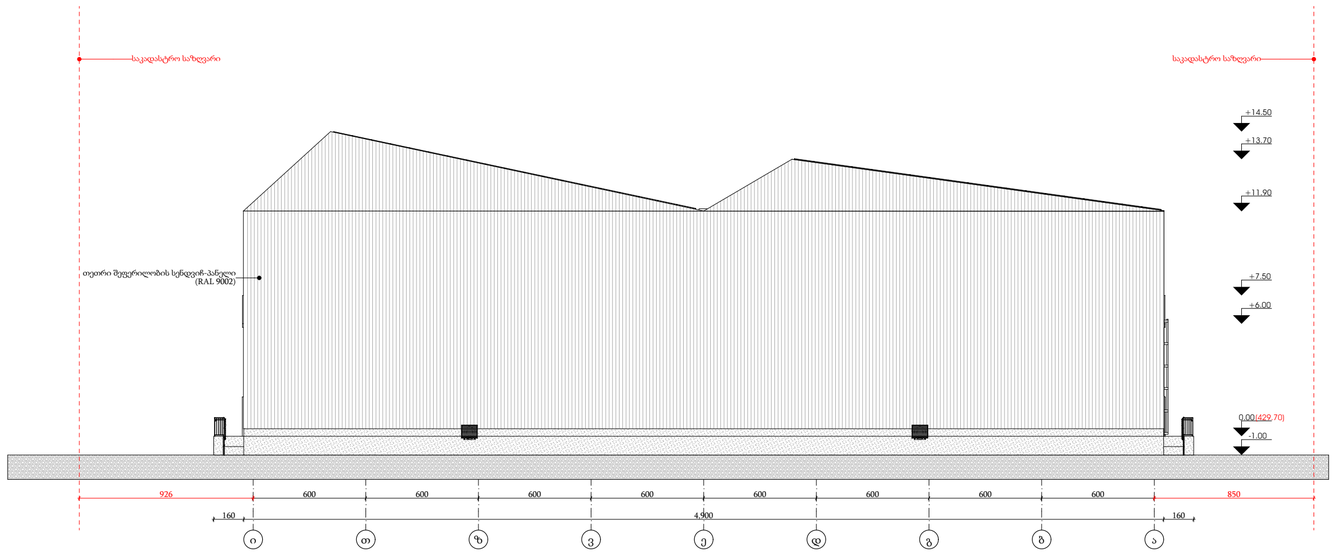




ELEMENT CONSTRUCTION
205208746
შპს. ელემენტ კონსტრუქშენ

არქიტექტურული ნაწილი

თარიღი:

