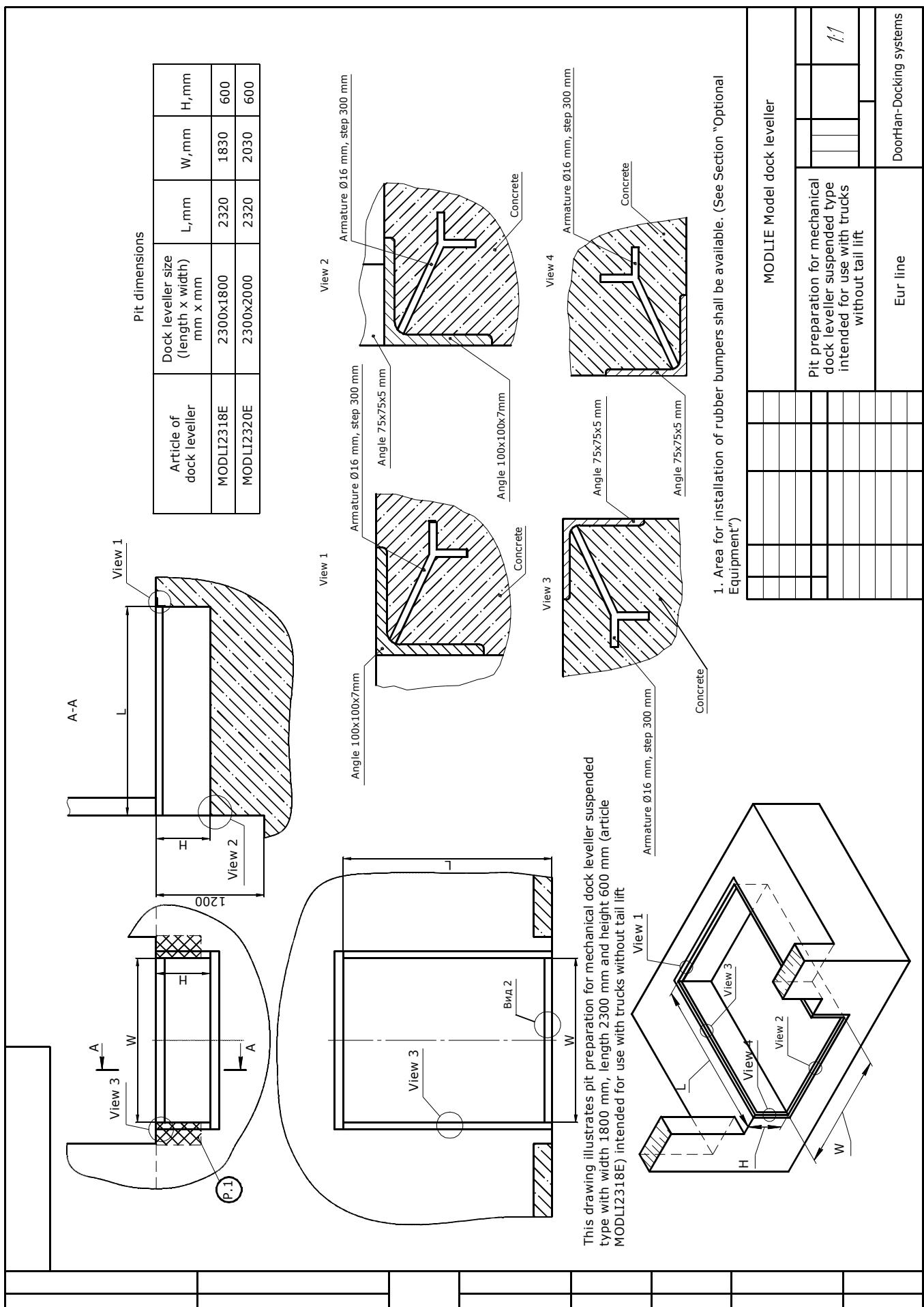


This drawing of mechanical dock leveller embedded type with width 2000 mm, length 2300 mm and height 600 mm (article MODL12320E)

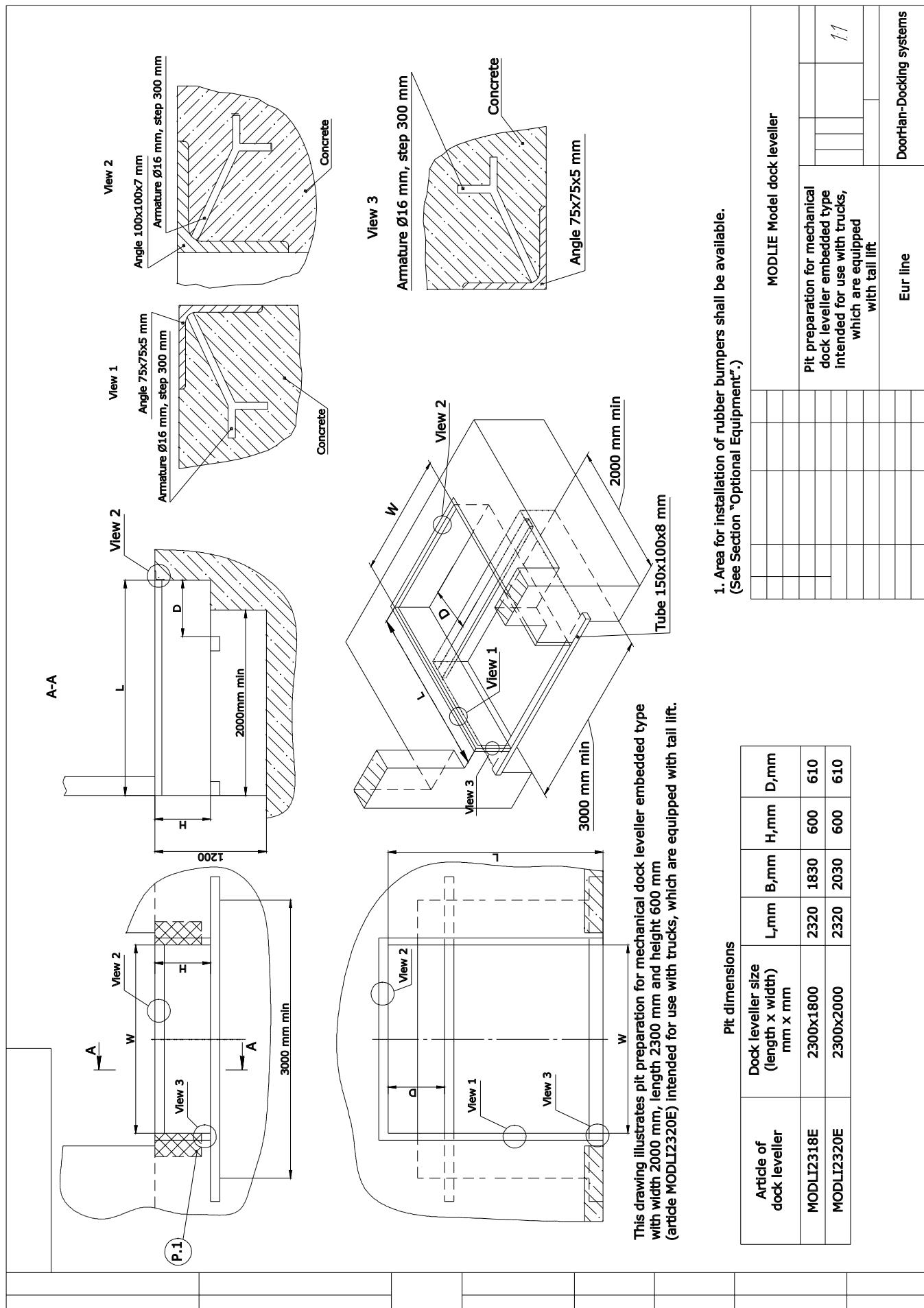
**MECHANICAL DOCK LEVELLER  
SUSPENDED TYPE**



**PIT PREPARATION FOR MECHANICAL DOCK LEVELLER SUSPENDED TYPE  
INTENDED FOR USE WITH TRUCKS WITHOUT TAIL LIFT**



**PIT PREPARATION FOR MECHANICAL DOCK LEVELLER EMBEDDED TYPE  
INTENDED FOR USE WITH TRUCKS, WHICH ARE EQUIPPED WITH TAIL LIFT**

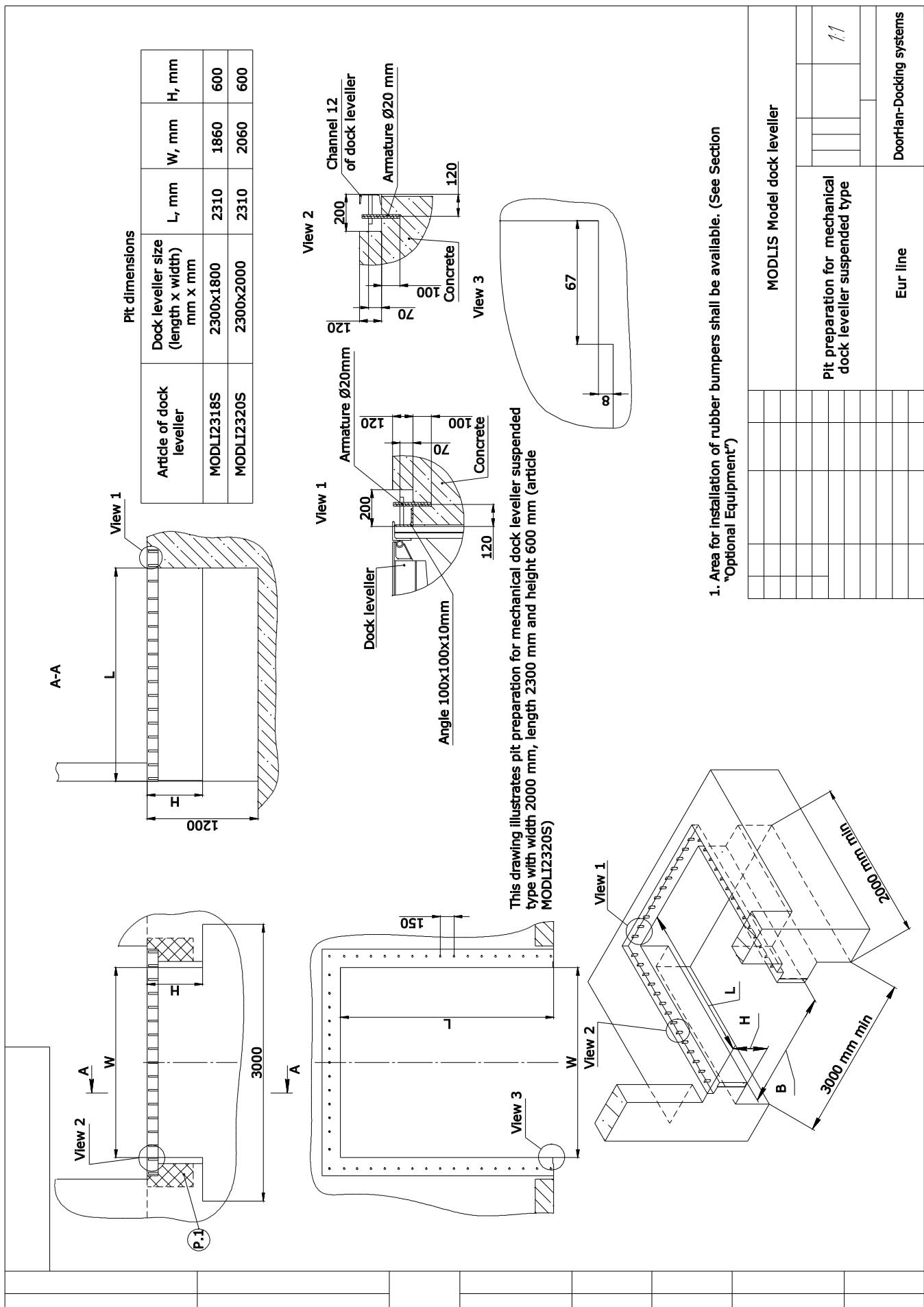


This drawing illustrates pit preparation for mechanical dock leveller embedded type with width 2000 mm, length 2300 mm and height 600 mm (article MODL12320E) intended for use with trucks, which are equipped with tail lift.

**Pit dimensions**

MODL12318E		MODL12320E		DoorHan-Docking systems	
Pit preparation for mechanical dock leveller intended for use with trucks, which are equipped with tail lift	1/1				

## PIT PREPARATION FOR MECHANICAL DOCK LEVELLER SUSPENDED TYPE



# MECHANICAL DOCK LEVELER MINIDOK OF MDLM SERIES



MDLM mechanical series dock leveler Minidock is an efficient and economical device designed for using with trucks which have approximately the same height above the ramp level. It does not require a power supply and can be used when it is impossible to install an electro hydraulic dock leveler. Minidock can be operated manually by one person with a special lever. When the upper deck is raised the lip turns and opens automatically. Then the deck lowers until it rests on the truck bed. After loading/unloading is completed, the lip lowers; the deck rises and returns to its rest position. Dock leveler can be installed either on the ramp or in the pit.

## Main advantages:

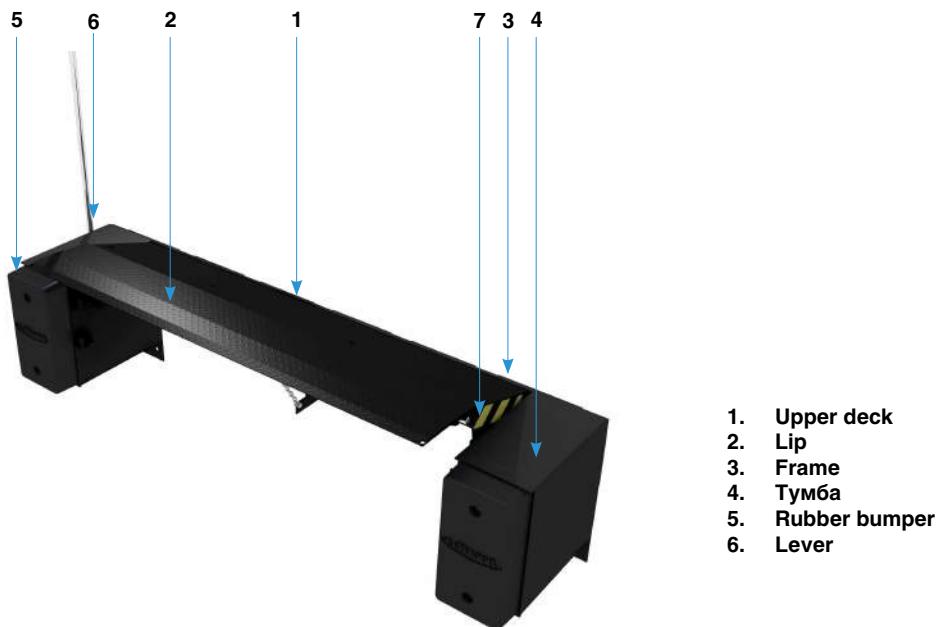
- self-cleaning hinges between deck and lip;
- yellow-black signal strip shows that the platform is located above the fixed ramp level;
- lip length of 300 mm.

DIMENSIONS/ FEATURES	
Length, mm	684
Width, mm	1600/1800/2000
Working range	
Above the dock, mm	245
Below the dock, mm	190
Thickness of upper sheet, mm*	6/(0.6→1.8)*
Colour**	Black (RAL 9005)

\* Riffling height is indicated in brackets.  
\*\* Powder coating with preliminary shot blasting.

PERFORMANCE	
Load capacity	6000 kg (60 kN)
Maximal point load (upper sheet 6 mm)	1.3 N/mm <sup>2</sup>
Class of surface cleaning before painting	Sa 2
Thickness of painted layer	60→90 mikron
Operation temperature range	From -30 to +50 °C

## CONSTRUCTION

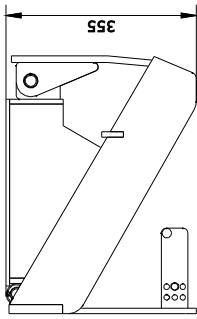


Dock leveler upper deck is made of 6 mm thick steel sheet with 0.5—1.5 mm high riffling and designed to work with a standard 4-wheel forklift with inflatable tyres. Small deformation of the dock leveler surface is admissible, as it does not effect operation of the product. The lip is made of 12 mm thick steel sheet with 1.2—3.6 mm high riffling.

## CONFIGURATION AND DESIGN

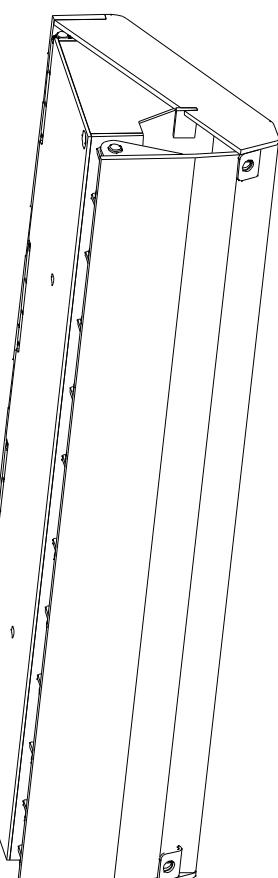
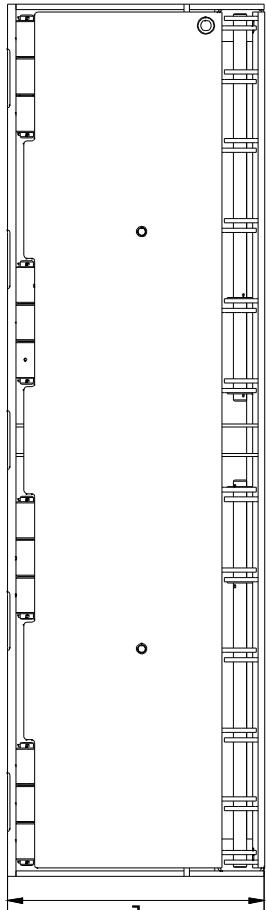
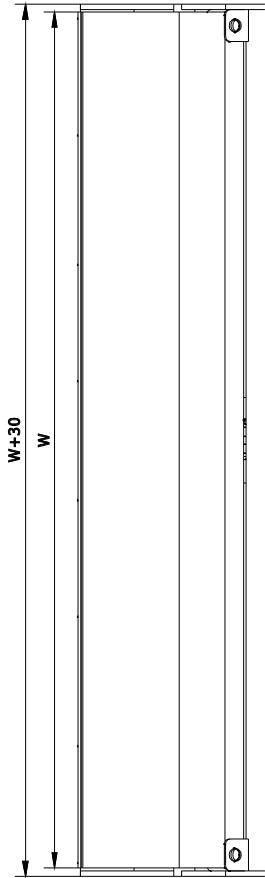
PACKAGE	Standard	Options
Lip	Length — 300 mm, bevel — 35 mm	-
Mounting type	On the ramp/In the pit	Other upon request
Colour	Black (RAL 9005)	Other upon request
Working range	From 190 to 245 mm	Other upon request

## **MECHANICAL DOCK LEVELLER "MINIDOCK" OF EMBEDDED TYPE**



Dock leveller dimensions

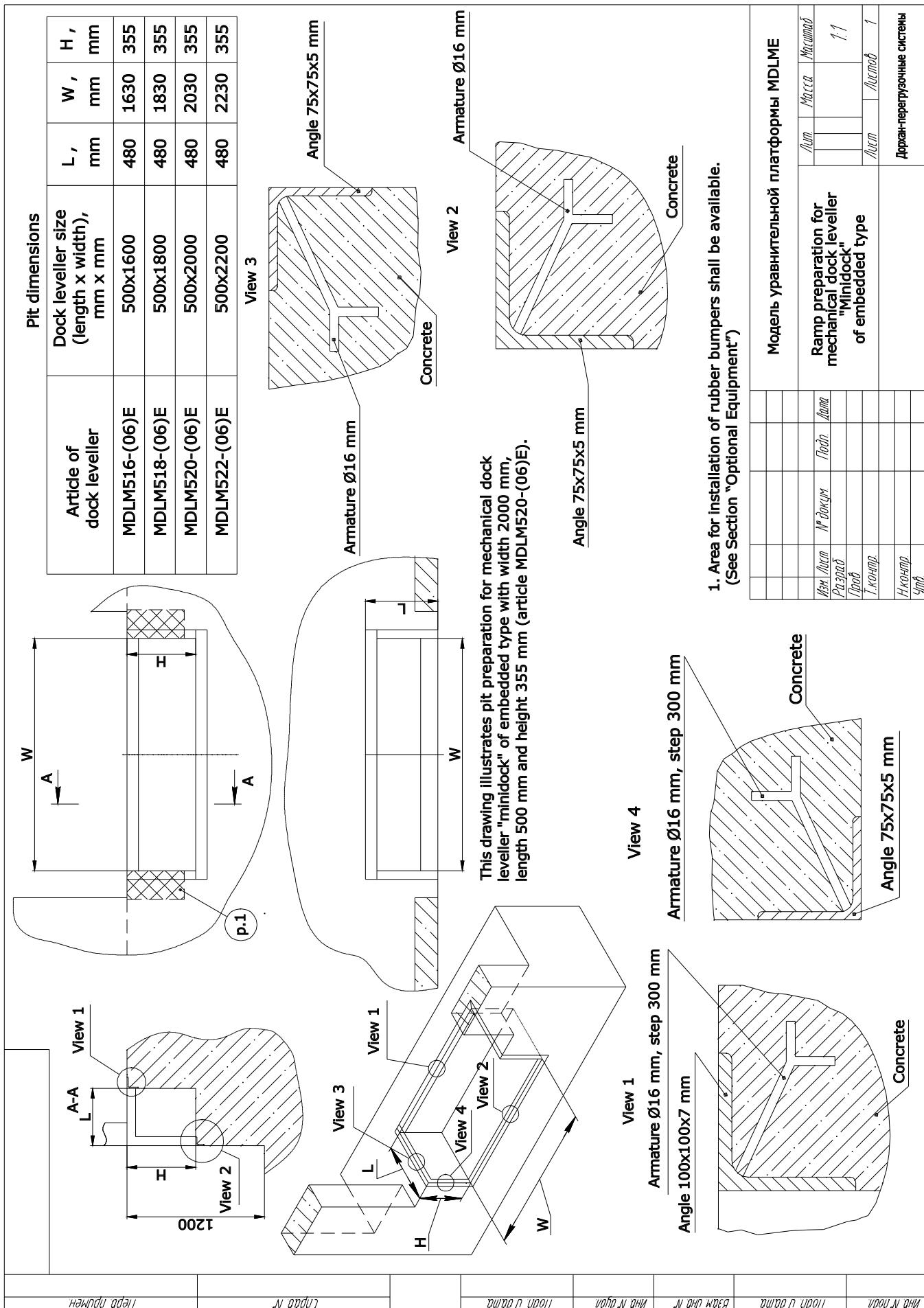
Article of dock leveller	Dock leveller size (length x width), mm x mm	L, mm	W , mm	H , mm
<b>MDLM516-(06)E</b>	500x1600	480	1600	355
<b>MDLM518-(06)E</b>	500x1800	480	1800	355
<b>MDLM520-(06)E</b>	500x2000	480	2000	355
<b>MDLM522-(06)E</b>	500x2200	480	2200	355



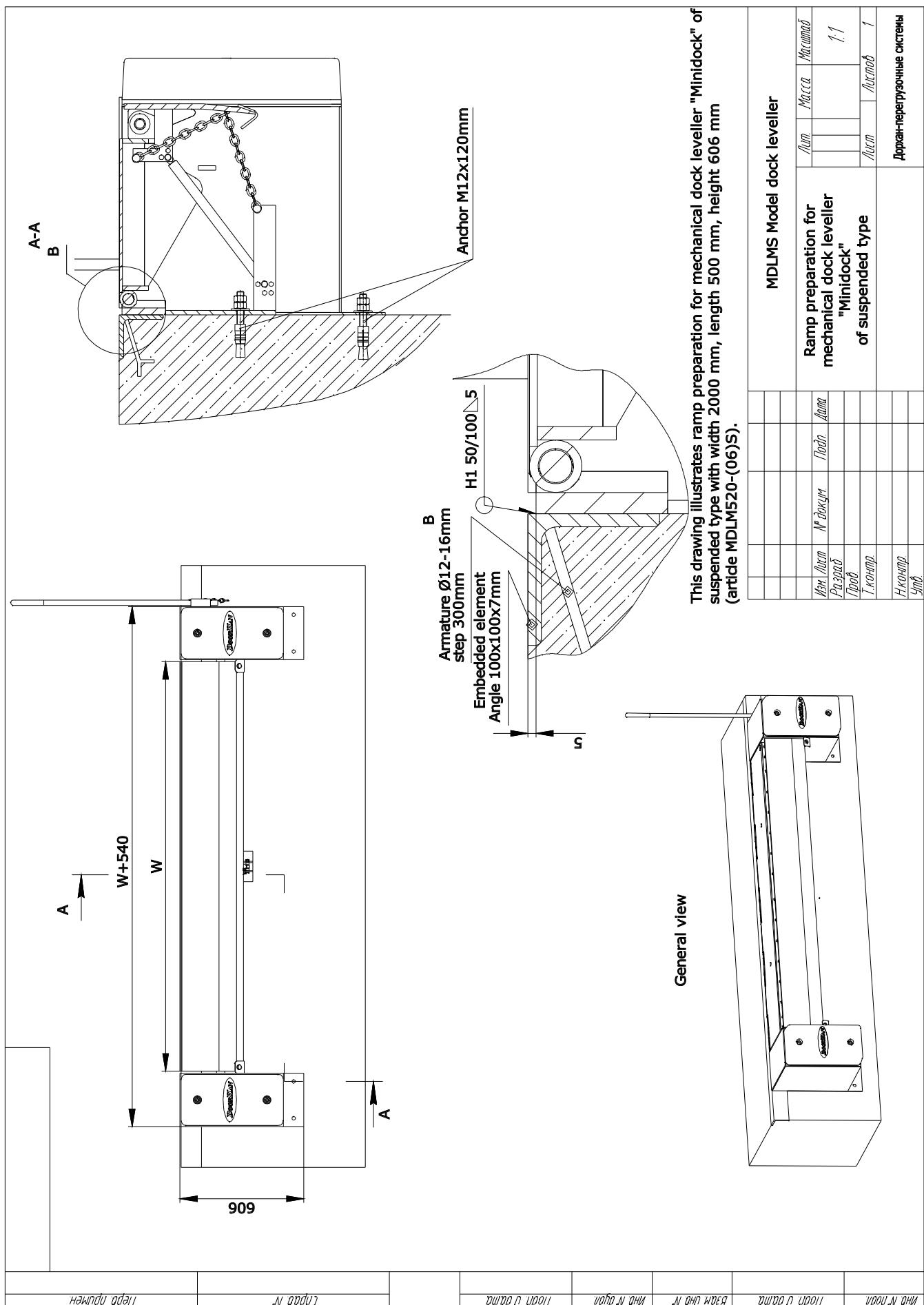
This drawing of mechanical dock leveller "Minidock" of embedded type with width 1600 mm, length 500 mm, height 355 mm(article MDLM516-(06)E).

№ п/п	Название	Задача №	Материал	Номер документа	Разработчик	Год разработки	Компания	Номер	Лист
<b>MDLM520 Model dock leveller</b>									
Mechanical dock leveller "Minidock" of suspended type									
1/1									
Дорожн-перегрузочные системы									

**RAMP PREPARATION FOR MECHANICAL DOCK LEVELLER  
"MINIDOCK" OF EMBEDDED TYPE**

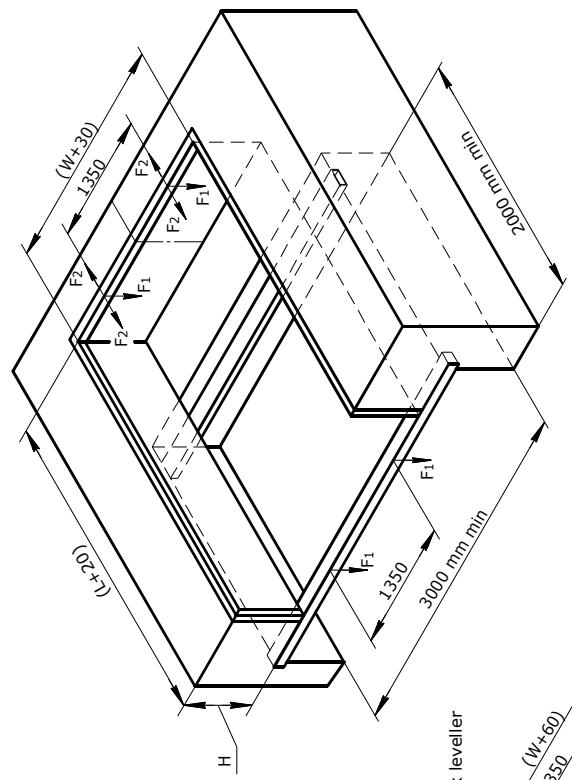


**RAMP PREPARATION FOR MECHANICAL  
DOCK LEVELLER "MINIDOCK" OF SUSPENDED TYPE**



## DISTRIBUTION OF LOADING ON DOCK LEVELLER PITS

Pit preparation for dock leveller with hinged lip of embedded type  
for using with trucks with tail lift

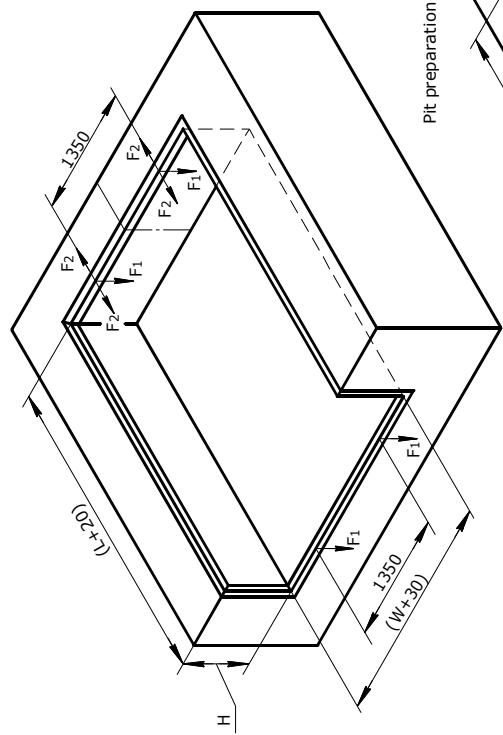


Acting force (kN) Speed max. 10km/h		F <sub>1</sub>	F <sub>2</sub>
Dock leveller 6tn		18	15
Dock leveller 10tn		28	25

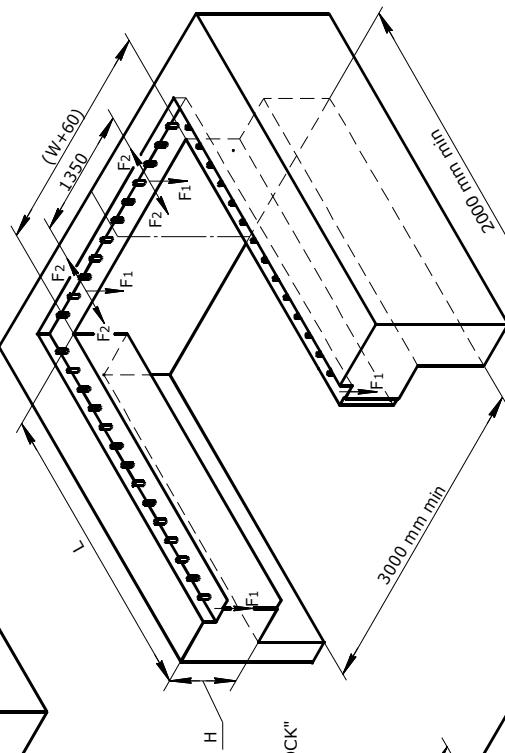
Distribution of loading on dock leveller pits

1:1  
DoorHan-Docking systems

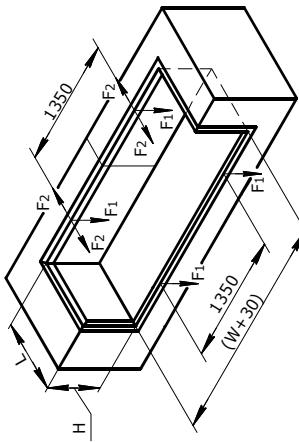
Pit preparation for dock leveller with hinged lip of embedded type  
for using with trucks without tail lift



Pit preparation for suspended type dock leveller



Pit preparation for dock leveller "MINIDOCK"



H - dock leveller height ,mm;  
W - dock leveller width ,mm;  
L - dock leveller length ,mm.

M&D Nodock Toden u dříama Baam u dříma M&D Nodock Toden u dříma M&D Nodock Toden u dříma Baam u dříma M&D Nodock Toden u dříma

# OPTIONAL EQUIPMENT



## WHEEL GUIDES

Wheel guides installed in front of the loading bay increase the safety and efficiency of loading and unloading operations and improve the lifespan of dock shelters considerably. They are designed to minimize possible contact with the truck wheel rim. The wheel guides are available in 159mm diameter tube with bends for fastening. They are bolted into place using concrete anchors or can be sunk into the floor. As the wheel guides are exposed to high dynamic load, the model with anchor bolt fastening shall be installed only on the concrete area. In case of asphalt coated area the wheel guides shall be sunk into the floor.



## RUBBER BUMPERS

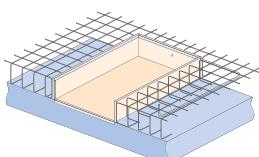
The rubber bumpers provide safe approach of trucks to the loading place and prevent damage to the building walls. They cushion a shock in case of incorrect parking. The bumpers are made of technical rubber, which increases their wear resistance and durability. The following models of bumpers are available:

- small bumper (250 250 100 mm)
- large bumper (500 250 100 mm)
- console type bumper (500 250 100 mm)
- sliding bumper (500 250 100 mm)
- rubber bumper with steel plate (500 250 100 mm)



## GUARDS

The guards are installed indoors and prevent damage of walls by forklifts and pallets. They ensure correct and safe moving of vehicles in the storage room and near the dock. The guard is a round tube with diameter of 100–159 mm. It can have any shape and can be made in accordance with customer's outlines.



## PIT FRAME FOR CONCRETING

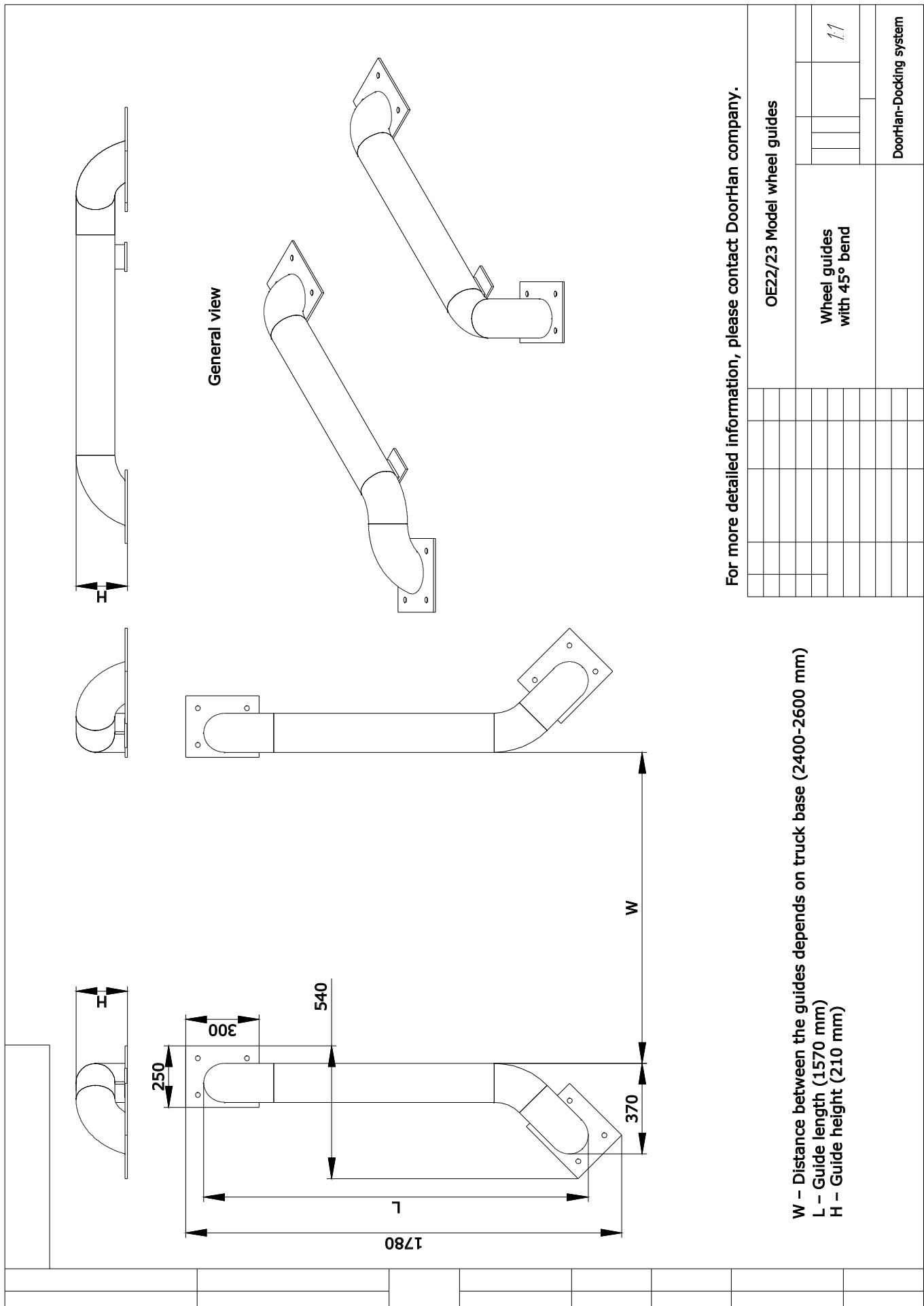
The pit frame is made in accordance with dock leveler dimensions.



## SHOCK COLUMN/BOLLARD/PROTECTION POST

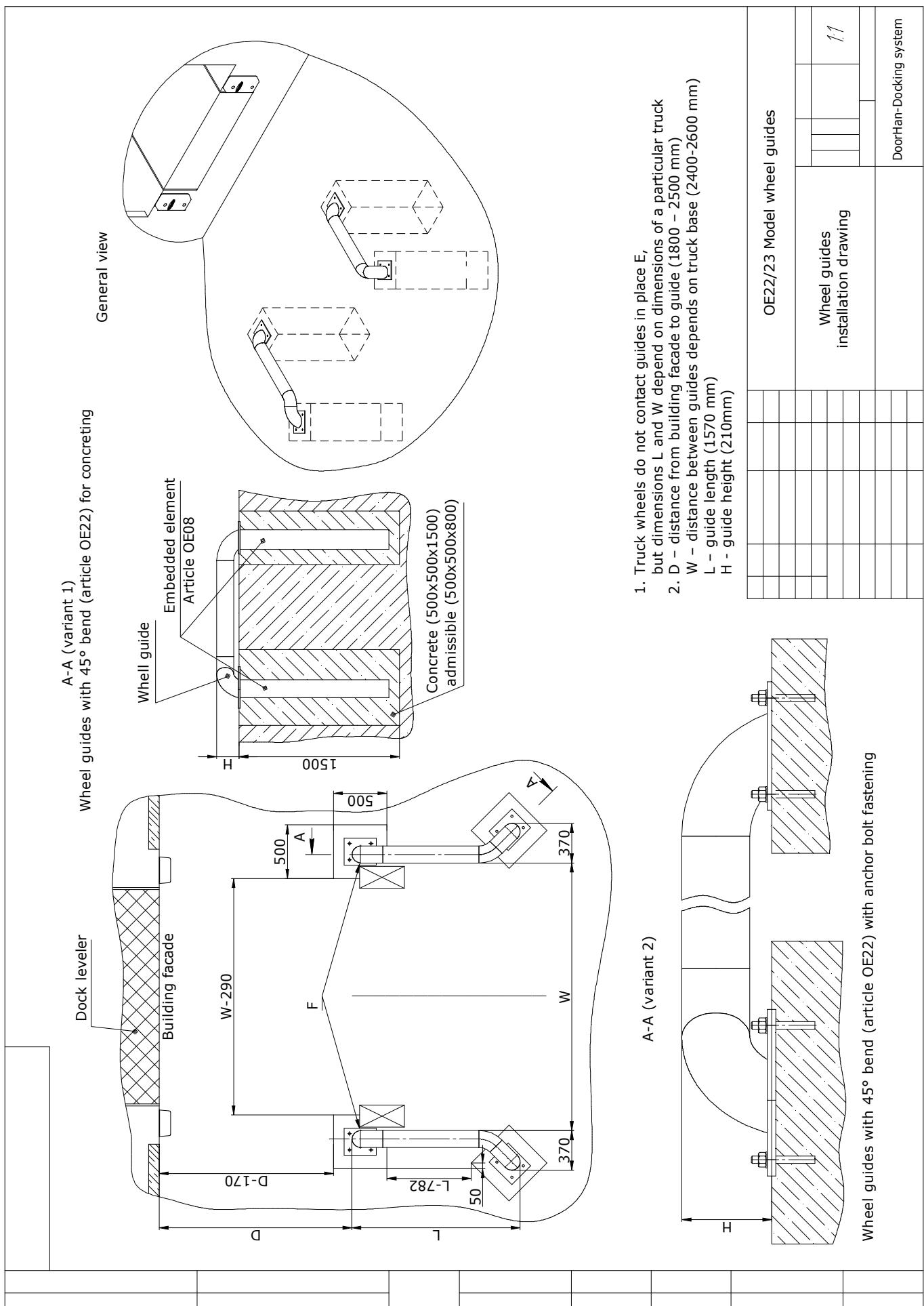
Shock columns protect the door's vertical angles from damage by pallets and forklifts. It is installed indoors in front of the vertical angles. Shock columns are available in 100—159 mm diameter tube.

## WHEEL GUIDES WITH 45° BEND

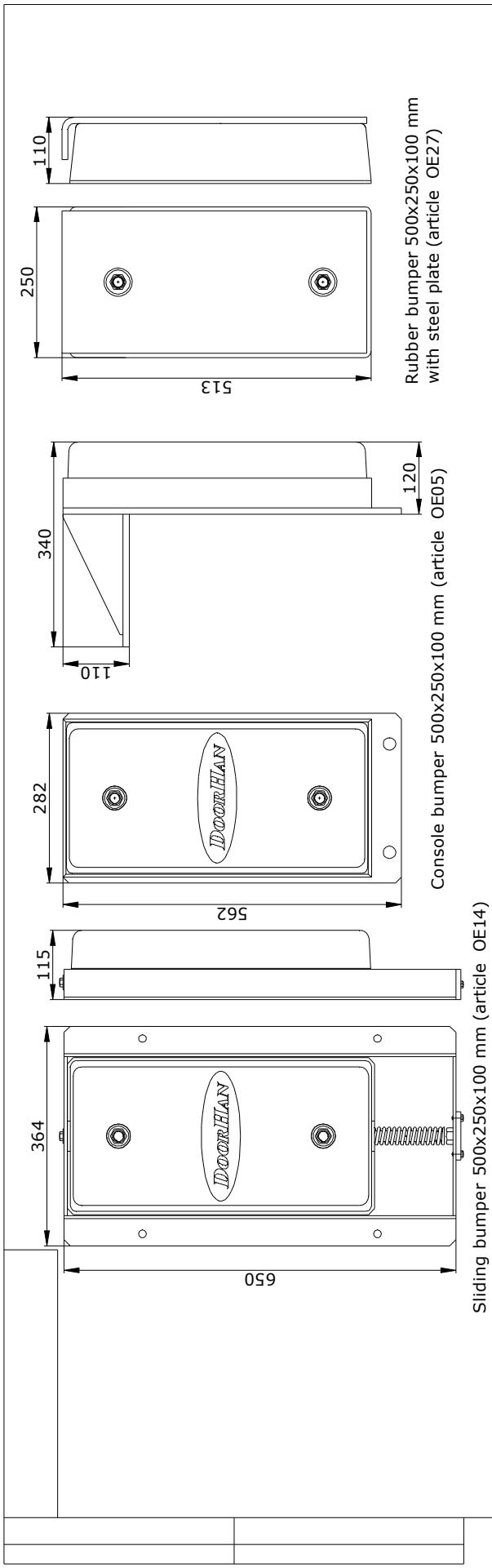


For more detailed information, please contact DoorHan company.

