

Product datasheet

Load house

PLSU / PLMU (non-insulated)
PLSI / PLMI (insulated)
PLSX / PLMX (without cladding)

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Loading house

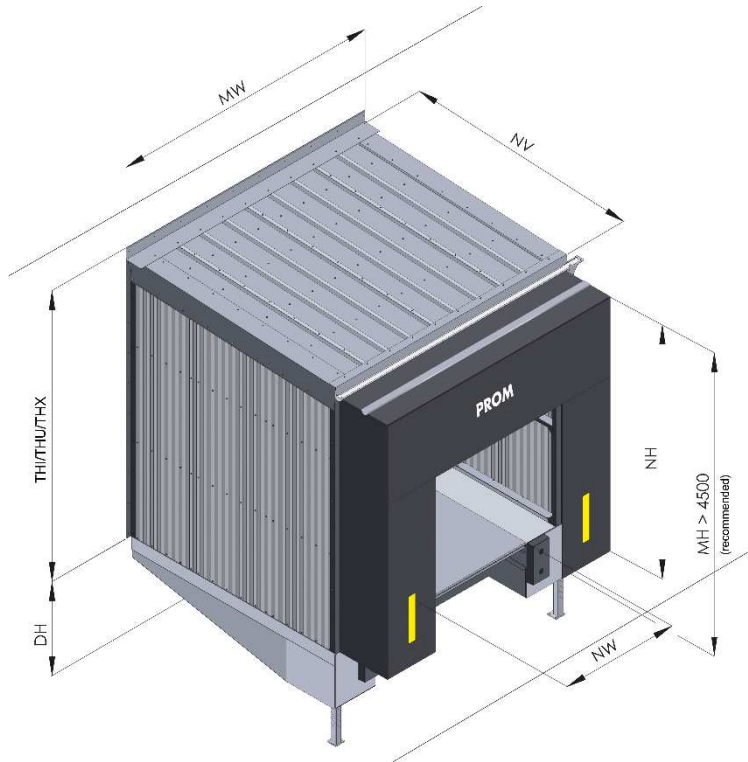
The loading house is a housing system that combined with the loading ramp forms a stand-alone docking system that can be attached to the building. It comprises all the components of a complete docking system: dock leveller, dock shelter and sectional door:

These elements represent a complete and sophisticated docking system that depending on the individual loading situation offers decisive advantages over conventional internal ramps. They extend the available storage space and at the same time provide the building with thermal insulation.

Hot-dip galvanization of the whole steel frame system is standard. Water drainage systems and façade elements matched to your building are also available as optional equipment.

Advantages of the loading house:

- Thermal separation of the warehouse and the docking system guarantees a decisive reduction in energy costs – a very important factor for temperature-controlled warehouses and cold stores.
- Easy and fast assembly thanks to pre-mounted building elements that are put on existing foundations and fastened to the external wall of the building. If an already existing building is extended installation with the loading and unloading operations going on in parallel is possible.
- The cladding consists either of non-insulated trapezoidal sheet or of 40 mm insulated panel; it is also possible to use the same material as used for the façade of the warehouse.
- The system can be equipped with either a swing lip leveller or with a telescopic lip leveller as well as with various types of dock shelters optimally matched to the individual loading and unloading frequency.
- Thanks to its flexible modular design the PROMStahl loading house can be supplied either as a cost-effective multiple system or in the case of limited space available in front of the loading station as an angular arrangement or as a multiple serial system.
- Additional storage room is available in the warehouse since the whole docking system is placed outside the building.
- It is even possible to benefit from shorter tax depreciation regulations. Please contact your tax consultant regarding this topic.
- Load assumptions according to DIN 1055 parts 4+5
 - Basic snow load: 0.89 kN/m for a maximum snow load of 2.5 kN/m²
 - Max. wind load 0.65 kN/m²
 - Design of the steelworks in accordance with DIN 18800 (Eurocode 3 in preparation)
 - Respect the local building regulations!