მისამართი: ქ.თბილისი, დ.გურამიშვილის გამზირი №84

ფუნქციური დანიშნულება: საწყობი

ფასადები ა-ი და ი-ა ღერძებში

მთავარი არქიტექტორი: ბექარი კინწურაშვილი

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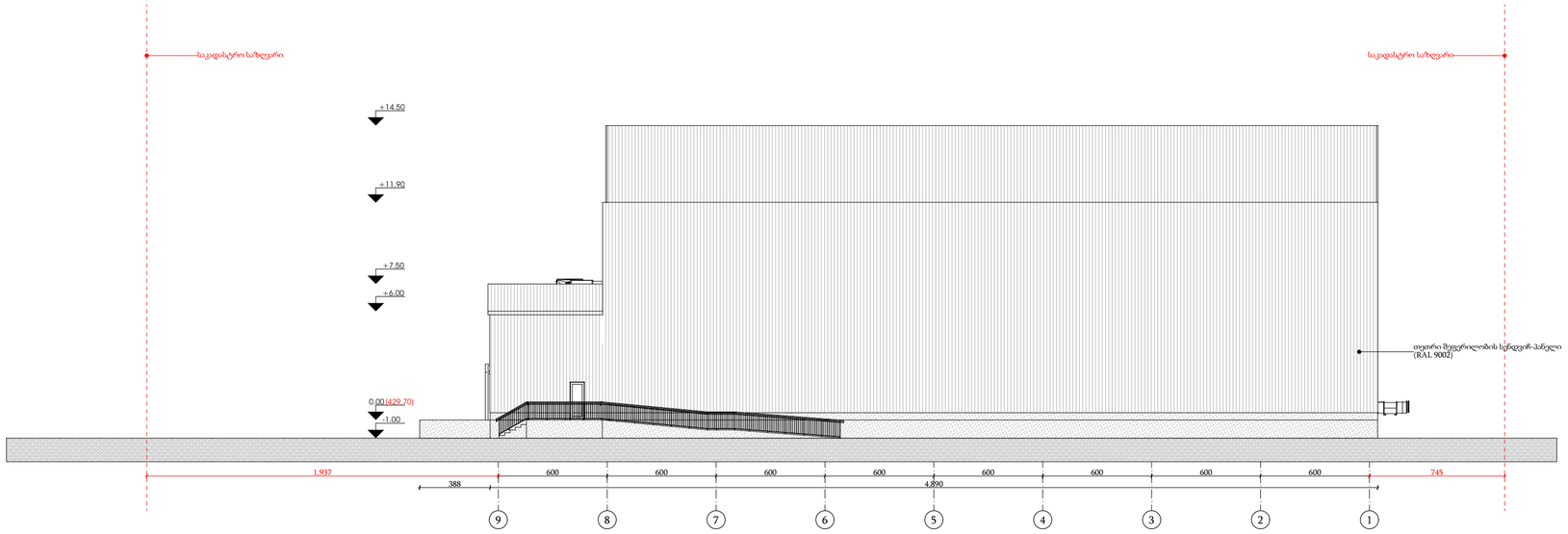
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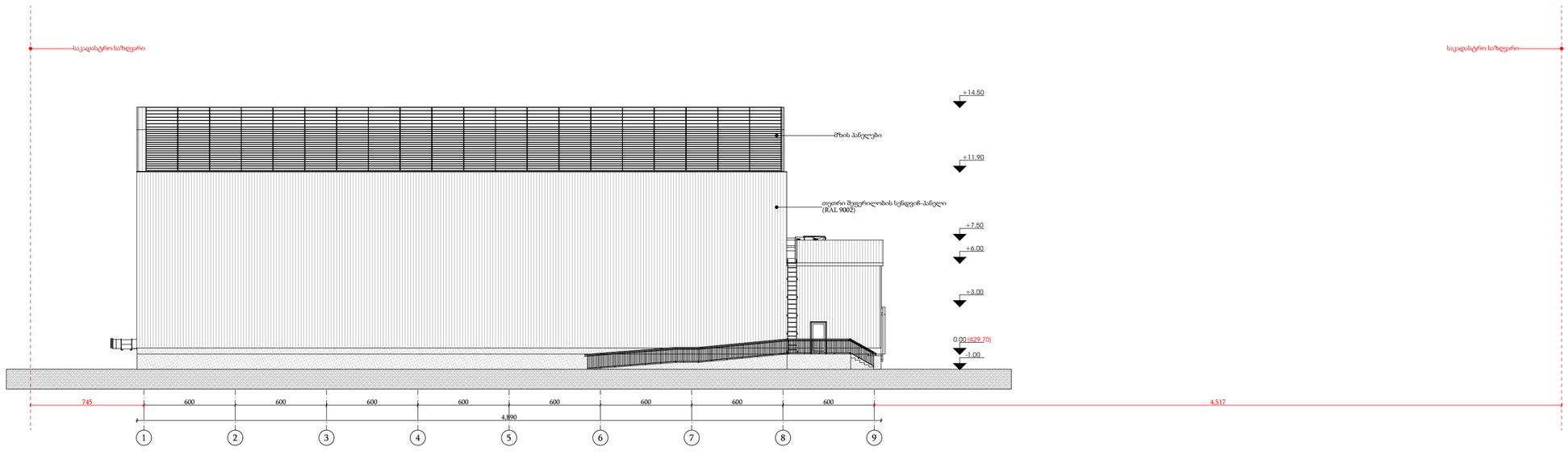
ზომა A-3

მასშტაბი:

ნახაზის ტიპი:
არქიტექტურული პროექტი

ფურცელი: ფურცლები:





ელემენტ კონსტრუქშენი

არქიტექტურული ნაწილი

ELEMENT CONSTRUCTION 205208746 შპს. ელემენტ კონსტრუქშენი

თარიღი:

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ფუნქციური დანიშნულება: საწყობი

ფასადები 9-1 და 1-9 ღერძებში

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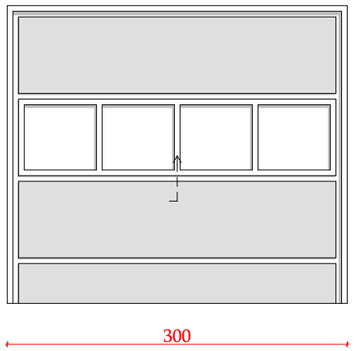
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ზომა A-3

მასშტაბი:

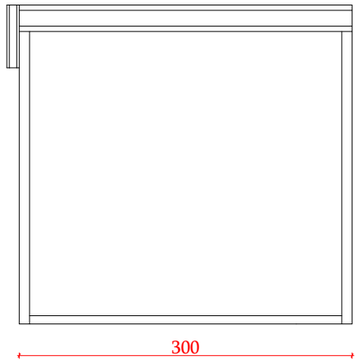
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არქიტექტურული პროექტი

ფურცელი : ფურცლები :



