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door opening solutions



Crawford 660 Curtain shelter SME

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Technical facts

Features

Sizes – nominal height	3200, 3400, 3600 mm
Sizes – nominal width	3250, 3450 mm
Sizes - nominal depth	600, 900 mm
Sizes – top curtain	1000, 1200 mm
Sizes – side curtain	600, 700 mm
Curtain colour	black
Parking guides	white, yellow
Wall fixings	concrete, sandwich, light concrete, Load house, cavity, insulated panel

Performance

Top and side curtains

Double layer high quality polyester:	
Thickness:	3,0 mm
Coating:	Front and back
Weight:	Approx. 3400g/m ²
Flammability:	DIN 75200
Tensile strength:	DIN 53354 <ul style="list-style-type: none"> • longitudinal strength: approx. 7000 N/5cm • transverse strength: approx. 5000 N/5cm
Tear elongation:	DIN 53363 <ul style="list-style-type: none"> • longitudinal strength: approx. 750 N • transverse strength: approx. 900 N

Continuous roof cover

One layer high quality polyester:	
Thickness:	0,5 mm
Coating:	Front and back
Total weight:	Approx. 680 g/m ²
Flammability:	DIN 75200
Tensile strength:	DIN 53354 <ul style="list-style-type: none"> • Longitudinal strength: approx. 2700 N/5cm • Transverse strength: approx. 2300 N/5cm
Tear elongation:	DIN 53363 <ul style="list-style-type: none"> • Longitudinal strength: approx. 300 N • Transverse strength: approx. 250 N

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1. Description

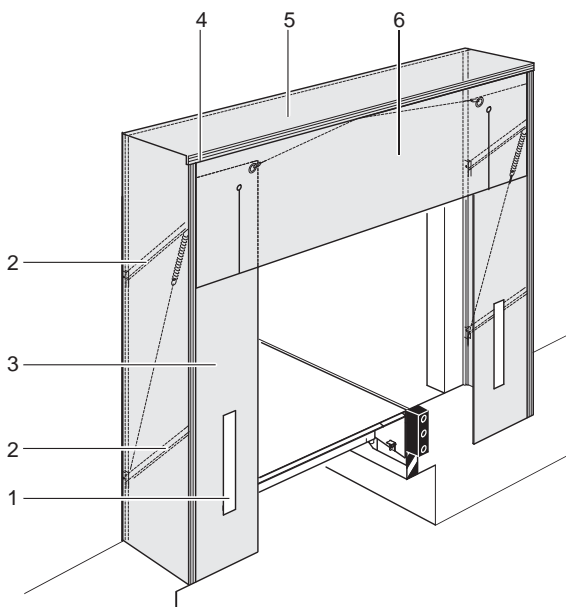
1.1 Application

The Crawford 660 curtain shelter SME is the standard solution for energy saving oriented operators. The vehicle reverses into the dock shelter which seals it off with flexible side and top curtains, giving weather protection during the loading and unloading process. The result is an improved working environment and goods protection. The curtain material has a very high wear and tear resistance. The Crawford curtain dock shelter is designed for wall installation and standard single Load houses.

1.2 Mode of operation

The sides and the roof push back under impact when vehicles dock inaccurately, whereby the roof rises automatically. Damages to vehicles and to the shelter are virtually eliminated. The front frame holds the curtain material which has a double woven textile reinforcement. The top curtain has a slit in the main wear area. At small additional cost the top curtain is partly splitted with a double overlapping layer of material. The dock shelter supply includes for all fixing materials and sealant.

1.3 Overview



- 1 White parking guides
- 2 Bracing arms
- 3 Side curtains
- 4 Extruded aluminium section
- 5 Continuous roof cover
- 6 Split top curtain

1.4 Standard

Nominal height	3200, 3400, 3600 mm
Nominal width	3250, 3450 mm
Side curtain	600 mm for NW = 3250 mm 700 mm for NW = 3450 mm
Top curtain	1000 mm
Nominal depth	600 mm
Curtain color and material	black PVC fabric
Parking guides	white

1.5 Options

Nominal depth	900 mm
Top part	rain channel
Top curtain	1000 mm splitted 1200 mm standard 1200 mm splitted digit on top curtain
Side curtain	reinforced rubber flaps placed left and right in lower corners behind the front curtain. notching on both sides
Parking guides	yellow
Wall fixings	concrete sandwich cavity insulated panel Load house
Corner seals	triangle or round cushions in lower corners of the dock shelter.

1.6 Description of available options

Standard options for improved working conditions and less draught into the building.