**W** - Distance between the guides depends on truck base (2400-2600 mm)  
**L** - Guide length (1570 mm)  
**H** - Guide height (210 mm)

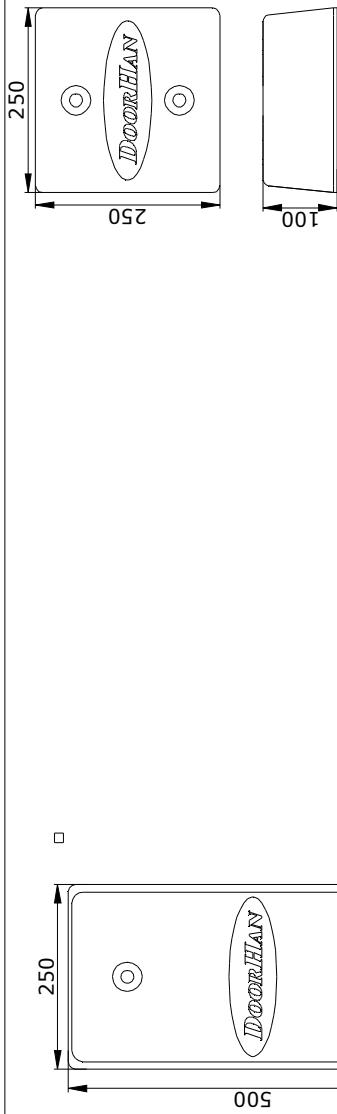


## RUBBER BUMPERS



Console bumper 500x250x100 mm (article OE05)  Rubber bumper 500x250x100 mm with steel plate (article OE27)

Sliding bumper 500x250x100 mm (article OE14)

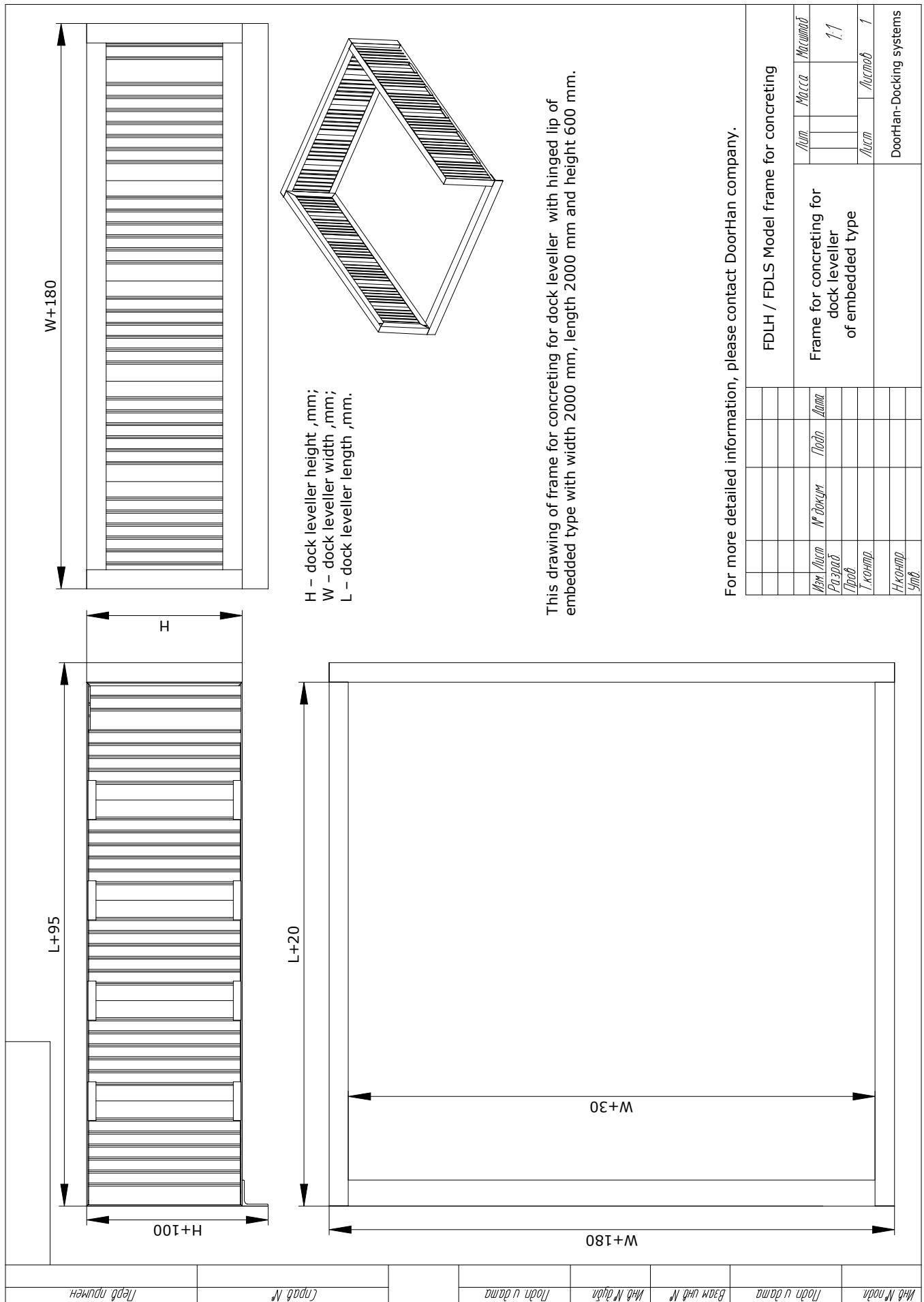


Rubber bumper 250x250x100 mm (article OE04)  
Bumpers are completed with anchor bolts 20x150 mm 2 pcs

For more detailed information, please contact DoorHan company.

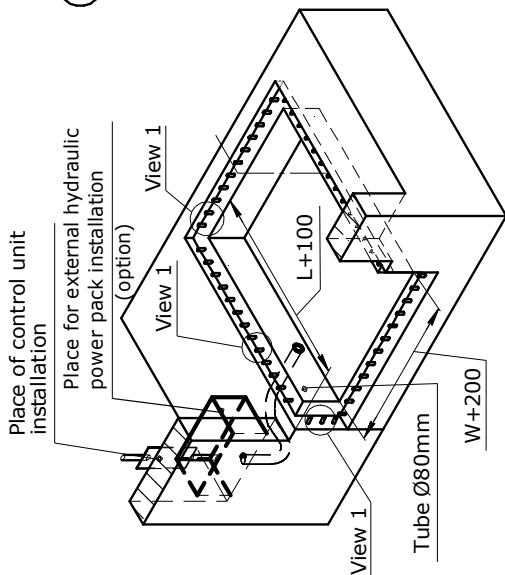
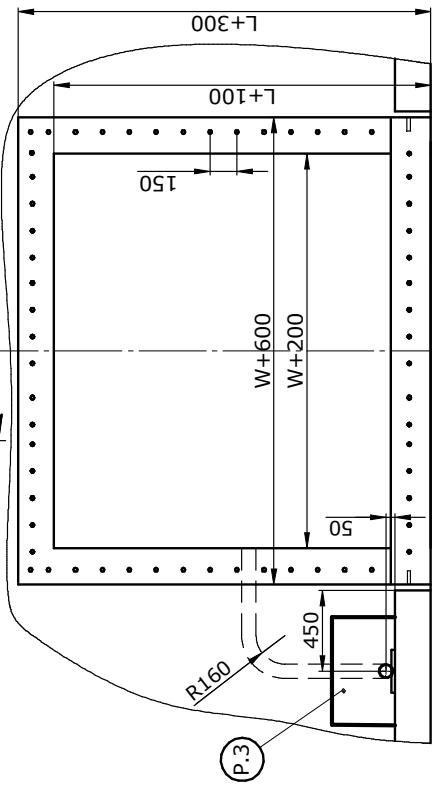
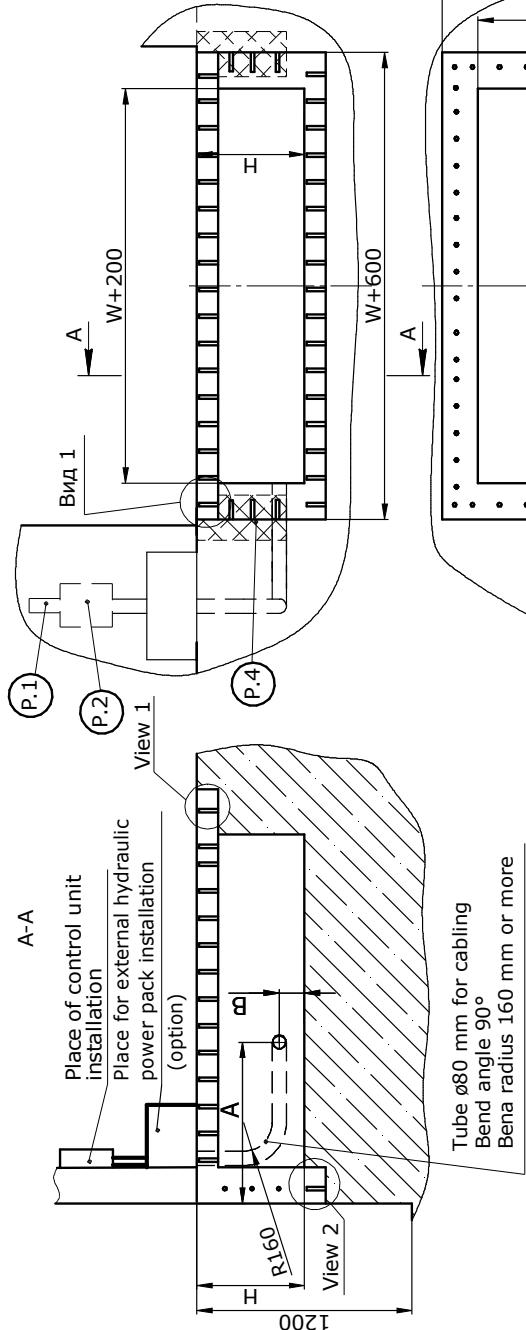
Rubber bumper 500x250x100 mm (article OE06)  
Bumpers are completed with anchor bolts 20 x150 mm 2 pcs

# **FRAME FOR CONCRETING FOR DOCK LEVELLER OF EMBEDDED TYPE**



## **FRAME FOR CONCRETING PIT PREPARATION FOR DOCK LEVELLER OF EMBEDDED TYPE**

H - dock leveller height, mm;  
 W - dock leveller width, mm;  
 L - dock leveller length, mm.  
 For dock leveller with hinged lip  
 A = 700 mm; B = 140 mm.  
 For dock leveller with sliding lip  
 A = 1300 mm; B = 160 mm.



1. 380V (3 phase + neutral + earth) lead to dock leveller control unit installation place.
2. Area 200x300 mm shall be available for installation of dock leveller control unit.
3. In case of external hydraulic power pack (option) to provide free space 350x600 mm.
4. Area for installation of rubber bumpers shall be available.

(See Section "Optional Equipment")

FDLH / FDLS Model frame for concreting							DoorHan-Docking systems		
			Frame for concreting pit preparation for dock leveller of embedded type						
						<i>Mun</i>		<i>Maccia</i>	<i>Mauwand</i>
<i>Wym. Nutm.</i>	<i>Wym. Nutm.</i>	<i>Wym. Nutm.</i>	<i>Doğum.</i>	<i>Doğan.</i>	<i>Doğan.</i>	<i>Micm</i>	<i>Micm</i>	<i>Micm</i>	<i>Micm</i>
<i>Pazgan</i>	<i>Pazgan</i>	<i>Pazgan</i>							
<i>Broß</i>	<i>Broß</i>	<i>Broß</i>							
<i>T. Konya</i>	<i>T. Konya</i>	<i>T. Konya</i>							
<i>H.Kirman</i>	<i>H.Kirman</i>	<i>H.Kirman</i>							
<i>Yıldız</i>	<i>Yıldız</i>	<i>Yıldız</i>							

This drawing illustrates frame for concreting pit preparation for dock leveller with hinged lip of embedded type with width 2000mm, length 2000 mm and height 600 mm.

# MECHANICAL FOLDING TRACK OF FT SERIES



FT mechanical folding tracks are installed on open ramps to compensate height difference up to 360 mm, depending on a model. They are designed for work with trucks or trailers, which have approximately the same height. When loading/unloading the track can be lowered in the truck body using the side handle until the lip rests on the truck bed. After loading/unloading is completed, the track rises and returns to its original position. Mechanical folding tracks can have stationary or sliding design. Sliding folding track allows for loading/unloading operations to be performed in several places, moving along the guide rail from one place to another. Mechanical folding tracks of FT series comply with the rules and regulations of the European Standard EN 1398.

## Main advantages:

- lock which blocks the track in vertical position;
- yellow-black signal strip shows that the platform is located above the fixed ramp level.

## TECHNICAL SPECIFICATIONS AND DIMENSIONS

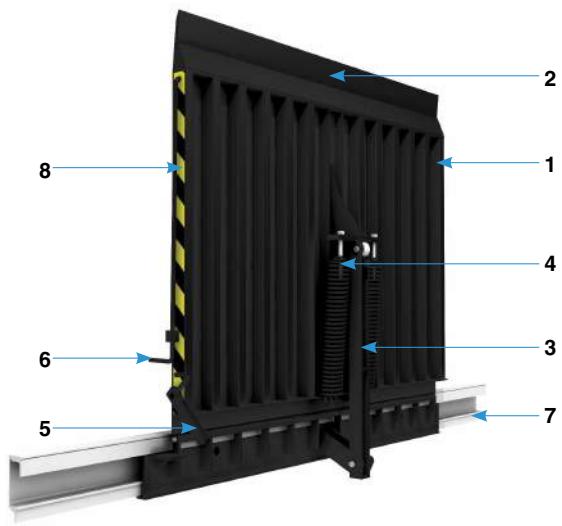
DIMENSIONS/FEATURES				
Length, mm	1000	1500		
Width, mm	1200	1500	1800	2000
Working range				
Below the dock, mm	160-250			
Thickness of track's upper sheet, mm	5			
Colour*	Black (RAL 9005)			

\* Powder painting with preliminary shot blasting.

Performance	
Load capacity	4000 kg (40 kN)
Maximal point load	1.3 N/mm <sup>2</sup>
Class of cleaning before painting	Sa 2
Thickness of coating layer	60-90 micron
Operation temperature range	From -30 to +50 °C

## CONSTRUCTION

### SLIDING FOLDING TRACK



1. Deck
2. Lip
3. Track spring balancing mechanism
4. Spring
5. Lock for blocking of track in vertical position
6. Handle for track operation
7. Guide rail (standard rail length is 3000 mm, supplied upon request)
8. Signal black-yellow stripping

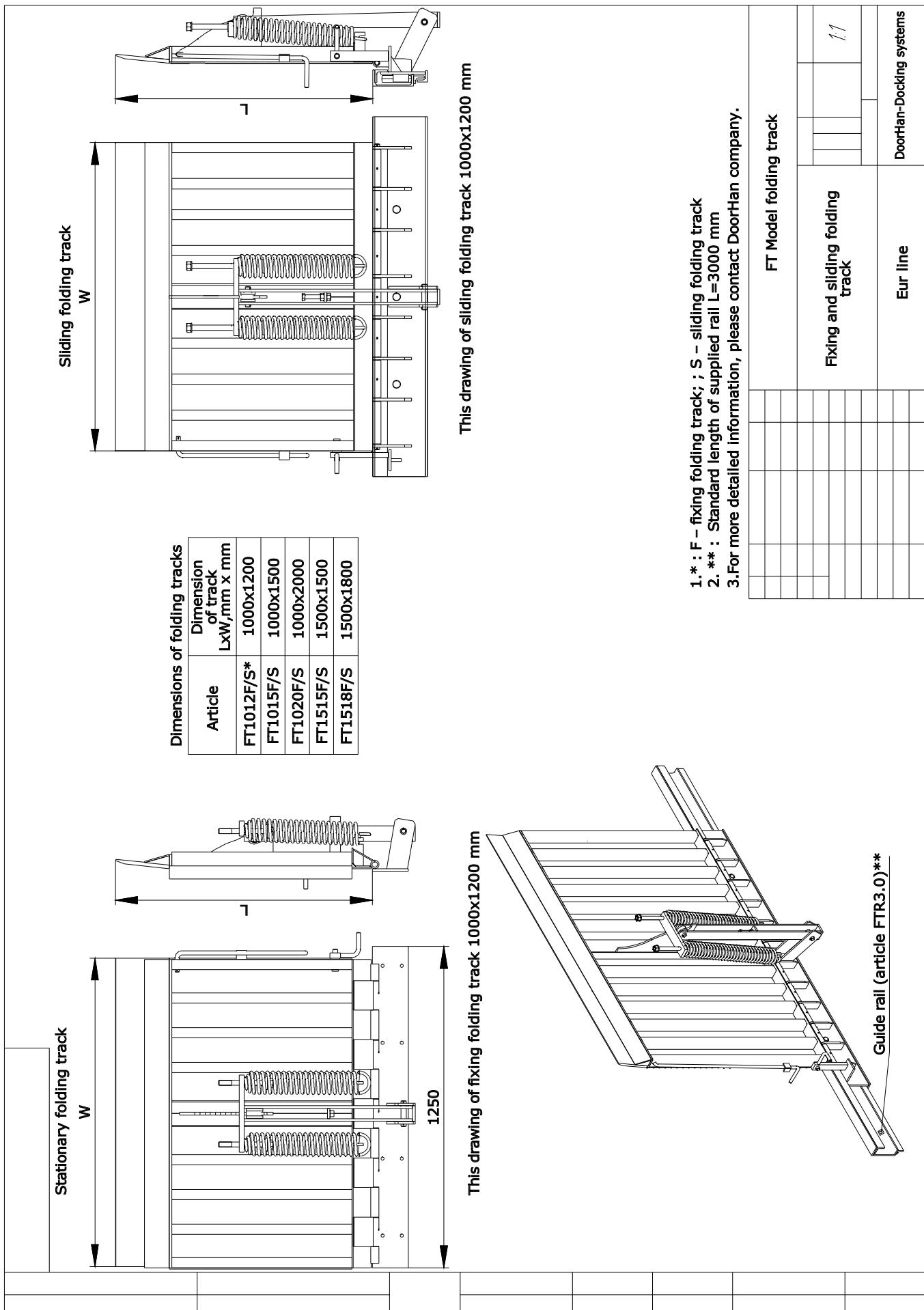
### STATIONARY FOLDING TRACK



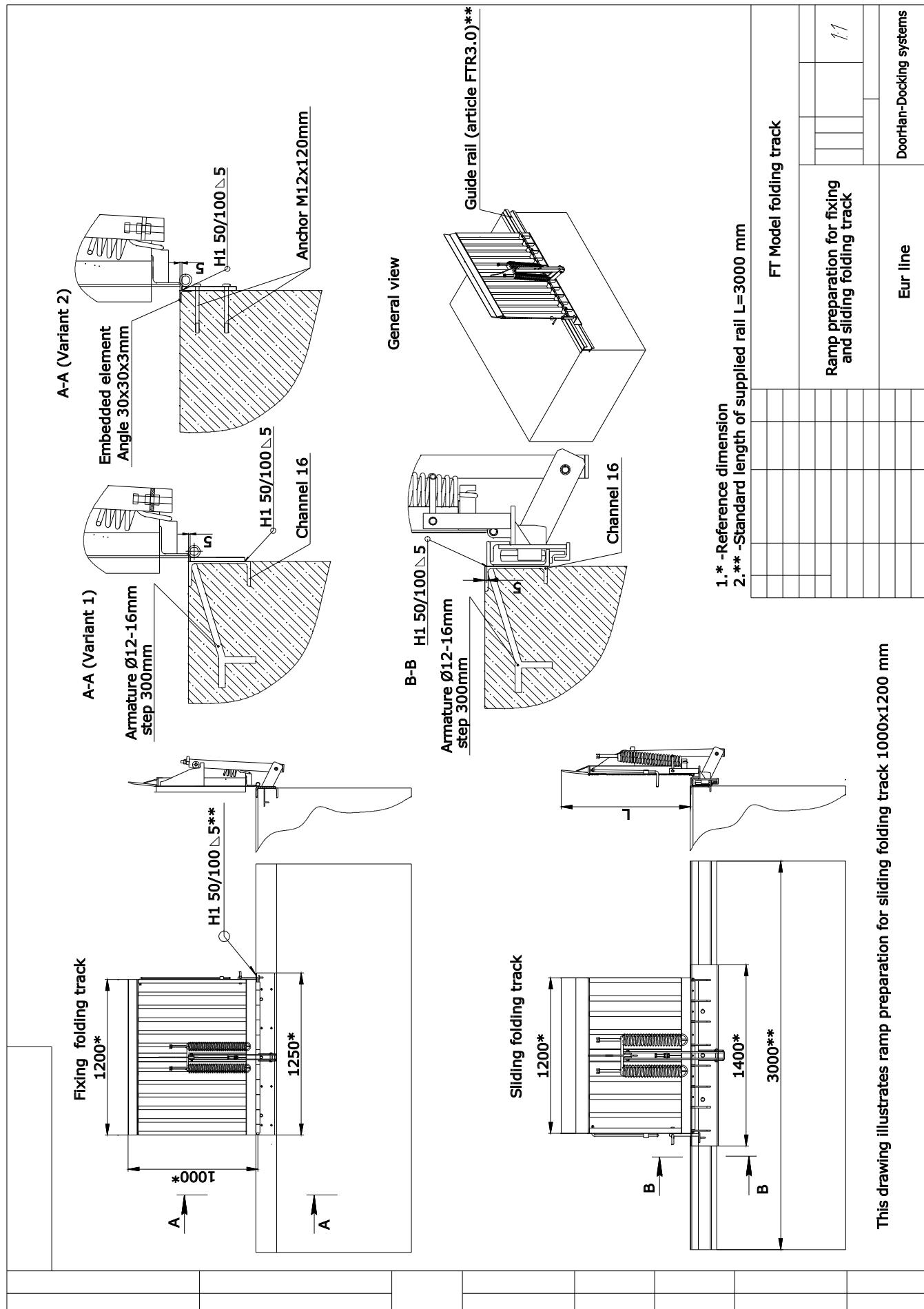
1. Deck
2. Lip
3. Track spring balancing mechanism
4. Spring
5. Lock for blocking of track in vertical position
6. Handle
7. Mounting plate
8. Signal black-yellow stripping

Upper deck of the folding track is made of 5 mm thick steel sheet with 0.5—1.5 mm high riffling and is designed for work with hydraulic hand-trucks and standard 4-wheel forklifts with inflatable tyres. Upon customer's request the track can be designed for work with equipment, which has high point load, such as electrical pilers. Small deformation of track upper sheet is admissible, as it does not effect operation of the product. The lip is made of 12 mm thick steel sheet with 1.2—3.6 mm high riffling. The reinforcement profiles of the track are made of 60×40×3 mm tube. The track is equipped with lever balancing system, based on 2 springs and roller support. The guide rail is made of hot-rolled 160 mm channel.

PACKAGE		
	Standard	Option
Mounting type	Stationary/sliding	Other upon request
Colour	Black (RAL 9005)	Other upon request
Lip	210 mm, bevel 35 mm	
Load capacity	4000 kg (40 kN)	Other upon request



**RAMP PREPARATION FOR FIXING  
AND SLIDING FOLDING TRACK**



# MOBILE TRACK OF MT SERIES

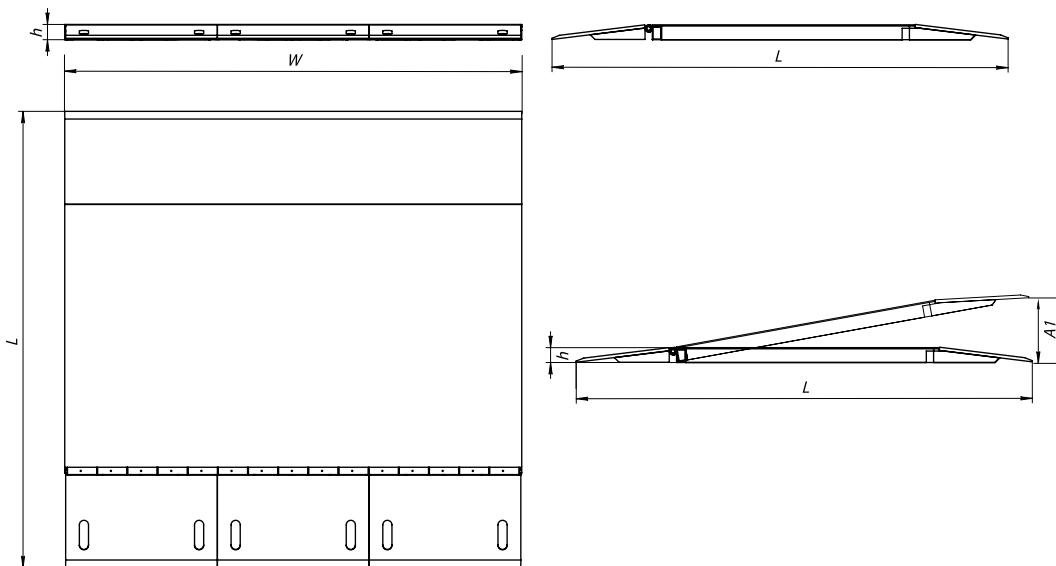


MT mobile tracks are used for loading/unloading when standard dock leveler or folding track can not be used. They are designed for using with trucks which have approximately the same height above the ramp level. The mobile track can compensate height difference up to 240 mm. The track can be transported to the required place using a forklift. Mobile tracks of MT series comply with rules and regulations of the European Standard EN 1398.

## Main advantages:

- guides for forklift, used for transportation of the mobile track;
- yellow-black signal strip shows that the platform is located above the fixed ramp level.

## TECHNICAL SPECIFICATIONS AND DIMENSIONS

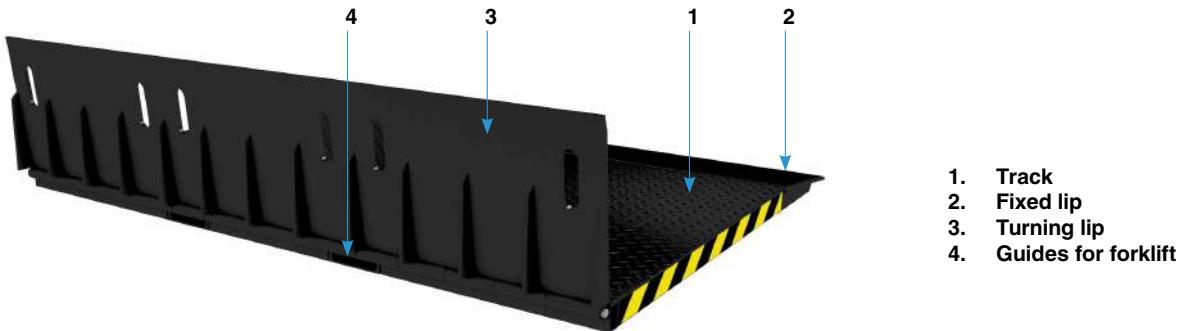


DIMENSIONS/FEATURES		
Length, mm	2000	
Width, mm	1800	2000
Thickness of tracks's upper sheet, mm	5	
Colour*	Black (RAL 9005)	

\* Powder painting with preliminary shot blasting.

PERFORMANCE	
Parameter	
Load capacity	4000 kg (40 kN)
Maximal point load	1,3 N/mm <sup>2</sup>
Class of surface cleaning before coating	Sa 2
Thickness of coating painted layer	60–90 micron
Operation temperature range	From -30 to +50 °C

## CONSTRUCTION



The track deck is made of 5mm steel sheet with 0.5—1.5 mm high riffling and it is designed for work with hydraulic hand-trucks and standard 4-wheel forklifts with inflatable tyres. Upon customer's request the track can be designed for high point load. Small deformation of track surface is admissible, as it does not effect operation of product. The lip is made of 12 mm thick steel sheet with 1.2—3.6 mm high riffling. The reinforcement profiles of the track are made of 60×40×3 mm tube. The track is equipped with a system for transportation, adapted to a standard forklift.

## CONFIGURATION AND DESIGN

PACKAGE		
	Standard	Optional
Colour*	Black (RAL 9005)	other upon request
Turning/fixed lip	Length — 410 mm, bevel — 35 mm	—
Load capacity	4000 kg (40 kN)	other upon request

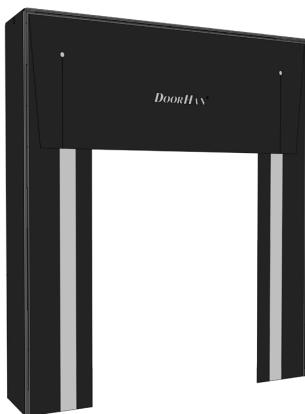
# GENERAL INFORMATION ABOUT DOCK SHELTERS

DoorHan dock shelters are designed for sealing of space between the loading dock and truck body to ensure quick and safe loading/unloading of goods. These dock shelters handle a wide variety of trailer sizes — from small trucks to standard trailers. When loading/unloading a part of the truck body is positioned inside the dock shelter, so you can load/unload goods in any weather. At that microclimate of the storage rooms is kept and draughts do not penetrate inside. DoorHan dock shelters are available in 2 types — inflatable and curtain type. The curtain type dock shelters can be non-collapsible or with retractable structure.

## Main advantages:

- maintenance-free;
- PVC with synthetic reinforcement keeps elasticity within temperature range from –40 to +60 °C;
- slanting roof of dock shelter enables free flow of rain water.

## DOCK SHELTER WITH ALUMINIUM RETRACTABLE STRUCTURE OF DSHRT SERIES



DSHRT dock shelter with aluminium retractable structure is a classic model for installation where cargo traffic is moderate. The front sheets are made of high elasticity, wear and tear resistant PVC. During loading/unloading operations a part of the truck body is positioned inside the dock shelter. The top and side sheets cover tightly the truck body and ensure sealing. The front and rear side frames are joined by cantilever arms which are pivoted at each end to allow for retraction in the event of accidental vehicle impact. It's mounted outdoors on the building's facade.

## Main advantages:

- aluminium folding frame;
- dock shelters are available with single or double upper sheet for better insulation;
- built-in cantilever arms enable folding of the front frame preventing its damage in case of incorrect parking of a truck;
- white light-reflecting stripes help to park a truck more easily.

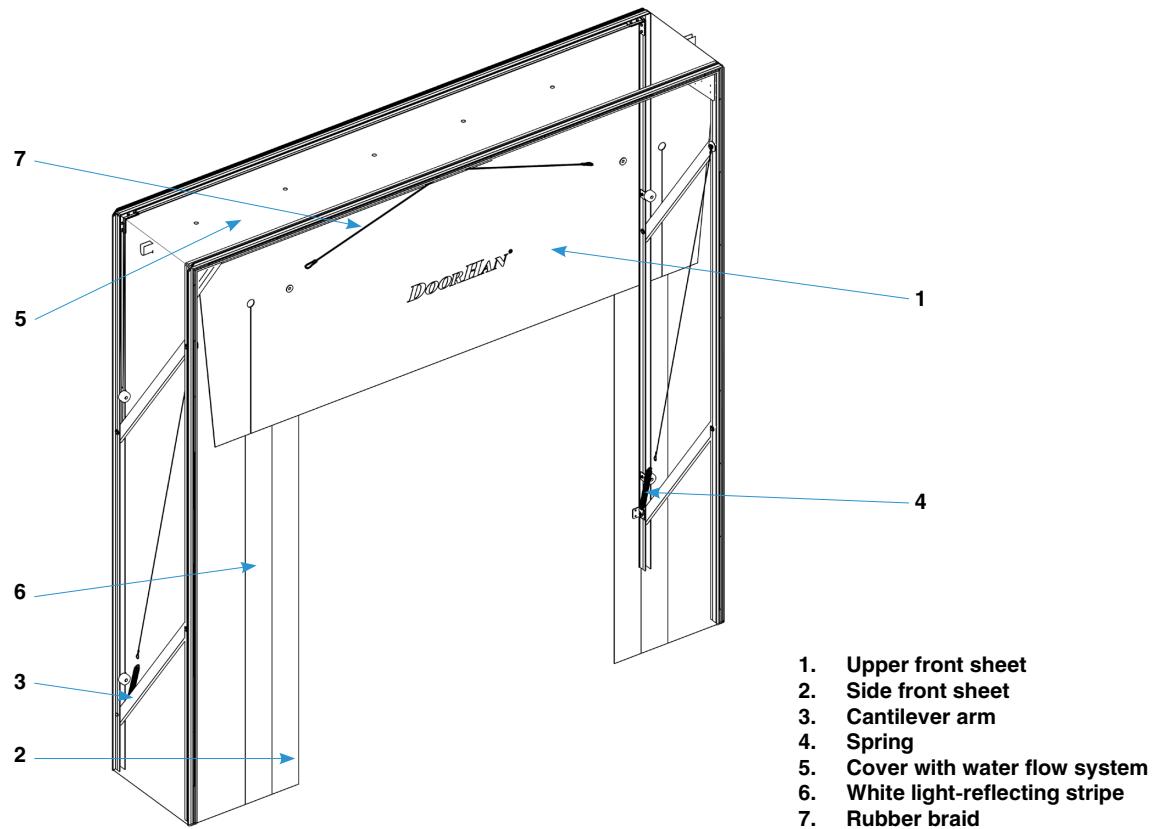
## TECHNICAL SPECIFICATIONS AND DIMENSIONS

DIMENSIONS/FEATURES				
Width, mm	3000	3200	3400	
Height, mm	3000	3200	3400	4400
Upper sheet				
Standard	Single			
Upon request	Double			
Colour of profiles	White aluminium (RAL 9006)			

PERFORMANCE	
<b>Front PVC sheet</b>	
Lengthwise tear resistance	More than 550 N
Widthwise tear resistance	More than 900 N
Ultimate tensile strength	250 N/mm
Metal friction coefficient	0.3
PVC friction coefficient	0.4
Thickness	3 mm
Specific weight	3.6 kg/m
Operation temperature	From -30 to +90 °C
<b>Side PVC sheet</b>	
Tear resistance	250 N
Thickness	0.5 mm
Specific weight	0.7 kg/m
Working temperature	From -30 to +70 °C
<b>Aluminium frame</b>	
Rear frame profiles	50 x 44 mm
Front frame profiles	45 x 44 mm
Brace	50 x 25 x 2.5 mm
Front clamping bar	34 x 4.8 mm

WEIGHT	
Article	Weight, kg
DSHRT 3.0×3.0	83.5
DSHRT 3.0×3.2	86
DSHRT 3.0×3.4	89.5
DSHRT 3.0×4.4	107
DSHRT 3.2×3.0	86
DSHRT 3.2×3.2	89
DSHRT 3.2×3.4	93
DSHRT 3.2×4.4	107
DSHRT 3.4×3.0	89.5
DSHRT 3.4×3.2	93
DSHRT 3.4×3.4	94.6
DSHRT 3.4×4.4	113

## CONSTRUCTION

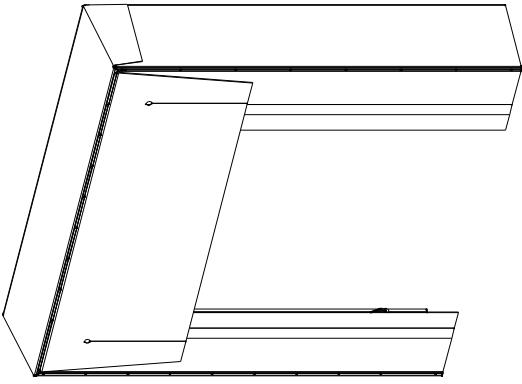


DSHRT dock shelter consists of front and rear frames, made of aluminium profile and connected to each other with cantilever arms. There is a cable with spring, mounted in the point of frames connection, to give necessary flexibility. The front upper sheet and the front side sheets are made of PVC material reinforced with 2 layers of polyester. The upper sheet has special cuts to ensure more tight covering of the truck body. White light-reflecting stripping on the front vertical sheets simplifies truck parking. Cover with water flow system are made of PVC material with synthetic reinforcement.

## CONFIGURATION AND DESIGN

PACKAGE		
	Standard	Option
Dock shelter depth	600 mm	900 mm
Upper sheet	Single	Double
Profile colour	White aluminium (RAL 9006)	Other upon request
Seal	-	Small/large corner cushion in bottom part

## **DOCK SHELTER WITH ALUMINIUM RETRACTABLE FRAME**



## Dock shelter dimensions

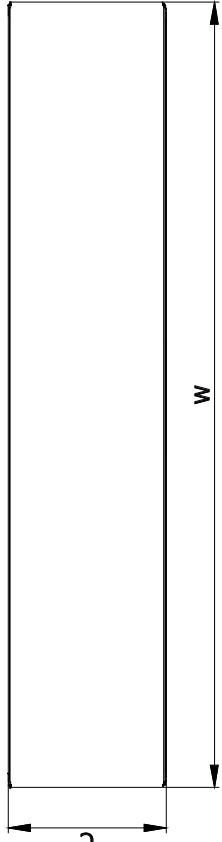
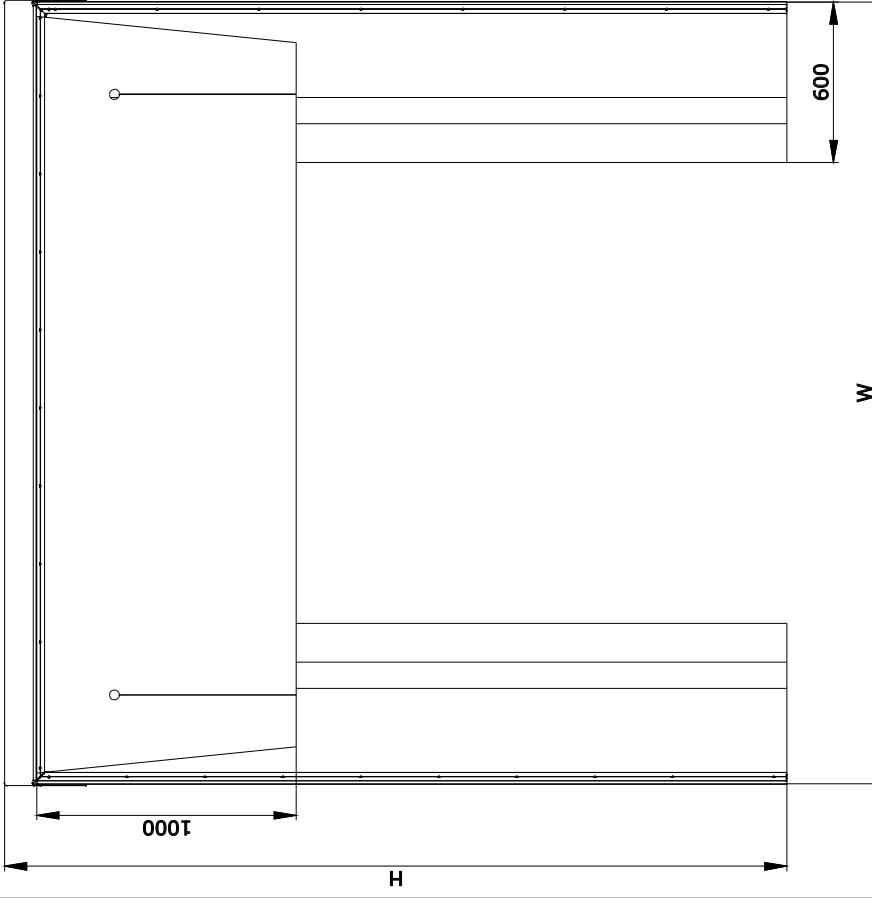
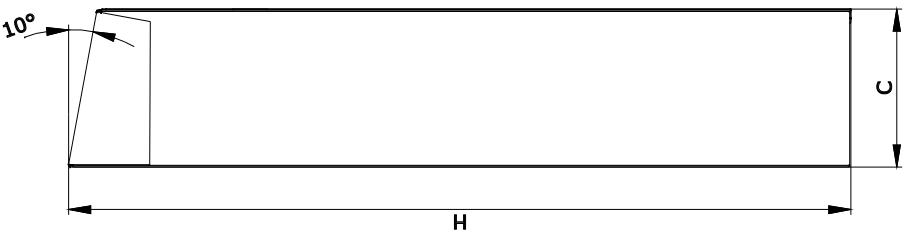
Article	W, mm	H, mm	C, mm
D.SH-RT3,0x3,0	3000	3000	600
D.SH-RT3,2x3,2	3200	3200	600
D.SH-RT3,4x3,2	3400	3200	600
D.SH-RT3,2x3,4	3200	3400	600
D.SH-RT3,4x3,4	3400	3400	600
D.SH-RT3,4x4,4	3400	4400	600

For more detailed information, please contact DoorHan company.

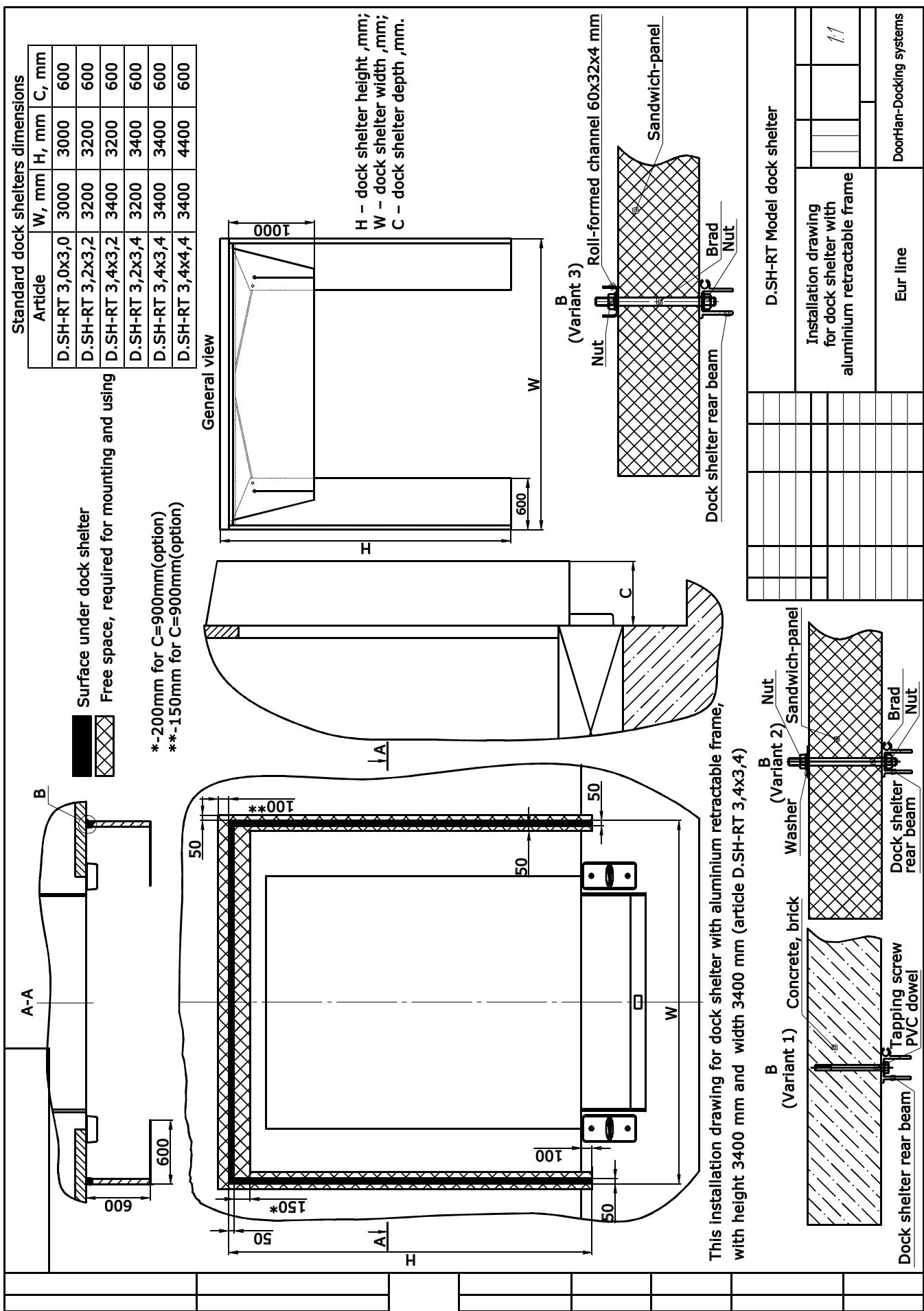
D.SH-RT Model dock shelter

Dock shelter with aluminium retractable frame

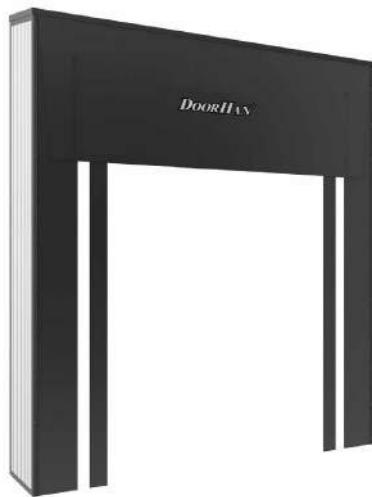
## Eur line DoorHan-docking systems



This drawing of dock shelter with aluminium retractable frame with width 3000 mm and height 3000 mm (article D.SH-RT3.0x3.0).