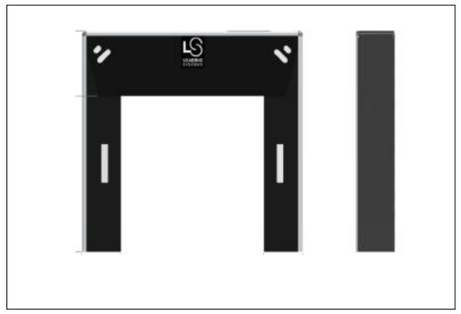
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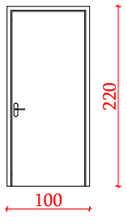
1 ცალი



ელექტრო-ჰიდრავლიკური ჟალუზი 232 NG

4ცალი





ლითონის ცეცხლგამძლე საევაკუაციო კარი

2 ცალი

ELEMENT CONSTRUCTION
205208746

არქიტექტურული ნაწილი

თარიღი:

მისამართი: ქ.თბილისი, დ.გურამიშვილის გამზირი №84

ფუნქციური დანიშნულება: საწყობი

ობიექტის სპეციფიკაციები

მთავარი არქიტექტორი: ბექარი კიწურაშვილი

შესრულება: ბექარი კიწურაშვილი

დირექტორი: ლევან ბერაძე

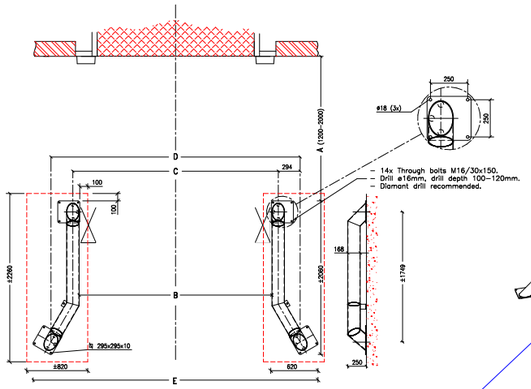
ზომა A-3

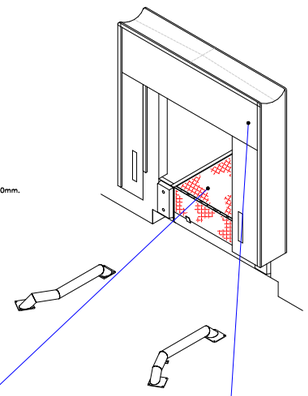
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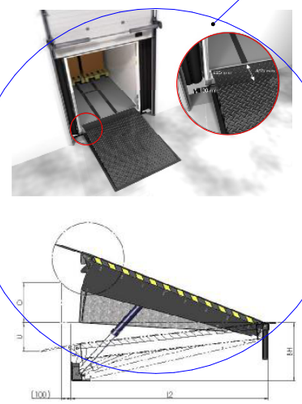
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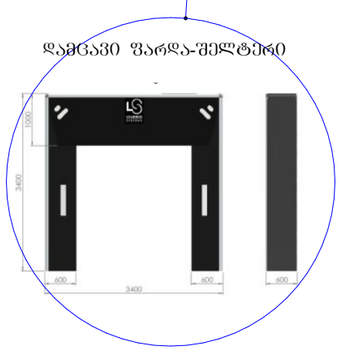
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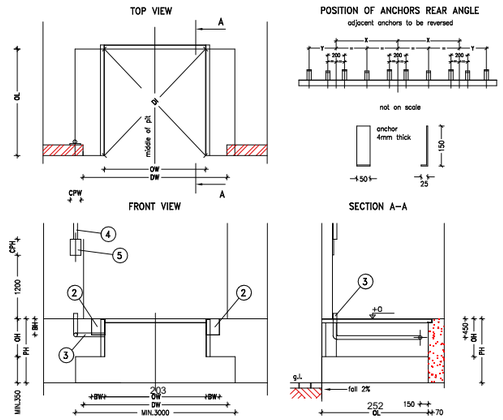