NV	Loading house nominal length (NL+20)
MW	Loading house module width
NW	Dock leveller nominal width
THI	Wall connection height, insulated (panels)
THU	Wall connection height, without insulation (trapezoidal sheet)
THX	THX Wall connection height (without cladding)
DH	Dock height
NH	Nominal height of the dock shelter
MH	Dock shelter installation height, Recommendation: MH= 4500 for truck heights up to 4000 mm

NV	2020			2470		
DH	950 - 1050	1100 - 1250	1300 - 1500	950 - 1050	1100 - 1250	1300 - 1500
THI	4040	3840	3640	4065	3865	3665
THU	3995	3795	3595	4020	3820	3620
THX	3800	3600	3400	3825	3625	3425
MW	All dimensions 3300, 3500, 3600					

All dimensions in mm.

NV	3020			3520		
DH	950 - 1050	1100 - 1250	1300 - 1500	950 - 1050	1100 - 1250	1300 - 1500
THI	4090	3890	3690	4115	3915	3715
THU	4045	3845	3645	4070	3870	3670
THX	3850	3650	3450	3875	3675	3475
MW	All dimensions 3300, 3500, 3600					

All dimensions in mm.

All loading houses are available with standard installation angles of 90° and optional with 30°/150°, 45°/135°, 75°/105° and 60°/120°.

Further angles are available on request.

Standard colours

The following colours are available as standard colours for the insulation panel and the non-insulated trapezoidal sheet:

Inside
RAL 9002

Grey white

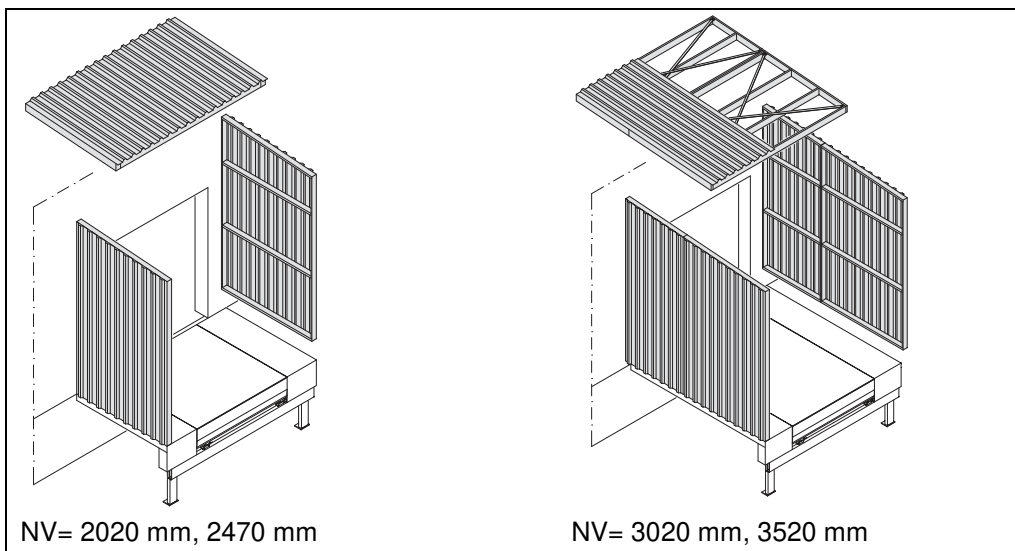
Outside:
RAL 9002
RAL 7016

Grey white
Anthracite grey

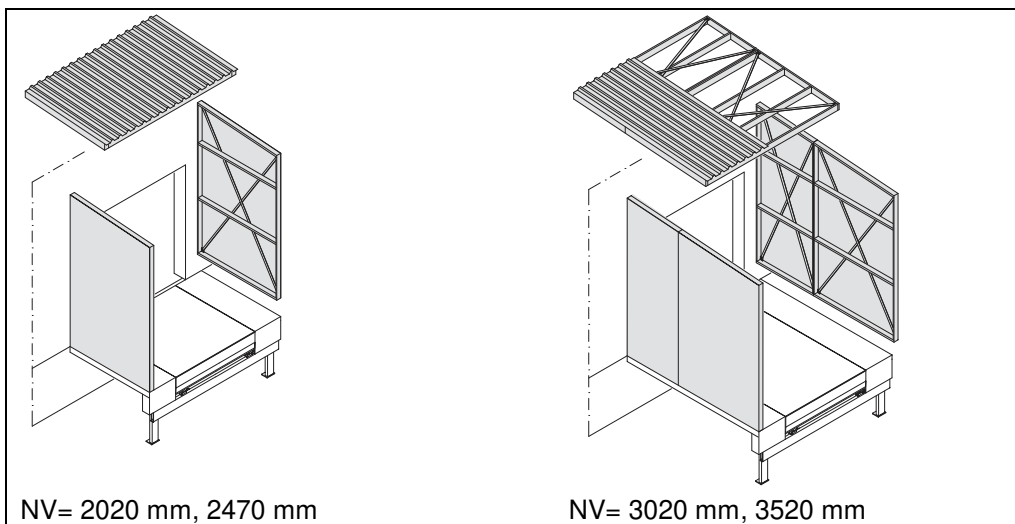
Further RAL colours are optionally available.