# DOCK SHELTERS WITH NON-COLLAPSIBLE STRUCTURE OF DSHRD SERIES



DSHRD dock shelters with non-collapsible structure are designed for heavy cargo traffic. The structure is made of sandwich panels, edged with aluminium profiles. The front sheets are made of high elastic, wear and tear resistant PVC. During loading/unloading operation part of the truck body is positioned inside the dock shelter. Top and side sheets cover tightly the truck body and ensure good sealing. When using this type of dock shelters, it is recommended to install wheel guides or metal baffles. It's mounted outdoors on the building's facade.

## Main advantages:

- dock shelters are available with single or double upper sheet for better insulation;
- white light-reflecting stripes help to park trucks more easily.

## TECHNICAL SPECIFICATIONS AND DIMENSIONS

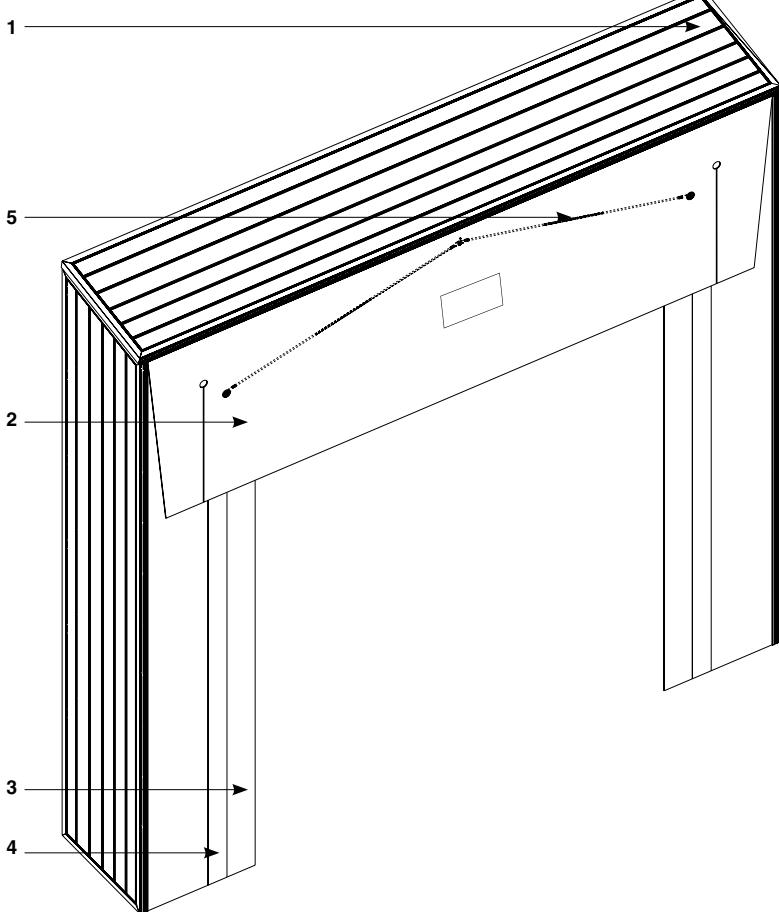
DIMENSIONS	
Width*	3 000/3 200/3 400 mm
Height*	3 000/3 200/3 400/4 400 mm

\* For dock shelter sizes see page 108.

PERFORMANCE	
<b>Front sheet – PVC</b>	
Lengthwise tear resistance	More than 550 N
Widthwise tear resistance	More than 900 N
Ultimate tensile strength	250 N/m
Metal friction coefficient	0.3
PVC friction coefficient	0.4
Thickness	3 mm
Specific weight	3.6 kg/m
Operation temperature	From -30 to +90 °C
<b>Side wall – sandwich panel</b>	
Thickness	40 mm

WEIGHT	
Article	Weight, kg
DSHRD 3.0×3.0	106
DSHRD 3.0×3.2	111
DSHRD 3.0×3.4	116
DSHRD 3.0×4.4	139
DSHRD 3.2×3.0	109
DSHRD 3.2×3.2	113
DSHRD 3.2×3.4	118
DSHRD 3.2×4.4	142
DSHRD 3.4×3.0	111
DSHRD 3.4×3.2	116
DSHRD 3.4×3.4	120
DSHRD 3.4×4.4	144

## CONSTRUCTION



1. Dock shelter body (2 walls + roof)
2. Upper front sheet
3. Side front sheet
4. White light-reflecting stripe
5. Rubber braid

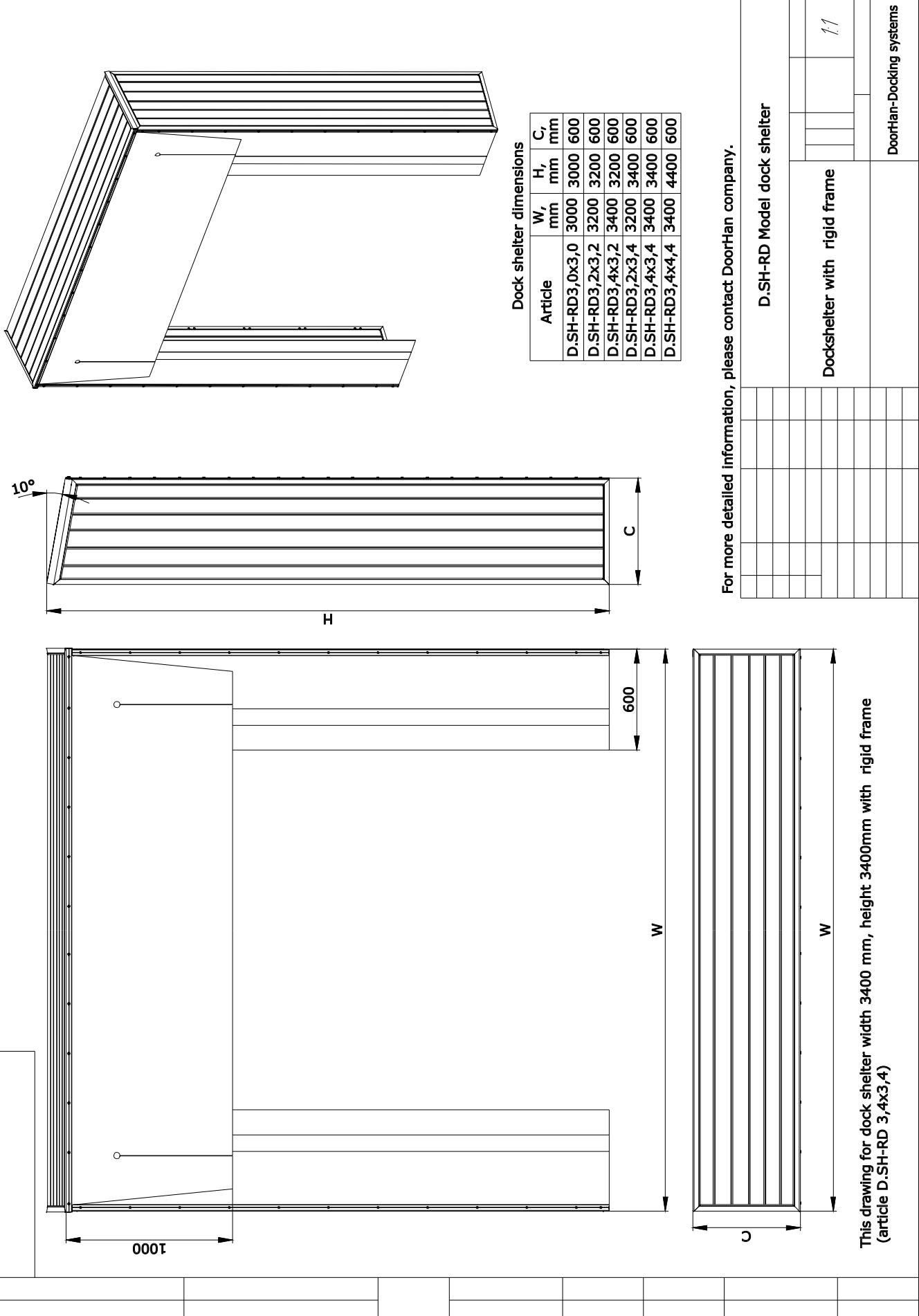
DSHRD dock shelter consists of two walls and a roof, which are assembled of 40 mm sandwich panels with aluminium profile edging. The front upper and side sheets are made of PVC material reinforced with 2 layers of polyester. The upper sheet has special cuts to ensure tight covering of the truck body.

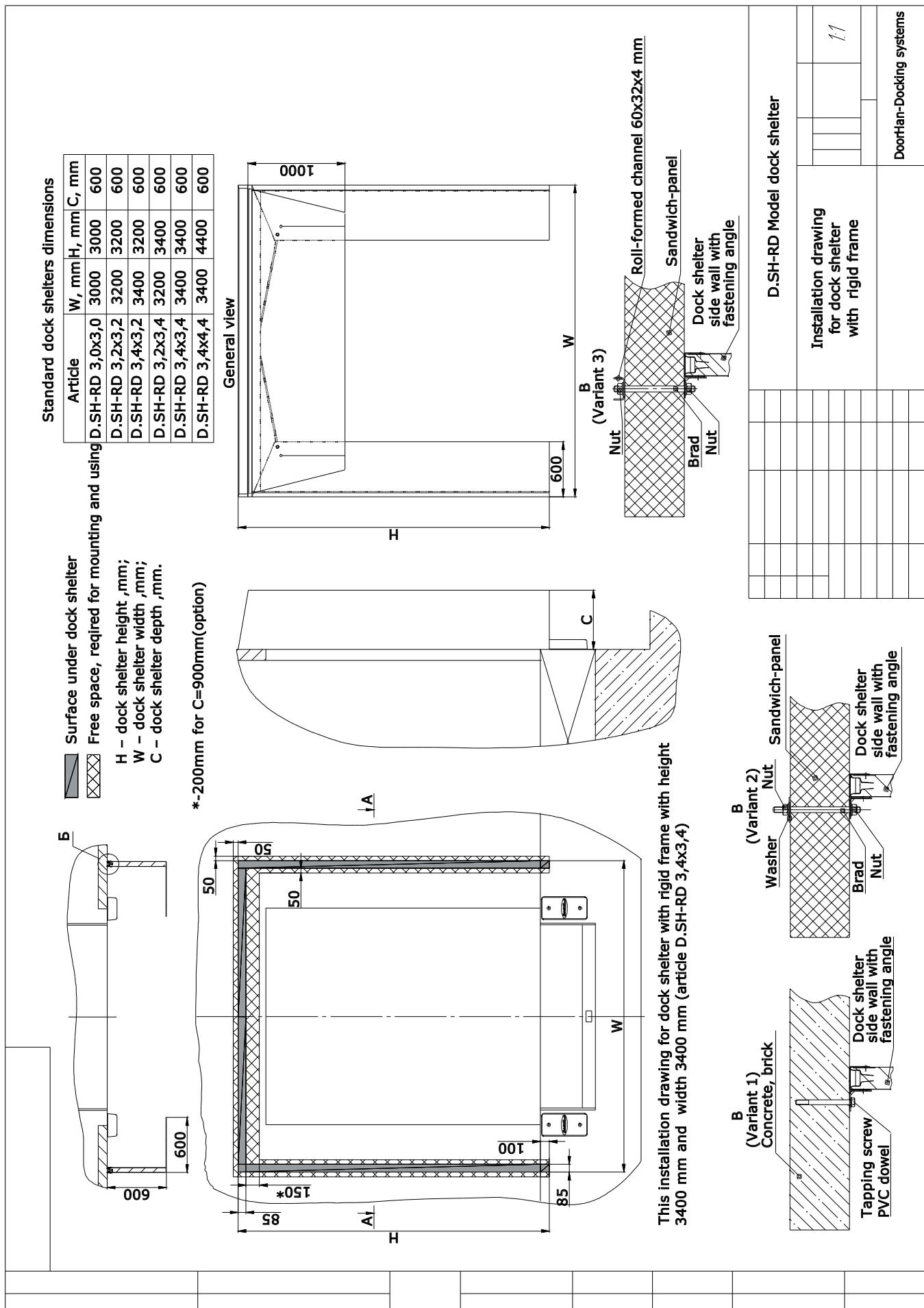
The vertical front sheets have white light-reflecting stripes to simplify parking of a truck.

## CONFIGURATION AND DESIGN

PACKAGE		
	Standard	Option
Dock shelter depth	600 mm	900 mm
Upper sheet	Single	Double
Panel colour	Signal white (RAL 9003)	Other upon request
Profile color	White aluminium (RAL 9006)	Other upon request
Seal		Small/large cushion in bottom part

## **DOCKSHELTER WITH RIGID FRAME**





# INFLATABLE DOCK SHELTER OF DSHINF SERIES



DSHINF inflatable dock shelters provide the best sealing of temperature controlled premises during loading/unloading operations. Inflatable cushions cover the truck body around in a way that the optimal sealing is obtained. The cushions are made of high elastic, wear and tear resistant material Cordura. During loading/unloading operations a part of the truck body is positioned inside the dock shelter. The upper and side cushions inflate to ensure high sealing between the truck body and the building. After loading/unloading is completed, the cushions deflate. The inflatable dock shelters are controlled by switch or the control unit of the dock leveler (if special control unit with function for inflatable dock shelter is used). It is recommended to mount wheel guides and metal baffles. It's mounted outdoors on the building's facade.

#### Main advantages:

- cushions are made of wear-resistant material
- active extension of upper cushion can be increased up to 1200 mm to use with various types of trucks
- inflatable dock shelters can be operated from the dock leveler control unit.

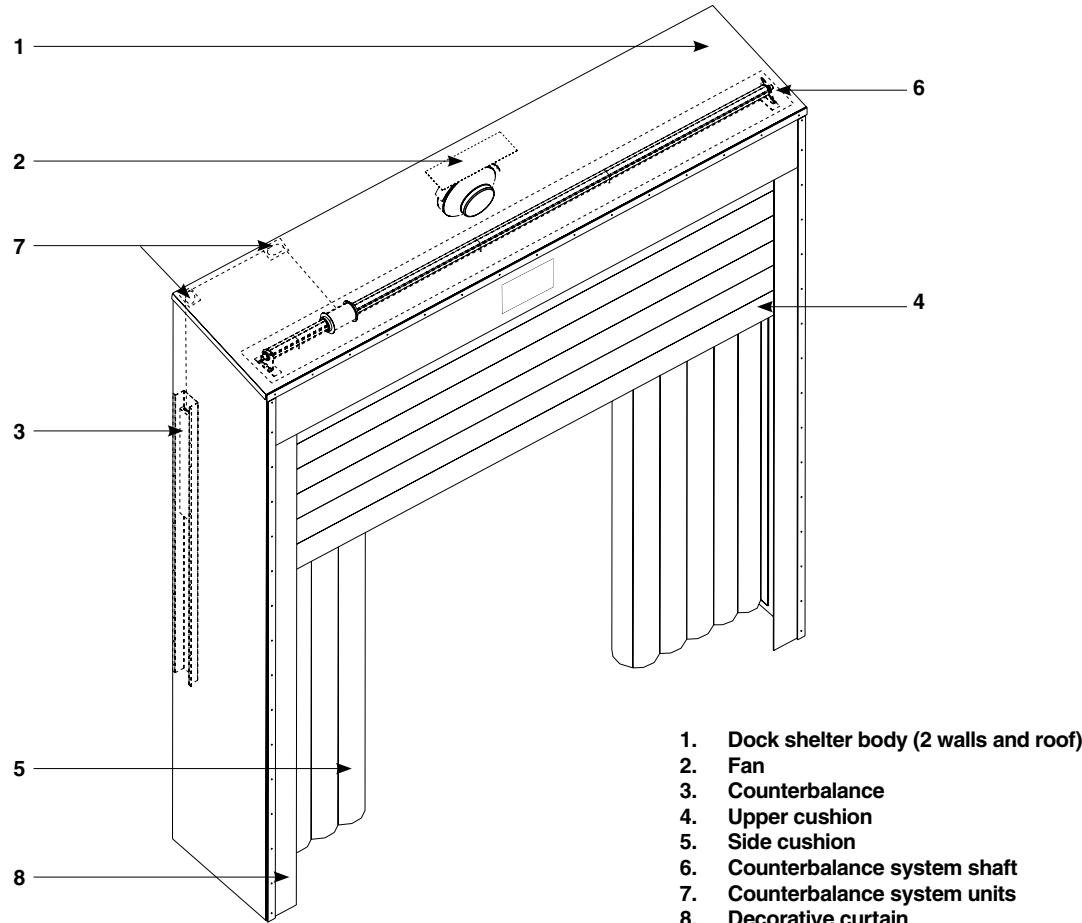
## TECHNICAL SPECIFICATIONS AND DIMENSIONS

DIMENSIONS/FEATURES			
Width, mm	3410	3610	
Height, mm	3300	3800	4900
Upper cushion extension, mm	900/1200		
Side cushion extension, mm	600		
Upper decorative curtain, mm	500		
Side decorative curtain, mm	250		
Profile colour	White aluminium (RAL 9006)		
Wall panel colour	Signal white (RAL 9003)		
Control	Switch /dock leveller control unit		

<b>PERFORMANCE</b>	
<b>Control system</b>	
Power supply 1 or 3 phase	380 V, 50 Hz
Motor	0.55kW
Control unit	External
Protection class of control unit	IP54
Average time of cushion inflation	40 sec
Working temperature	From -35 to +50 °C
<b>Decorative PVC curtain</b>	
Thickness	3 mm
Specific weight	3.6 kg/m
<b>Inflatable cushions</b>	
Material	Cordura 1000
Thickness	0.5 mm
Specific weight	0.4 kg/m
Ultimate tensile strength	More than 290N/mm
<b>Sandwich panel</b>	
Thickness	40
Colour on inside/outside	Signal white (RAL 9003)

<b>WEIGHT</b>	
<b>Article</b>	<b>Weight, kg</b>
DSHINF 3.8×3.6	230
DSHINF 4.9×3.6	290
DSHINF 3.3×3.4	210

## CONSTRUCTION



DSHINF dock shelter consists of two walls and a roof, inflatable cushions, a fan and decorative curtains. The side walls and roof are assembled with inflatable cushions. The panel of upper cushion cable winding system and a counter balance unit are installed separately. 40 mm thick sandwich panel is used as a material of walls and roof. The dock shelter is operated by a switch or dock leveler control box.

## CONFIGURATION AND DESIGN

PACKAGE	Standard	Option
Dock shelter depth	800 mm	Other upon request
Upper cushion extension	900 mm	1200 mm
Panel colour	Signal white (RAL 9003)	Other upon request
Profile colour	White aluminium (RAL 9006)	Other upon request
Colour of decorative curtains and inflatable cushions	Black	
Operation	Switch	Dock leveller control unit

## OPTIONAL EQUIPMENT



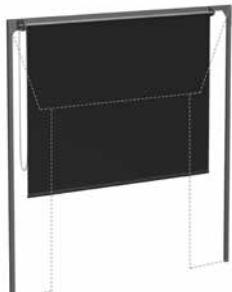
### METAL BAFFLES

Protects the shelter from damage by truck body.



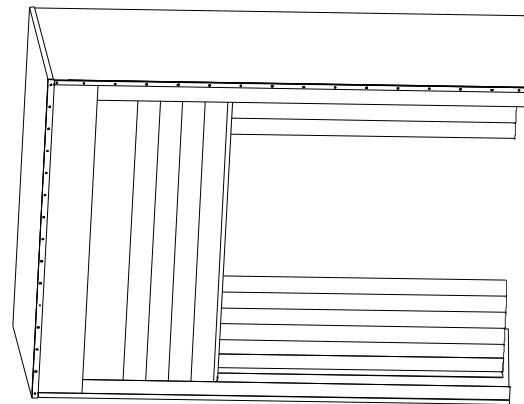
### CORNER CUSHION

Installed in lower corners of the shelter to provide extra sealing.



### MOVABLE UPPER SHEET

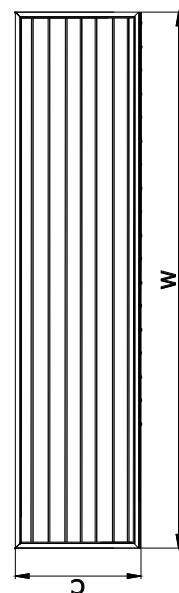
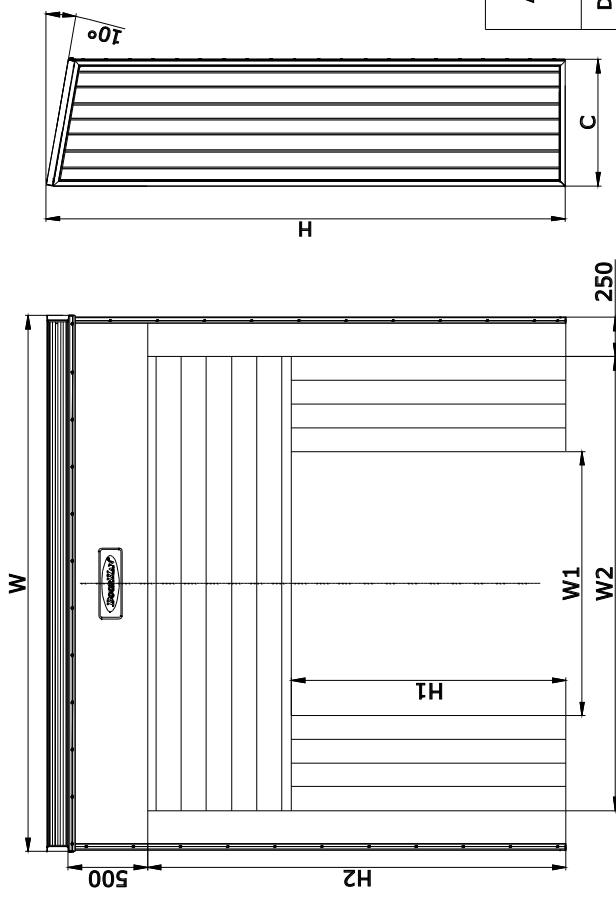
Installed inside the shelter to provide extra sealing.



Dock shelter dimensions

Article of dock shelter	W , mm	W1 , mm	W2 , mm	H , mm	$\Delta^*=900\text{mm}$	$\Delta=1200\text{mm}$	C , mm
					H1 / H2 , mm / mm	H1 / H2 , mm / mm	
DSHINF3,8x3,6	3610	1880	3090	3828	2273 / 3173	1873 / 3073	800
DSHINF4,9x3,6	3610	1880	3090	4914	3360 / 4245	2960 / 4145	800
DSHINF3,3x3,4	3410	1680	2890	3302	1746 / 2646	1346 / 2546	800

\*  $\Delta$ -lengthening of top cushion.



For more detailed information, please contact DoorHan company.

DSHINF Model dock shelter

Inflatable dock shelter				DoorHan-Docking systems	
					11

This drawing of Inflatable dock shelter with width 3400 mm and height 3300 mm (article DSHINF3,3x3,4)



# **EXTERNAL FRAMES OF FEH (90/60/45/30) AND FET (90/60/45/30) SERIES**



FEH, FET (90/60/45/30) external frames are installed in the dock or in front of the opening as a stand-alone unit, including a dock leveler. One of the main advantages of external frames is a possibility to modernize them without changing design of the main building. External frames can be used in places, where trucks can not be parked transversely to the building. All types of dock levelers can be used with external frames. External frames are available with 4 angular adjustments — 90°, 60°, 45°, 30°. Since the external frames are preassembled the installation time is quite short.

## **Main advantages:**

- good solution in areas where there is restricted space;
- modernization without changing the building design;
- easy installation.

## **TECHNICAL SPECIFICATIONS AND DIMENSIONS**

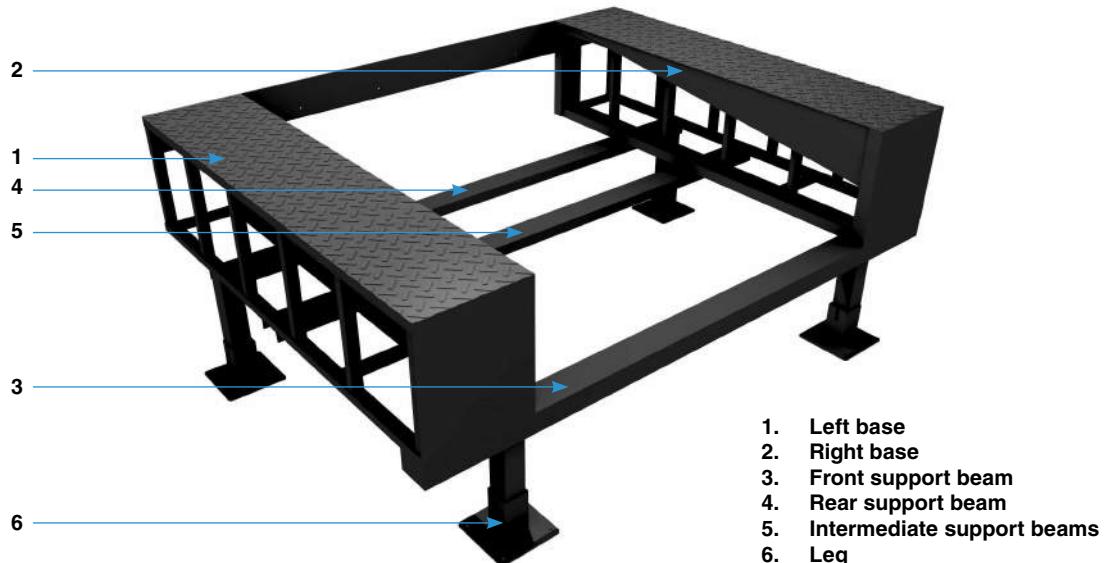
PERFORMANCE	
Working temperature	From -35 to +50 °C
Class of surface cleaning before painting	Sa 2

WEIGHT	External frame 45°, kg	External frame 60°, kg	External frame 90°, kg
Dock leveler length, mm			
2500	1385	1169	732
3000	1457	1241	804
3500	1569	1353	916
4000	1664	1448	1011
4500	1738	1522	1085

This table is given for 3000 mm wide external frames for use with 2000 mm wide dock leveler with hinged lip, irrespective of its weight.

For more detailed information, please contact DoorHan company.

## CONSTRUCTION



FEH (90/60/45/30) and FET (90/60/45/30) external frames consist of 2 bases, rear and front support beams, an intermediate beam (depending on the design) and legs.

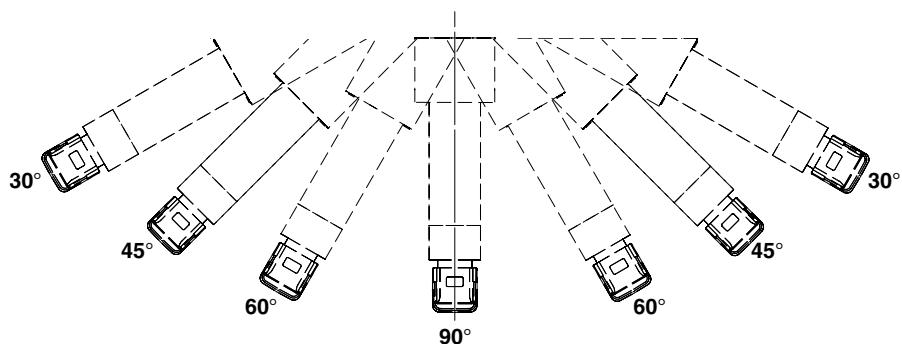
The slanting external frame has a triangle with an angle of 90°, 60°, 45° or 30° in the rear part.

## CONFIGURATION AND DESIGN

PACKAGE		
	Standard	Option
Dimensions	Depending on dock leveller dimensions	Other upon request
Angle	90°, 60°, 45°, 30° or 30°	Other upon request
Colour*	Black (RAL 9005)	Other upon request

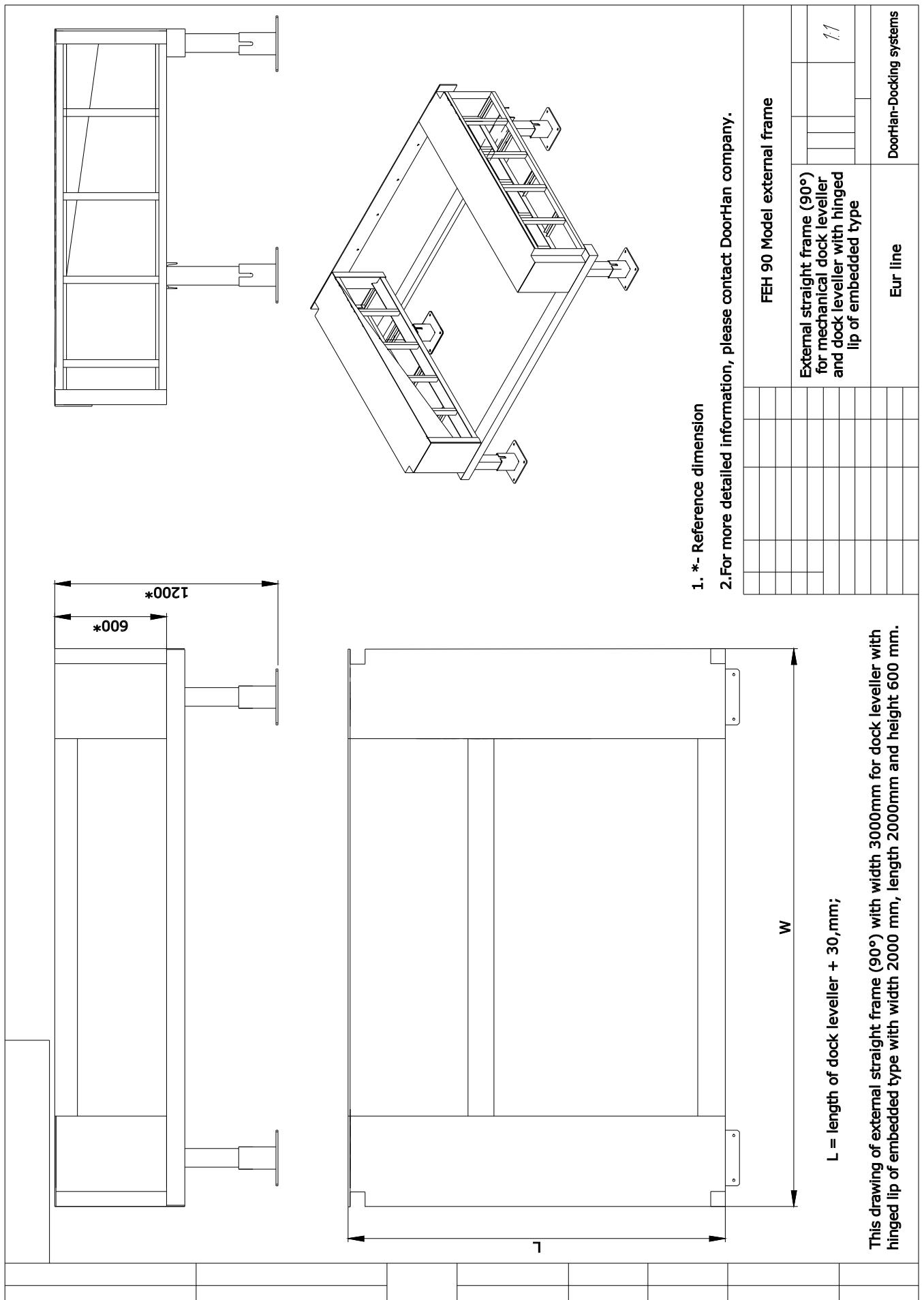
\* Powder coating with preliminary shot blasting.

## STANDARD INSTALLATION DIAGRAMS FOR EXTERNAL FRAMES

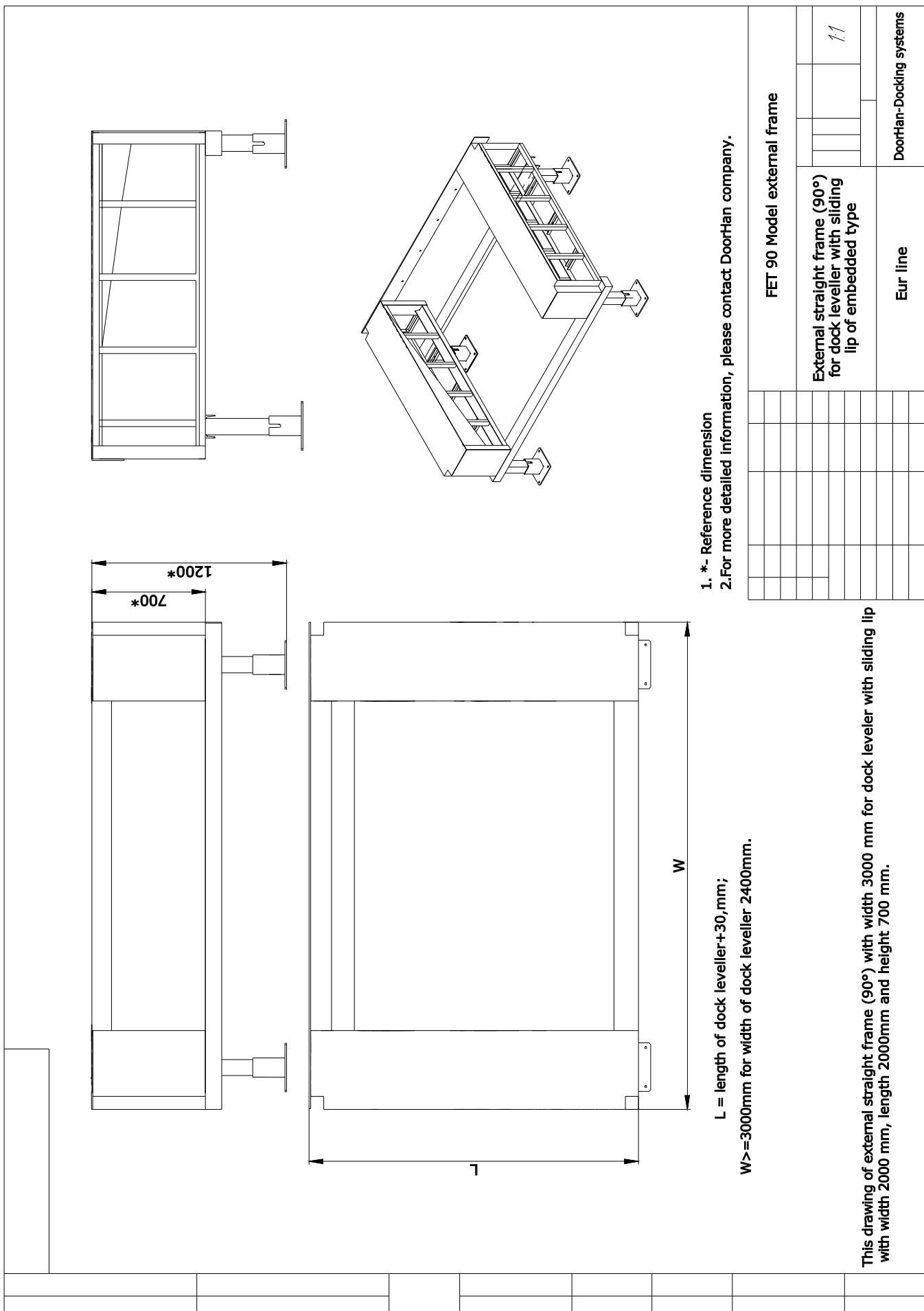


For fitting installation diagrams for external frames see pages 128, 129, 134, 135.

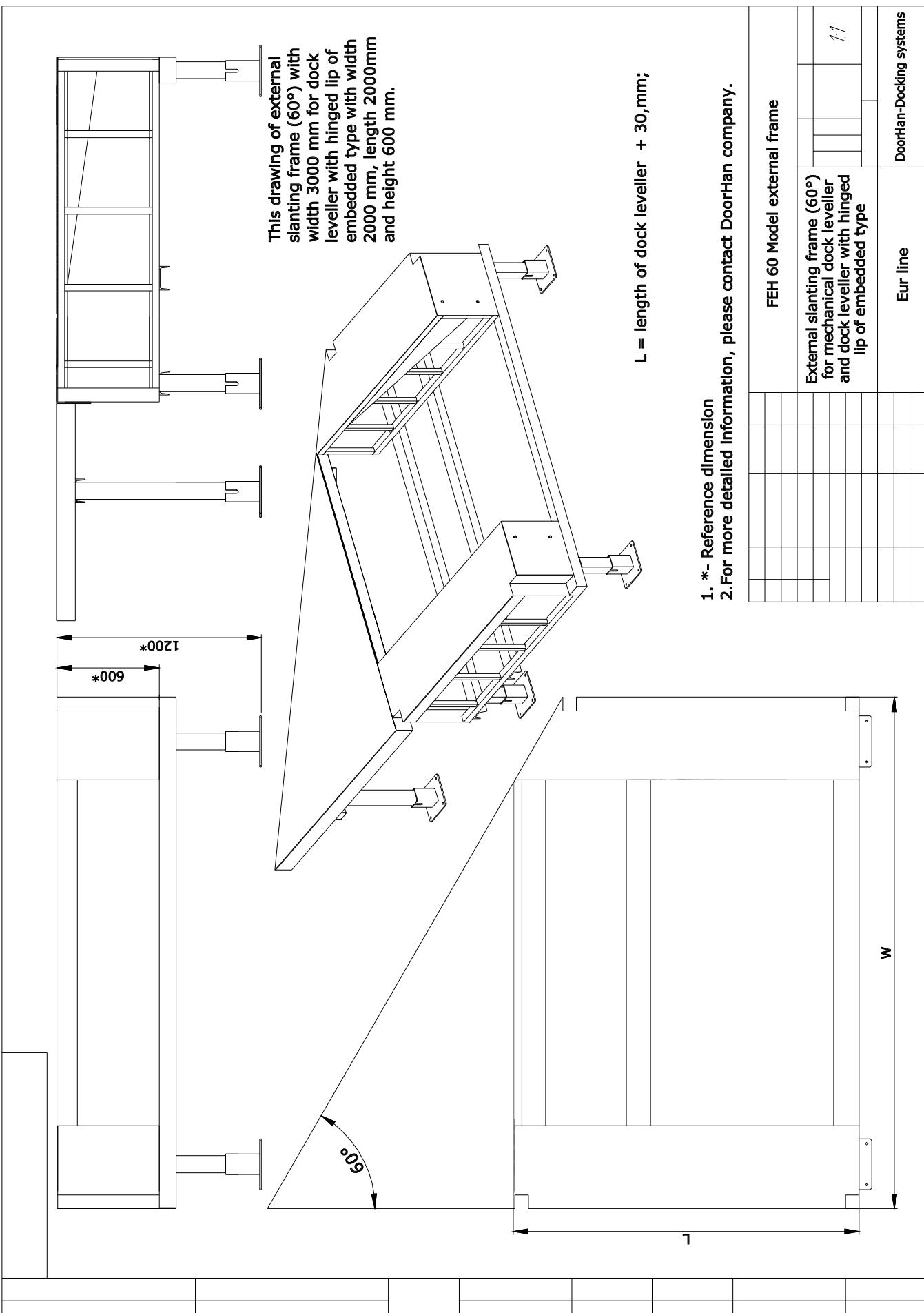
**EXTERNAL STRAIGHT FRAME (90°) FOR MECHANICAL DOCK LEVELLER  
AND DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**



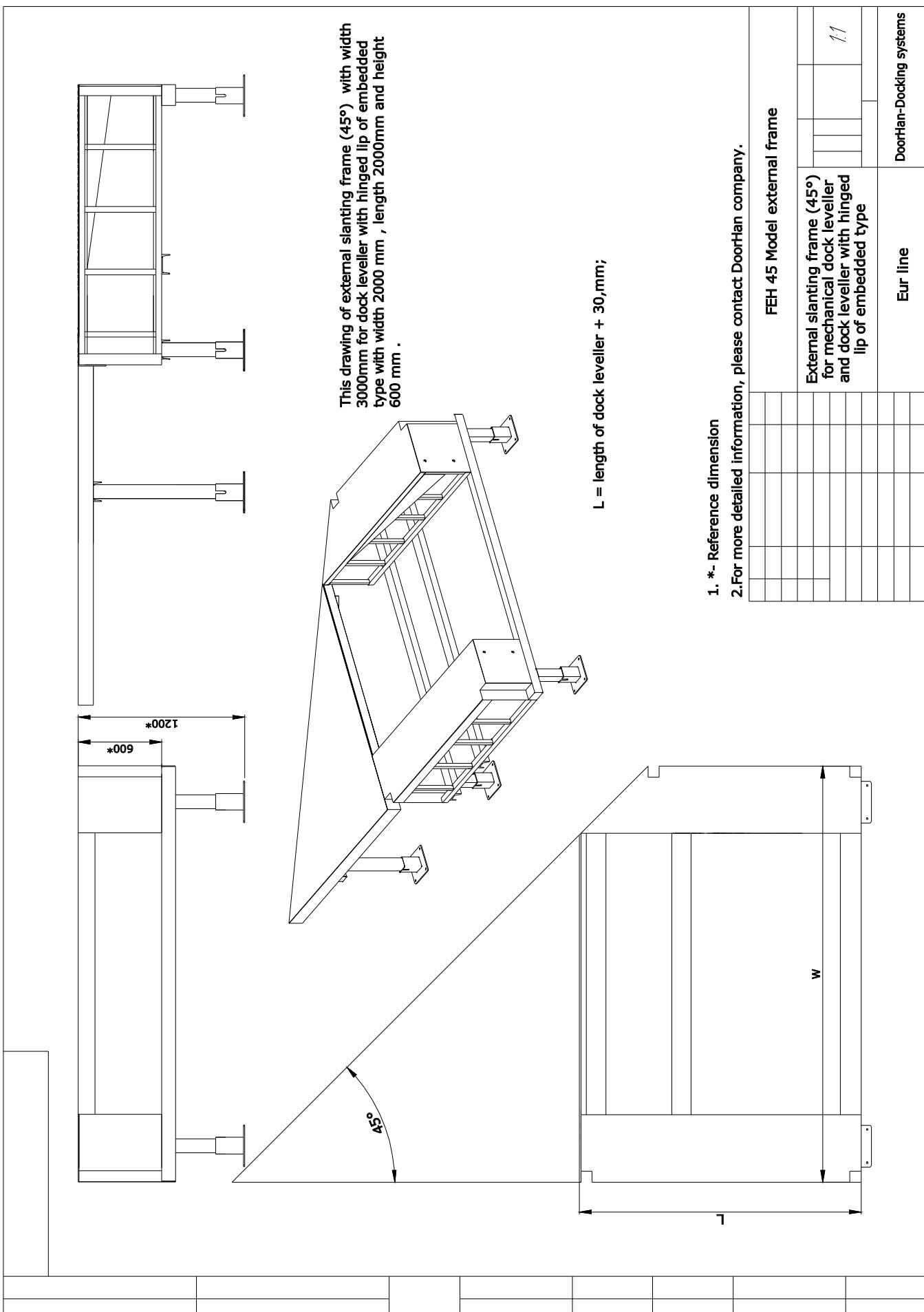
**EXTERNAL STRAIGHT FRAME (90°) FOR DOCK LEVELLER WITH SLIDING LIP OF EMBEDDED TYPE**



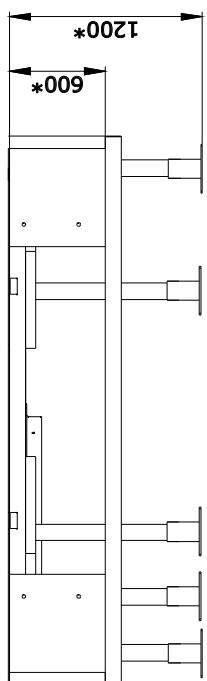
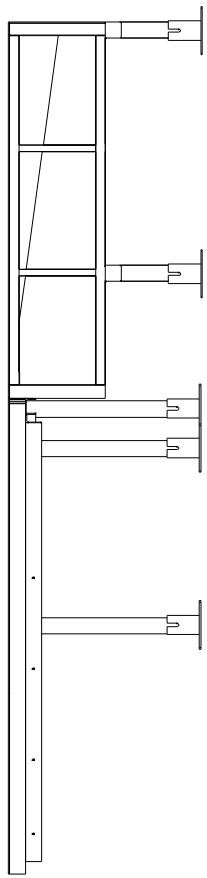
**EXTERNAL SLANTING FRAME (60°) FOR MECHANICAL DOCK LEVELLER  
AND DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**



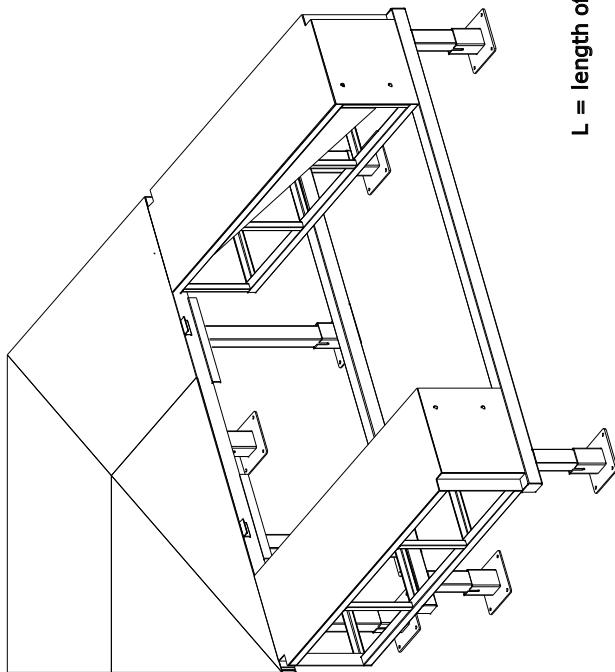
**EXTERNAL SLANTING FRAME (45°) FOR MECHANICAL DOCK LEVELLER  
AND DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**



**EXTERNAL SLANTING FRAME (30°) FOR MECHANICAL DOCK LEVELLER AND  
DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**

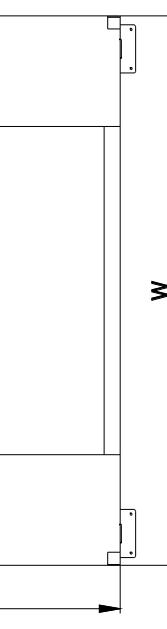


This drawing of external slanting frame (30°) (article FEH-30-2500) with width 3400 mm for dock leveller with hinged lip of embedded type with width 2000 mm, length 2500mm and height 600 mm.