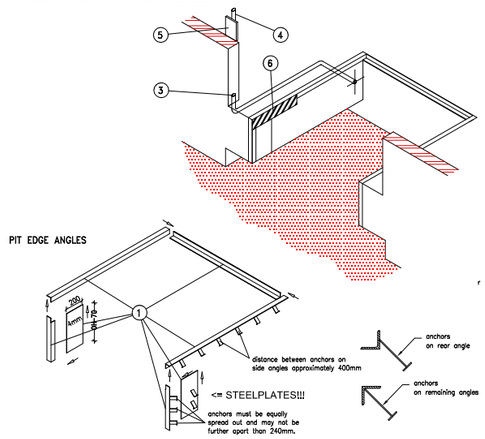


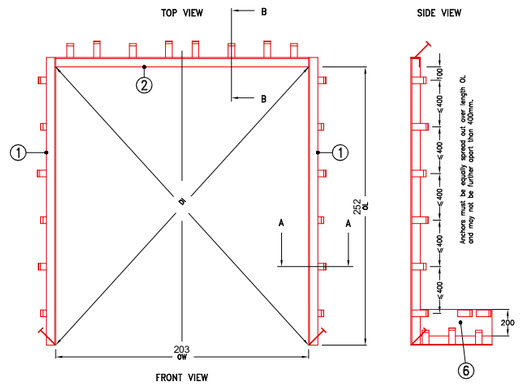
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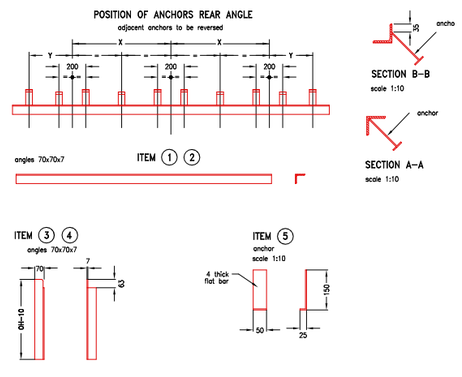


დოკ ლეველერის სამონტაჟო დეტალები









ელემენტ კონსტრუქშენი

არქიტექტურული ნაწილი

ELEMENT CONSTRUCTION
205208746
შპს ელემენტ კონსტრუქშენი

თარიღი:

მისამართი: ქ.თბილისი,
დ.გურამიშვილის გამზირი №84

ფუნქციური დანიშნულება:
საწყობი

დეტალები და სპეციფიკაციები

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შეასრულა: ბექარი კინწურაშვილი

დირექტორი: ლევან ბერაძე

ზომა A-3

მასშტაბი:

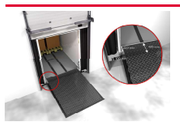
ნახაზის ტიპი:
არქიტექტურული პროექტი

ფურცელი : ფურცლები :

LOADING SYSTEMS

DOCK EQUIPMENT & INDUSTRIAL DOORS

Dock leveller with extendable lip 60kN



The PowerRamp 232NG is the newest generation electro hydraulic dock leveller including hinged swing lip. The platform top as well as the lip is powered hydraulically.

Operation

The PowerRamp 232NG is operated with only one push button. By keeping the push button pressed, the platform will go up from its resting position, when the highest point is reached, the lip will swing out. When the push button is released, the platform and lip will descend automatically to the level of the vehicle bed.

During loading and unloading, each up and down (suspension) movement of the vehicle is automatically followed. After the loading or unloading process, the push button is pushed in continuously to bring the system back into the rest position.

The PowerRamp 232NG is also suitable to load or unload so-called 'fast cargo' below the dock level.

Materials

Platform and lip are made of high-quality durbar plate:

- Platform: Durbar plate 6/8, S235JRG2
- Lip: Durbar plate 12/14, S355J2G3.

Depending on the width, the PowerRamp 232NG is strengthened along its length by means of 10+12 set profiles. These allow the dock leveller platform top to 'twist' and compensate for vehicle 'tilt' caused by off-set loads within the vehicle. The lip will remain in contact with the vehicle bed up to a maximum of 100 mm from the horizontal.

The rear of the top platform is connected to the lower frame by means of three hinges. Pins of drawn steel rods (Ø55mm) are used for the lip hinge at the front of the platform top. These are the centre of the self-cleaning, open-lip hinge construction.

The robust front channel absorbs the forces created by an emergency stop, cross traffic and where end loads are being loaded below dock height. The self-supporting characteristics enable either an open or closed pit floor to be selected or for a so-called tail lift opening to be used. Furthermore the front channel fixed to the lower frame provides protection for the hydraulic and mechanical components on the underside of the dock leveller.

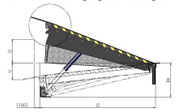
Dimensions

If required the PowerRamp 232NG can be delivered tailor-made. However our standard models with a construction height of 600 mm are already available in a large range of platform dimensions.

Metric sizes (mm)					
L2	BH	400 mm lip		500 mm lip*	
		øO	øU	øO	øU
2000	600	225	290	225	305
2500	600	285	280	245	300
3000	600	350	275	230	290
3500	600	315	270	175	285
4000	600	275	270	160	280
Platform width: 2000 or 2250 mm					

Imperial sizes (mm)					
L2	BH	400 mm lip		500 mm lip*	
		øO	øU	øO	øU
2170	600	245	285	245	305
2770	600	320	280	245	290
3370	600	320	275	205	285
Platform width: 1830 or 2100 mm					

L2 = Platform length
BH = Construction height
O = Effective working range above dock height
U = Effective working range below dock height



According to EN 1398 the dock leveller is not allowed to be operated outside the permissible gradient range of ± 12.5% (approximately ± 7°).

Revision: 5/14/2017 — 232NGENG — Technical specifications are subject to change

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LOADING SYSTEMS

DOCK EQUIPMENT & INDUSTRIAL DOORS

Dock leveller with extendable lip 60kN

The lip (length 400 mm) has a location length of 225 mm on the vehicle bed, when using 100 mm thick bumpers.