Options – PL claddings

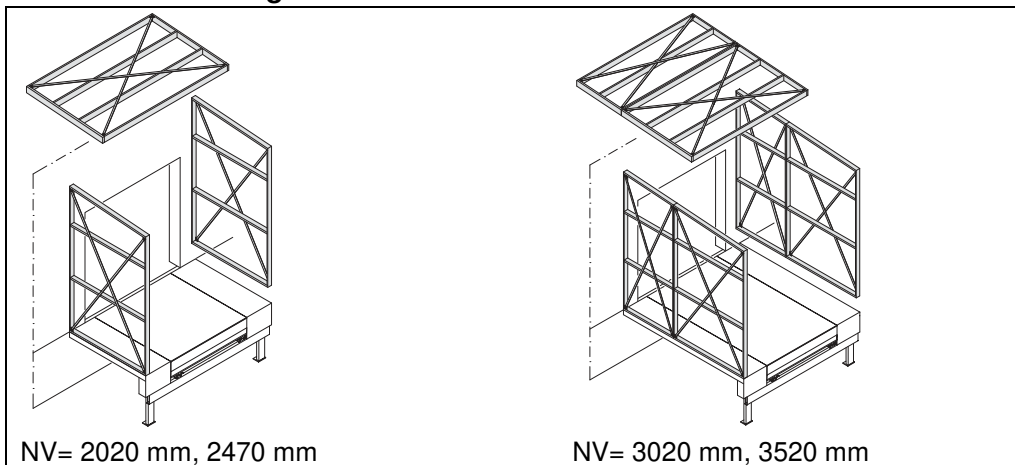
U = non-insulated



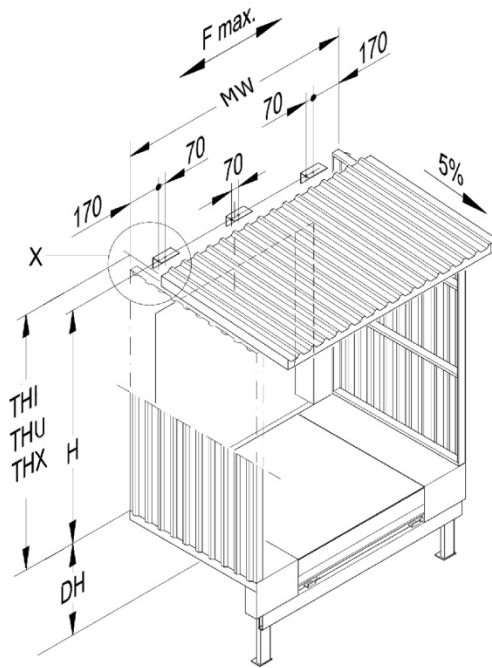
I = insulated



X= without cladding



Wall installation



MW	Loading house module width
NV	Loading house nominal length
H	Installation height
THI	Wall connection height, insulated (panels)
THU	Wall connection height, without insulation (trapezoidal sheet)
THX	Wall connection height (without cladding)
DH	Dock height

Wall installation force
F max. 4,5 kN (NV 2020, 2470)
F max. 6,4 kN (NV 3020, 3520)