L = length of dock leveller + 30-mm;

1. \*- Reference dimension
2. For more detailed information, please contact DoorHan company.



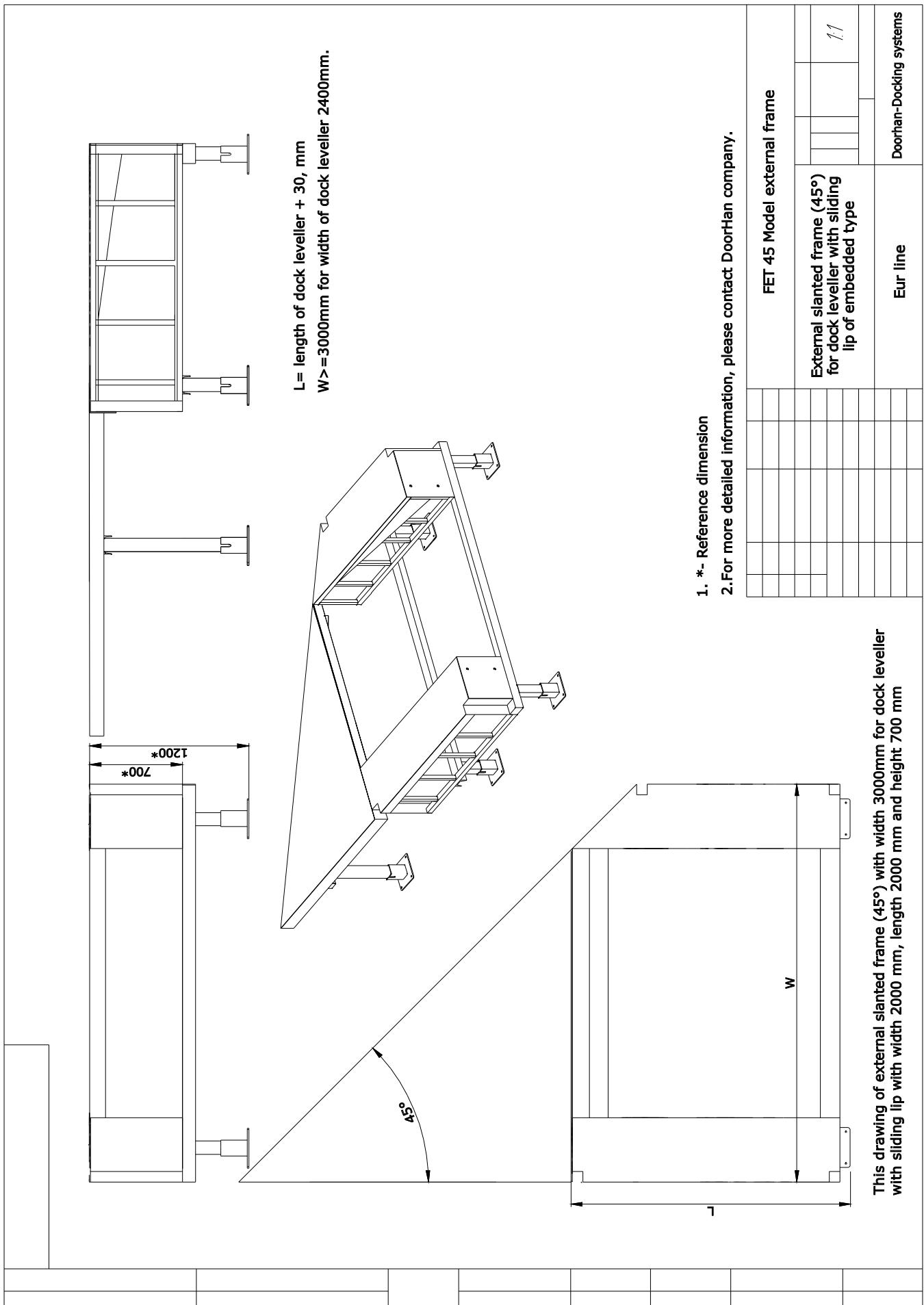
**FEH 30 Model external frame**

External slanting frame (30°) for mechanical dock leveller and dock leveller with hinged lip of embedded type		11
Eur line	DoorHan-Docking systems	

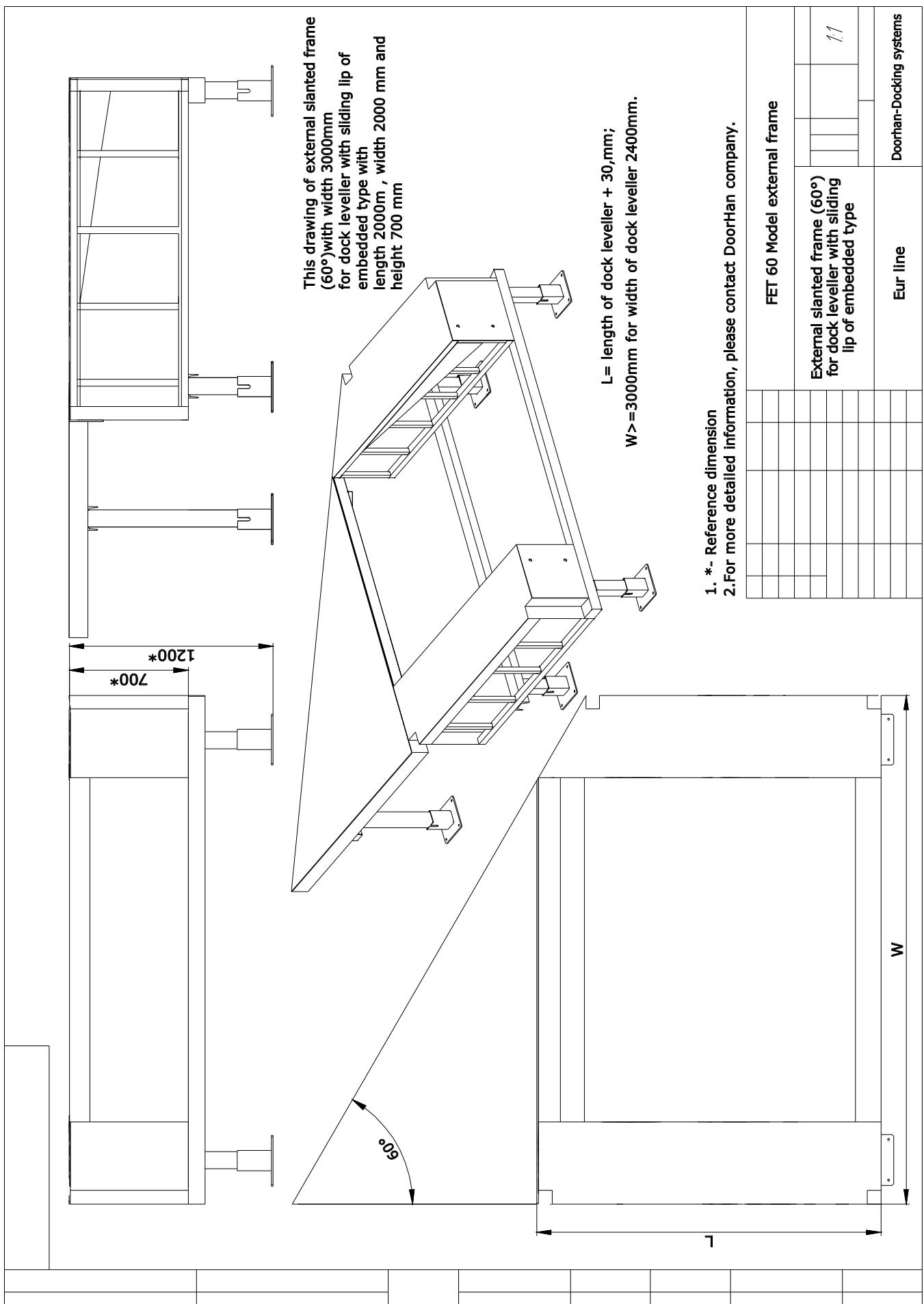
DoorHan-Docking systems

Eur line

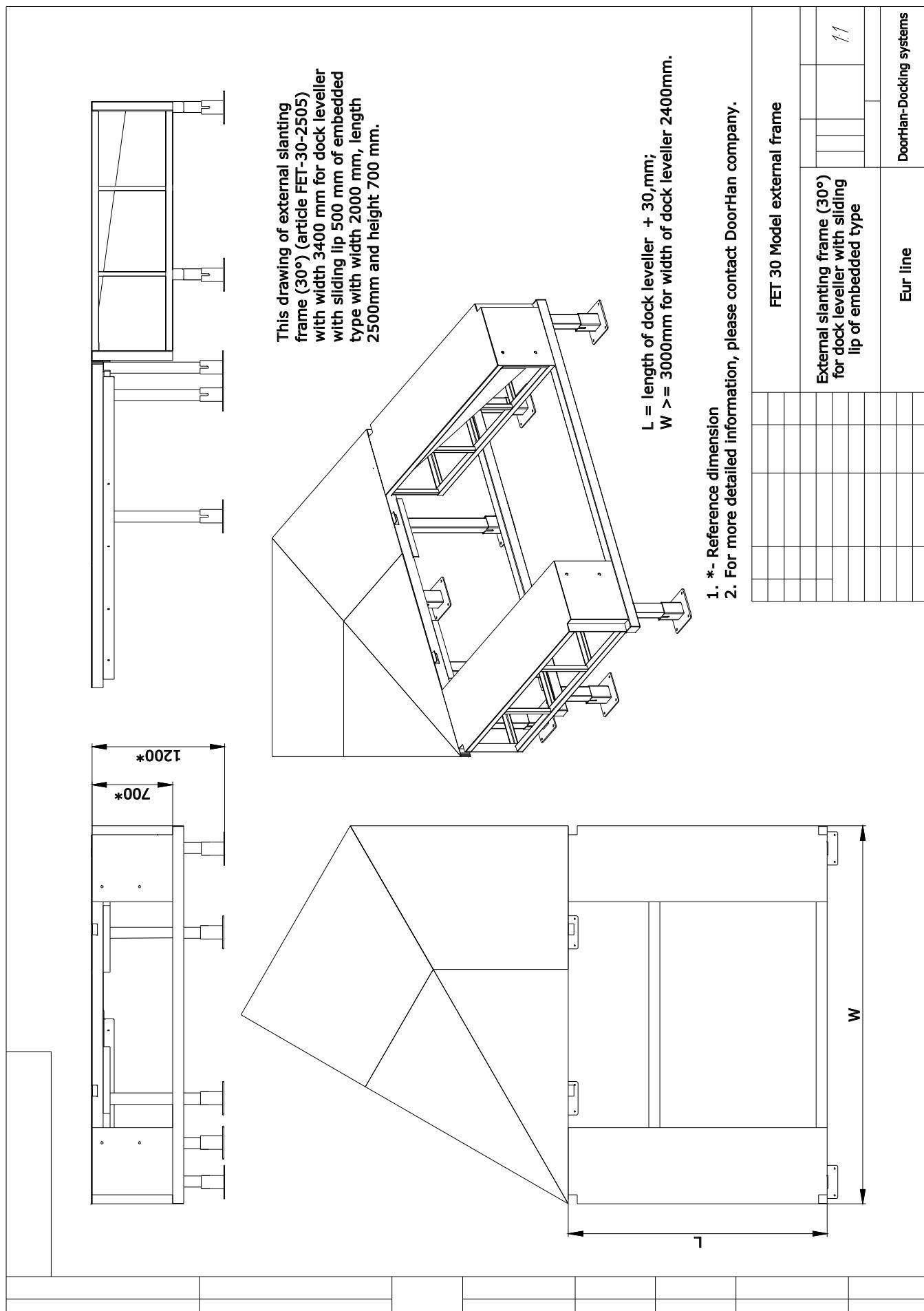
## **EXTERNAL SLANTED FRAME (45°) FOR DOCK LEVELLER WITH SLIDING LIP OF EMBEDDED TYPE**



**EXTERNAL SLANTED FRAME (60°) FOR DOCK LEVELLER WITH  
SLIDING LIP OF EMBEDDED TYPE**



**EXTERNAL SLANTING FRAME (30°) FOR DOCK LEVELLER WITH  
SLIDING LIP OF EMBEDDED TYPE**



# GENERAL INFORMATION ABOUT DOCK HOUSES

Dock house is a complex solution for installation of dock leveler and dock shelter (not included in dock house package) where the yard space is limited. Dock houses allow keeping microclimate, saving storage space and protecting goods from climatic factors since it is installed outside the building. One of the main advantages of dock houses is a possibility to be upgraded without any major modifications of the building. DoorHan produces dock houses with 4 angles: 90°, 60°, 45°, 30°. Dock houses are installed at an angle of 30°, 45°, or 60° to the building in areas where it is impossible to park trucks perpendicular to the dock wall. Dock houses of standard and light series are available.

## Main advantages:

- thermal separation of warehouse and dock house guarantees considerable energy saving, important for temperature controlled and freezer warehouses;
- possibility to be upgraded without any major modifications of the building;
- easy and fast installation;
- dock house design allows the use of any dock leveler and dock shelter whatever best suits the loading frequency.

## DOCK HOUSES OF STANDARD SERIES (DHOUSH (45/60/90) AND DHOUST (45/60/90))



Standard DHOUSH (90/60/45/30) and DHOUST (90/60/45/30) dock houses are used with all types of dock shelters and dock levelers, both with hinged and telescopic lip. Installation time is considerably reduced due to the high degree of pre-assembly of the dock house. At customer's request the dock house may be furnished with cover strips ensuring optimal sealing between the building and dock house.

## TECHNICAL SPECIFICATIONS AND DIMENSIONS

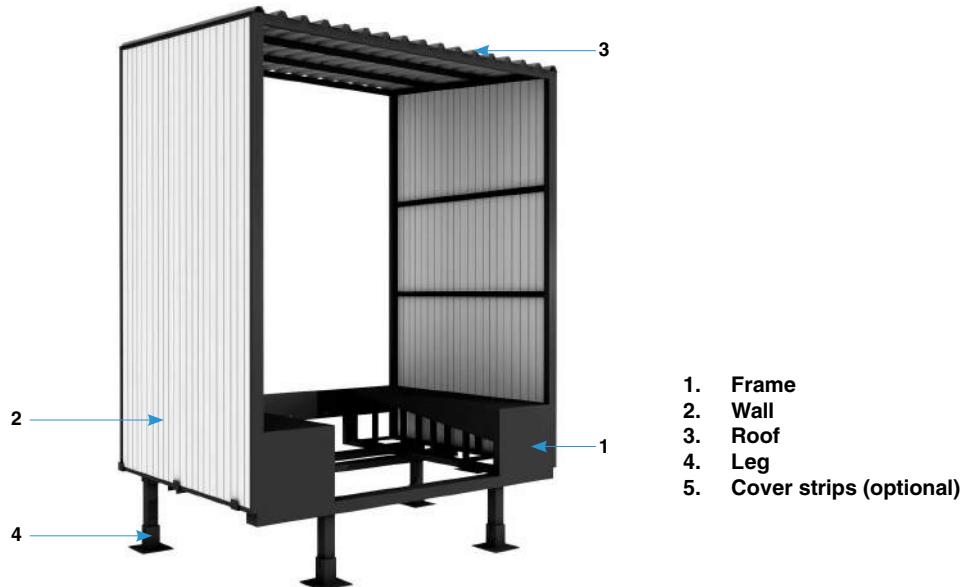
DOCK HOUSE	
Maximal wind load	0.65 KN/m2
Working temperature	From -35 to +50 °C
Roof	
Maximal snow load	3 KN/m2
Walls	
Sandwich panel thickness	40 mm
Corrugated sheet thickness	0.4 – 0.8 mm
Frame	
Class of surface cleaning before painting	Sa 2

WEIGHT			
Dock leveler length, mm	Dock house 45°, kg	Dock house 60°, kg	Dock house 90°, kg
2500	2573	2130	1376
3000	2811	2368	1614
3500	3049	2606	1852
4000	3287	2844	2090
4500	3525	3082	2328

This table is given for 2000 mm wide dock levelers with hinged lip and 3400 mm wide dock shelters, irrespective of their weight.

For more detailed information, please contact DoorHan company.

## CONSTRUCTION

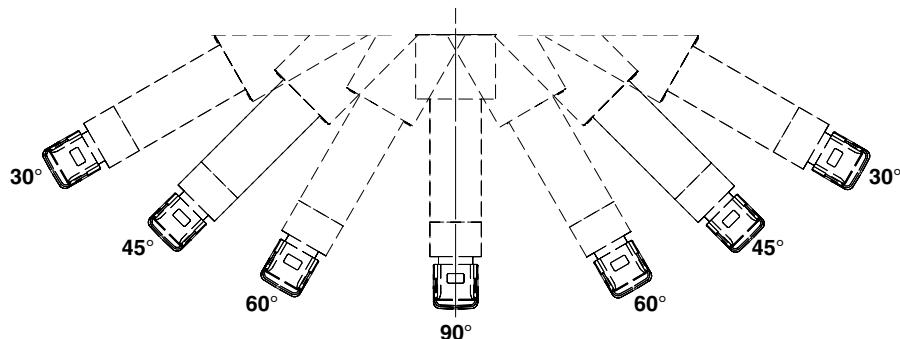


DHOUS (90/60/45/30) dock house consists of a metal frame — base and side walls, made of sandwich panels, roof, legs and cover strips (optional). The roof has a slope of 5° to the outside to enable rain water flow. The frame consists of 2 bases (left and right). On insides of the bases there is a gusset, which prevents personnel feet jamming during operation. The slanting dock house is equipped with a 30°, 45° or 60° triangle at the rear part and upper diamond sheet. The frame is joined with cross beams. The front beam is made of square tube and the rear beam (if present in design) is made of channel bar.

## CONFIGURATION AND DESIGN

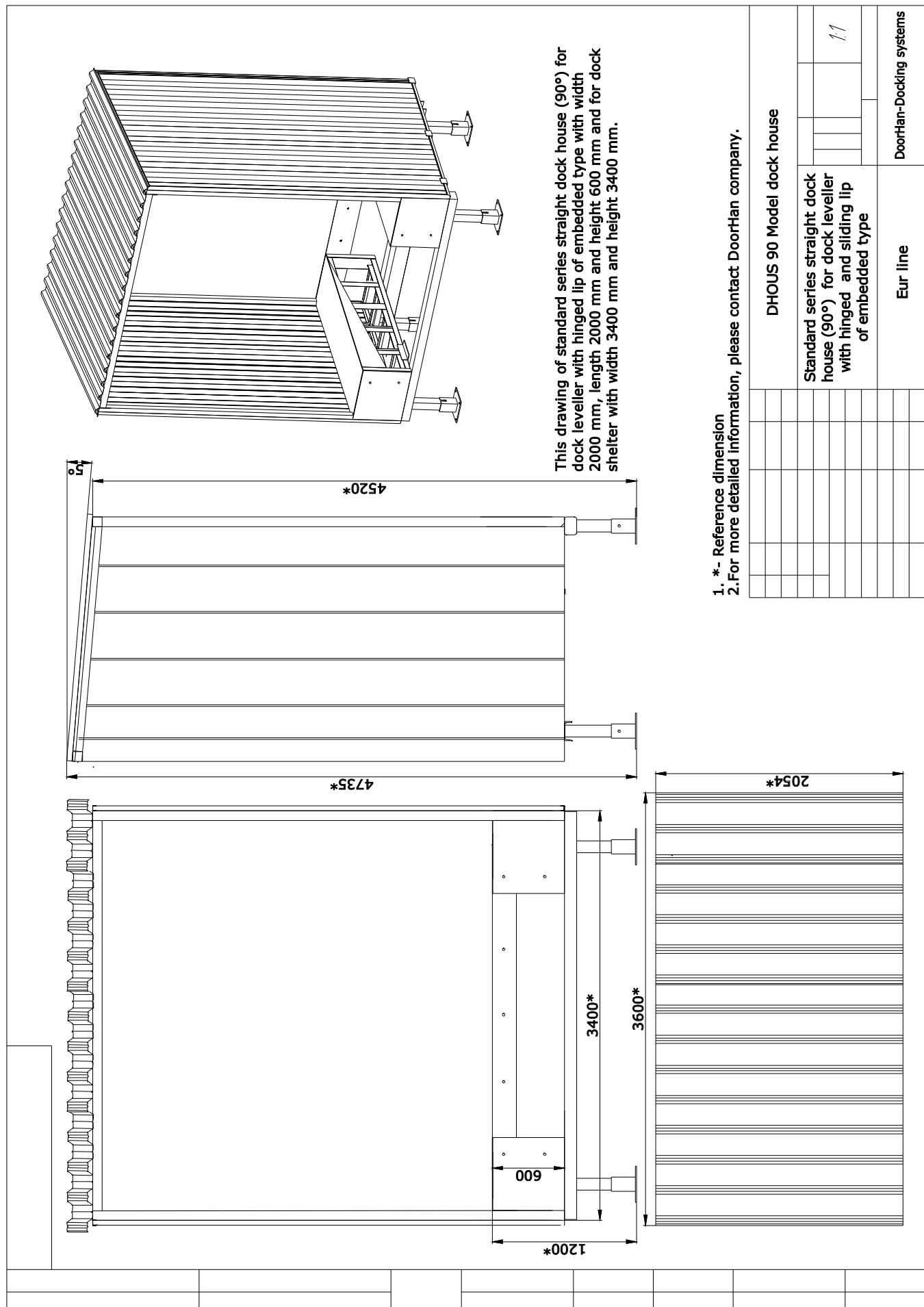
PACKAGE	Standard	Option
Dimensions	Depend on dimensions of dock shelter and dock leveller	Other upon request
Angle	90/60/45/30/30°	Other upon request
Sandwich panel wall outside/inside colour	Signal white (RAL 9003)	Other upon request
Corrugated sheet wall outside/inside colour	Signal white (RAL 9003) "Grey ground "	
Colour of frame	Black (RAL 9005)	Other upon request
Wall edging profile colour	White aluminium (RAL 9006)	Other upon request
Roof	Galvanized sheet C44	

## STANDARD INSTALLATION DIAGRAM FOR DOCK HOUSES

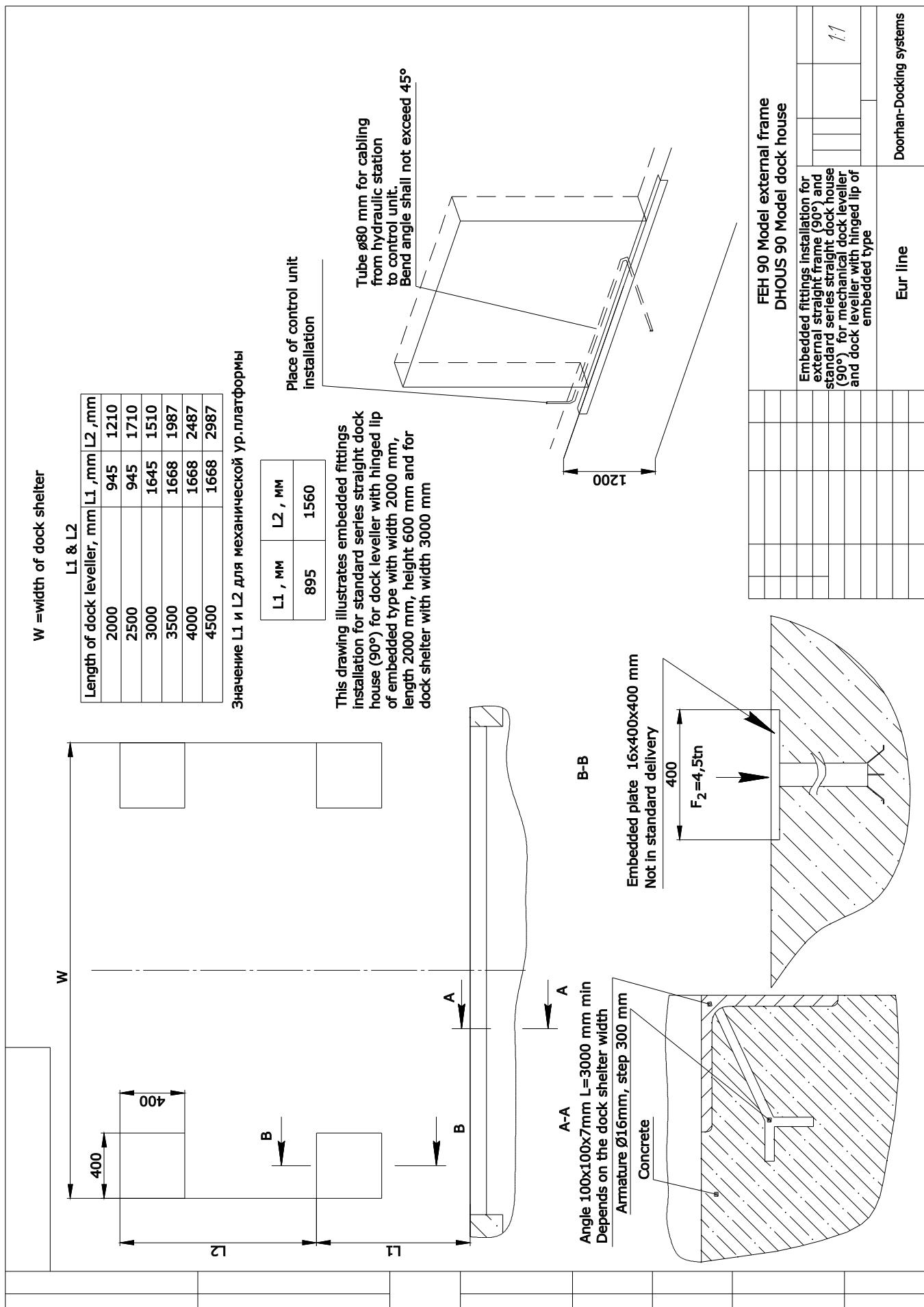


For fitting installation diagrams for dock houses see pages 128, 129, 134, 135.

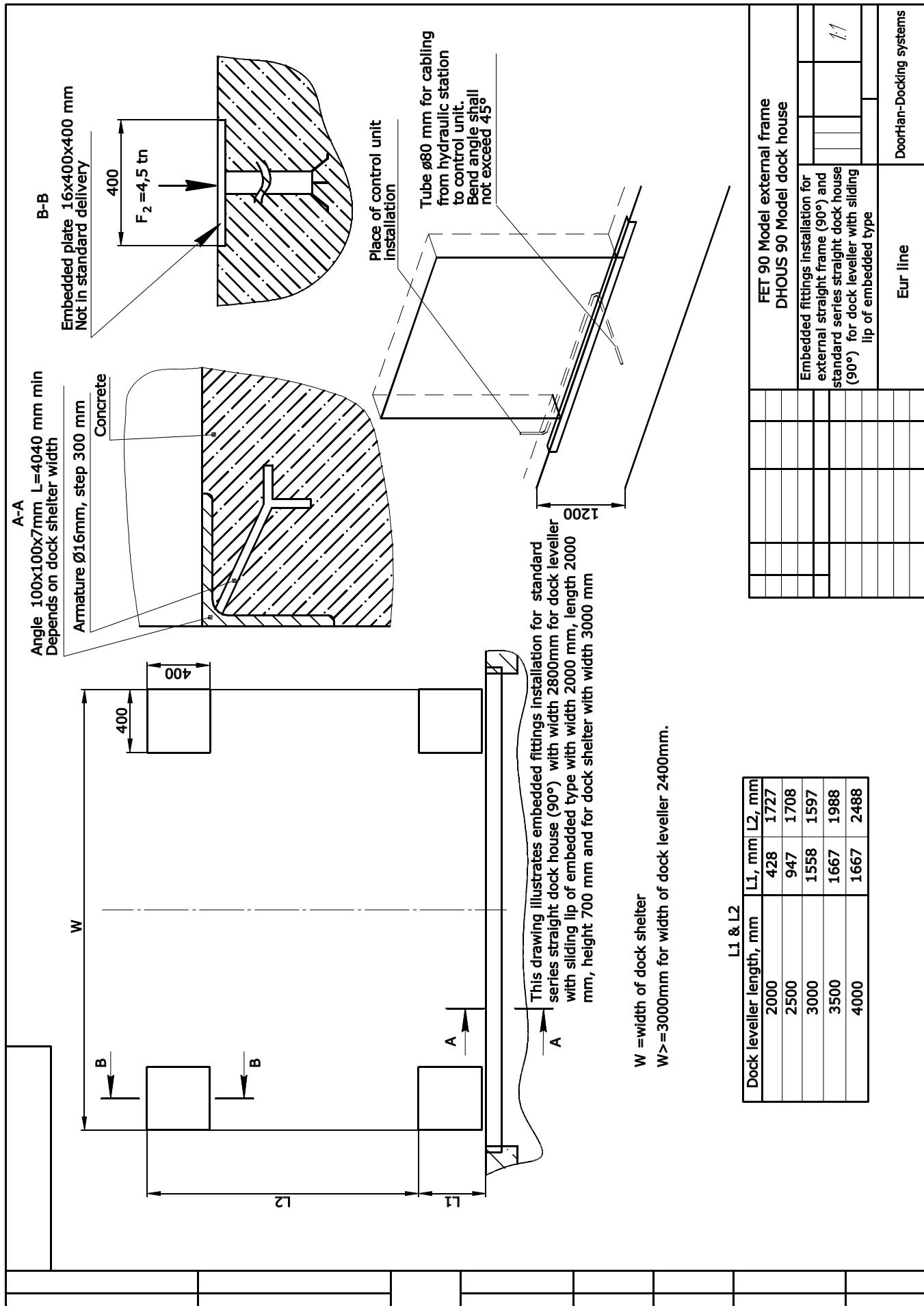
**STANDARD SERIES STRAIGHT DOCK HOUSE (90°) FOR DOCK LEVELLER  
WITH HINGED AND SLIDING LIP OF EMBEDDED TYPE**



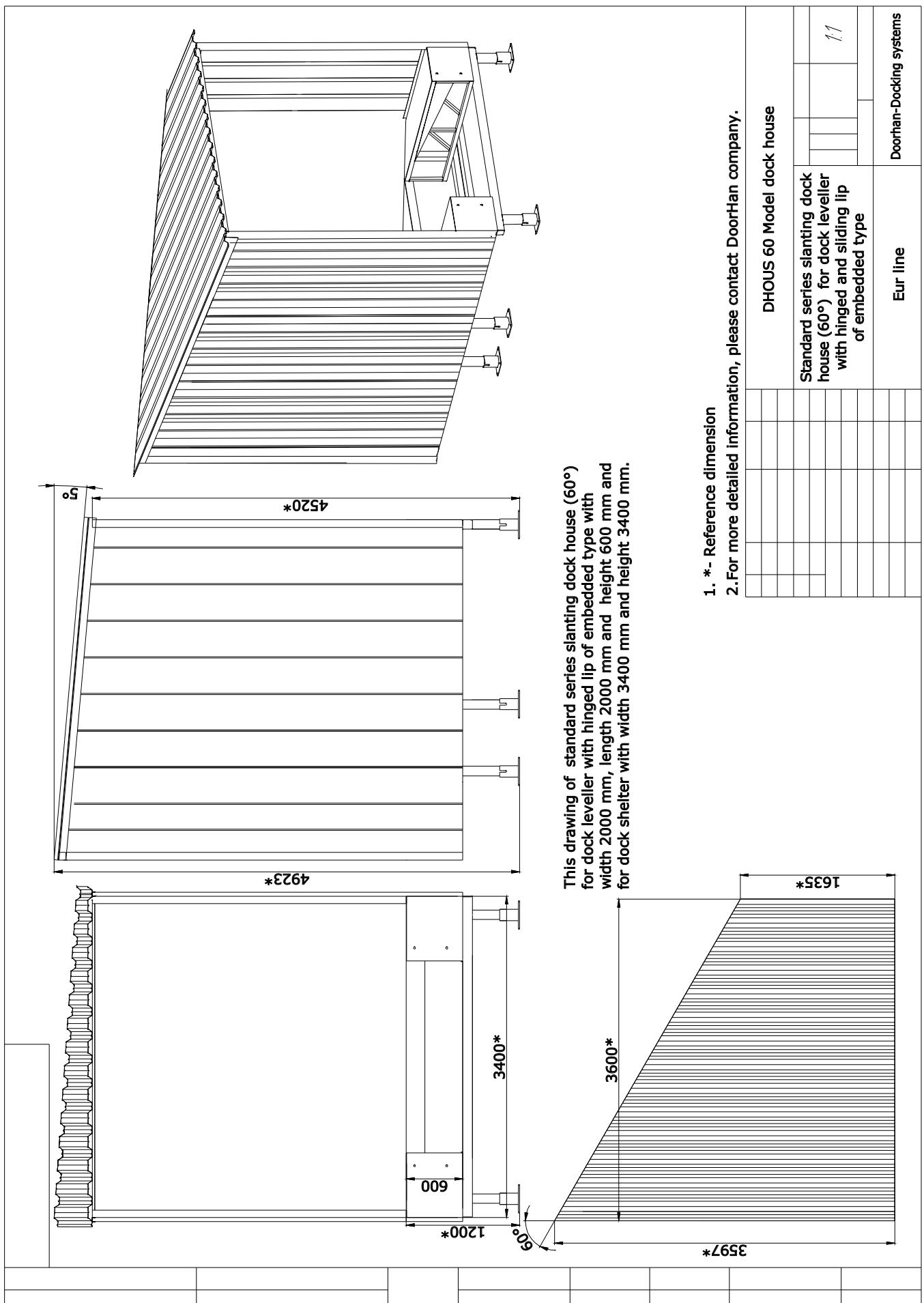
**EMBEDDED FITTINGS INSTALLATION FOR EXTERNAL STRAIGHT FRAME (90°) AND STANDARD SERIES STRAIGHT DOCK HOUSE (90°) FOR MECHANICAL DOCK LEVELLER AND DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**



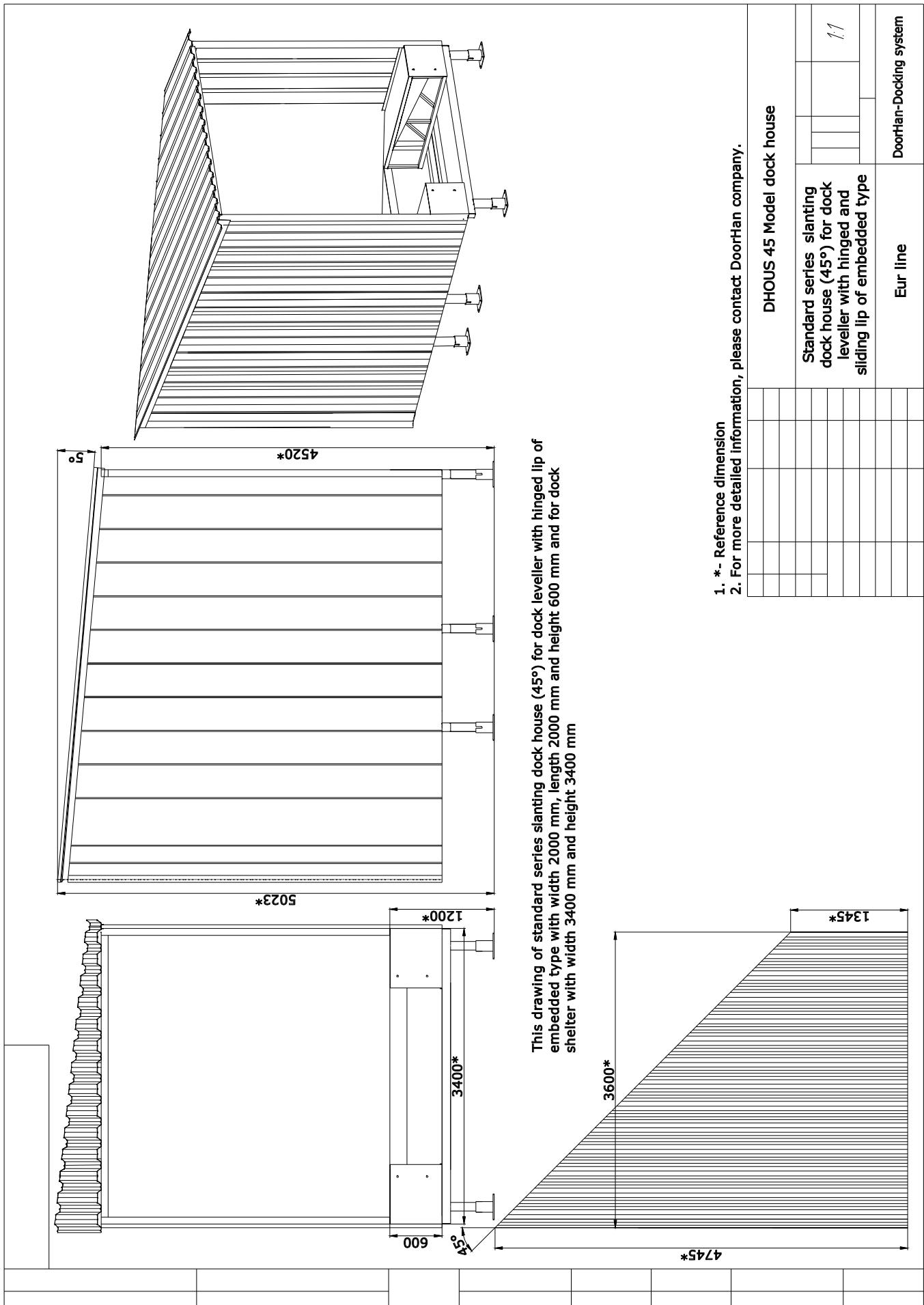
**EMBEDDED FITTINGS INSTALLATION FOR EXTERNAL STRAIGHT FRAME (90°) AND STANDARD SERIES STRAIGHT DOCK HOUSE (90°) FOR DOCK LEVELLER WITH SLIDING LIP OF EMBEDDED TYPE**



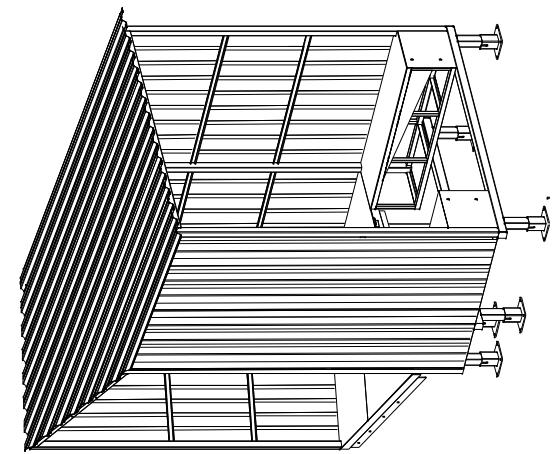
**STANDARD SERIES SLANTING DOCK HOUSE (60°) FOR DOCK LEVELLER  
WITH HINGED AND SLIDING LIP OF EMBEDDED TYPE**



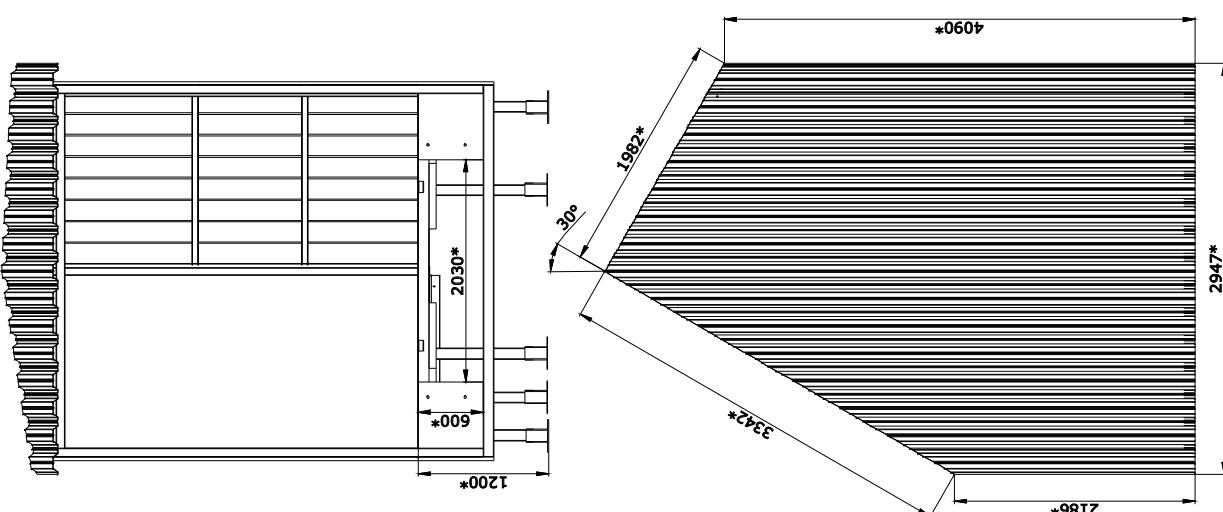
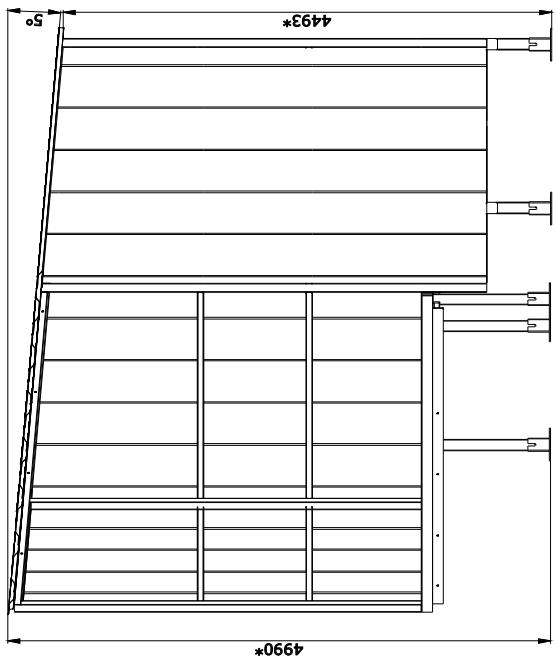
**STANDARD SERIES SLANTING DOCK HOUSE (45°) FOR DOCK  
LEVELLER WITH HINGED AND SLIDING LIP OF EMBEDDED TYPE**



## **STANDARD SERIES SLANTING DOCK HOUSE (30°) FOR DOCK LEVELLER WITH HINGED AND SLIDING LIP OF EMBEDDED TYPE**



This drawing of standard series slanting dock house (30°) of the sandwich panel (article DHOUS30-2500(S)) for dock leveller with hinged lip of embedded type with width 2000 mm, length 2500 mm and height 600 mm and for dock shelter with width 2800 mm and height 3400 mm.