In this instance, the effective working range is measured from the front-side of the bumpers, taking the arc movement of the lip into consideration.

Drive

The hydraulic functions are performed according to a logical sequence, with the aid of the Logic Block System which is operated by varying pressure differences.

The platform is powered by a hydraulic cylinder and the lip by a separate self-dampening cylinder.

The hydraulic system is completely closed and cannot, even under the most extreme circumstances, be affected by dirt, sand or dust. Thanks to the over dimensioned cylinders, a low working pressure of approximately 100 bars is created.

The chrome hardened main cylinder is designed to hold a pressure of 1200 bar. As a precautionary measure, a pipe burst valve is integrated in the main cylinder. The chrome hardened lip cylinder and the hydraulic hoses are designed to hold a pressure of 600 bars.

The compact hydraulic power pack is positioned below the dock leveller's platform and is connected with both cylinders by two hydraulic hoses. This way damage from the outside or by movement is prevented.

All these characteristics ensure a safe hydraulic system with a long life span and a minimum of maintenance.

Standard safety provisions

- Fully hydraulic safety stop by means of a pipe rupture valve built into cylinder.
- Emergency stop switch with reset facility.
- Non retractable sliding toe guards.
- Robust lip keepers for transverse movements (cross traffic).
- Black / Yellow safety markings.
- Non-vent-possible maintenance strut.
- Motor safeguards by means of a thermal relay.
- Control panel instruction symbols.

Technical Specifications

Standards ..... CE marking
Capacity (EN 1398) ..... 60 kN
Construction height ..... 600 mm
Lip length ..... 400 mm
Lip angle ..... (ca. 4°) 45 mm
Motor ..... 0,75 kW
Power supply ..... 3 phase, neutral and earth / 400 V
Control current ..... 24 V DC
Protection class ..... IP 54
Working pressure ..... ca. 100 bar
Outside diameter main cylinder ..... 65 mm
Outside diameter lip cylinder ..... 45 mm
Operating temperatures between -30° and +50° Celsius
Standard colour ..... (black) RAL 9005

Standards

The PowerRamp 232NG is CE marked. The Loading Systems dock levellers are in accordance with all safety aspects of the European standard EN 1398. The standard load capacity, which is 60 kN (axle load) is designed on a minimum surface contact per wheel of 150 x 150 mm and a maximum gradient of the platform top of 12.5 percent, in accordance with the European standard EN 1398.

Building-in possibilities

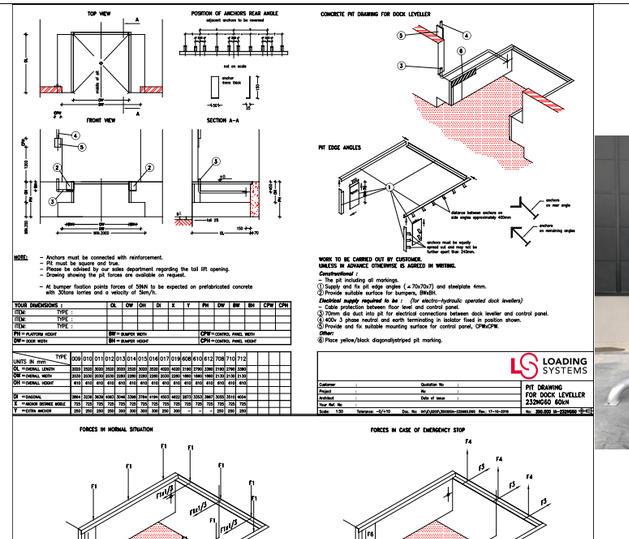
Because of varying client specific requirements and constructional elements a large range of build-in-possibilities can be offered, such as a suspending (hanger) frame, box model, permanent steel formwork, (pit boxes) prefab concrete elements, steel stand, dock pods including the thermal iso version. By making the correct choice, considerable cost savings can be made. Detailed building-in drawings are available upon request.

Options

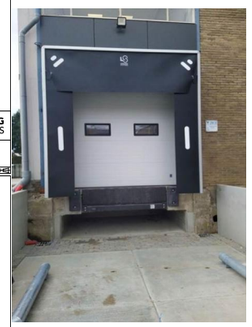
- Various types of pit construction
- Special dimensions
- Greater lip length
- Tapered lip on both sides
- Side segments on lip to adjust to different vehicle widths
- Top platform plate with non-slip coating
- Double main cylinder
- RAL colour as required
- Primer
- Hot dip galvanised with stainless steel shafts
- Platform insulation
- Air seals on three sides of platform
- Rest position switch for control of traffic light, door
- Leveller/ door interlocking
- Integrated control panel including control for door, traffic light, etc.
- Upgraded IP- value
- Other voltage

Revision: 5/14/2017 — 232NGENG — Technical specifications are subject to change

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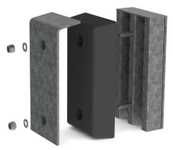




LOADING SYSTEMS

DOCK EQUIPMENT & INDUSTRIAL DOORS

PE dock bumpers



The Loading Systems PE dock bumpers are robust and durable plastic bumpers.