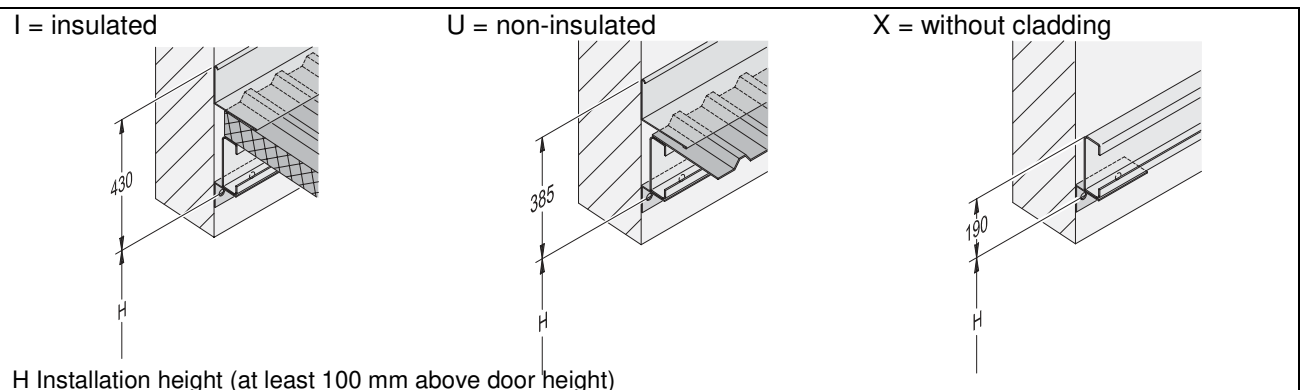
NV	2020			2470		
DH	950 - 1050	1100 - 1250	1300 - 1500	950 - 1050	1100 - 1250	1300 - 1500
H	3610	3410	3210	3635	3435	3235
THI	4040	3840	3640	4065	3865	3665
THU	3995	3795	3595	4020	3820	3620
THX	3800	3600	3400	3825	3625	3425

All dimensions in mm.

NV	3020			3520		
DH	950 - 1050	1100 - 1250	1300 - 1500	950 - 1050	1100 - 1250	1300 - 1500
H	3660	3460	3260	3685	3485	3285
THI	4090	3890	3690	4115	3915	3715
THU	4045	3845	3645	4070	3870	3670
THX	3850	3650	3450	3875	3675	3475

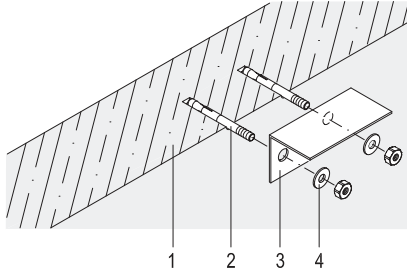
All dimensions in mm.

Installation detail „X“



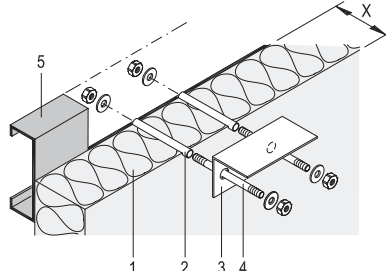
Wall fixings

Concrete wall



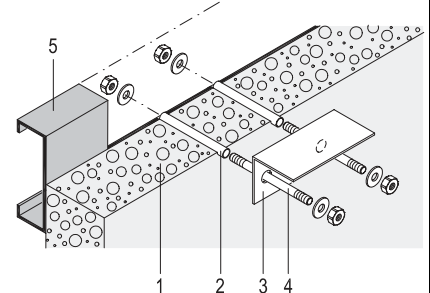
- 1 Concrete wall
- 2 Heavy-duty bolt
- 3 Fixing angle
- 4 Washer

ISO wall



- 1 ISO wall
- 2 Spacer
- 3 Fixing angle
- 4 Threaded bolt with nut and washer
- 5 Installation profile *
- X Wall thickness (100 or 200 mm)

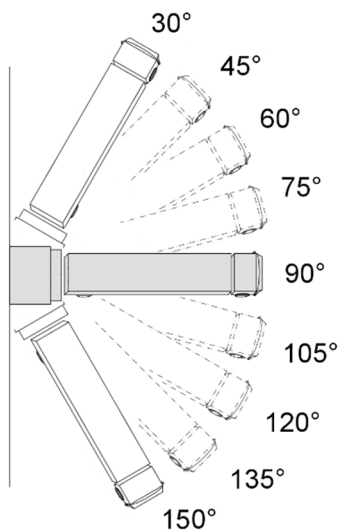
Aerated autoclaved concrete wall



- 1 Aerated autoclaved concrete wall
- 2 Spacer
- 3 Fixing angle
- 4 Threaded bolt with nut and washer
- 5 Installation profile*
e.g: C-profile 120x40x15x3 mm

*) by others, not included in the delivery by PROMStahl

Angular arrangement*



* Further angles are available on request.