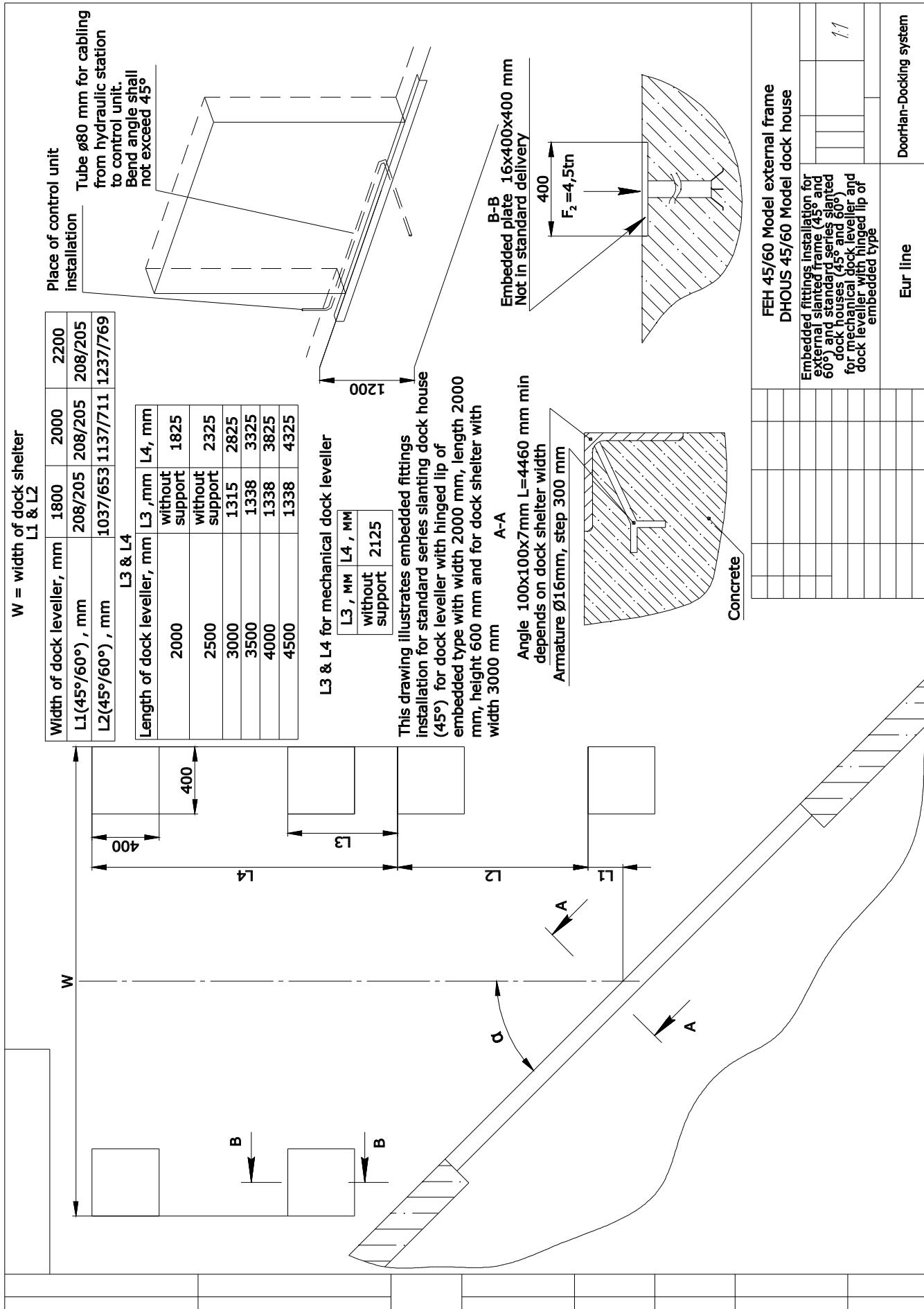


Hemoglobin	Lipoproteins
------------	--------------

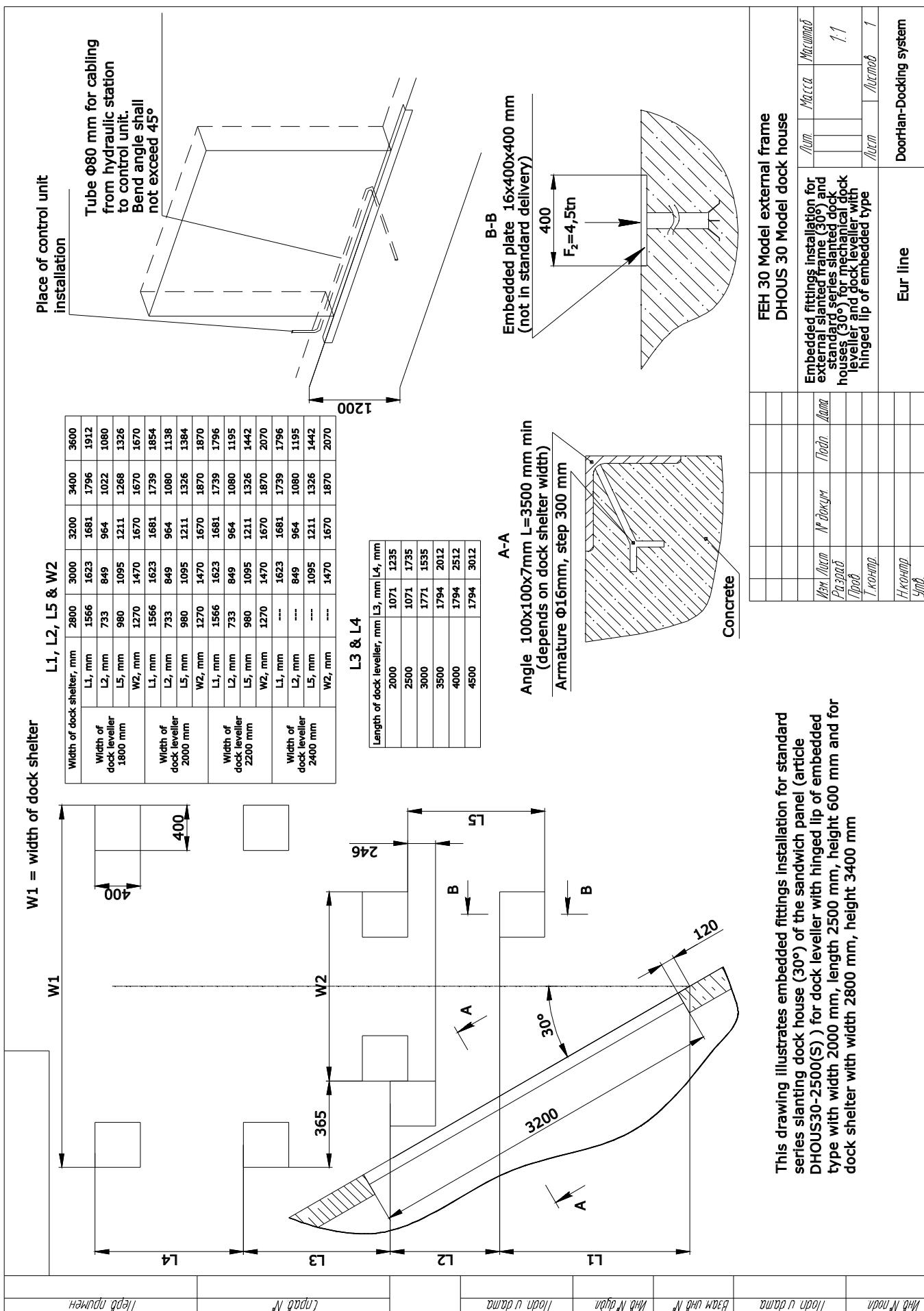
Who We Help	How We Help	Results	Impact	Outcomes	What We Learn
Individuals	Groups	Organizations	Communities	Systems	Environment

DHOUS 30 Model dock house

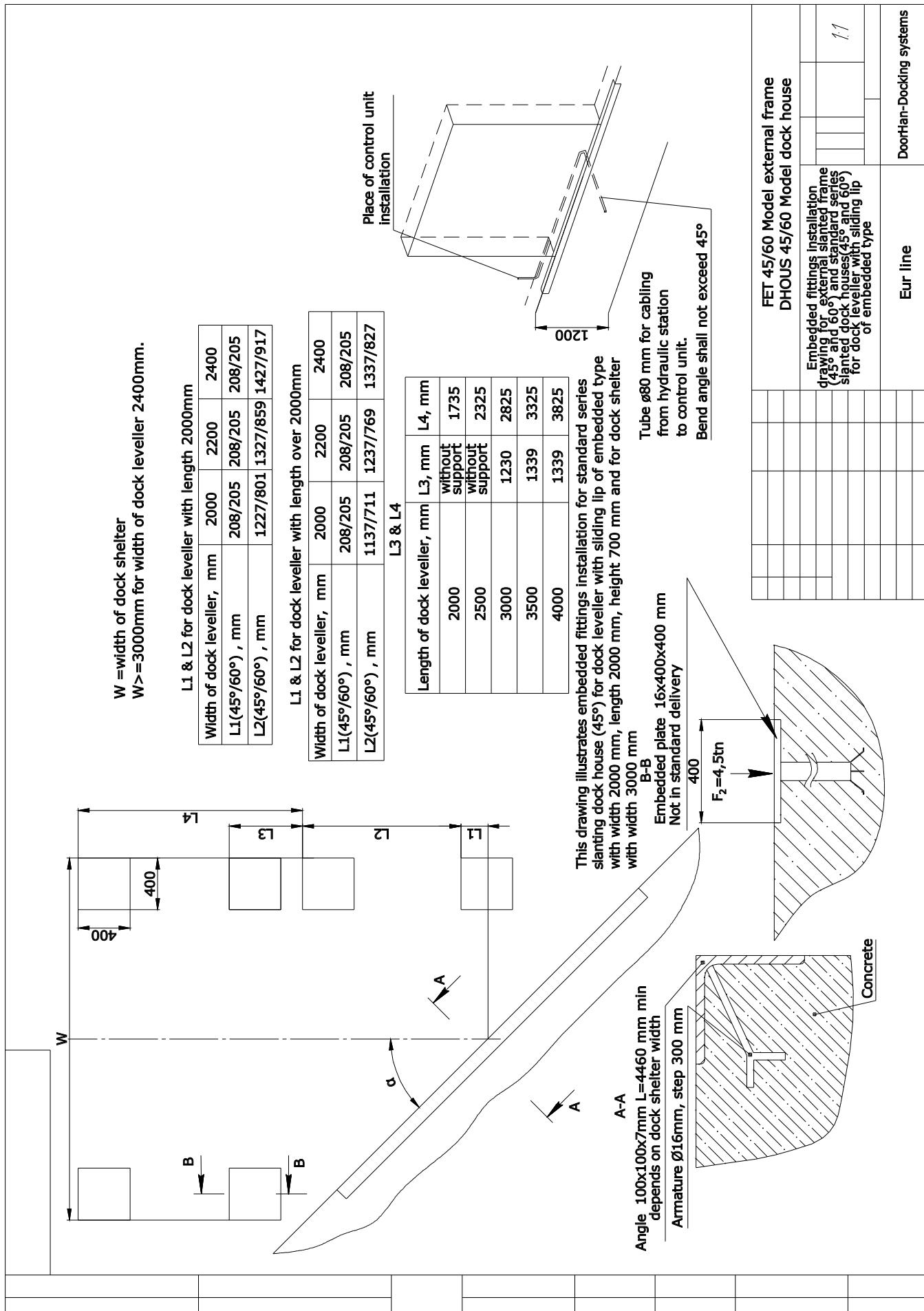
**EMBEDDED FITTINGS INSTALLATION FOR EXTERNAL SLANTED FRAME (45° AND 60°) AND STANDARD SERIES  
SLANTED DOCK HOUSES (45° AND 60°) FOR MECHANICAL DOCK LEVELLER AND DOCK LEVELLER WITH HINGED LIP  
OF EMBEDDED TYPE**



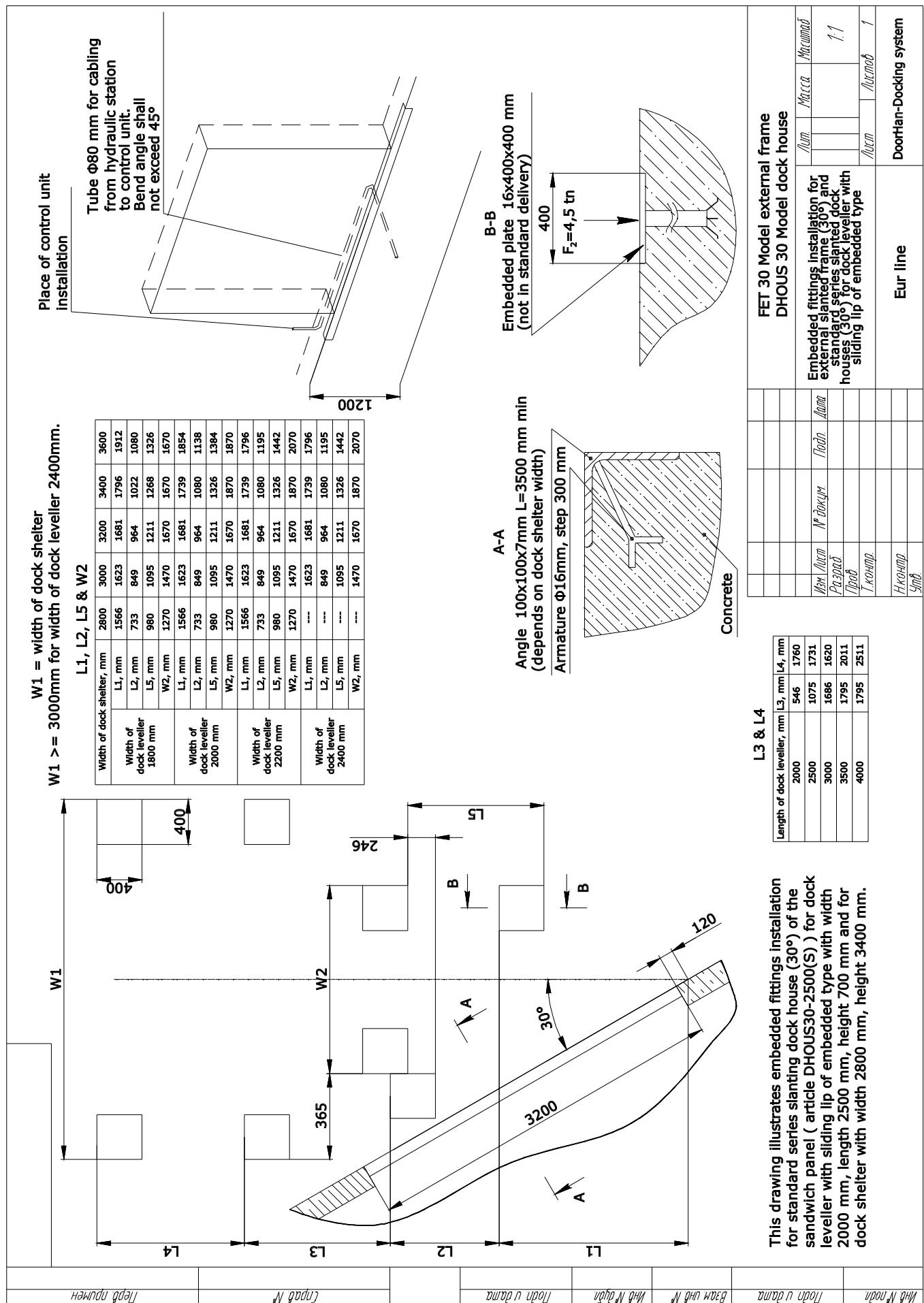
**EMBEDDED FITTINGS INSTALLATION FOR EXTERNAL SLANTED FRAME (30°) AND STANDARD SERIES SLANTED DOCK HOUSES (30°) FOR MECHANICAL DOCK LEVELLER AND DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**



**EMBEDDED FITTINGS INSTALLATION DRAWING FOR EXTERNAL SLANTED FRAME (45° AND 60°) AND STANDARD SERIES SLANTED DOCK HOUSES(45° AND 60°) FOR DOCK LEVELLER WITH SLIDING LIP OF EMBEDDED TYPE**



**EMBEDDED FITTINGS INSTALLATION FOR EXTERNAL SLANTED FRAME (30°) AND STANDARD SERIES SLANTED DOCK HOUSES (30°) FOR DOCK LEVELLER WITH SLIDING LIP OF EMBEDDED TYPE**



FET 30 Model external frame	DHOUS 30 Model dock house
1	1

Embedded fittings installation for external slanted frame (30°) and standard series slanted dock houses (30°) for dock leveller with sliding lip of embedded type

L3 & L4
Length of dock leveller, mm

# DOCK HOUSES OF DHOUSL (90/60/45/30) LIGHT SERIES



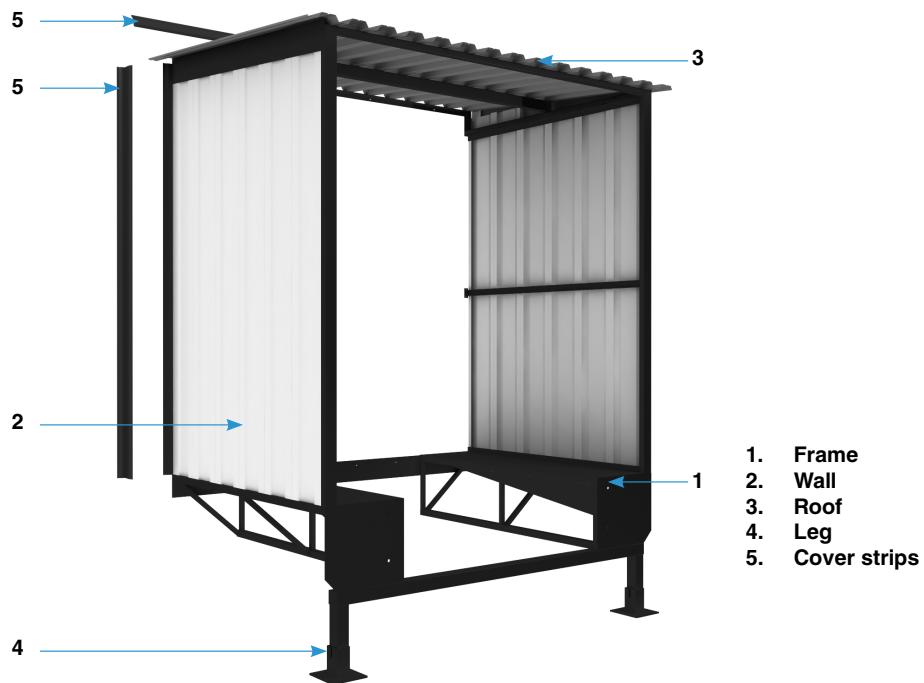
DHOUSLI (90/60/45/30) dock houses are used with dock levelers with hinged lip of DLHH2518-(06)E, DLHH2520-(06)E, DLHH2518-(10)E, DLHH2520-(10)E series. They have lighter design. The walls are made of corrugated sheet C20/C21, the roof — of corrugated sheet C44. DSHRT 3.4x3.4, DSHRD 3.4x3.4 dock shelters and all DoorHan bumpers can be used with this series dock house. Cover strips (included in standard package) ensure optimal sealing between the dock house and the building. Installation time is considerably reduced due to the high degree of pre-assembly of the dock house.

## TECHNICAL SPECIFICATIONS AND DIMENSIONS

PERFORMANCE	
<b>Dock house</b>	
Maximal wind load	0.65 kN/m <sup>2</sup>
Working temperature	From -35 to +50 °C
<b>Roof</b>	
Maximal wind load	3 kN/m <sup>2</sup>
<b>Walls</b>	
Corrugated sheet	C20/21
<b>Frame</b>	
Class of surface cleaning before painting	Sa 2
For information on reference dimensions contact DoorHan.	

WEIGHT	Weight, kg
Article	
DHOUSL 90	715
DHOUSL 45	1324
DHOUSL 60	1127
For more detailed information, please contact DoorHan company.	

## CONSTRUCTION



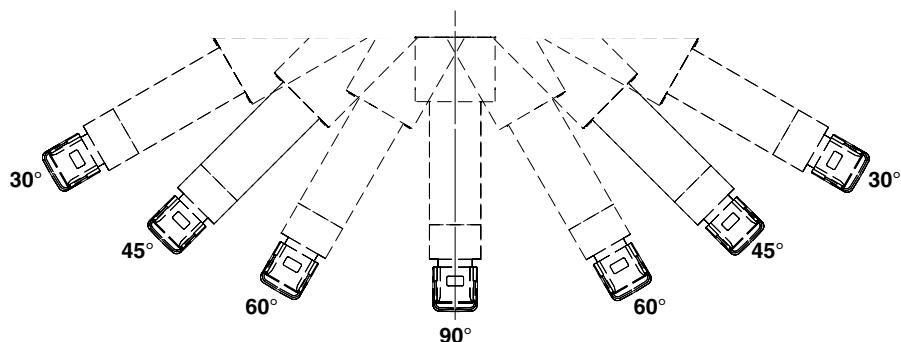
DHOUSEL 90/60/45/30 dock house consists of a metal frame with side walls made of corrugated sheet C20/C21, roof, legs and cover strips. The roof has a 5 degree slope towards the outside to enable rain water flow. The frame consists of 2 bases. On insides of the bases there is a gusset, which prevents personnel feet jamming during operation. The slanting dock house is equipped with a triangle of 300, 450 or 600 at the rear part and with a diamond upper sheet. The frame is joined by cross beam, made of square tube.

## CONFIGURATION AND DESIGN

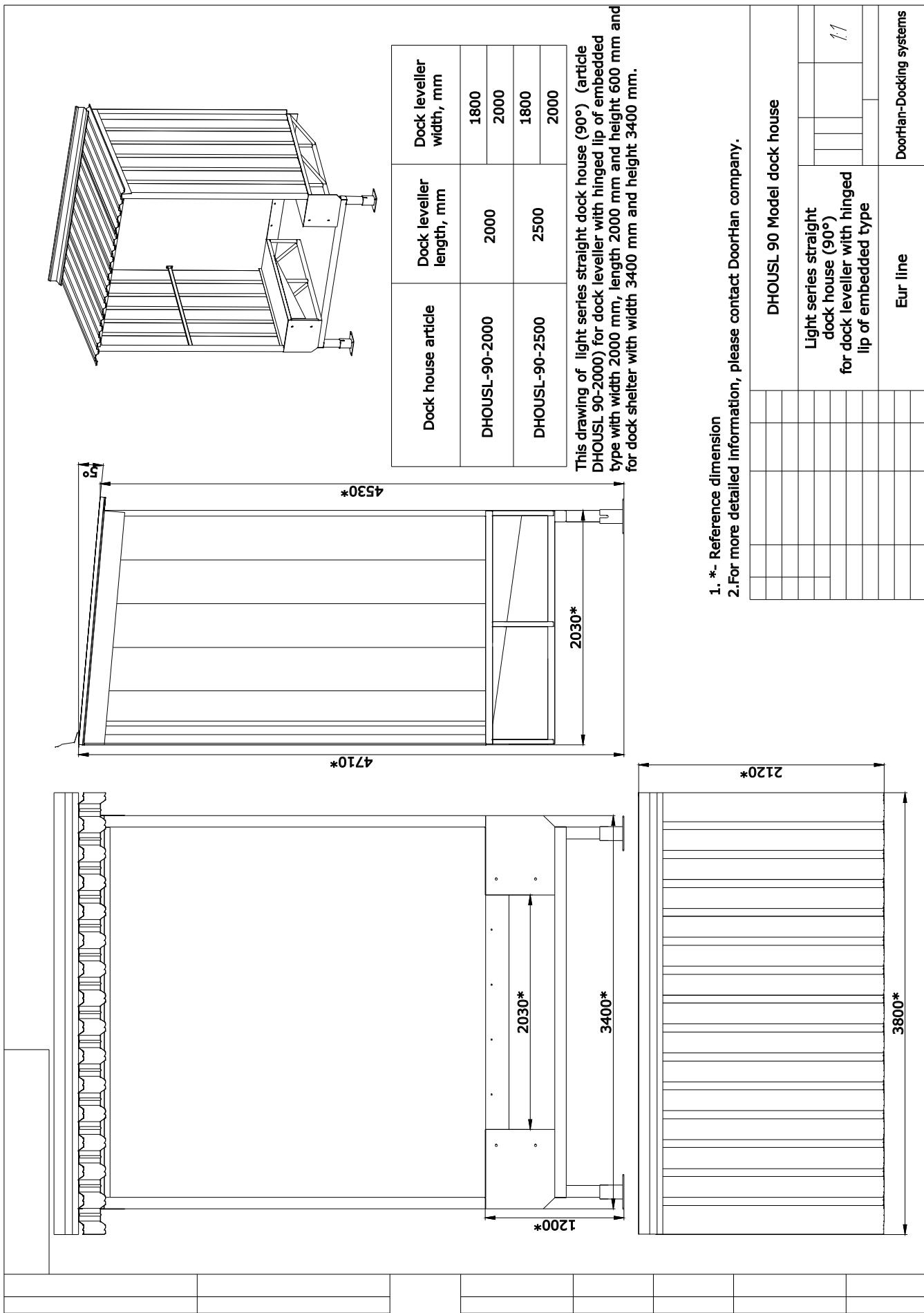
PACKAGE	Standard	Option
Angle	90/60/45/30	
Inside/outside wall colour	Signal white (RAL 9003)/ "Grey ground"	Other upon request
Frame colour	Black (RAL 9005)	Other upon request
Roof	Galvanized sheet C44	
Colour of frame	Signal blue (RAL5005)	

\* Powder coating of frame with preliminary shot blasting.

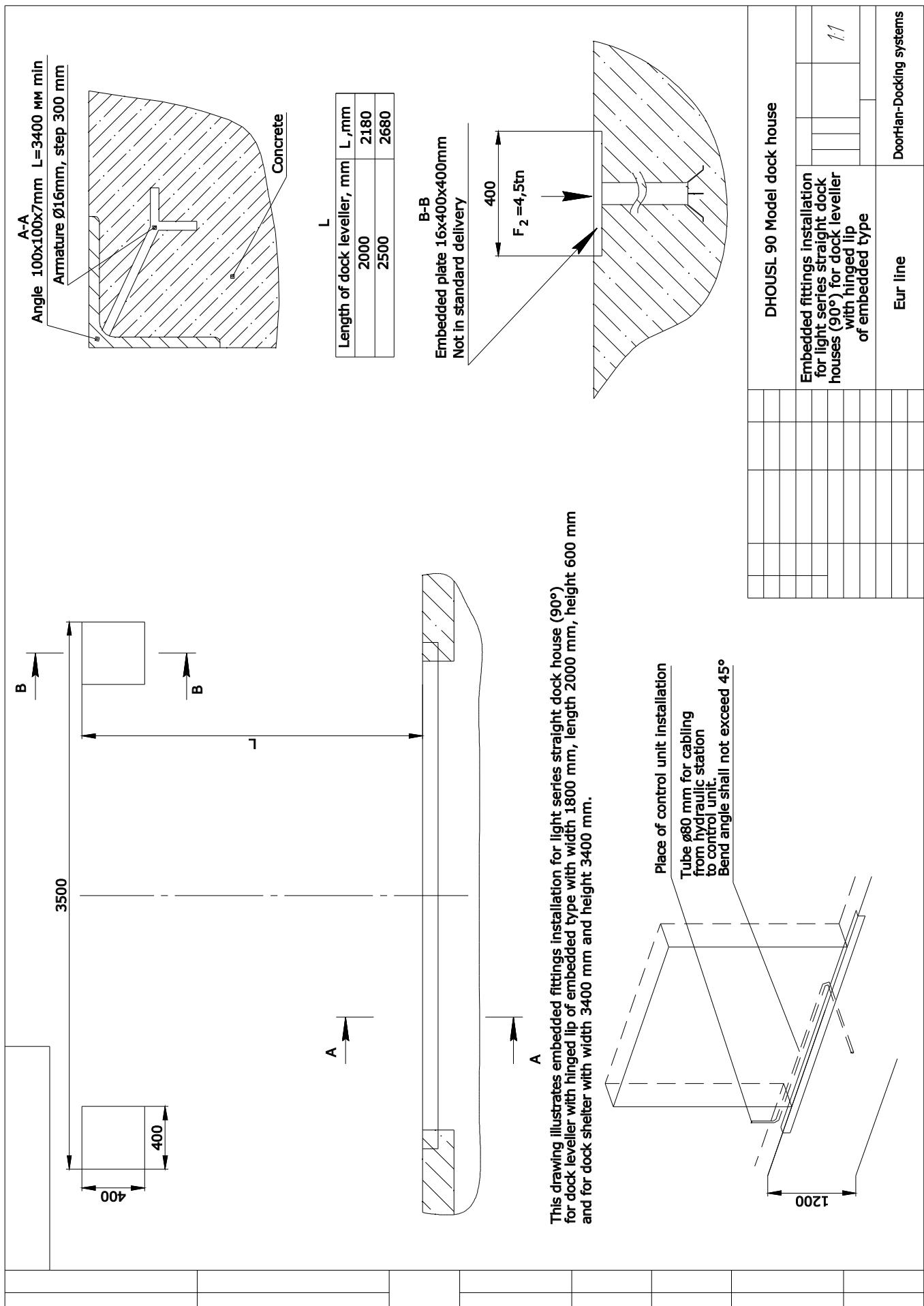
## STANDARD INSTALLATION DIAGRAM



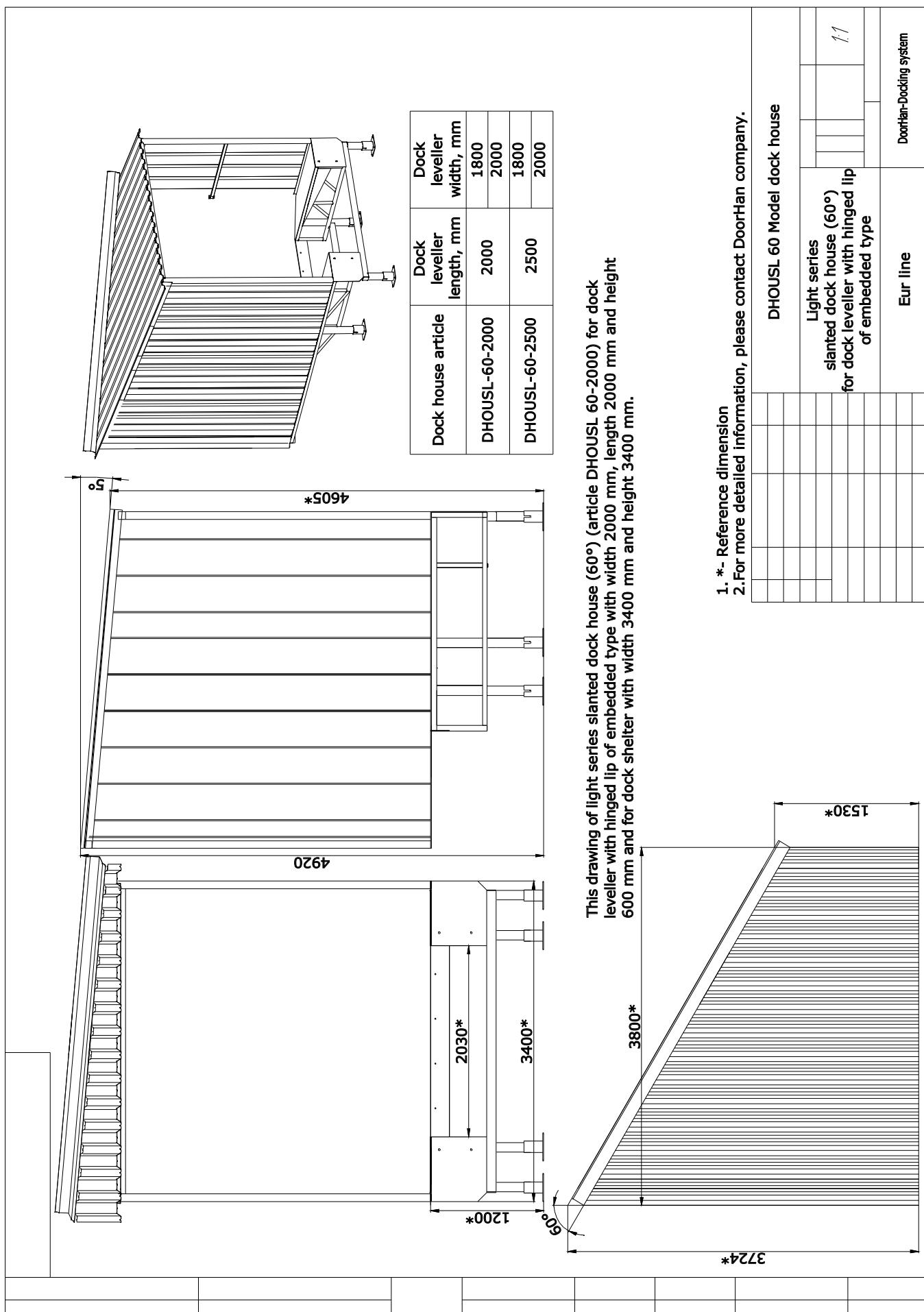
## **LIGHT SERIES STRAIGHT DOCK HOUSE (90°) FOR DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**



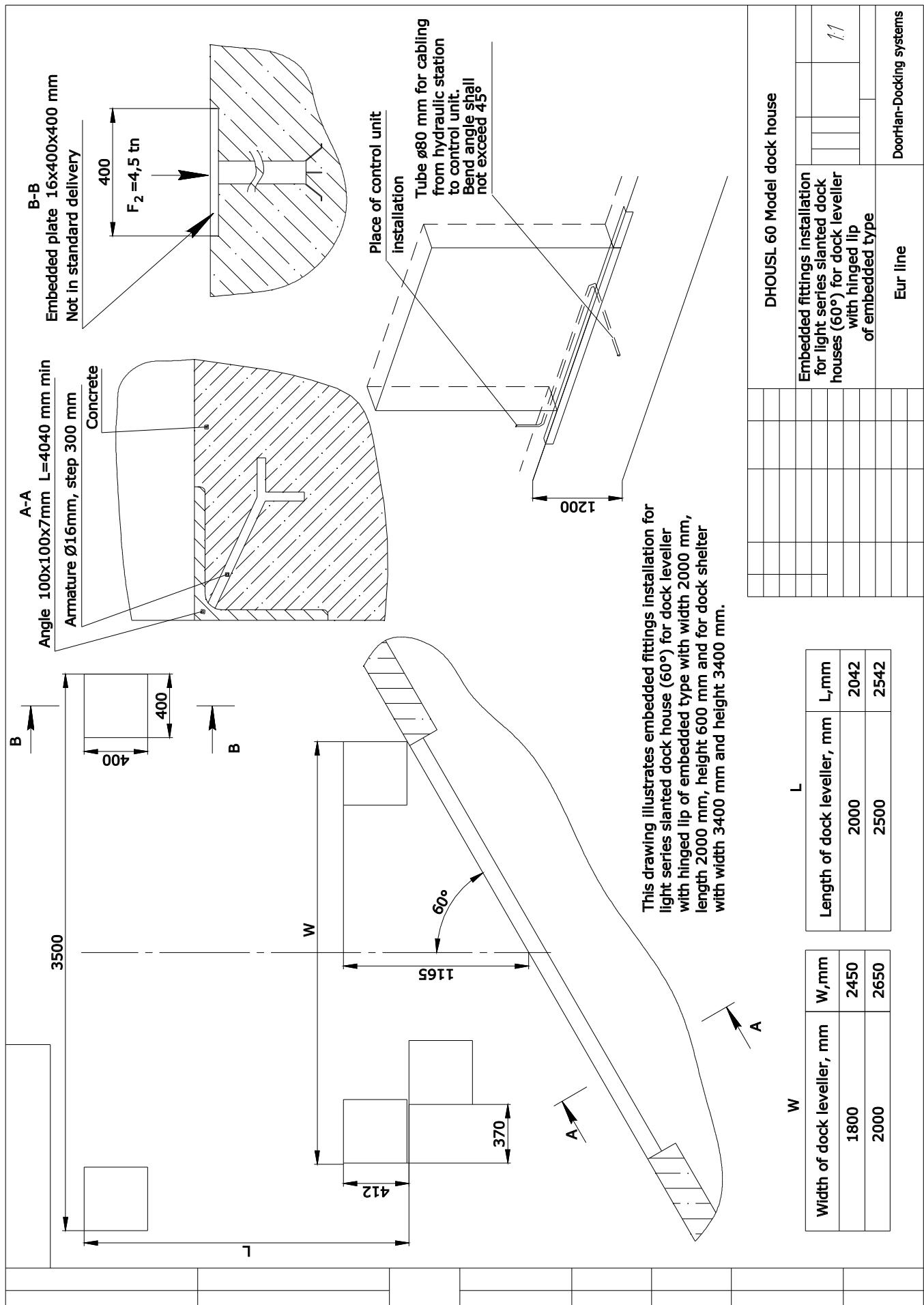
**EMBEDDED FITTINGS INSTALLATION FOR LIGHT SERIES STRAIGHT DOCK HOUSES (90°) FOR DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**



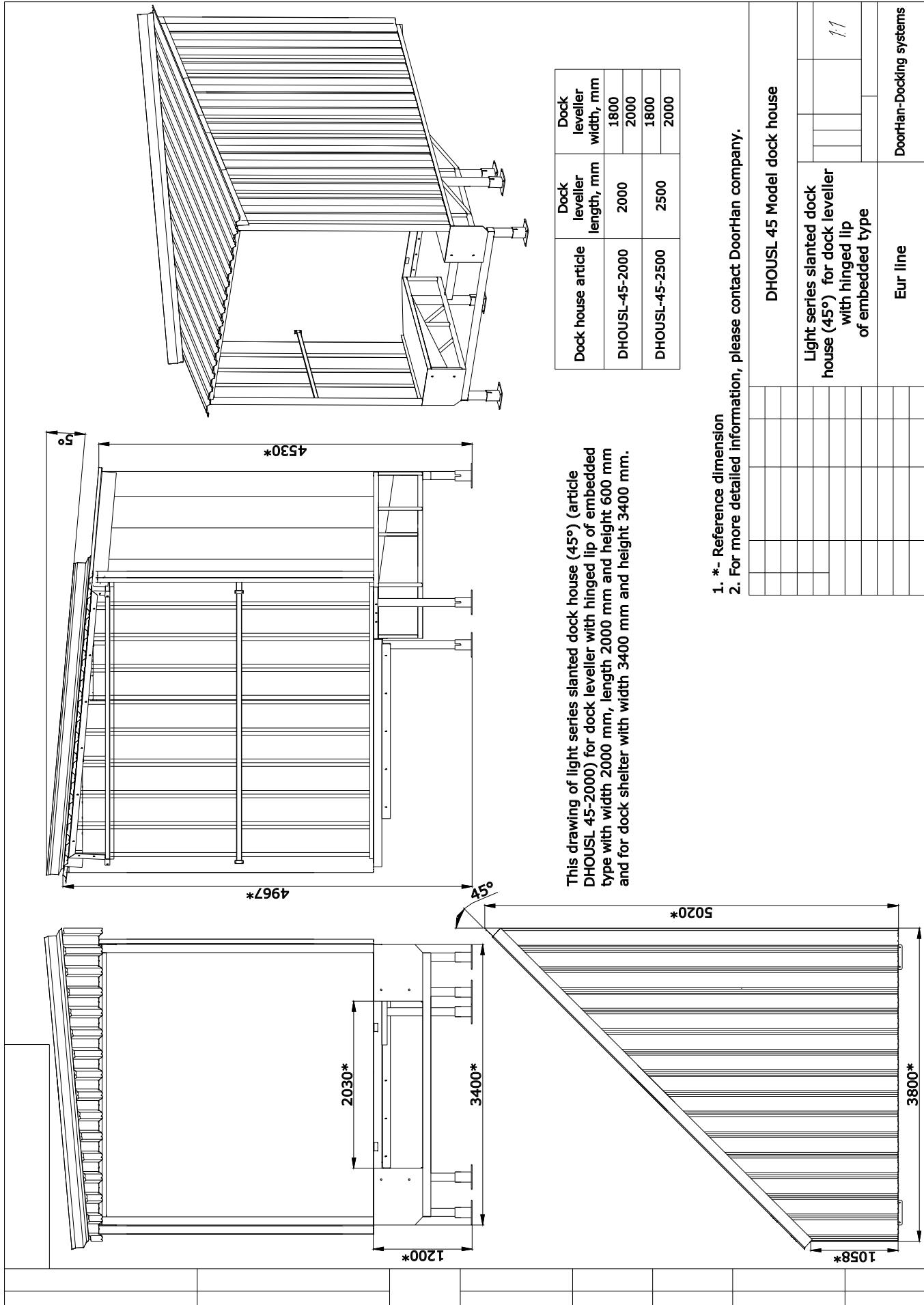
**LIGHT SERIES SLANTED DOCK HOUSE (60°) FOR DOCK LEVELLER WITH HINGED LIP  
OF EMBEDDED TYPE**



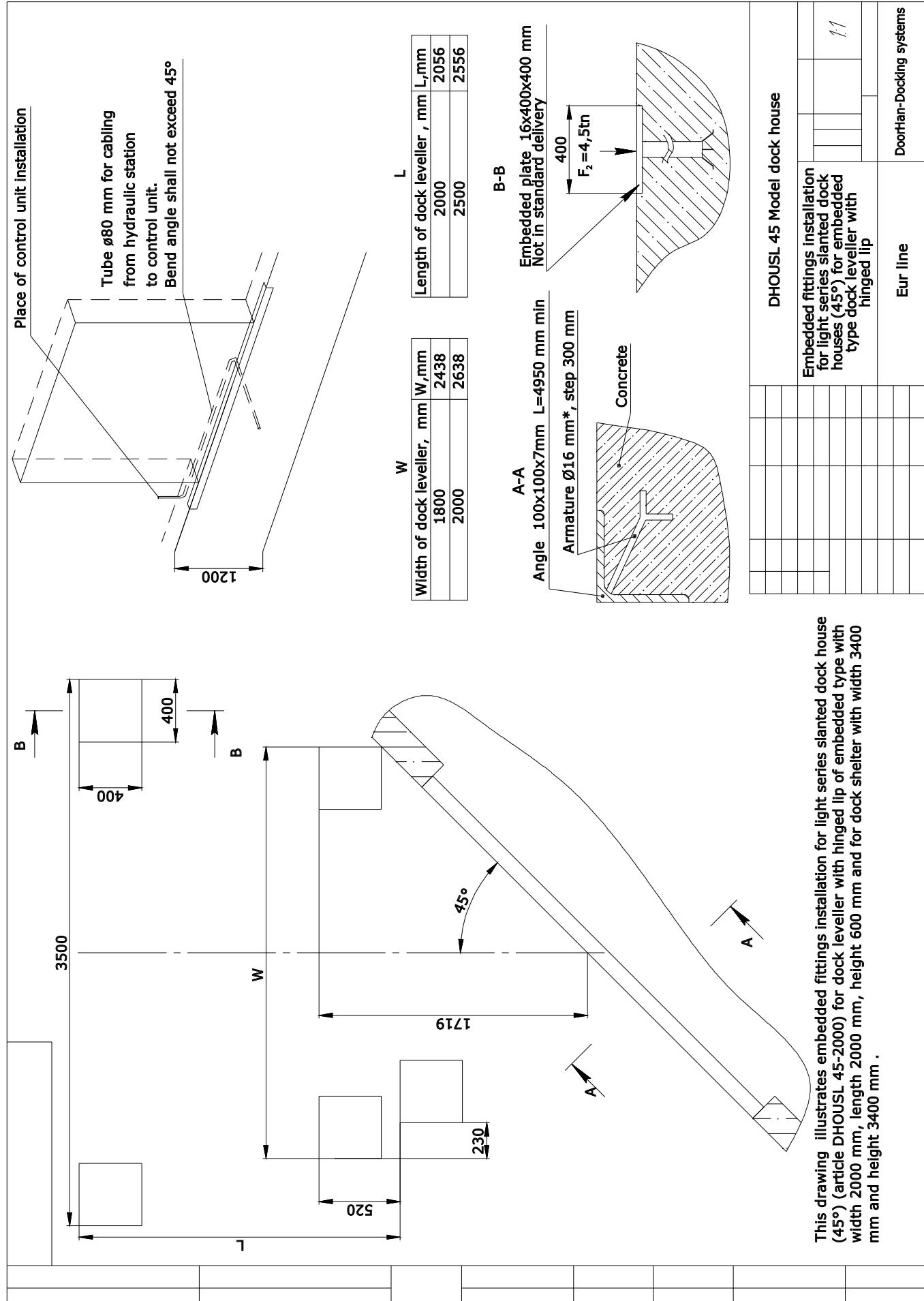
## **EMBEDDED FITTINGS INSTALLATION FOR LIGHT SERIES SLANTED DOCK HOUSES (60°) FOR DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**



## **LIGHT SERIES SLANTED DOCK HOUSE (45°) FOR DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**

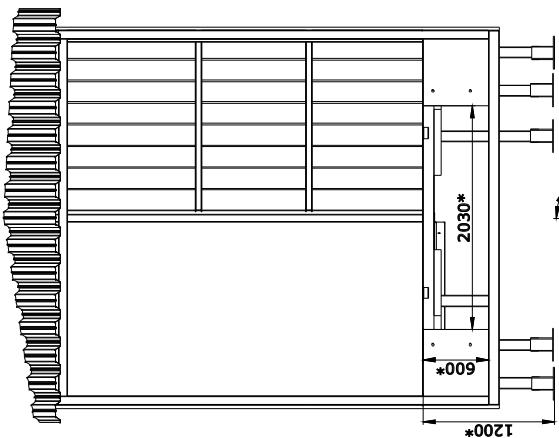
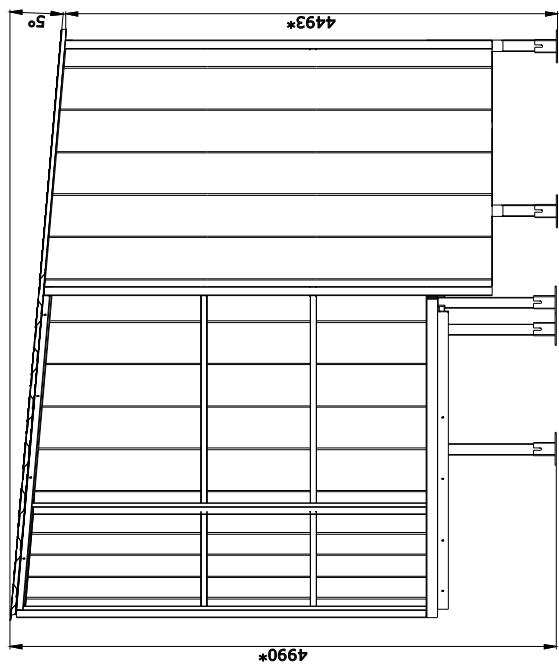
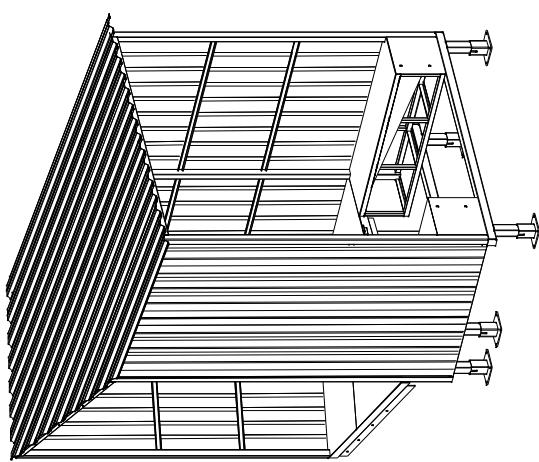


## **EMBEDDED FITTINGS INSTALLATION FOR LIGHT SERIES SLANTED DOCK HOUSES (45°) FOR EMBEDDED TYPE DOCK LEVELLER WITH HINGED LIP**



This drawing illustrates embedded fittings installation for light series slanted dock house (45°) (article DHOUSL 45-2000) for dock leveller with hinged lip of embedded type with width 2000 mm, length 2000 mm, height 600 mm, height 2000 mm, height 600 mm and for dock shelter with width 3400 mm and height 3400 mm.