Features

- Good protection of building and vehicle
- Sustainable and environmental friendly
- Made from recycled plastic
- Available for different applications
- Consoles and protection plates are available in RAL 9005 or galvanised finish



PE dock bumper

The PE dock bumper is made from robust and durable polyethylene with a long life and high durability. It contains no harmful substances.

The PE dock bumpers feature countersunk mounting holes and are fully compatible with the rubber version (RB).

Article number	Dimensions WxHxD (mm)	Weight per pair (kg)
915-500	250x500x100	14



Consoles

The consoles are suitable for safe installation of the dock bumper to the building. In a renovation, where the loading dock is damaged, these consoles are indispensable.

All consoles are equipped with studs.

Article number	Dimensions WxHxD (mm)	Weight per pair (kg)	Suitable for
912-750	250x500x10	22	PE500
912-755	250x500x50	33	PE500
912-757	250x500x90	48	PE500



Protection plates

The protection plates are suitable for intensive use of the loading dock. The protection plates are available as straight or bended model.

Article number	Dimensions WxHxD (mm)	Weight per pair (kg)	Suitable for
912-715	230x470x15	18	PE500
912-717*	230x475x15	22	PE500

* bended model



Options

By means of the mounting bracket, the dock bumper can be placed 100 mm above platform level.

As an option, the consoles and protection plates are available in galvanised finish.

Article number	Dimensions WxHxD (mm)	Weight per pair (kg)	Suitable for
912-760	250x80x160	14	All consoles
305	Galvanised finish consoles		
305	Galvanised finish protection plates		

Revision: 3/26/2013 — 21e-915-PE — Technical specifications are subject to change

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LOADING SYSTEMS

DOCK EQUIPMENT & INDUSTRIAL DOORS

Wheel guides



Correct docking with the Loading Systems wheel guides prevents damage.

Features

- Suitable for new and existing buildings
- Available as built-in or surface model in different dimensions
- Standard galvanised finish

Application

Wheel guides ensure correct positioning of the vehicle to the loading and unloading platform. Therefore the risk of damage to the vehicle, the building or the dock leveller or dock shelter reduces considerably. Wheel guides are especially recommended in combination with wide dock levellers and curtain or inflatable dock shelters because in these situations precise positioning of the vehicle is even more important.

The standard galvanised wheel guides are available as built-in and as a surface model. The built-in model is embedded in the concrete foundation. The surface mounted model is equipped with foot plates with mounting holes.

Surface mounted model (with foot plates)

The wheel guides are made from high quality tube with a diameter of 170 mm.



Available as:

- bended model (970-011)
- or straight model (970-012)

Article number	Length (mm)	Height (mm)	Diameter (mm)	Foot plate (mm)	Weight (kg)
970-011	±2060	250	170	295x295	90 kg
970-012	±1850	250	170	295x295	87 kg

Built-in model (to embed into concrete foundation)

The wheel guides are made from high quality tube with a diameter of 170 mm.



Available as:

- bended model (970-013)
- or straight model (970-014)

Article number	Length (mm)	Height (mm)	Diameter (mm)	Depth (mm)	Weight (kg)
970-013	±1890	320 *	170	490	94 kg
970-014	±1870	320 *	170	490	91 kg

* after embedding

Low model (with foot plates)



The wheel guides are made from high quality tube with a diameter of 140 mm.

Available as:

- bended model (970-030)
- or straight model (970-025)

Article number	Length (mm)	Height (mm)	Diameter (mm)	Foot plate (mm)	Weight (kg)
970-025	±2000	188	140	175x135	60 kg
970-030	±1850	188	140	175x135	65 kg

Options

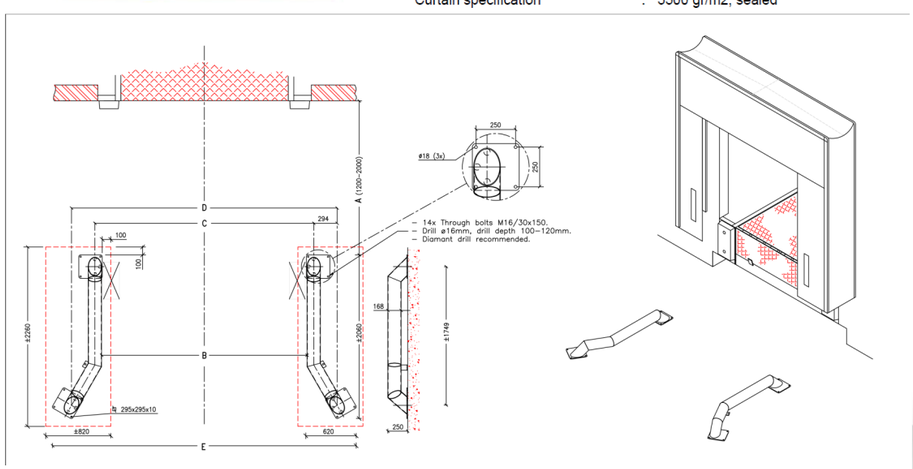
Optional a mounting set is available for surface mounted wheel guides.