**LIGHT SERIES SLANTED DOCK HOUSE (30°) FOR DOCK LEVELLER WITH HINGED LIP OF EMBEDDED TYPE**

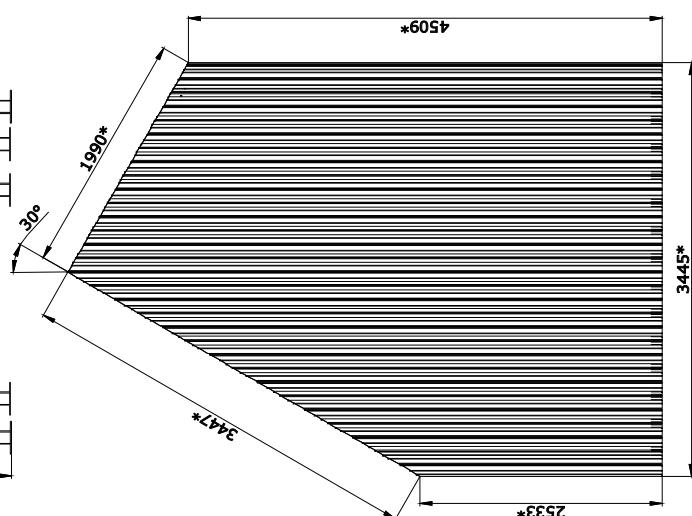


Dock house article	Dock leveller length, mm	Dock leveller width, mm
DHOUSL-30-2000	2000	1800
DHOUSL-30-2500	2500	2000

This drawing of light series slanted dock house (30°) (article DHOUSL-30-2500) for dock leveller with hinged lip of embedded type with width 2000 mm, length 2500 mm and height 600 mm and for dock shelter with width 3400 mm and height 3400 mm.

1. \* - Reference dimension
2. For more detailed information, please contact DoorHan company.

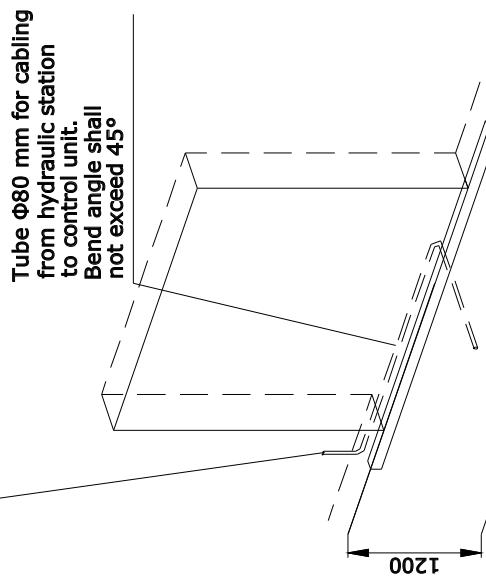
DHOUSL 30 Model dock house		DoorHan-Docking system
Light series slanted dock house (30°) for dock leveller with hinged lip of embedded type	Macca Macmad	1/1
DoorHan-Docking system	Macca Macmad	1
Eur line		



Wid N modu	Dočin u dřáma	Baam učit N	Wid N učitn	Dočin u dřáma	Rehp učitně
Učit N	Učit N	Učit N	Učit N	Učit N	Učit N

**EMBEDDED FITTINGS INSTALLATION FOR LIGHT SERIES SLANTED DOCK HOUSES (30°) FOR EMBEDDED TYPE DOCK LEVELLER WITH HINGED LIP**

**Place of control unit installation**



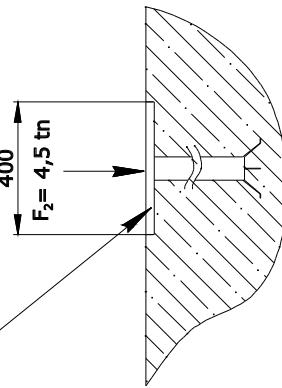
**L1, L2, L3 & W**

Width of dock leveller, 1800 mm	L1, mm	1882
L2, mm	878	
L3, mm	1137	
W, mm	2458	
L1, mm	1812	
L2, mm	993	
L3, mm	1092	
W, mm	2658	

Length of dock leveller, mm L4, mm	L4
2000	1227
2500	1727

**A-A**  
Angle 100x100x7mm L=3500 mm min  
Armature Ø16mm, step 300 mm

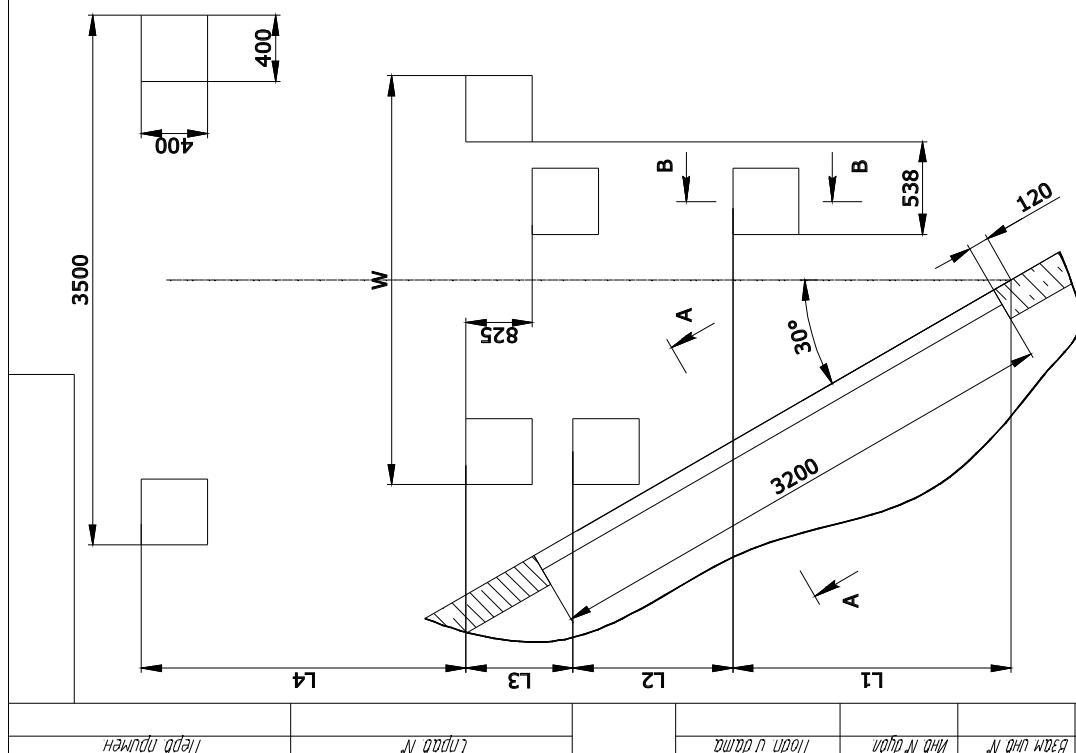
**B-B**  
Embedded plate 16x400x400 mm  
(not in standard delivery)



**DHOUSL 30 Model dock house**

Embedded fittings installation  
for light series slanted dock  
houses (30°) for embedded  
type dock leveller with  
hinged lip

DoorHan-Docking systems



This drawing illustrates embedded fittings installation for light series slanted dock house (30°) (article DHOUSL-30-2500) for dock leveller with hinged lip of embedded type with width 2000 mm, length 2500 mm, height 600 mm and for dock shelter with width 3400 mm and height 3400 mm.

# GENERAL INFORMATION ABOUT FLEXIBLE PVC-DOORS

Heating and cooling of industrial and storage facilities today is becoming one of the key expenses for most organizations. Due to continuously rising energy prices today's companies have to take steps to introduce new energy-efficient technologies. One of the most efficient ways to save on energy costs is installation of flexible PVC doors on heavy-traffic buildings.

DoorHan offers three types of PVC doors:

- strip PVC doors;
- swing PVC doors;
- high speed roll-up doors.

They are used for isolation of production, storage or commercial rooms. Flexible PVC doors have certificates of conformity (see page 182).

## Main advantages:

- microclimate keeping in premises;
- energy saving;
- elimination of draughts and dust;
- safety operation because of flexibility and transparency;
- noise insulation (up 25dB);
- humidity resistance.

## STRIP PVC DOORS OF FC100 SERIES



DoorHan strip PVC door of FS series is a set of transparent film strips which are hanged using a fastening. It is easy-to-mount and easy-to-clean. Standard or low temperature film is used, which allows operation of this door at low or high temperatures. The material has high tear resistance and tensile strength, good sound insulation, UV-radiation protection and flexibility. All strips have rounded edges to ensure safety and durability.

Strip PVC doors can be installed by either suspended or embedded way. The suspension system is based on swinging brackets, made of galvanized or stainless steel. PVC doors are easy to install as all the strips are delivered with preliminary installed mounting plates. Mounting hardware can be installed either inside the door jamb or on the face of the wall. Design of the strip PVC doors makes them immediately return to the original position, closing after passage through them.

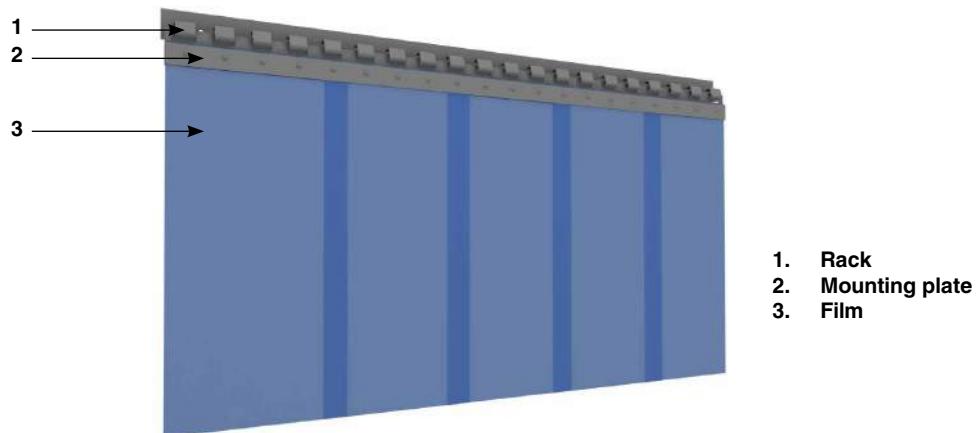
## TECHNICAL SPECIFICATIONS AND DIMENSIONS

DIMENSIONS/FEATURES			
Film dimensions (width × thickness), mm	Overlapping, %	Opening height, mm	
		Inside	Outside
200 × 2	50	1500	
	100	2000	1500
300 × 3	33	2000	2000
	66	3000	2300
	100	3500	3000
400 × 4	50	4500	3200
	100	6000	5000

TECHNICAL SPECIFICATIONS		
	Standard film	Low temperature film
Density	1.22 g/cm <sup>3</sup>	1.18 g/cm <sup>3</sup>
Transparency	80 %	80 %
Tear resistance	16 N/mm <sup>2</sup>	11.5 N/mm <sup>2</sup>
Elongation	340 %	390 %
Heat transfer	0.14 W/(m K)	0.14 W/(m K)
Noise absorption	35 Db	35 Db
Working temperature range	-15...+50°C	-25...+30°C

WEIGHT OF 1 LINEAR METER		
Film dimensions (width x thickness), mm	Standard film, kg	Low temperature film, kg
200 × 2	0.48	0.46
300 × 3	1.04	1.04
400 × 4	1.92	1.92

## CONSTRUCTION

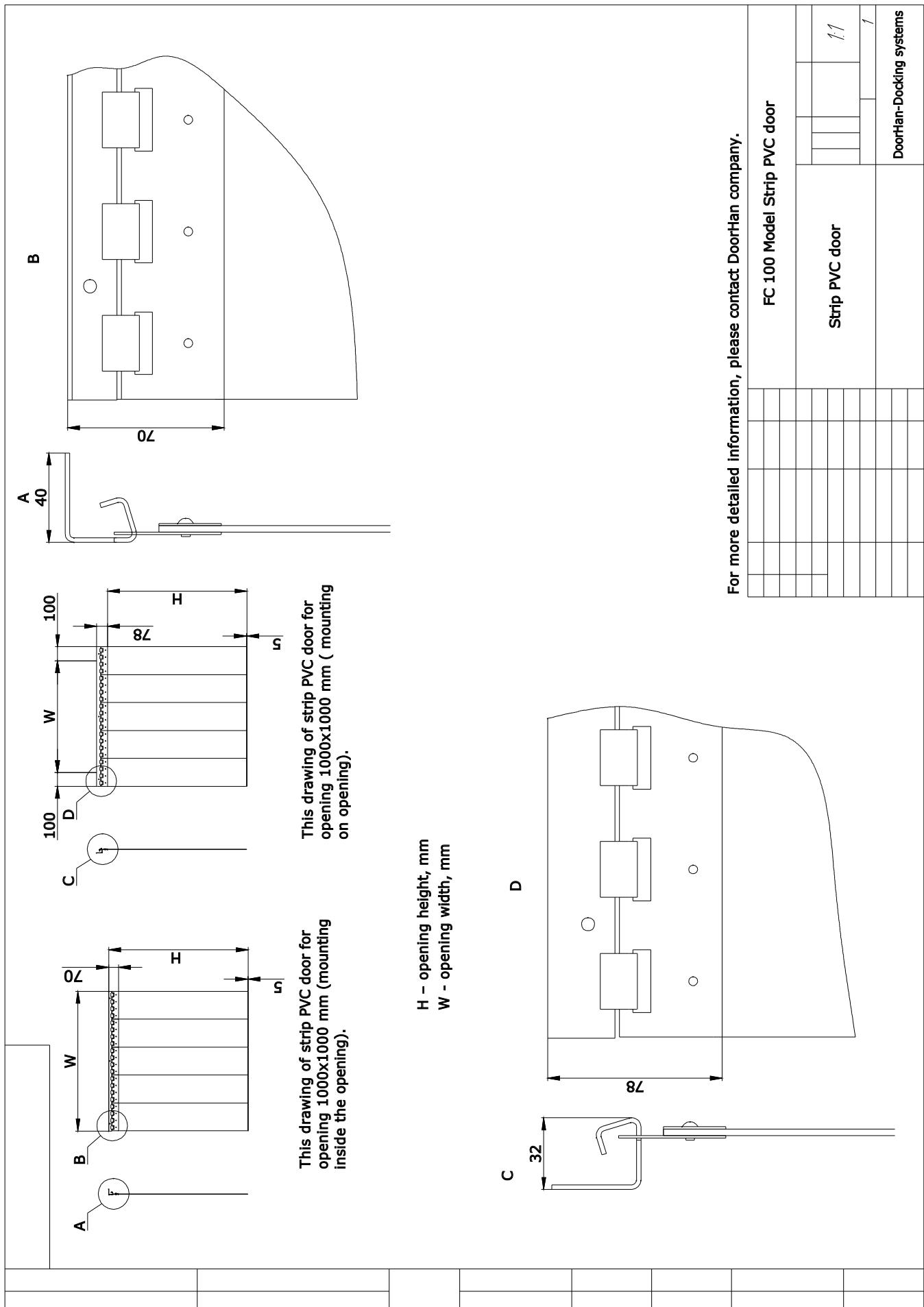


Strip PVC doors are made in accordance with customer requirements. Standard widths are 200, 300 and 400 mm, standard thickness are 2,3 and 4 mm respectively.

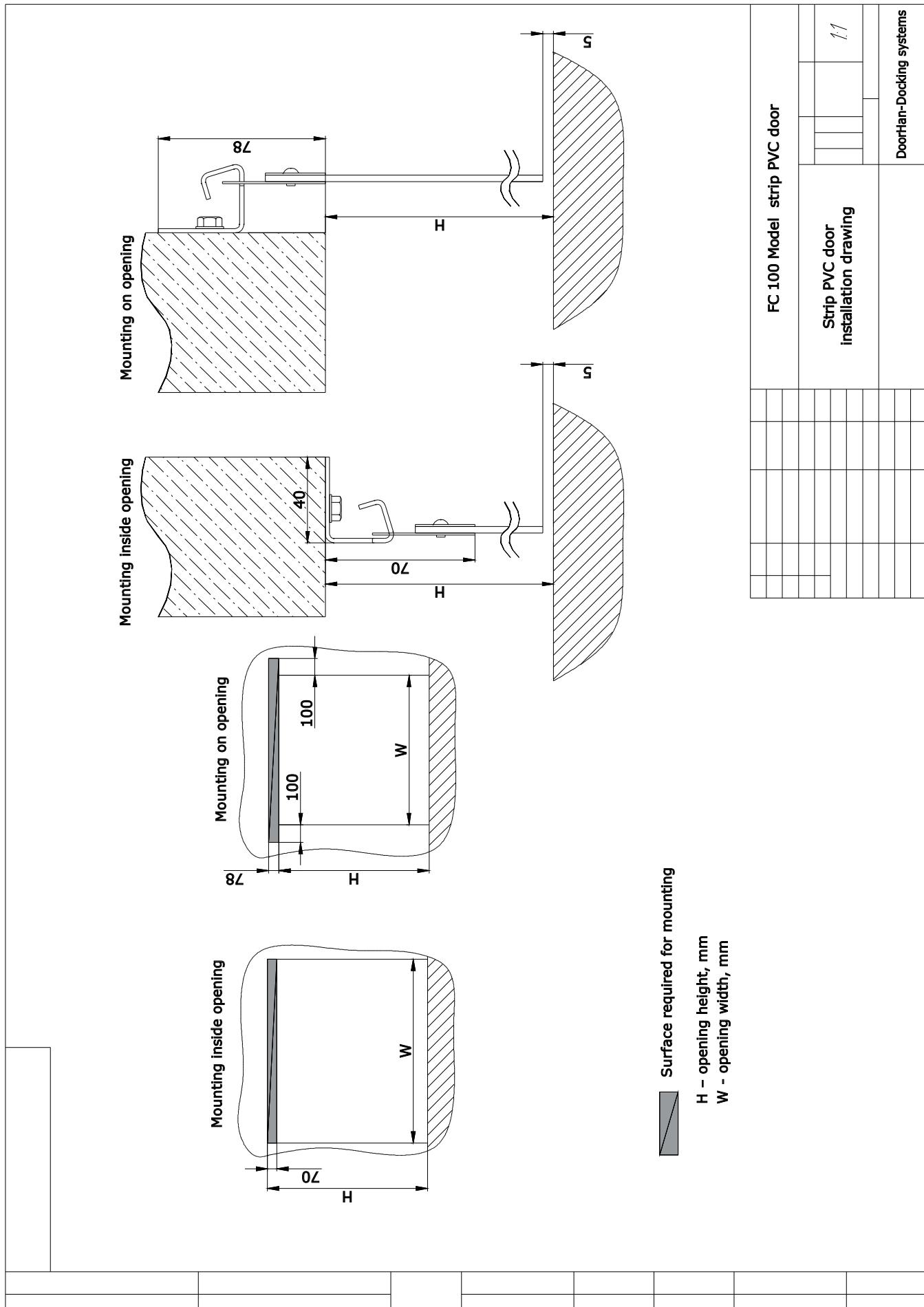
Strip PVC doors can be mounted with various overlapping. The minimal overlapping gives easy passage through the opening and the maximal one improves room insulation. The combination of opening height and overlapping percentage is a key factor to select an appropriate strip PVC door.

## CONFIGURATION AND DESIGN

PACKAGE	Standard	Optional
Film	dark blue Coloura	dark blue Coloura — low temperature film/red Coloura — UV-protection film
Mounting plate	zinc coated	stainless steel



**STRIP PVC DOOR**  
**INSTALLATION DRAWING**



# **SWING PVC DOOR OF SSD110/120 SERIES**



Swing PVC doors of SSD series are made of elastic PVC film. Upon customers request the door leaf can be made of transparent, non-transparent or combined film. It can be used at temperature down to -30°C (if low temperature film is used). The doors work silently, are easy-to-operate and easy-to-clean. Design of the swing PVC doors makes them immediately return to the original position, closing after passage through them. The frame is made of aluminium profile; the design is strong and reliable.

## **TECHNICAL SPECIFICATIONS AND DIMENSIONS**

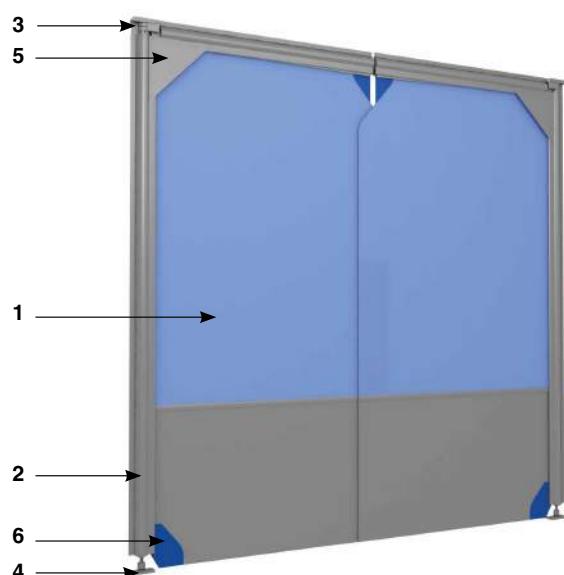
DIMENSIONS OF SINGLE-LEAF SWING PVC DOORS								
	Width, mm							
Height, mm	800	900	1 000	1 100	1 200	1 300	1 400	1 500
2 000								
2 100								
2 200								
2 300								
2 400								
2 500								
2 600								
2 700								
2 800								
2 900								
3 000								

DIMENSIONS OF DOUBLE-LEAF SWING PVC DOORS																			
	Width, mm																		
Height, mm	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000
2000																			
2100																			
2200																			
2300																			
2400																			
2500																			
2600																			
2700																			
2800																			
2900																			
3000																			

## TECHNICAL SPECIFICATIONS

	Standard film	Frost-resistant
Density	1.22 g/cm <sup>3</sup>	1.18 g/cm <sup>3</sup>
Hardness	75 HSA	63 HSA
Tear resistance	16 N/mm <sup>2</sup>	11.5 N/mm <sup>2</sup>
Elongation	340 %	390 %
Heat transfer		0.14 W/m °C
Inflammability		Damp, not burn
Moisture absorption	0.1	0.12
Transparency		80 %
Light resistance		not change
Noise absorption		35 Db
Minimal operation temperature	-15°C	-30°C

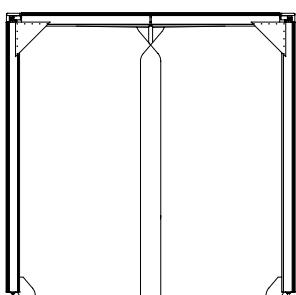
## CONSTRUCTION



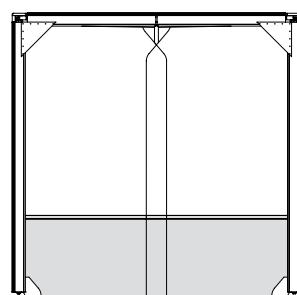
1. PVC door leaf
2. Aluminium profile
3. Swing mechanism
4. Support
5. Gusset
6. Protection plates

The bearing frame of the door is made of round-shaped aluminium profiles, which are connected to each other using «vane» connection bracket. An additional seal is installed in the profile to ensure sealing of the door. The door leaf is made of PVC. The swing mechanism is a spring based system designed to return the door in closed position.

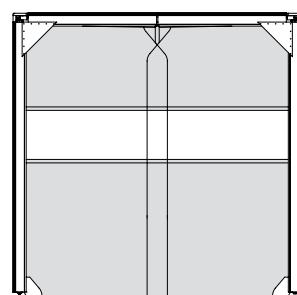
## DOOR CURTAIN DESIGN



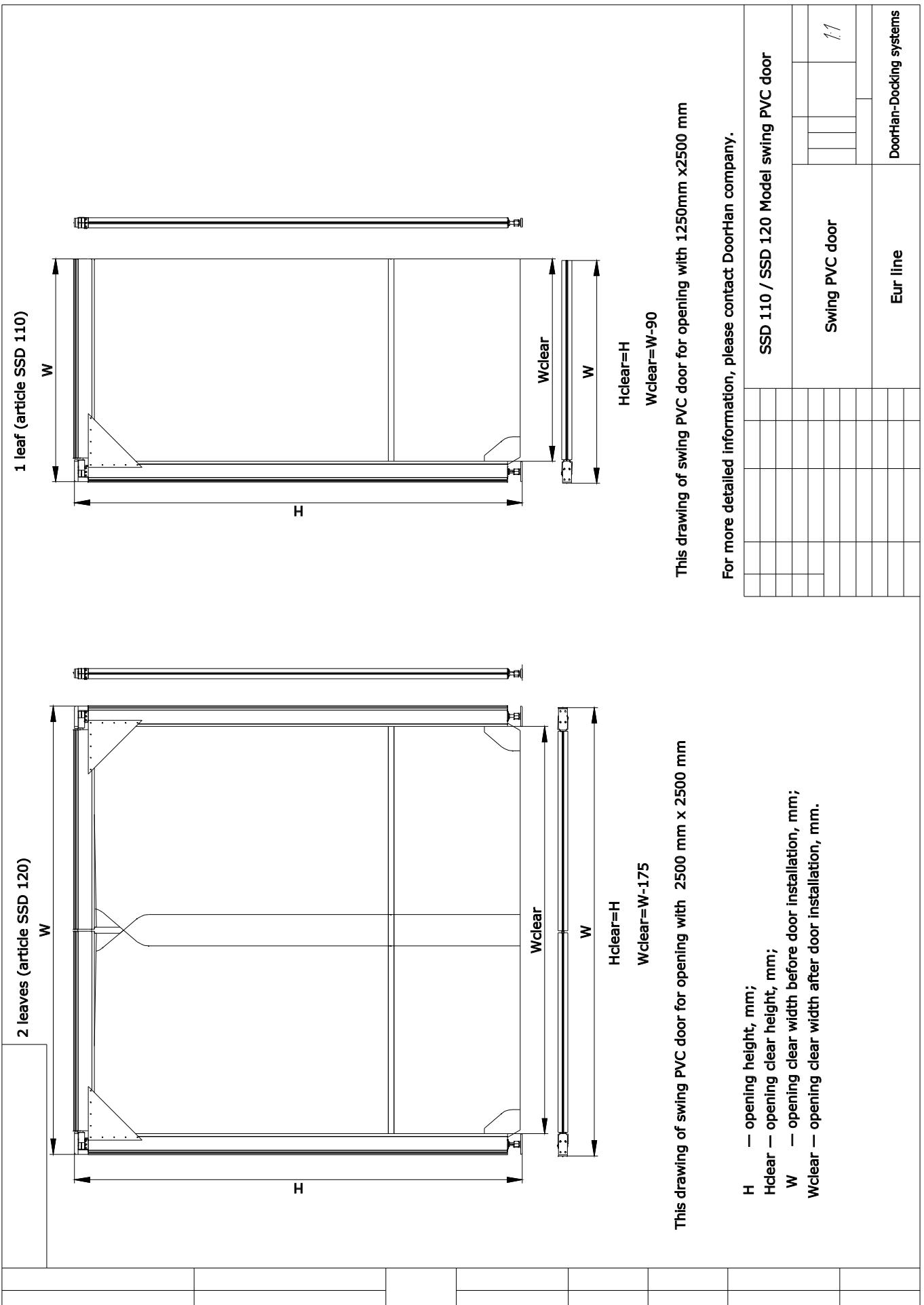
Transparent curtain



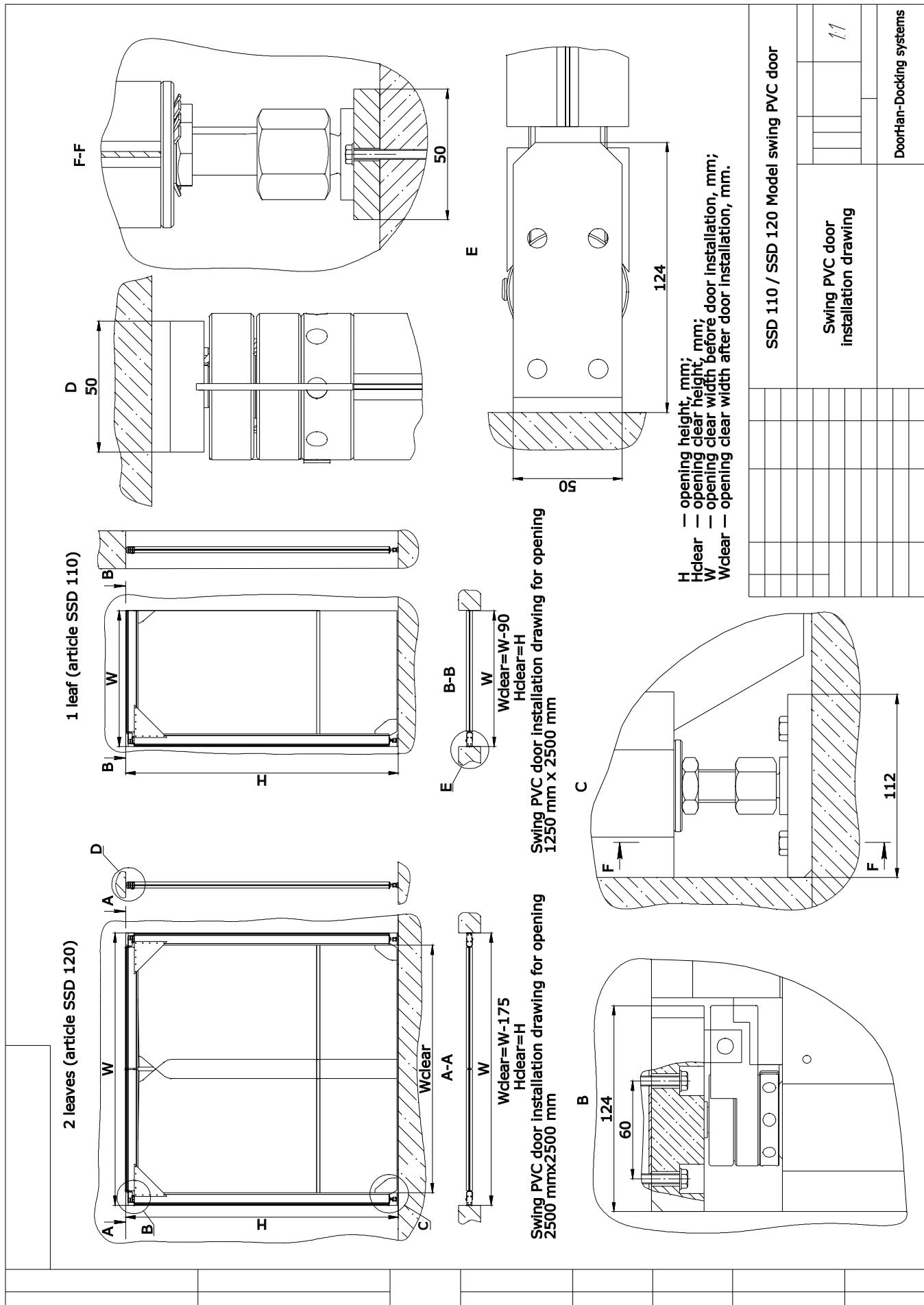
Transparent upper part, non-transparent bottom part



Curtain with vision panel



# SWING PVC DOOR INSTALLATION DRAWING



# HIGH-SPEED ROLL-UP DOORS

DoorHan High-Speed Roll-Up Door curtain fabrics are made from durable polyester (700–1700 g/m<sup>2</sup>) with embedded vision panels to provide a view of areas on the opposite side of the doors. Our unique doors provide high traffic through-put capacity while minimizing heat losses. Thanks to our doors' rapid operation indoor climates can be maintained even with heavy traffic. DoorHan doors can be configured for a wide range of opening and closing speeds, allowing you to precisely set the best speed for your application.

Door curtains are made without any rigid pieces, making them safe for use by equipment and staff. DoorHan high-speed doors are self-repairing, meaning that if door curtains come off of their track (for example, in the event of impact with a forklift) the system will automatically guide the curtain back into the track on the next cycle.

DynamicRoll side frames and tracks are made from galvanized steel, or can be custom-ordered in stainless steel and painted various RAL colours. Modular construction allows easy interchange of door parts.

## DYNAMICROLL BASIS DOORS (FOR EXTERIOR OPENINGS)



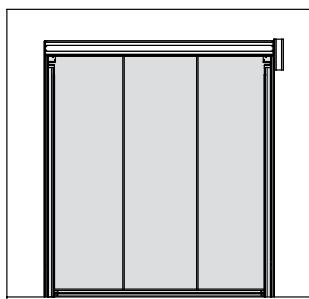
### TECHNICAL SPECIFICATIONS AND DIMENSIONS

TECHNICAL SPECIFICATIONS AND DIMENSIONS	
Maximum size, W × H	7 000 × 5 400 mm
Minimum size, W × H	1 000 × 1 000 mm
Wind load	for doors up to 3 500 mm wide — CLASS3 (120 km/h), up to 4 500 mm — CLASS2 (90 km/h)
Opening speed	for doors up to 5 000 mm wide — 2.5 m/s, 5 000 mm and wider — 1.2 m/s
Closing speed	0.8 m/s
Working temperature range	from -15 to +70°C — if drive is installed indoors; from -5 to +70°C — if drive is installed outdoors; from -35 to +70°C — with drive and side frame heating systems
Drive system	supply voltage — 220 V/50 Hz; power — 1.5 kW; safety class — IP65; final shaft position indicated by encoder
Power supply	220 V/50 Hz; single phase
Operating life	1 500 000 cycles

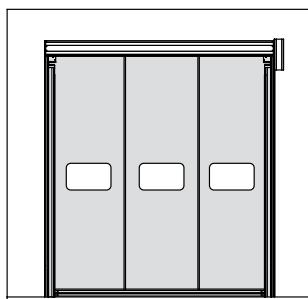
## CONFIGURATION AND DESIGN

PACKAGE		
	Standard	Optional
<b>Hardware materials</b>	frame and side — galvanized steel; drive shaft — galvanized steel D = 90/130 mm; track guides — extruded polyethylene; curtain — light-proof reinforced PVC, 1 200 g/m <sup>2</sup> density; vision panels — 1 mm thick translucent PVC	frame and side — stainless steel class Aisi304, Aisi316
<b>Door curtain fabric colours</b>	pure white (RAL 9010), opal green (RAL 6026), ultramarine blue (RAL 5002), carmine red (RAL 3002), signal yellow (RAL 1003), white aluminium (RAL 9006), pure orange (RAL 2004)	other colours are available on request
<b>Control box</b>	painted steel housing; size — 300 × 400 × 150 mm; safety class — IP65; variable speed drive	stainless steel Aisi304 housing
<b>Safety features</b>	a pair of photo cells installed 500 mm from floor level to correct opening errors caused by improper unrolling of door curtain	a pair of photo cells installed at top of side frames to correct opening errors caused by improper unrolling of door curtain; when door's soft lower edge impacts an object while closing a sensor sends a radio signal to the control box and the door immediately opens; doors will open automatically about 2 000 mm if a power failure occurs via a counterweight

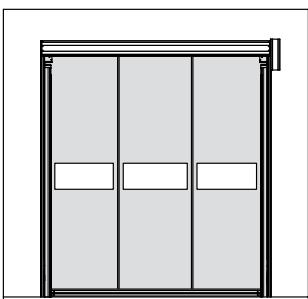
## DOOR CURTAIN DESIGN



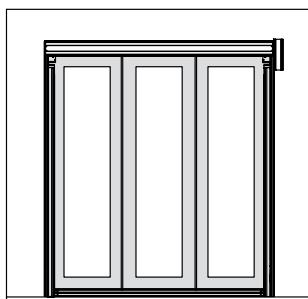
Curtain without windows



Curtain with semi-round windows

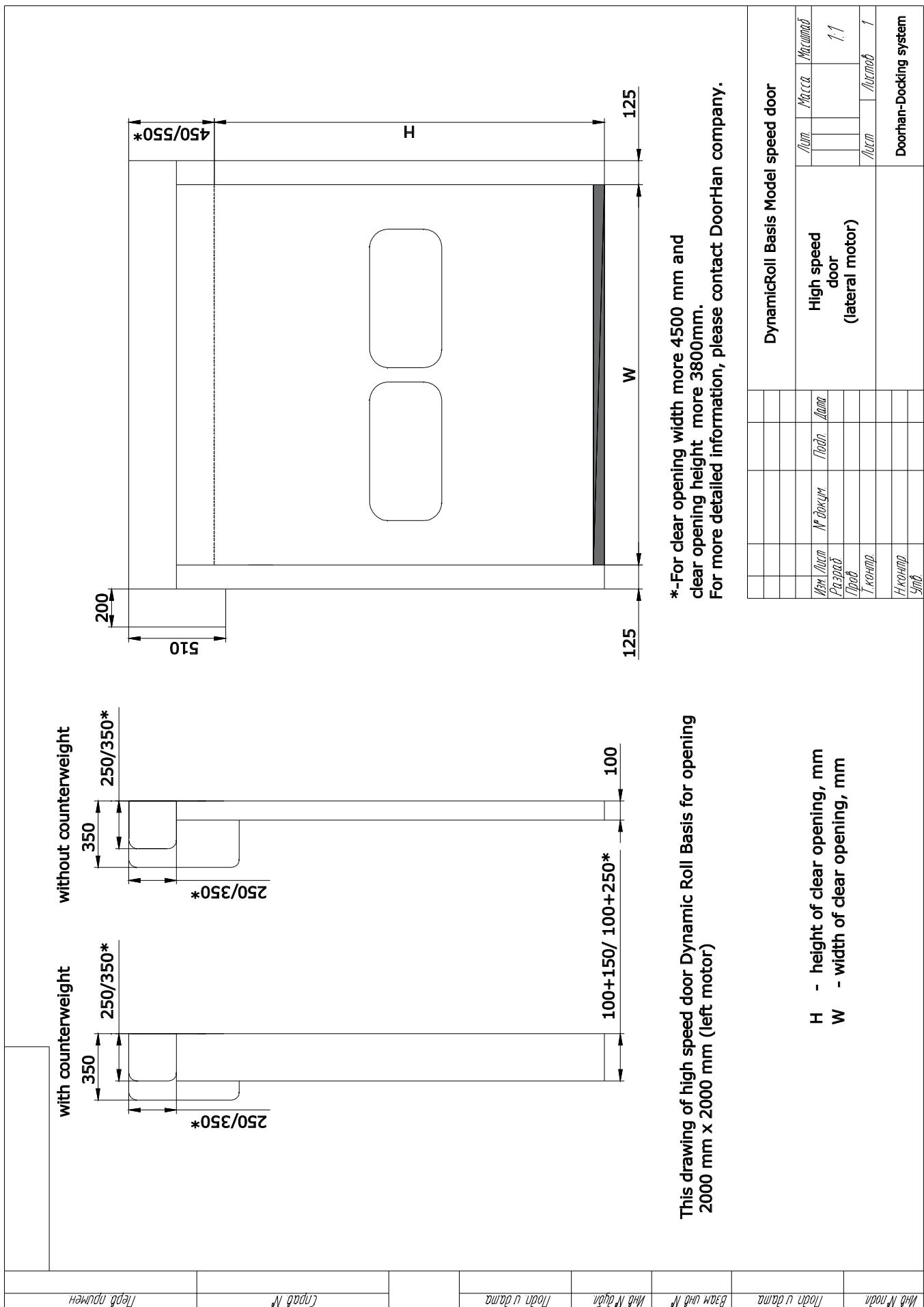


Curtain with square windows



Transparent curtain with signal stripes

**HIGH SPEED DOOR  
(LATERAL MOTOR)**

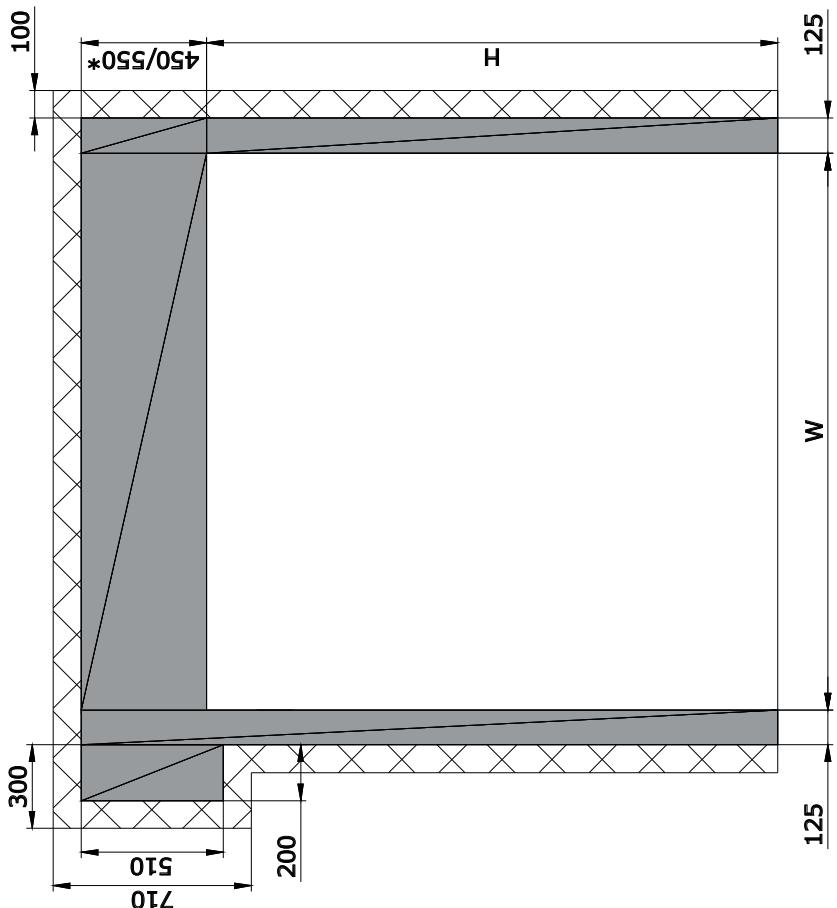


This drawing of high speed door Dynamic Roll Basis for opening  
2000 mm x 2000 mm (left motor)

\*-For clear opening width more 4500 mm and  
clear opening height more 3800mm.  
For more detailed information, please contact DoorHan company.

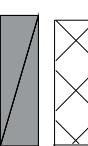
DynamicRoll Basis Model speed door					
Model /Name	Name design	Model	Model	Model	Model
Door height					
Door width					
Door thickness					
Door weight					
Door handle					
Door lock					
Door seal					
Door hinge					
Door frame					
Door track					
Door lock					
Door handle					
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Door frame					
Door track			</		

**HIGH SPEED DOOR  
(LATERAL MOTOR)**



\*-For clear opening width more 4500 mm and  
clear opening height more 3800mm.  
For more detailed information, please contact DoorHan company.

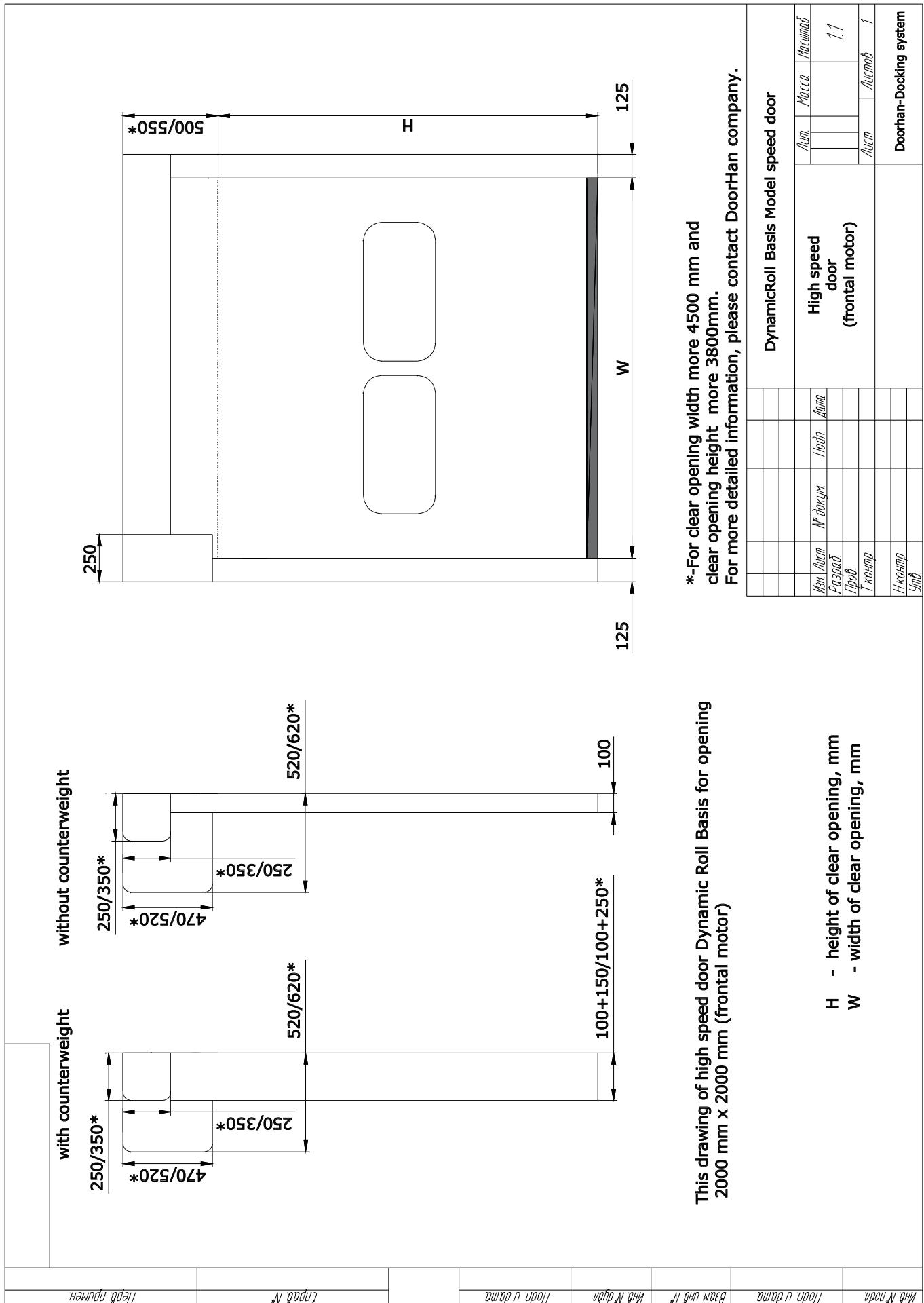
Surface under high speed door  
Free space, required for installation  
This drawing of high speed door Dynamic Roll Basis for opening  
2000 mm x 2000 mm (left motor)



DynamicRoll Basis Model speed door					
№п/р	№п/р	№п/р	№п/р	№п/р	№п/р
Лівий	Лівий	Лівий	Лівий	Лівий	Лівий
Двері	Двері	Двері	Двері	Двері	Двері
1	1	1	1	1	1
Doorhan-Docking system					

H - height of clear opening, mm  
W - width of clear opening, mm

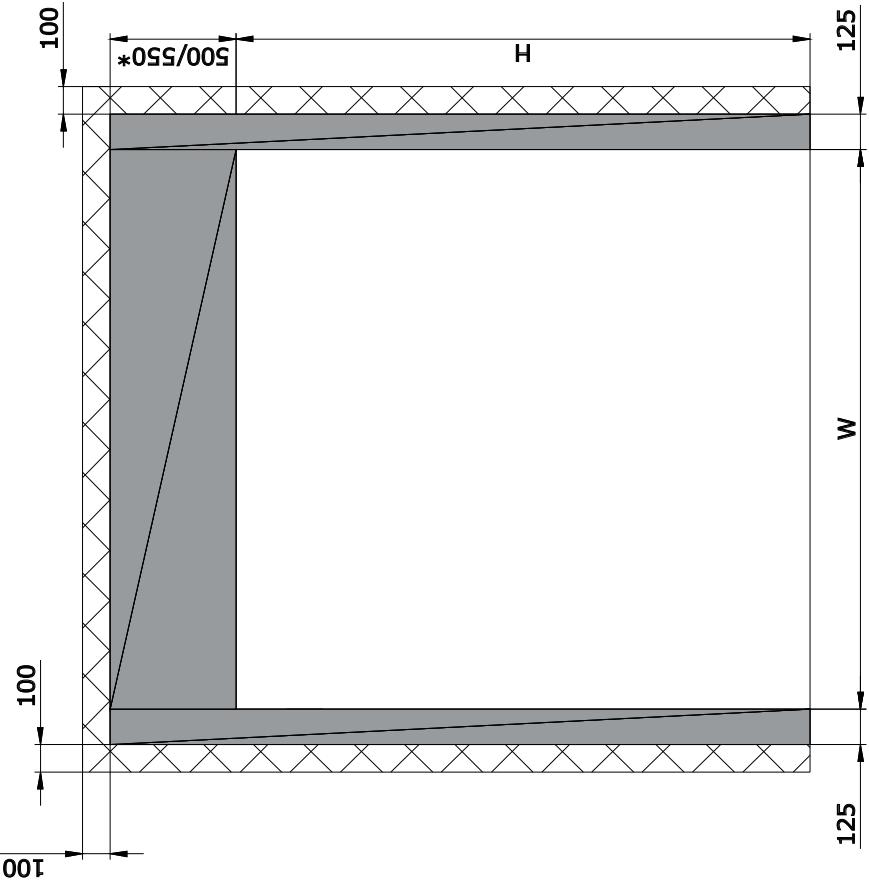
## **HIGH SPEED DOOR (FRONTAL MOTOR)**



This drawing of high speed door Dynamic Roll Basis for opening  
2000 mm x 2000 mm (frontal motor)

\*-For clear opening width more 4500 mm and clear opening height more 3800mm.  
For more detailed information, please contact DoorHan company.

**HIGH SPEED DOOR  
(FRONTAL MOTOR)**

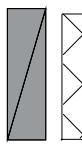


\* For clear opening width more 4500 mm and  
clear opening height more 3800mm.  
For more detailed information, please contact DoorHan company.

DynamicRoll Basis Model speed door

Model	Width	Height	Door type	Door weight	Door thickness	Door handle
DynamicRoll Basis Model speed door	1000 mm	2000 mm	Sliding door	100 kg	10 mm	1/1
	1200 mm	2000 mm	Sliding door	120 kg	10 mm	1/1
	1400 mm	2000 mm	Sliding door	140 kg	10 mm	1/1
	1600 mm	2000 mm	Sliding door	160 kg	10 mm	1/1
	1800 mm	2000 mm	Sliding door	180 kg	10 mm	1/1
	2000 mm	2000 mm	Sliding door	200 kg	10 mm	1/1
	2200 mm	2000 mm	Sliding door	220 kg	10 mm	1/1
	2400 mm	2000 mm	Sliding door	240 kg	10 mm	1/1
	2600 mm	2000 mm	Sliding door	260 kg	10 mm	1/1
	2800 mm	2000 mm	Sliding door	280 kg	10 mm	1/1
	3000 mm	2000 mm	Sliding door	300 kg	10 mm	1/1
	3200 mm	2000 mm	Sliding door	320 kg	10 mm	1/1
	3400 mm	2000 mm	Sliding door	340 kg	10 mm	1/1
	3600 mm	2000 mm	Sliding door	360 kg	10 mm	1/1
	3800 mm	2000 mm	Sliding door	380 kg	10 mm	1/1
	4000 mm	2000 mm	Sliding door	400 kg	10 mm	1/1
	4200 mm	2000 mm	Sliding door	420 kg	10 mm	1/1
	4400 mm	2000 mm	Sliding door	440 kg	10 mm	1/1
	4600 mm	2000 mm	Sliding door	460 kg	10 mm	1/1
	4800 mm	2000 mm	Sliding door	480 kg	10 mm	1/1
	5000 mm	2000 mm	Sliding door	500 kg	10 mm	1/1
	5200 mm	2000 mm	Sliding door	520 kg	10 mm	1/1
	5400 mm	2000 mm	Sliding door	540 kg	10 mm	1/1
	5600 mm	2000 mm	Sliding door	560 kg	10 mm	1/1
	5800 mm	2000 mm	Sliding door	580 kg	10 mm	1/1
	6000 mm	2000 mm	Sliding door	600 kg	10 mm	1/1
	6200 mm	2000 mm	Sliding door	620 kg	10 mm	1/1
	6400 mm	2000 mm	Sliding door	640 kg	10 mm	1/1
	6600 mm	2000 mm	Sliding door	660 kg	10 mm	1/1
	6800 mm	2000 mm	Sliding door	680 kg	10 mm	1/1
	7000 mm	2000 mm	Sliding door	700 kg	10 mm	1/1
	7200 mm	2000 mm	Sliding door	720 kg	10 mm	1/1
	7400 mm	2000 mm	Sliding door	740 kg	10 mm	1/1
	7600 mm	2000 mm	Sliding door	760 kg	10 mm	1/1
	7800 mm	2000 mm	Sliding door	780 kg	10 mm	1/1
	8000 mm	2000 mm	Sliding door	800 kg	10 mm	1/1
	8200 mm	2000 mm	Sliding door	820 kg	10 mm	1/1
	8400 mm	2000 mm	Sliding door	840 kg	10 mm	1/1
	8600 mm	2000 mm	Sliding door	860 kg	10 mm	1/1
	8800 mm	2000 mm	Sliding door	880 kg	10 mm	1/1
	9000 mm	2000 mm	Sliding door	900 kg	10 mm	1/1
	9200 mm	2000 mm	Sliding door	920 kg	10 mm	1/1
	9400 mm	2000 mm	Sliding door	940 kg	10 mm	1/1
	9600 mm	2000 mm	Sliding door	960 kg	10 mm	1/1
	9800 mm	2000 mm	Sliding door	980 kg	10 mm	1/1
	10000 mm	2000 mm	Sliding door	1000 kg	10 mm	1/1
	10200 mm	2000 mm	Sliding door	1020 kg	10 mm	1/1
	10400 mm	2000 mm	Sliding door	1040 kg	10 mm	1/1
	10600 mm	2000 mm	Sliding door	1060 kg	10 mm	1/1
	10800 mm	2000 mm	Sliding door	1080 kg	10 mm	1/1
	11000 mm	2000 mm	Sliding door	1100 kg	10 mm	1/1
	11200 mm	2000 mm	Sliding door	1120 kg	10 mm	1/1
	11400 mm	2000 mm	Sliding door	1140 kg	10 mm	1/1
	11600 mm	2000 mm	Sliding door	1160 kg	10 mm	1/1
	11800 mm	2000 mm	Sliding door	1180 kg	10 mm	1/1
	12000 mm	2000 mm	Sliding door	1200 kg	10 mm	1/1
	12200 mm	2000 mm	Sliding door	1220 kg	10 mm	1/1
	12400 mm	2000 mm	Sliding door	1240 kg	10 mm	1/1
	12600 mm	2000 mm	Sliding door	1260 kg	10 mm	1/1
	12800 mm	2000 mm	Sliding door	1280 kg	10 mm	1/1
	13000 mm	2000 mm	Sliding door	1300 kg	10 mm	1/1
	13200 mm	2000 mm	Sliding door	1320 kg	10 mm	1/1
	13400 mm	2000 mm	Sliding door	1340 kg	10 mm	1/1
	13600 mm	2000 mm	Sliding door	1360 kg	10 mm	1/1
	13800 mm	2000 mm	Sliding door	1380 kg	10 mm	1/1
	14000 mm	2000 mm	Sliding door	1400 kg	10 mm	1/1
	14200 mm	2000 mm	Sliding door	1420 kg	10 mm	1/1
	14400 mm	2000 mm	Sliding door	1440 kg	10 mm	1/1
	14600 mm	2000 mm	Sliding door	1460 kg	10 mm	1/1
	14800 mm	2000 mm	Sliding door	1480 kg	10 mm	1/1
	15000 mm	2000 mm	Sliding door	1500 kg	10 mm	1/1
	15200 mm	2000 mm	Sliding door	1520 kg	10 mm	1/1
	15400 mm	2000 mm	Sliding door	1540 kg	10 mm	1/1
	15600 mm	2000 mm	Sliding door	1560 kg	10 mm	1/1
	15800 mm	2000 mm	Sliding door	1580 kg	10 mm	1/1
	16000 mm	2000 mm	Sliding door	1600 kg	10 mm	1/1
	16200 mm	2000 mm	Sliding door	1620 kg	10 mm	1/1
	16400 mm	2000 mm	Sliding door	1640 kg	10 mm	1/1
	16600 mm	2000 mm	Sliding door	1660 kg	10 mm	1/1
	16800 mm	2000 mm	Sliding door	1680 kg	10 mm	1/1
	17000 mm	2000 mm	Sliding door	1700 kg	10 mm	1/1
	17200 mm	2000 mm	Sliding door	1720 kg	10 mm	1/1
	17400 mm	2000 mm	Sliding door	1740 kg	10 mm	1/1
	17600 mm	2000 mm	Sliding door	1760 kg	10 mm	1/1
	17800 mm	2000 mm	Sliding door	1780 kg	10 mm	1/1
	18000 mm	2000 mm	Sliding door	1800 kg	10 mm	1/1
	18200 mm	2000 mm	Sliding door	1820 kg	10 mm	1/1
	18400 mm	2000 mm	Sliding door	1840 kg	10 mm	1/1
	18600 mm	2000 mm	Sliding door	1860 kg	10 mm	1/1
	18800 mm	2000 mm	Sliding door	1880 kg	10 mm	1/1
	19000 mm	2000 mm	Sliding door	1900 kg	10 mm	1/1
	19200 mm	2000 mm	Sliding door	1920 kg	10 mm	1/1
	19400 mm	2000 mm	Sliding door	1940 kg	10 mm	1/1
	19600 mm	2000 mm	Sliding door	1960 kg	10 mm	1/1
	19800 mm	2000 mm	Sliding door	1980 kg	10 mm	1/1
	20000 mm	2000 mm	Sliding door	2000 kg	10 mm	1/1

Surface under high speed door



This drawing of high speed door Dynamic Roll Basis for opening  
2000 mm x 2000 mm (frontal motor)

Free space, required for installation



H - height of clear opening, mm  
W - width of clear opening, mm

# DYNAMICROLL PLUS DOORS (FOR OUTDOOR APPLICATION)



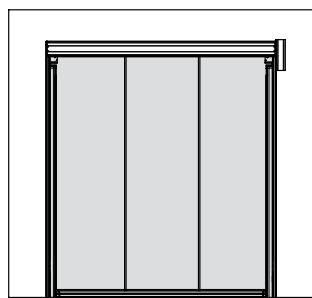
## TECHNICAL SPECIFICATIONS AND DIMENSIONS

TECHNICAL SPECIFICATIONS AND DIMENSIONS	
<b>Maximum size, W × H</b>	7 000 × 5 400 mm
<b>Minimum size, W × H</b>	1 000 × 1 000 mm
<b>Wind load</b>	for doors up to 3 500 mm wide— CLASS3 (120 km/h), up to 4 500 mm — CLASS2 (90 km/h)
<b>Opening speed</b>	for doors up to 5 000 mm wide— 2.5 m/s, 5 000 mm and wider— 1.2 m/s
<b>Closing speed</b>	0.8 m/s
<b>Working temperature range</b>	from -15 to +70°C — if drive is installed indoors; from -5 to +70°C — if drive is installed outdoors; from -35 to +70°C — with drive and side frame heating systems
<b>Drive system</b>	supply voltage — 220 V/50 Hz; power — 1.5 kW; safety class — IP65; final shaft position indicated by encoder
<b>Power supply</b>	220 V/50 Hz; single phase
<b>Operating life</b>	1 500 000 cycles

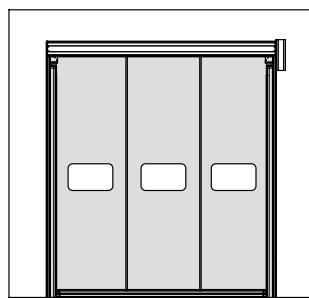
## CONFIGURATION AND DESIGN

PACKAGE		
	Standard	Optional
<b>Hardware materials</b>	frame and side — galvanized steel; drive shaft — galvanized steel D = 90/130 mm; track guides — extruded polyethylene; curtain — light-proof reinforced PVC, 1 200 g/m <sup>2</sup> density; vision panels — 1 mm thick translucent PVC	frame and side — stainless steel class Aisi304, Aisi316
<b>Door curtain fabric colours</b>	pure white (RAL 9010), opal green (RAL 6026), ultramarine blue (RAL 5002), carmine red (RAL 3002), signal yellow (RAL 1003), white aluminium (RAL 9006), pure orange (RAL 2004)	other colours are available on request
<b>Control box</b>	painted steel housing; size — 300 × 400 × 150 mm; safety class — IP65; variable speed drive	stainless steel Aisi304 housing
<b>Safety features</b>	meets European Standard En 13241 CE; a pair of photo cells installed 500 mm from floor level to correct opening errors caused by improper unrolling of door curtain	a pair of photo cells installed at top of side frames to correct opening errors caused by improper unrolling of door curtain; when door's soft lower edge impacts an object while closing a sensor sends a radio signal to the control box and the door immediately opens; doors will open automatically about 2 000 mm if a power failure occurs via a counterweight

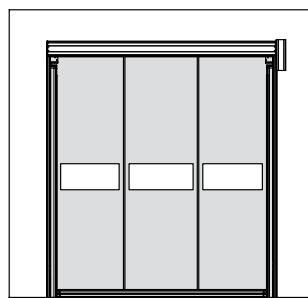
## DOOR CURTAIN DESIGN



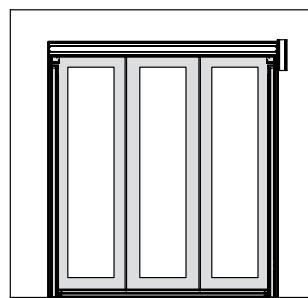
Curtain without vision panels



Curtain with semi-round vision panels

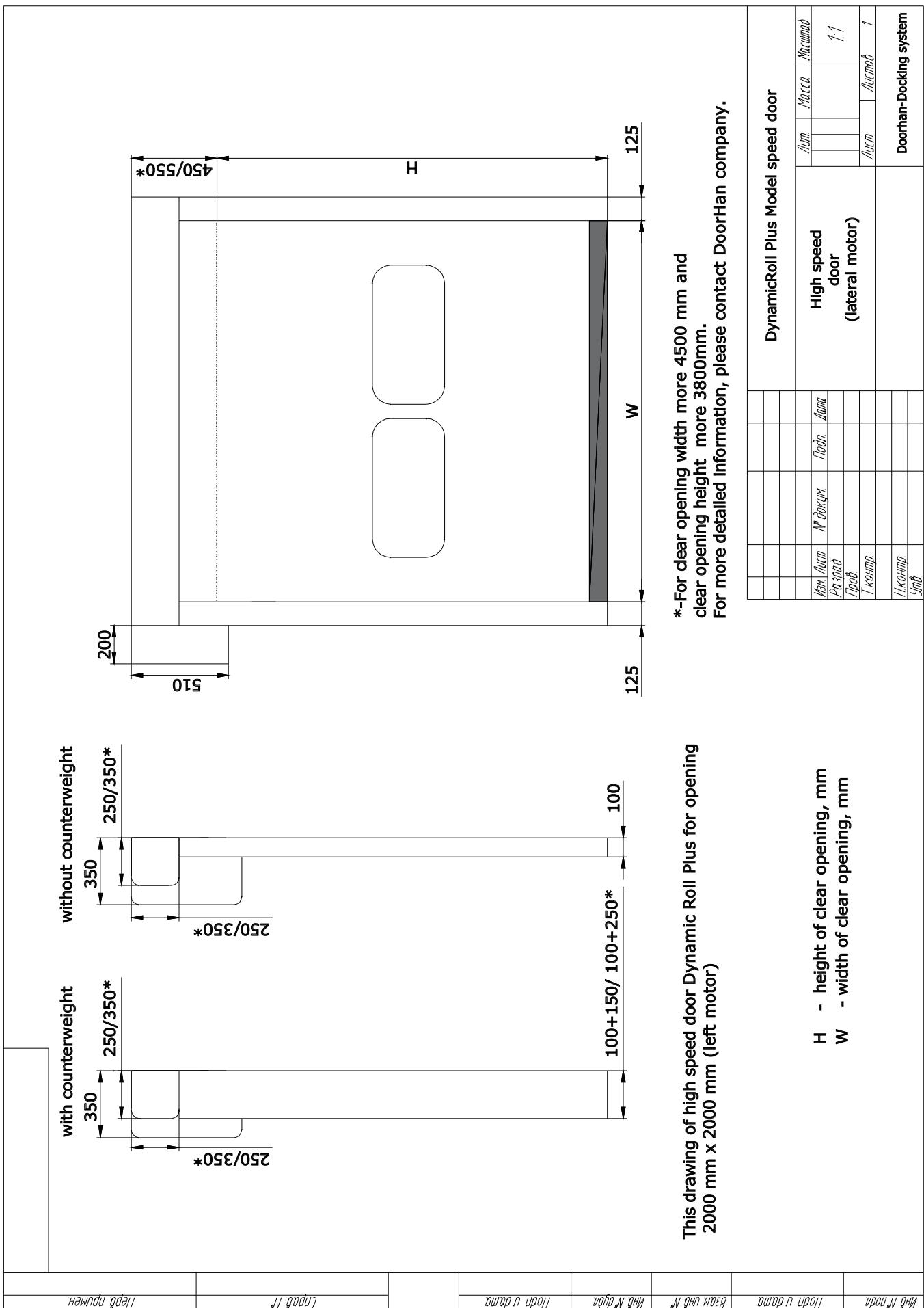


Curtain with square vision panels



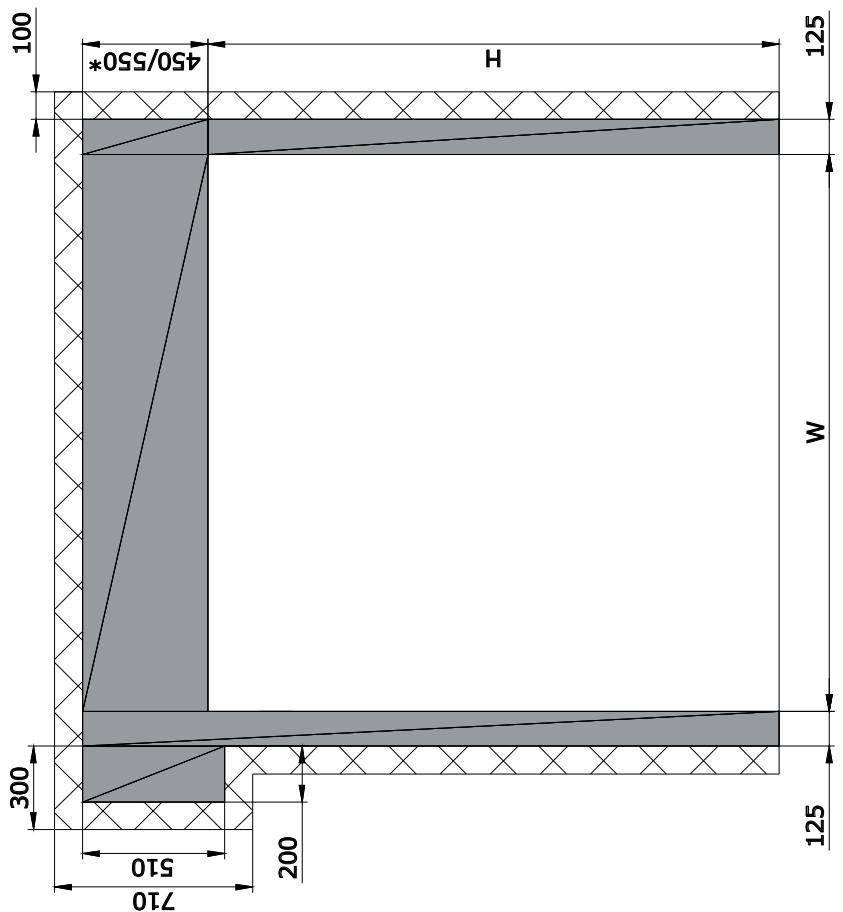
Transparent curtain with signal stripes

## HIGH SPEED DOOR (LATERAL MOTOR)

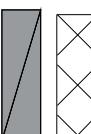


This drawing of high speed door Dynamic Roll Plus for opening 2000 mm x 2000 mm (left motor)

\*-For clear opening width more 4500 mm and  
clear opening height more 3800mm.  
For more detailed information, please contact DoorHan company.



Surface under high speed door



This drawing of high speed door Dynamic Roll Plus for opening 2000 mm x 2000 mm (left motor)

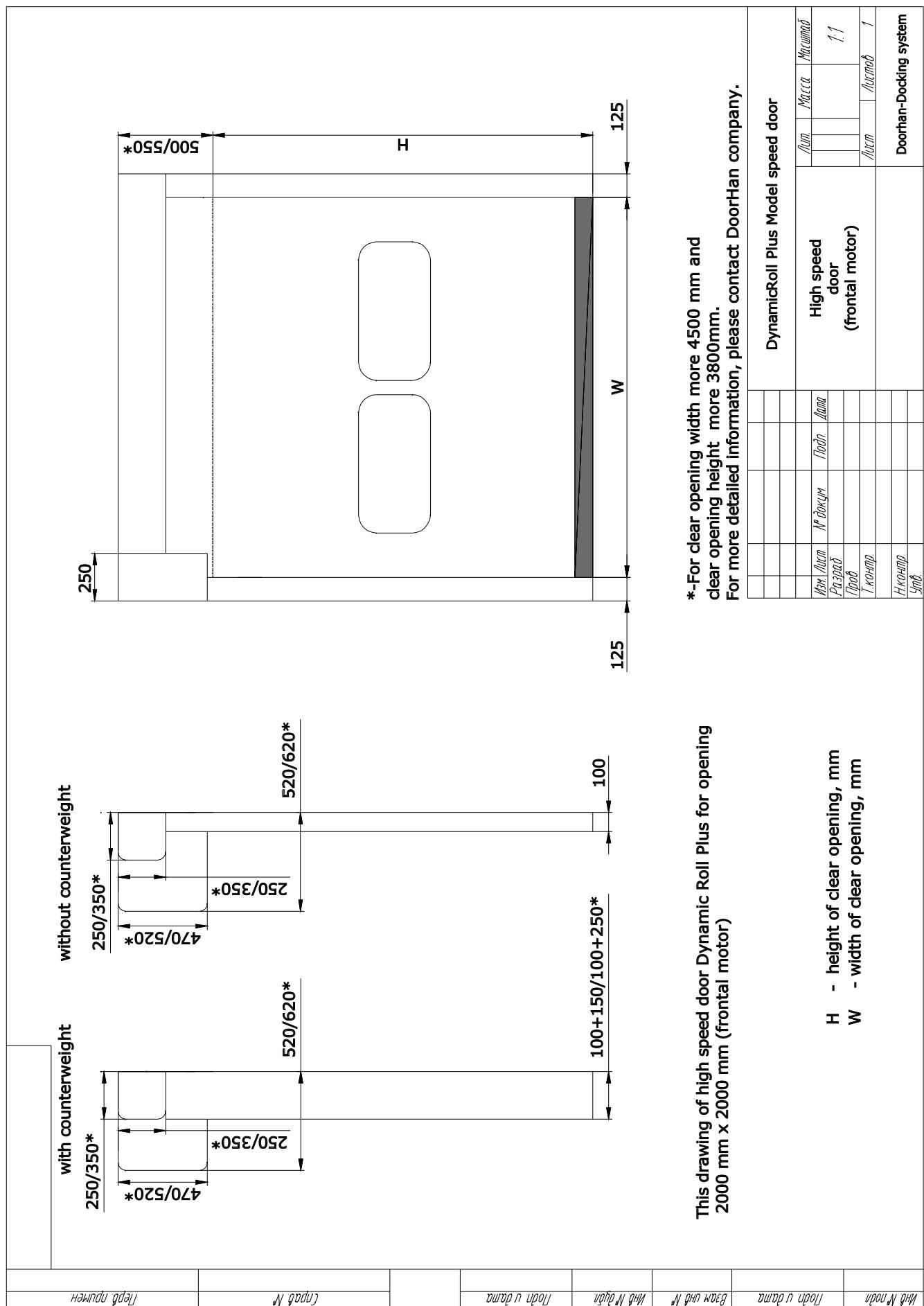
**\*-For clear opening width more 4500 mm and  
clear opening height more 3800mm.  
For more detailed information, Please contact DoorHan company.**

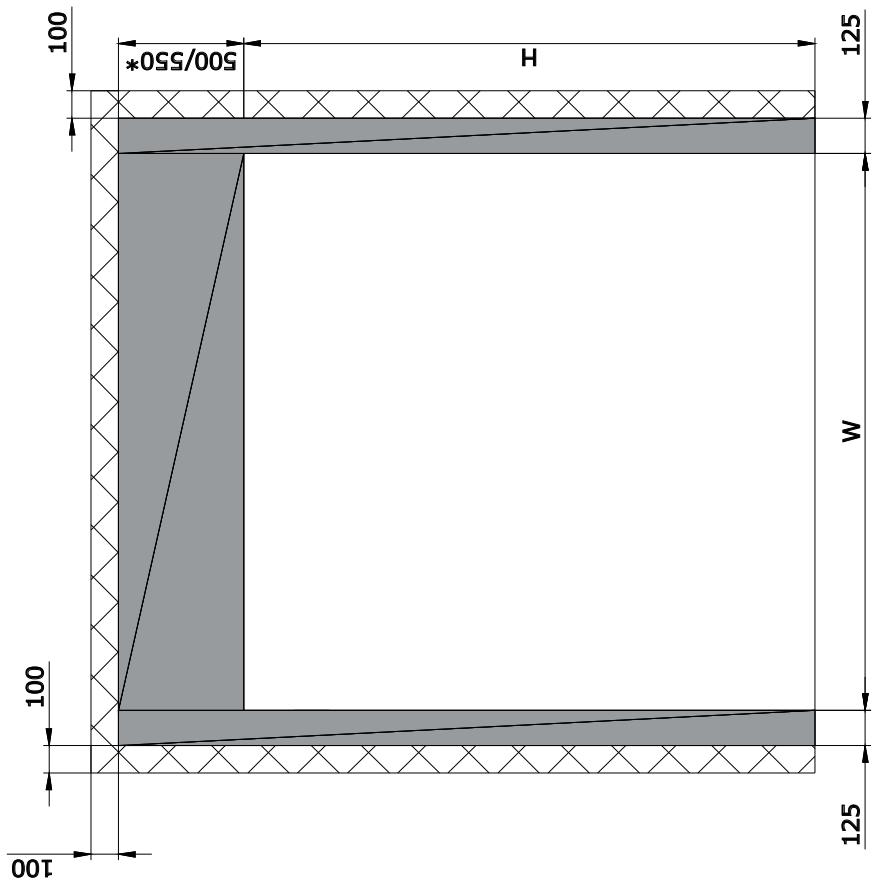
DynamicRoll Plus Model speed door					
Door height mm	Door width mm	Door thickness mm	Door weight kg	High speed	Macca
				door	Macca
2000	1000	10	110	1	1.1
2000	1200	10	130	1	1.1
2000	1500	10	160	1	1.1
2000	1800	10	190	1	1.1
2000	2000	10	210	1	1.1
2000	2200	10	230	1	1.1
2000	2500	10	260	1	1.1
2000	2800	10	280	1	1.1
2000	3000	10	300	1	1.1
2000	3200	10	320	1	1.1
2000	3500	10	350	1	1.1
2000	3800	10	380	1	1.1
2000	4000	10	400	1	1.1
2000	4200	10	420	1	1.1
2000	4500	10	450	1	1.1
2000	4800	10	480	1	1.1
2000	5000	10	500	1	1.1
2000	5200	10	520	1	1.1
2000	5500	10	550	1	1.1
2000	5800	10	580	1	1.1
2000	6000	10	600	1	1.1
2000	6200	10	620	1	1.1
2000	6500	10	650	1	1.1
2000	6800	10	680	1	1.1
2000	7000	10	700	1	1.1
2000	7200	10	720	1	1.1
2000	7500	10	750	1	1.1
2000	7800	10	780	1	1.1
2000	8000	10	800	1	1.1
2000	8200	10	820	1	1.1
2000	8500	10	850	1	1.1
2000	8800	10	880	1	1.1
2000	9000	10	900	1	1.1
2000	9200	10	920	1	1.1
2000	9500	10	950	1	1.1
2000	9800	10	980	1	1.1
2000	10000	10	1000	1	1.1
2000	10200	10	1020	1	1.1
2000	10500	10	1050	1	1.1
2000	10800	10	1080	1	1.1
2000	11000	10	1100	1	1.1
2000	11200	10	1120	1	1.1
2000	11500	10	1150	1	1.1
2000	11800	10	1180	1	1.1
2000	12000	10	1200	1	1.1
2000	12200	10	1220	1	1.1
2000	12500	10	1250	1	1.1
2000	12800	10	1280	1	1.1
2000	13000	10	1300	1	1.1
2000	13200	10	1320	1	1.1
2000	13500	10	1350	1	1.1
2000	13800	10	1380	1	1.1
2000	14000	10	1400	1	1.1
2000	14200	10	1420	1	1.1
2000	14500	10	1450	1	1.1
2000	14800	10	1480	1	1.1
2000	15000	10	1500	1	1.1
2000	15200	10	1520	1	1.1
2000	15500	10	1550	1	1.1
2000	15800	10	1580	1	1.1
2000	16000	10	1600	1	1.1
2000	16200	10	1620	1	1.1
2000	16500	10	1650	1	1.1
2000	16800	10	1680	1	1.1
2000	17000	10	1700	1	1.1
2000	17200	10	1720	1	1.1
2000	17500	10	1750	1	1.1
2000	17800	10	1780	1	1.1
2000	18000	10	1800	1	1.1
2000	18200	10	1820	1	1.1
2000	18500	10	1850	1	1.1
2000	18800	10	1880	1	1.1
2000	19000	10	1900	1	1.1
2000	19200	10	1920	1	1.1
2000	19500	10	1950	1	1.1
2000	19800	10	1980	1	1.1
2000	20000	10	2000	1	1.1
2000	20200	10	2020	1	1.1
2000	20500	10	2050	1	1.1
2000	20800	10	2080	1	1.1
2000	21000	10	2100	1	1.1
2000	21200	10	2120	1	1.1
2000	21500	10	2150	1	1.1
2000	21800	10	2180	1	1.1
2000	22000	10	2200	1	1.1
2000	22200	10	2220	1	1.1
2000	22500	10	2250	1	1.1
2000	22800	10	2280	1	1.1
2000	23000	10	2300	1	1.1
2000	23200	10	2320	1	1.1
2000	23500	10	2350	1	1.1
2000	23800	10	2380	1	1.1
2000	24000	10	2400	1	1.1
2000	24200	10	2420	1	1.1
2000	24500	10	2450	1	1.1
2000	24800	10	2480	1	1.1
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2000	25200	10	2520	1	1.1
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2000	25800	10	2580	1	1.1
2000	26000	10	2600	1	1.1
2000	26200	10	2620	1	1.1
2000	26500	10	2650	1	1.1
2000	26800	10	2680	1	1.1
2000	27000	10	2700	1	1.1
2000	27200	10	2720	1	1.1
2000	27500	10	2750	1	1.1
2000	27800	10	2780	1	1.1
2000	28000	10	2800	1	1.1
2000	28200	10	2820	1	1.1
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2000	28800	10	2880	1	1.1
2000	29000	10	2900	1	1.1
2000	29200	10	2920	1	1.1
2000	29500	10	2950	1	1.1
2000	29800	10	2980	1	1.1
2000	30000	10	3000	1	1.1
2000	30200	10	3020	1	1.1
2000	30500	10	3050	1	1.1
2000	30800	10	3080	1	1.1
2000	31000	10	3100	1	1.1
2000	31200	10	3120	1	1.1
2000	31500	10	3150	1	1.1
2000	31800	10	3180	1	1.1
2000	32000	10	3200	1	1.1
2000	32200	10	3220	1	1.1
2000	32500	10	3250	1	1.1
2000	32800	10	3280	1	1.1
2000	33000	10	3300	1	1.1
2000	33200	10	3320	1	1.1
2000	33500	10	3350	1	1.1
2000	33800	10	3380	1	1.1
2000	34000	10	3400	1	1.1
2000	34200	10	3420	1	1.1
2000	34500	10	3450	1	1.1
2000	34800	10	3480	1	1.1
2000	35000	10	3500	1	1.1
2000	35200	10	3520	1	1.1
2000	35500	10	3550	1	1.1
2000	35800	10	3580	1	1.1
2000	36000	10	3600	1	1.1
2000	36200	10	3620	1	1.1
2000	36500	10	3650	1	1.1
2000	36800	10	3680	1	1.1
2000	37000	10	3700	1	1.1
2000	37200	10	3720	1	1.1
2000	37500	10	3750	1	1.1
2000	37800	10	3780	1	1.1
2000	38000	10	3800	1	1.1
2000	38200	10	3820	1	1.1
2000	38500	10	3850	1	1.1
2000	38800	10	3880	1	1.1
2000	39000	10	3900	1	1.1
2000	39200	10	3920	1	1.1
2000	39500	10	3950	1	1.1
2000	39800	10	3980	1	1.1
2000	40000	10	4000	1	1.1
2000	40200	10	4020	1	1.1
2000	40500	10	4050	1	1.1
2000	40800	10	4080	1	1.1
2000	41000	10	4100	1	1.1
2000	41200	10	4120	1	1.1
2000	41500	10	4150	1	1.1
2000	41800	10	4180	1	1.1
2000	42000	10	4200	1	1.1
2000	42200	10	4220	1	1.1
2000	42500	10	4250	1	1.1
2000	42800	10	4280	1	1.1
2000	43000	10	4300	1	1.1
2000	43200	10	4320	1	1.1
2000	43500	10	4350	1	1.1
2000	43800	10	4380	1	1.1
2000	44000	10	4400	1	1.1
2000	44200	10	4420	1	1.1
2000	44500	10	4450	1	1.1
2000	44800	10	4480	1	1.1
2000	45000	10	4500	1	1.1
2000	45200	10	4520	1	1.1
2000	45500	10	4550	1	1.1
2000	45800	10	4580	1	1.1
2000	46000	10	4600	1	1.1
2000	46200	10	4620	1	1.1
2000	46500	10	4650	1	1.1
2000	46800	10	4680	1	1.1
2000	47000	10	4700	1	1.1
2000	47200	10	4720	1	1.1
2000	47500	10	4750	1	1.1
2000	47800	10	4780	1	1.1
2000	48000	10	4800	1	1.1
2000	48200	10	4820	1	1.1
2000	48500	10	4850	1	1.1
2000	48800	10	4880	1	1.1
2000	49000	10	4900	1	1.1
2000	49200	10	4920	1	1.1
2000	49500	10	4950	1	1.1
2000	49800	10	4980	1	1.1
2000	50000	10	5000	1	1.1
2000	50200	10	5020	1	1.1
2000	50500	10	5050	1	1.1
2000	50800	10	5080	1	1.1
2000	51000	10	5100	1	1.1
2000	51200	10	5120	1	1.1
2000	51500	10	5150	1	1.1
2000	51800	10	5180	1	1.1
2000	52000	10	5200	1	1.1
2000	52200	10	5220	1	1.1
2000	52500	10	5250	1	1.1
2000	52800	10	5280	1	1.1
2000	53000	10	5300	1	1.1
2000	53200	10	5320	1	1.1
2000	53500	10	5350	1	1.1
2000	53800	10	5380	1	1.1
2000	54000	10	5400	1	1.1
2000	54200	10	5420	1	1.1
2000	54500	10	5450	1	1.1
2000	54800	10	5480	1	1.1
2000	55000	10	5500	1	1.1
2000	55200	10	5520	1	1.1
2000	55500	10	5550	1	1.1
2000	55800	10	5580	1	1.1
2000	56000	10	5600	1	1.1
2000	56200	10	5620	1	1.1
2000	56500	10	5650	1	1.1
2000	56800	10	5680	1	1.1
2000	57000	10	5700	1	

H - height of clear opening, mm  
W - width of clear opening, mm

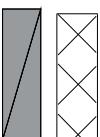
| Whd N node |
|------------|------------|------------|------------|------------|------------|
| Whd N node |

**HIGH SPEED DOOR  
(FRONTAL MOTOR)**





Surface under high speed door



Free space, required for installation

This drawing of high speed door Dynamic Roll Plus for opening 2000 mm x 2000 mm (frontal motor)

\*-For clear opening width more 4500 mm and  
clear opening height more 3800mm.  
For more detailed information, please contact D.