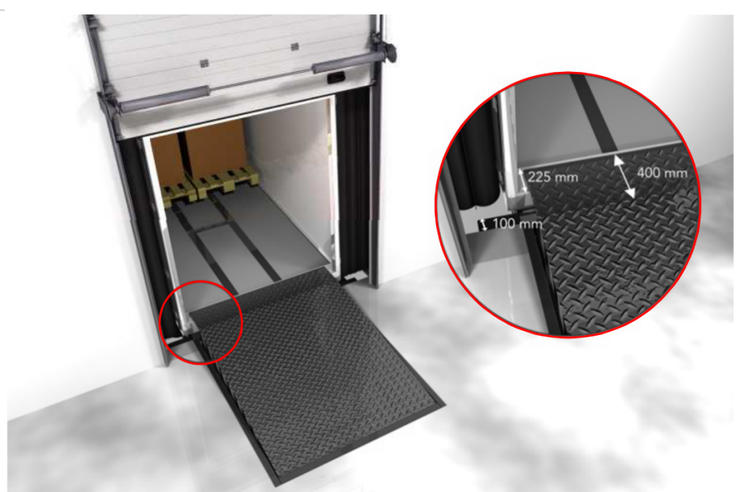
Revision: 3/22/2013 — 21e-970 — Technical specifications are subject to change

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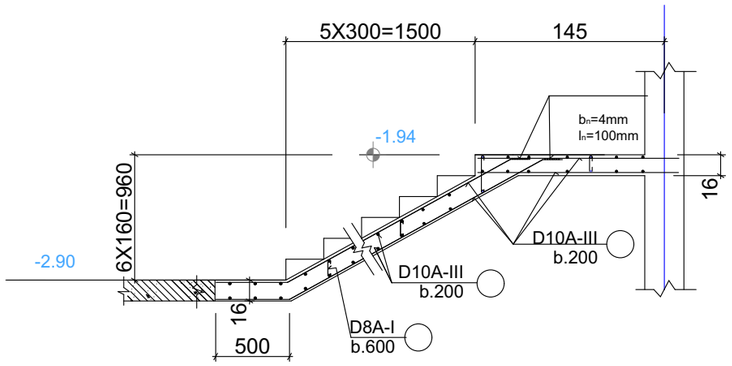


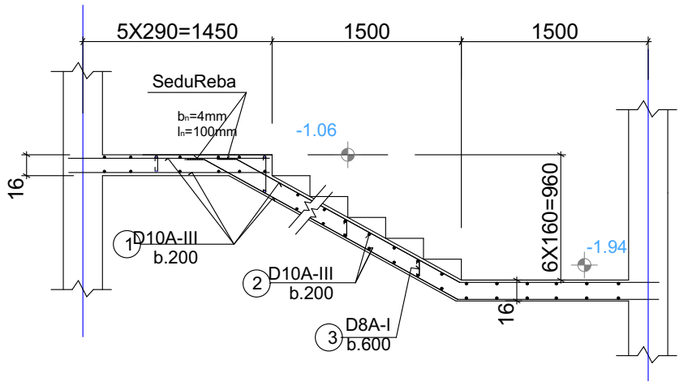
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Width side curtains	:	600 mm
Mounting height (mm)	:	4500
Curtain specification	:	3500 gr/m2, sealed

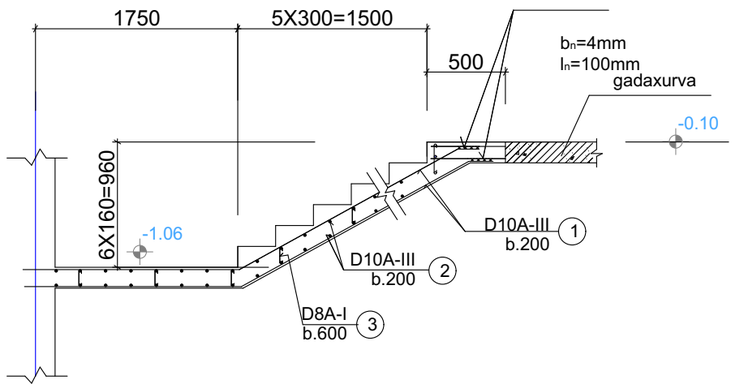


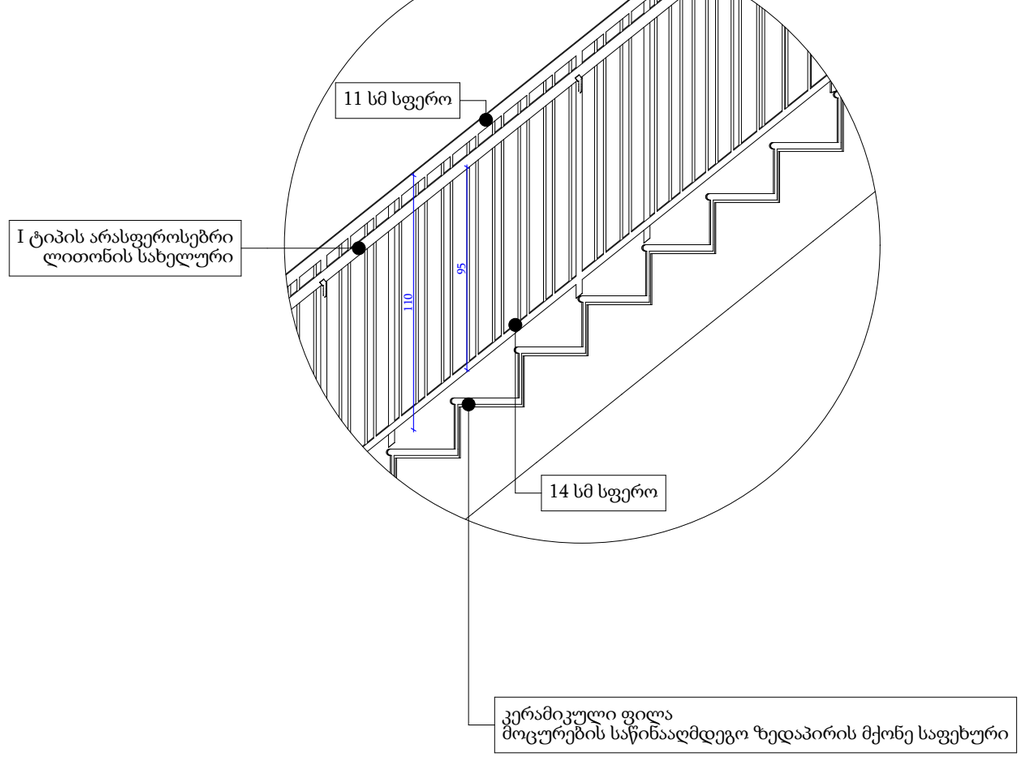


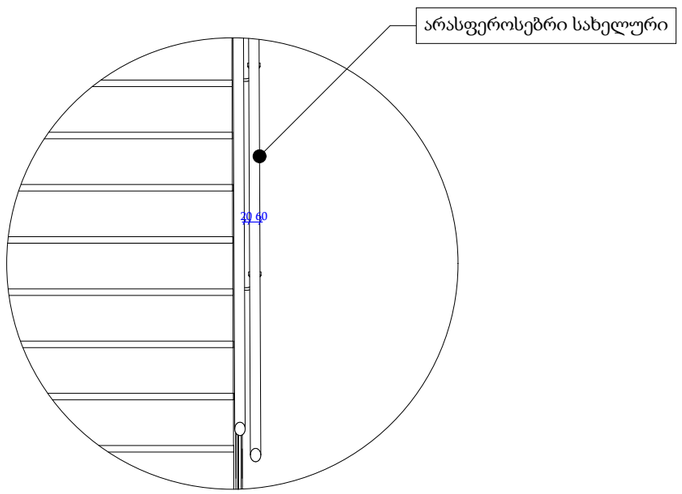
	ჯეკანი კონსტრაქშენი
	არქიტექტურული ნაწილი
	ELEMENT CONSTRUCTION 205208748
თარიღი:	
მისამართი: ქ.თბილისი, დ.გურამიშვილის გამზირი №84	
ფუნქციური დანიშნულება: საწყობი	
დეტალები და სპეციფიკაციები	
მთავარი არქიტექტორი: ბექარი კოწკორაშვილი	
შესრულება: ბექარი კოწკორაშვილი	
დირექტორი: ლევან ბერაძე	
ზომა	A-3
მასშტაბი:	
ნახაზის ტიპი: არქიტექტურული პროექტი	
ფურცელი:	ფურცლები:











ELEMENT CONSTRUCTION
205208746

არქიტექტურული ნაწილი

თარიღი:

მისამართი: ქ.თბილისი, დ.გურამიშვილის გამზირი №84

ფუნქციური დანიშნულება: საწყობი

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მთავარი არქიტექტორი: ბექარი კინწურაშვილი

შეასრულა: ბექარი კინწურაშვილი

დირექტორი: ლევან ბერაძე

ზომა A-3

მასშტაბი: 1:5

ნახაზის ტიპი:
არქიტექტურული პროექტი

ფურცელი : ფურცლები :