# DYNAMICROLL FOOD DOORS (FOR USE IN THE FOOD PROCESSING PLANTS)



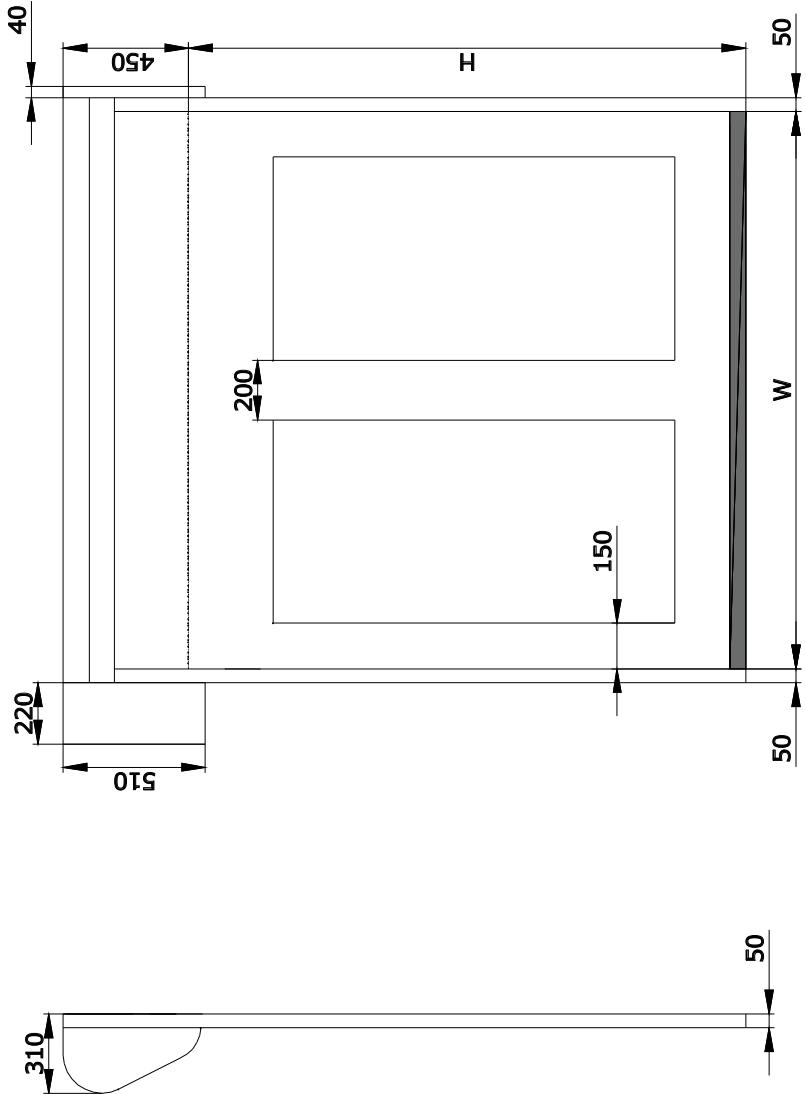
## TECHNICAL SPECIFICATIONS AND DIMENSIONS

TECHNICAL SPECIFICATIONS AND DIMENSIONS	
<b>Maximum size, W × H</b>	4 000 × 4 000 mm
<b>Minimum size, W × H</b>	1 000 × 1 000 mm
<b>Wind load</b>	CLASS1 (80 km/h)
<b>Opening speed</b>	2.5 m/s
<b>Closing speed</b>	0.8 m/s
<b>Working temperature range</b>	from -15 to +70°C — if drive is installed indoors; from -5 to +70°C — if drive is installed outdoors; from -35 to +70°C — with drive and side frame heating systems
<b>Drive system</b>	supply voltage — 220 V/50 Hz; power — 1.5 kW; safety class — IP65; final shaft position indicated by encoder
<b>Power supply</b>	220 V/50 Hz; single phase
<b>Operating life</b>	1 500 000 cycles

## CONFIGURATION AND DESIGN

PACKAGE	Standard	Optional
<b>Hardware materials</b>	frame and side — galvanized steel; drive shaft — galvanized steel D = 90/130 mm; track guides — extruded polyethylene; curtain — light-proof reinforced PVC, 1 200 g/m <sup>2</sup> density; vision panels — 1 mm thick translucent PVC	frame and side — stainless steel class Aisi304, Aisi316
<b>Door curtain fabric colours</b>	pure white (RAL 9010), opal green (RAL 6026), ultramarine blue (RAL 5002), carmine red (RAL 3002), signal yellow (RAL 1003), white aluminium (RAL 9006), pure orange (RAL 2004)	other colours are available on request
<b>Control box</b>	painted steel housing; size — 300 × 400 × 150 mm; safety class — IP65; variable speed drive	stainless steel Aisi304 housing
<b>Safety features</b>	a pair of photo cells installed 500 mm from floor level to correct opening errors caused by improper unrolling of door curtain	a pair of photo cells installed at top of side frames to correct opening errors caused by improper unrolling of door curtain; when door's soft lower edge impacts an object while closing a sensor sends a radio signal to the control box and the door immediately opens

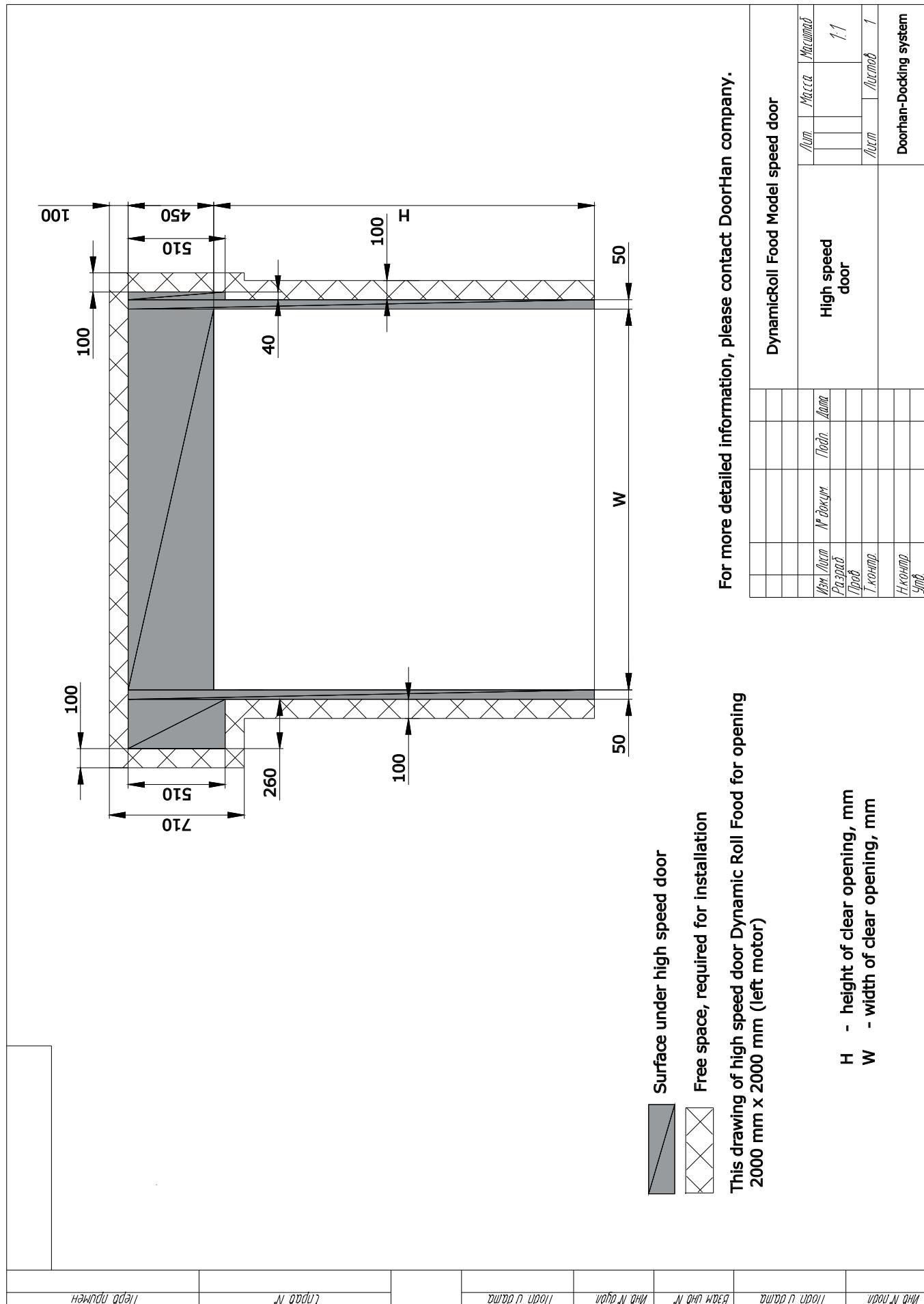
Door curtain is made in accordance with the design specifications provided by the customer.



This drawing of high speed door Dynamic Roll Food for opening 2000 mm x 2000 mm (left motor)

H - height of clear opening, mm  
W - width of clear opening, mm

For more detailed information, please contact DoorHan company.



# DYNAMICROLL FRIGO 2 DOORS (FOR WALK-IN COOLERS AND FREEZERS)



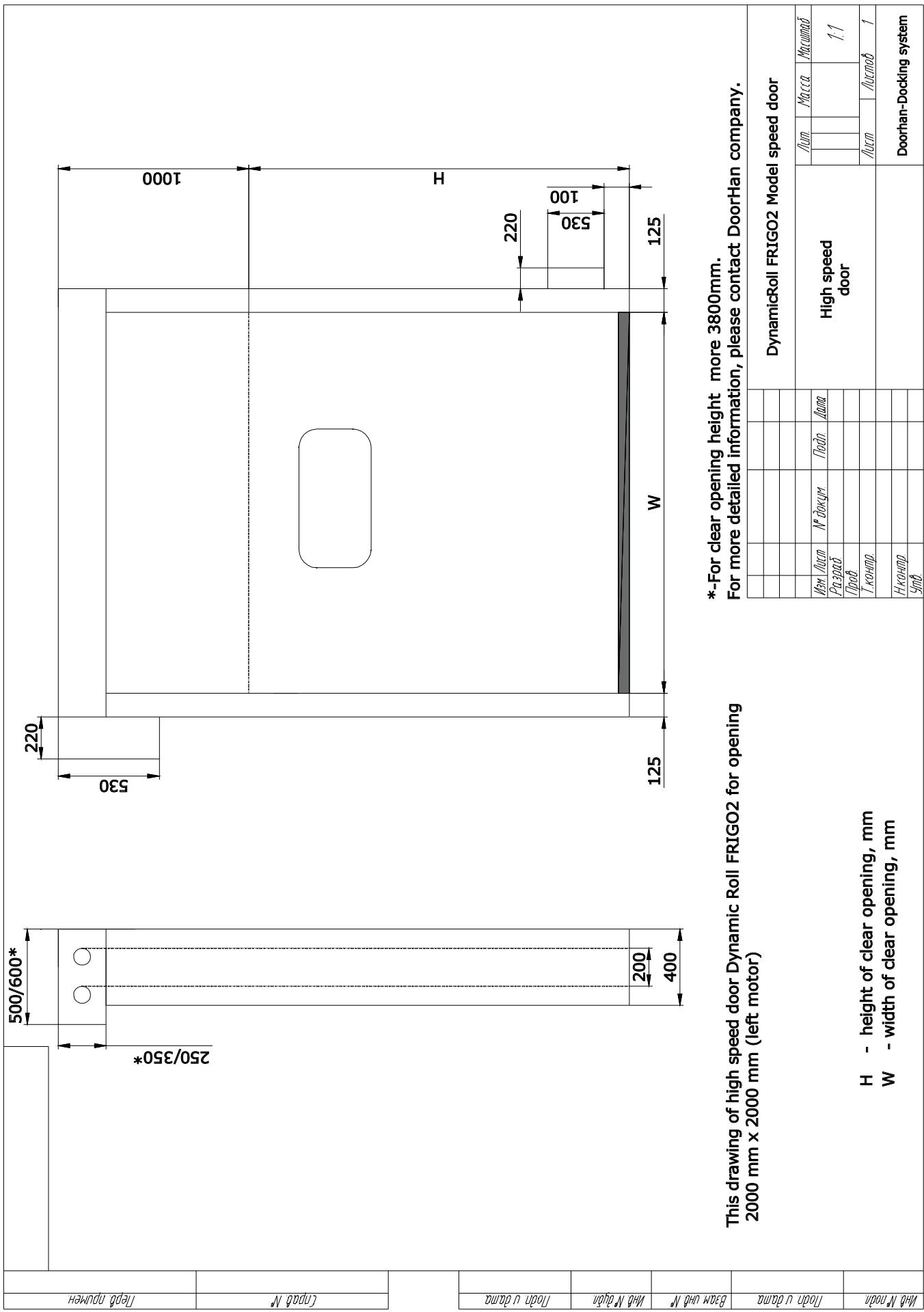
## TECHNICAL SPECIFICATIONS AND DIMENSIONS

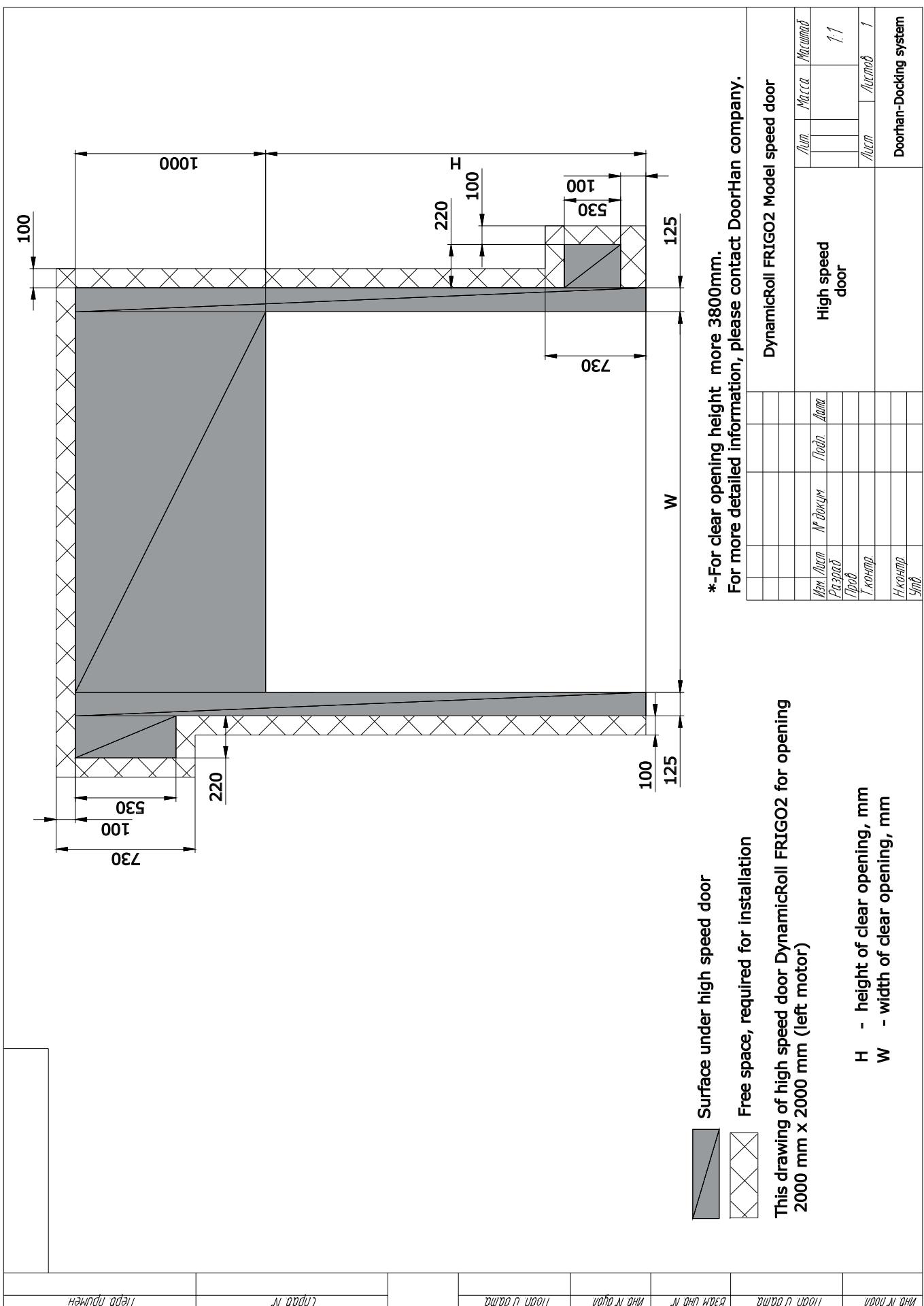
TECHNICAL SPECIFICATIONS AND DIMENSIONS	
<b>Maximum size, W × H</b>	4 500 × 5 000 mm
<b>Minimum size, W × H</b>	1 000 × 1 000 mm
<b>Wind load</b>	CLASS1 (80 km/h)
<b>Opening speed</b>	1 m/s
<b>Closing speed</b>	0.8 m/s
<b>Working temperature range</b>	from -15 to +70°C — if drive is installed indoors; from -5 to +70°C — if drive is installed outdoors; from -35 to +70°C — with drive and side frame heating systems
<b>Drive system</b>	supply voltage — 220 V/50 Hz; power — 1.5 kW; safety class — IP65; final shaft position indicated by encoder
<b>Power supply</b>	220 V/50 Hz; single phase
<b>Operating life</b>	1 500 000 cycles

## CONFIGURATION AND DESIGN

PACKAGE		
	Standard	Optional
<b>Hardware materials</b>	frame and side — galvanized steel; drive shaft — galvanized steel D = 90/130 mm; track guides — extruded polyethylene; curtain — light-proof reinforced PVC, 1 200 g/m <sup>2</sup> density; vision panels — 1 mm thick translucent PVC	frame and side — stainless steel class Aisi304, Aisi316
<b>Door curtain fabric colours</b>	pure white (RAL 9010), opal green (RAL 6026), ultramarine blue (RAL 5002), carmine red (RAL 3002), signal yellow (RAL 1003), white aluminium (RAL 9006), pure orange (RAL 2004)	other colours are available on request
<b>Control box</b>	painted steel housing; size — 300 × 400 × 150 mm; safety class — IP65; variable speed drive	stainless steel Aisi304 housing
<b>Safety features</b>	a pair of photo cells installed 500 mm from floor level to correct opening errors caused by improper unrolling of door curtain	a pair of photo cells installed at top of side frames to correct opening errors caused by improper unrolling of door curtain; when door's soft lower edge impacts an object while closing a sensor sends a radio signal to the control box and the door immediately opens

Door curtain is made in accordance with the design specifications provided by the customer.





# DYNAMICROLL CB DOORS (FOR CLEAN ROOMS WITH CONTROLLED ENVIRONMENTS)



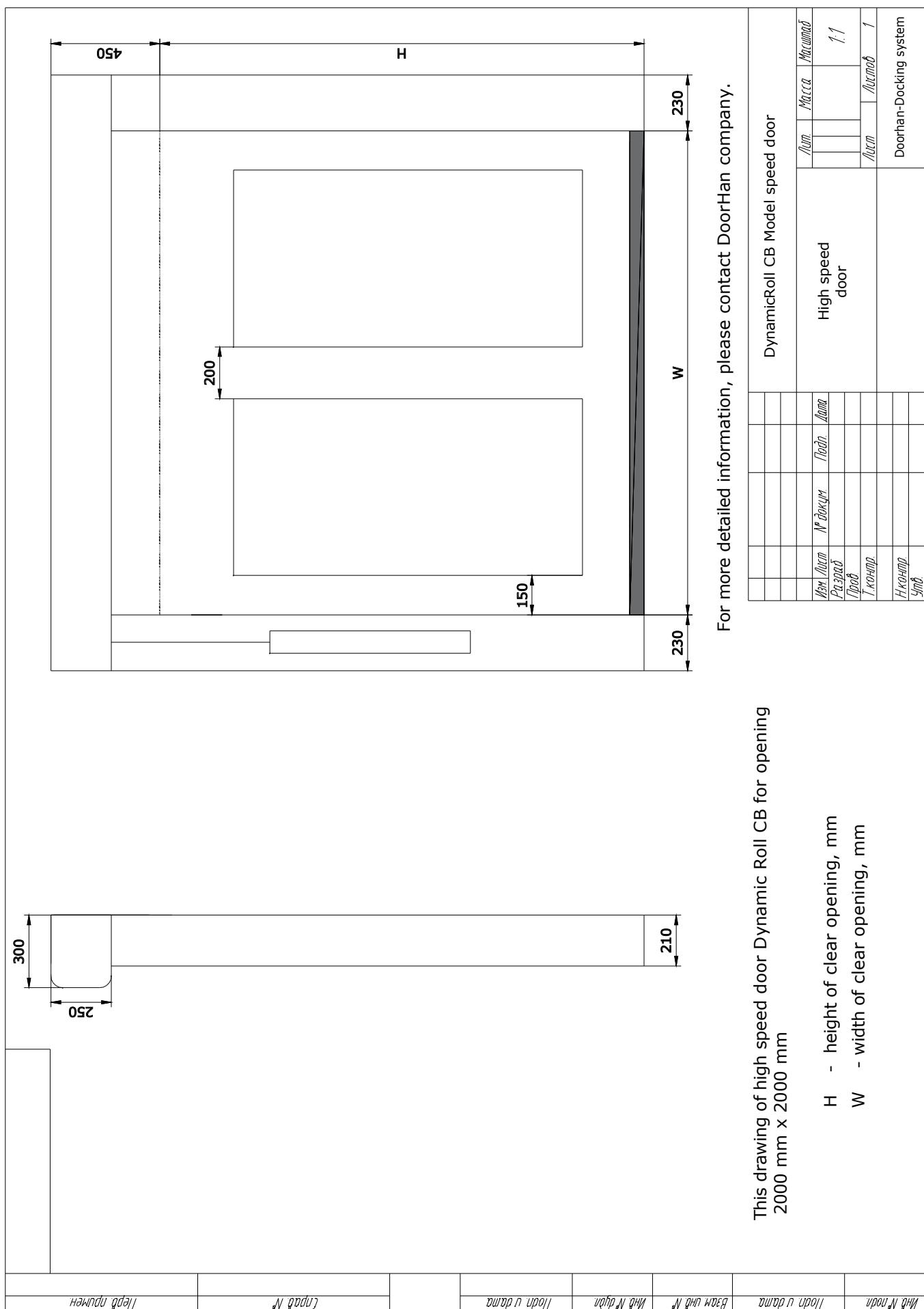
## TECHNICAL SPECIFICATIONS AND DIMENSIONS

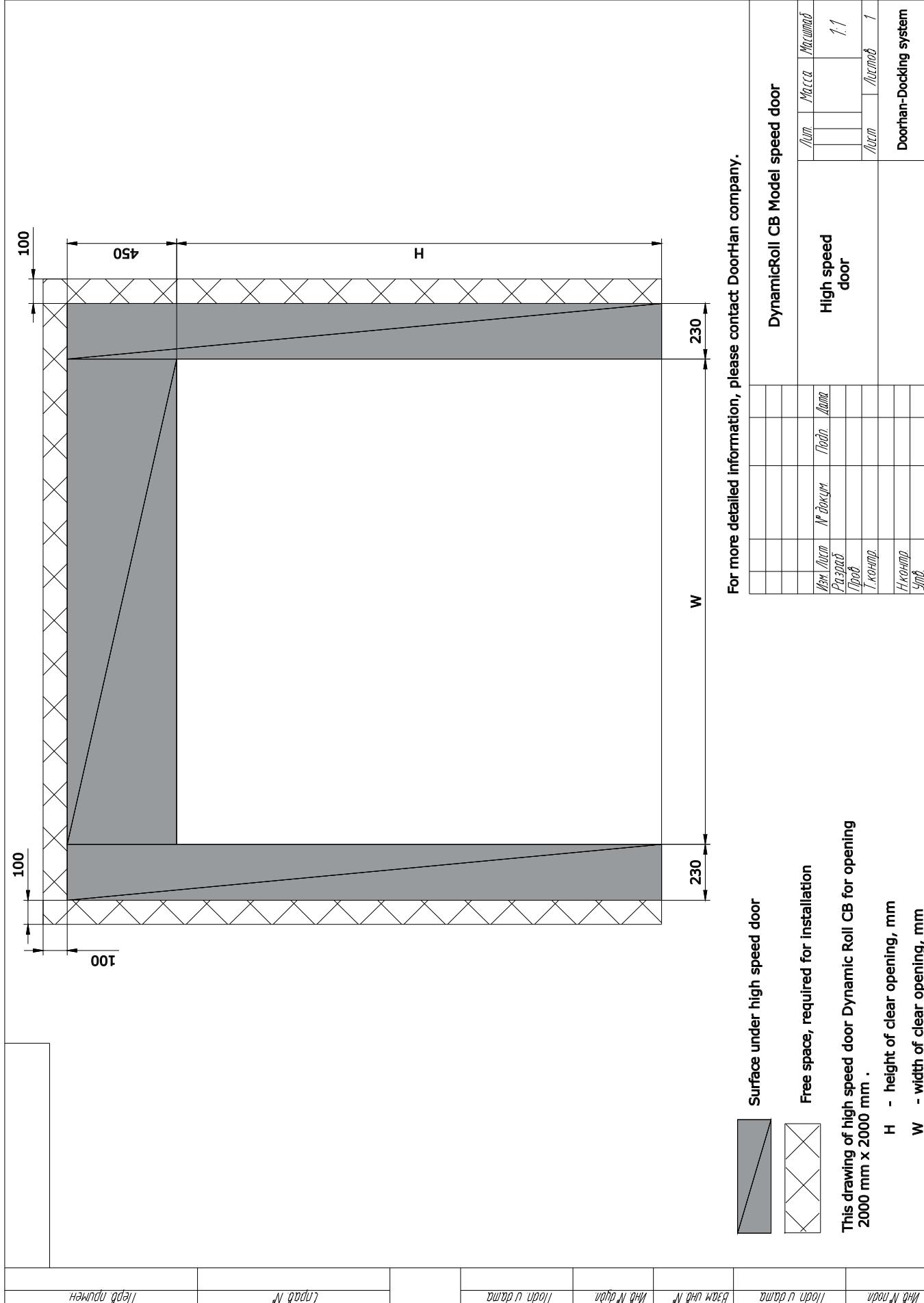
TECHNICAL SPECIFICATIONS AND DIMENSIONS	
<b>Maximum size, W × H</b>	4 000 × 4 000 mm
<b>Minimum size, W × H</b>	1 000 × 1 000 mm
<b>Wind load</b>	CLASS1 (80 km/h)
<b>Opening speed</b>	2.5 m/s
<b>Closing speed</b>	0.8 m/s
<b>Working temperature range</b>	from -15 to +70°C — if drive is installed indoors; from -5 to +70°C — if drive is installed outdoors; from -35 to +70°C — with drive and side frame heating systems
<b>Drive system</b>	supply voltage — 220 V/50 Hz; power — 1.5 kW; safety class — IP65; final shaft position indicated by encoder
<b>Power supply</b>	220 V/50 Hz; single phase
<b>Operating life</b>	1 500 000 cycles

## CONFIGURATION AND DESIGN

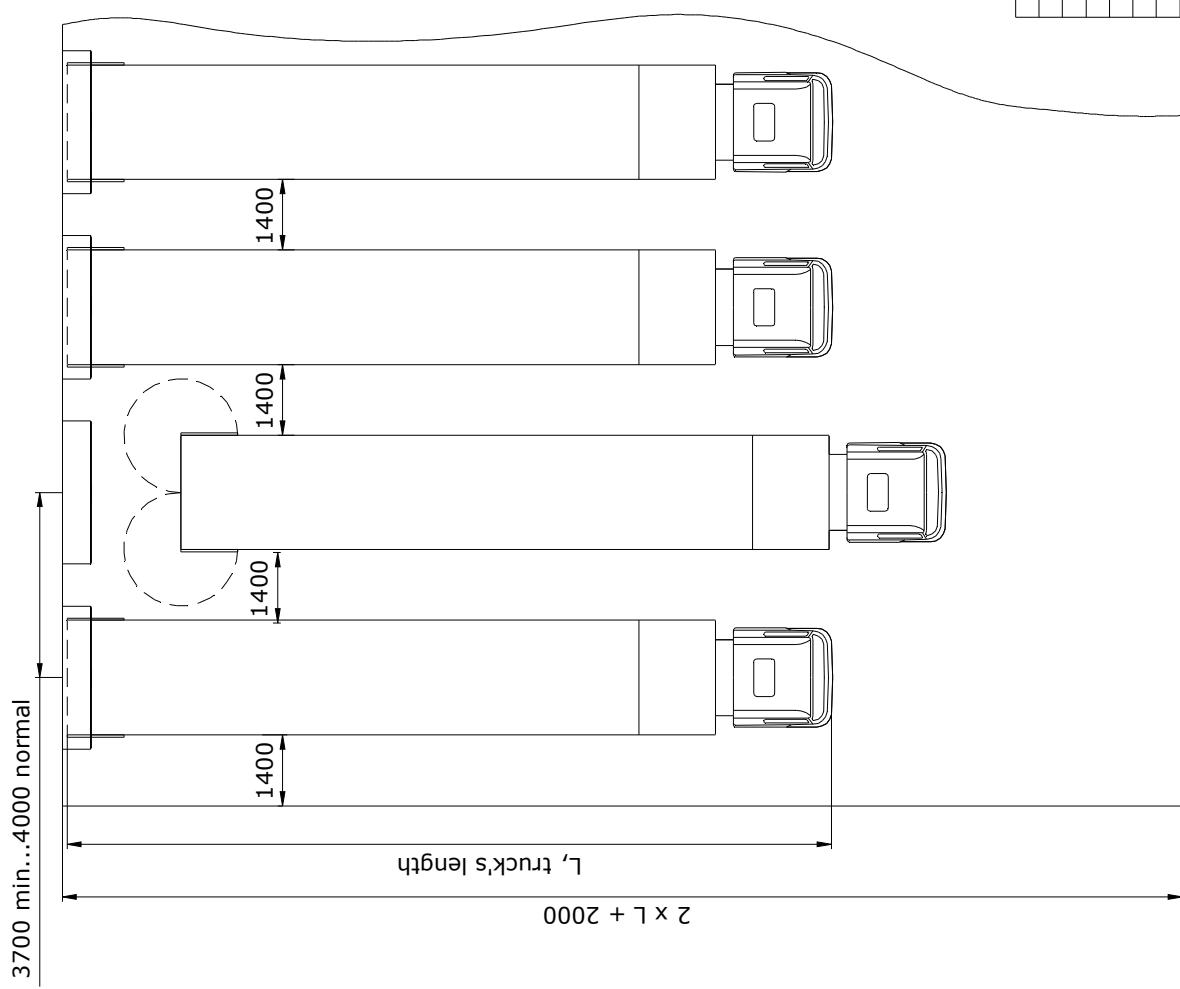
PACKAGE		
	Standard	Optional
<b>Hardware materials</b>	sides and frame — stainless steel Aisi304; gear shaft — stainless steel Aisi304 D = 90/130 mm; track guides — extruded polyethylene; door curtain — light-proof reinforced polyurethane 1 700 g/m <sup>2</sup> density; windows — 1 mm thick translucent PVC	—
<b>Door curtain fabric colours</b>	pure white (RAL 9010), opal green (RAL 6026), ultramarine blue (RAL 5002), carmine red (RAL 3002), signal yellow (RAL 1003), white aluminium (RAL 9006), pure orange (RAL 2004)	other colours are available on request
<b>Control box</b>	integrated in door frame; variable speed drive	—
<b>Safety features</b>	a pair of photo cells installed 500 mm from floor level to correct opening errors caused by improper unrolling of door curtain	a pair of photo cells installed at top of side frames to correct opening errors caused by improper unrolling of door curtain; when door's soft lower edge impacts an object while closing a sensor sends a radio signal to the control box and the door immediately opens; doors will open automatically about 2 000 mm if a power failure occurs via a counterweight

Door curtain is made in accordance with the design specifications provided by the customer.



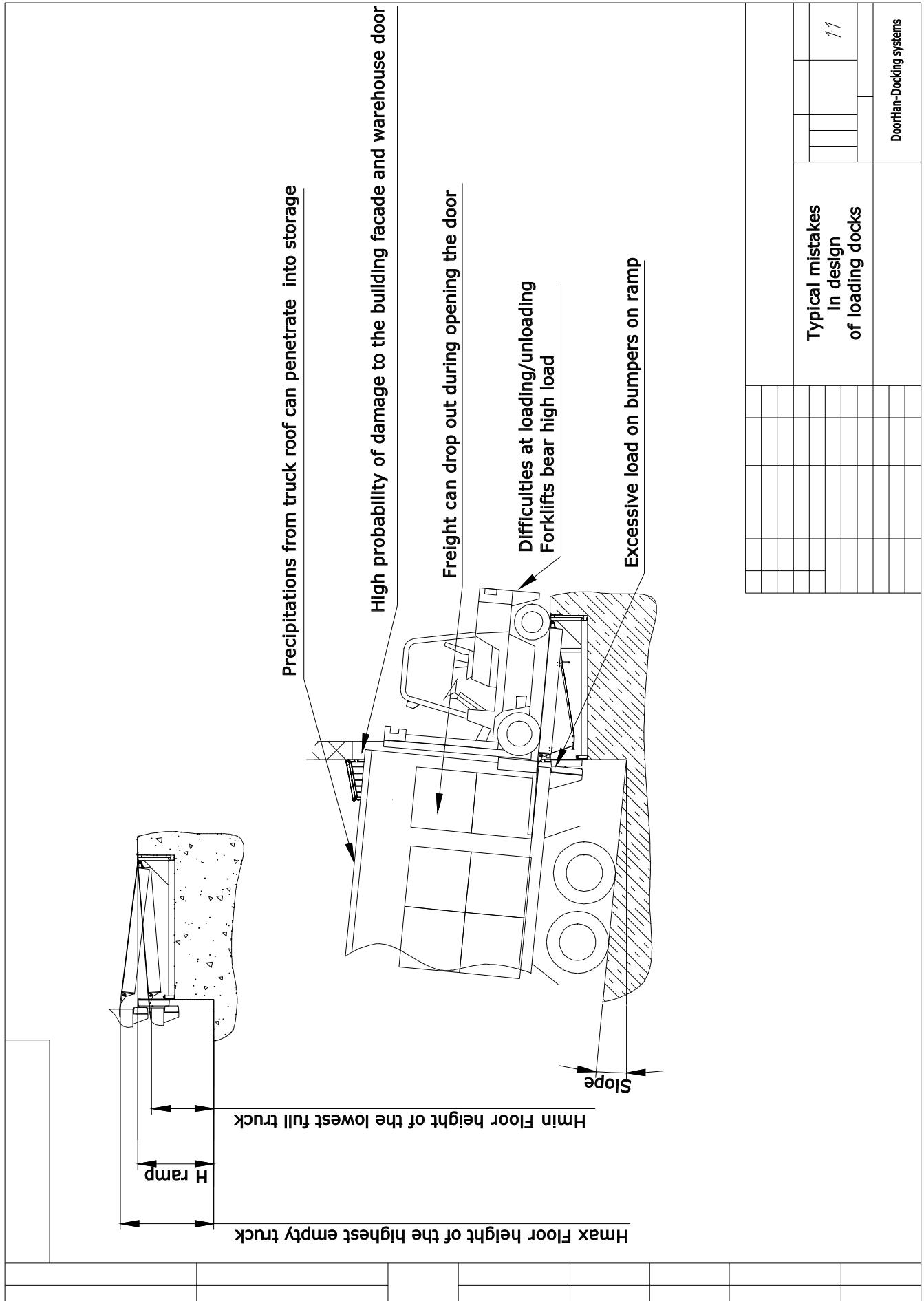


1. The area, required for truck maneuvering and parking in front of the ramp shall have double length of the longest truck plus 2 meters. A truck with length 18 m requires the area 38 m. Free space between the truck and the wall shall be 1.4 m.
2. Distance between bodies of parked trucks shall be enough to open and to close the truck's door. Too small distance between trucks can cause difficulties for approach and departure of trucks from the ramp. Minimal distance between warehouse door axes shall be 3700 mm. If trucks to be loaded/unloaded, have door, which open along the truck sides, this distance has to be 4000 mm. It is necessary to leave free space 1400 mm between the end truck and the side wall.



Typical mistakes in design of loading docks		11
		DoorHan-Docking systems

## **TYPICAL MISTAKES IN DESIGN OF LOADING DOCKS**



## **CERTIFICATE OF ADEQUACY**



## CERTIFICATE OF ADEQUACY

Certificate Number : GR2107/009696CM

Date of Issue : January 09, 2012

Manufacturer : SUZHOU DOORHAN MODERN METALS & MATERIALS CO., LTD.  
No.188, Gucun Road, Xukou Town, Wuzhong District, Suzhou  
City, Jiangsu Province, China

Certificate Holder : SUZHOU DOORHAN MODERN METALS & MATERIALS CO., LTD.  
No.188, Gucun Road, Xukou Town, Wuzhong District, Suzhou  
City, Jiangsu Province, China

**Product Description : DOCK LEVELER**

Product Type or Model : **(as appendix)**

### **European Union Directive :**

Machinery Directive 2006/42/EC, Annex VIII

European Standards : EN 1398:2009, EN 349:1993+A1:2008, EN 60204-1:2006+A1:2009

Report Number : DH-12000160 / January 06, 2012

### Statement

This certification **declares** that the manufacturer or his authorised representative established in the EU, has draw up and submit the Technical File referred to in Annex VII.A of Directive 2006/42/EC, for the mentioned above product type (as described in Annex VIII of the Directive 2006/42/EC).

The Certification Body received and keeps the Technical File for specified period (until January 08, 2017).

#### **Additional information – Remarks**

The certification body should be informed (revision of technical file) for any modification or alterations made to the aforementioned product type(s), including design and manufacture and/or extension to the existing scope of application.

The manufacturer is responsible (within internal production control procedure) for certifying the product and ensuring that all manufactured products are in compliance with the specifications declared in the technical construction file.

The CE mark as shown below can be used under the responsibility of the manufacturer (other EC directives should be considered).

The manufacturer should accompany the product with EC Declaration of Conformity and appropriate operation and maintenance instructions.



This certificate may be reproduced only in a complete form.



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009696CM, MD SUZHOU DOORHAN MODERN METALS & MATERIALS CO., LTD., CHINA

For Third Party Inspection Body



General Director



## APPENDIX of Certificate: 009696CM

The types of Dock Leveler has been described in the following specification table.



Model	Length(mm)	Width(mm)	Height(mm)	Weight(t)
DLHHI2018E-(06)E	2000	1800	600	6
DLHHI2518E-(06)E	2500	1800	600	6
DLHHI3018E-(06)E	3000	1800	600	6
DLHHI3518E-(06)E	3500	1800	600	6
DLHHI4018E-(06)E	4000	1800	700	6
DLHHI4518E-(06)E	4500	1800	700	6
DLHHI2020E-(06)E	2000	2000	600	6
DLHHI2520E-(06)E	2500	2000	600	6
DLHHI3020E-(06)E	3000	2000	600	6
DLHHI3520E-(06)E	3500	2000	600	6
DLHHI4020E-(06)E	4000	2000	700	6
DLHHI4520E-(06)E	4500	2000	700	6
DLHHI2022E-(06)E	2000	2200	600	6
DLHHI2522E-(06)E	2500	2200	600	6
DLHHI3022E-(06)E	3000	2200	600	6
DLHHI3522E-(06)E	3500	2200	600	6
DLHHI4022E-(06)E	4000	2200	700	6
DLHHI4522E-(06)E	4500	2200	700	6
DLHHI2018-(10)E	2000	1800	600	10
DLHHI2518-(10)E	2500	1800	600	10
DLHHI3018-(10)E	3000	1800	600	10
DLHHI2020-(10)E	2000	2000	600	10
DLHHI2520-(10)E	2500	2000	600	10
DLHHI3020-(10)E	3000	2000	600	10
DLHHI2022-(10)E	2000	2200	600	10
DLHHI2522-(10)E	2500	2200	600	10
DSI202005-(06)E	2000	2200	700	6
DSI202205-(06)E	2000	2200	700	6
DSI202405-(06)E	2000	2400	700	6
DSI252005-(06)E	2500	2000	700	6
DSI252010-(06)E	2500	2000	700	6
DSI252205-(06)E	2500	2200	700	6
DSI252210-(06)E	2500	2200	700	6
DSI252405-(06)E	2500	2400	700	6
DSI252410-(06)E	2500	2400	700	6
DSI302005-(06)E	3000	2000	800	6
DSI302010-(06)E	3000	2000	800	6
DSI302205-(06)E	3000	2200	800	6
DSI302210-(06)E	3000	2200	800	6
DSI302405-(06)E	3000	2400	800	6
DSI302410-(06)E	3000	2400	800	6
DSI352005-(06)E	3500	2000	800	6
DSI352010-(06)E	3500	2000	800	6
DSI352205-(06)E	3500	2200	800	6
DSI352210-(06)E	3500	2200	800	6
DSI352405-(06)E	3500	2400	800	6
DSI352410-(06)E	3500	2400	800	6
DSI402005-(06)E	4000	2000	800	6
DSI402010-(06)E	4000	2000	800	6
DSI402205-(06)E	4000	2200	800	6
DSI402210-(06)E	4000	2200	800	6
DSI402405-(06)E	4000	2400	800	6
DSI402410-(06)E	4000	2400	800	6
DSI402005-(10)E	2000	2000	700	10
DSI402205-(10)E	2000	2200	700	10
DSI202405-(10)E	2000	2400	700	10
DSI252005-(10)E	2500	2000	700	10
DSI252010-(10)E	2500	2000	700	10
DSI252205-(10)E	2500	2200	700	10
DSI252210-(10)E	2500	2200	700	10
DSI252405-(10)E	2500	2400	700	10
DSI252410-(10)E	2500	2400	700	10
DSI302005-(10)E	3000	2000	800	10
DSI302010-(10)E	3000	2000	800	10
DSI302205-(10)E	3000	2200	800	10
DSI302210-(10)E	3000	2200	800	10
DSI302405-(10)E	3000	2400	800	10
DSI302410-(10)E	3000	2400	800	10
DSI352005-(10)E	3500	2000	800	10
DSI352010-(10)E	3500	2000	800	10
DSI352205-(10)E	3500	2200	800	10
DSI352210-(10)E	3500	2200	800	10
DSI352405-(10)E	3500	2400	800	10
DSI352410-(10)E	3500	2400	800	10
DSI402005-(10)E	4000	2000	800	10
DSI402010-(10)E	4000	2000	800	10
DSI402205-(10)E	4000	2200	800	10
DSI402210-(10)E	4000	2200	800	10
DSI402405-(10)E	4000	2400	800	10
DSI402410-(10)E	4000	2400	800	10
MODL2318E	2300	1800	600	6
MODL2320E	2300	2000	600	6



# PLANTS



RUSSIA, MOSCOW



CHINA, SUZHOU



CZECK REPUBLIC, KADAN



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