A Rain Channel

The unique channel is integrated in the middle of the roof part.

- Controlled water drainage

The water is led out left and right, not into the loading area

B Splitted top curtain

4 slits with double overlapping layer of PVC curtain material in the main wear area.

- Flexible coverage of rear top corners of docked vehicle for best sealing

Less draught into the building

C Digit on top curtain

300 mm high letters or numbers printed in the middle of the top curtain.

Individual customised marking of loading bays

D Reinforced rubber flaps

Robust rubber flap placed left and right in lower corners behind the front curtain

- Increased pressure on the docked vehicle body for best sealing
- Improved stability for the complete dock shelter in windy area

Less draught into the building

E Corner seals

Triangle or round cushions covered with PVC curtain material in lower corners of the dock shelter.

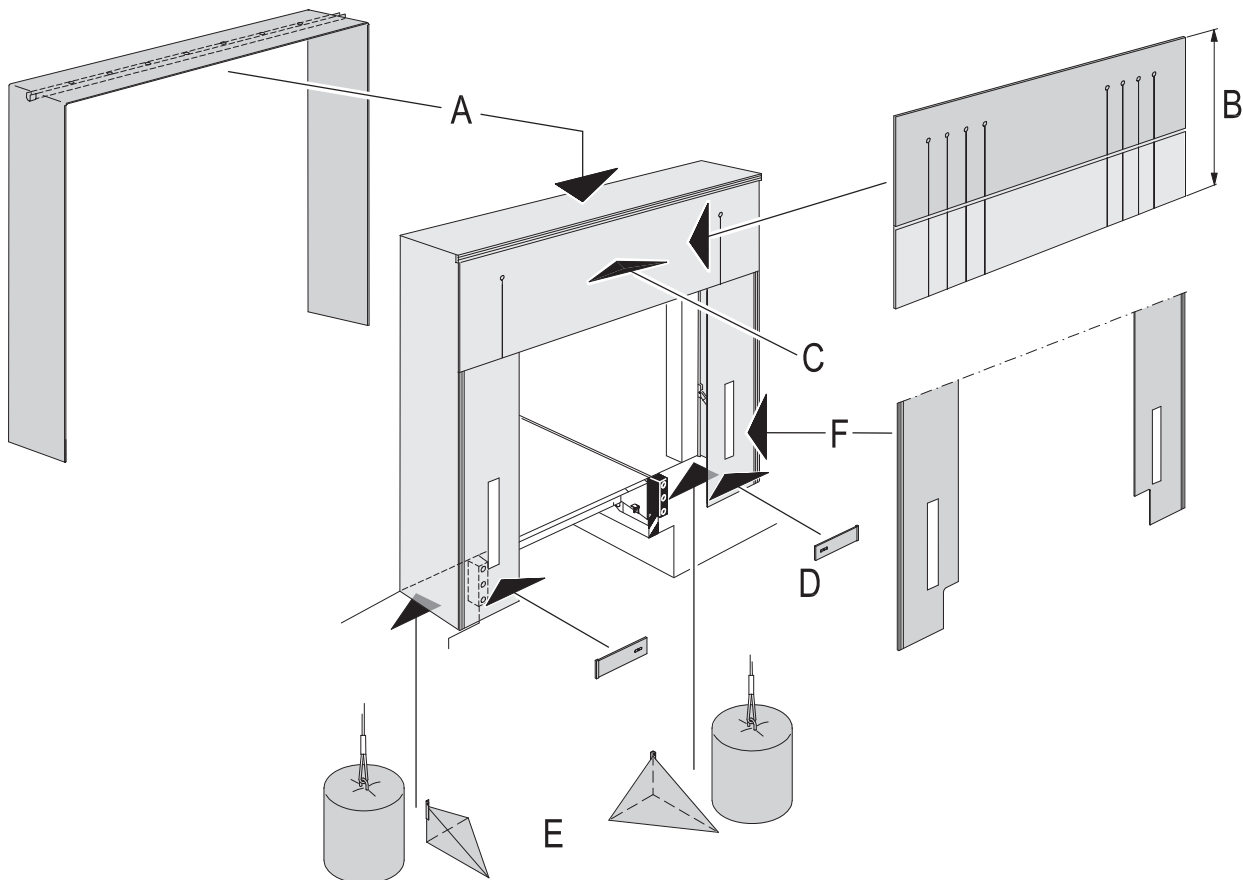
Minimization of draught from below during loading and unloading

F Notching on both sides

From factory a square of the lower corner front curtain is cut out.

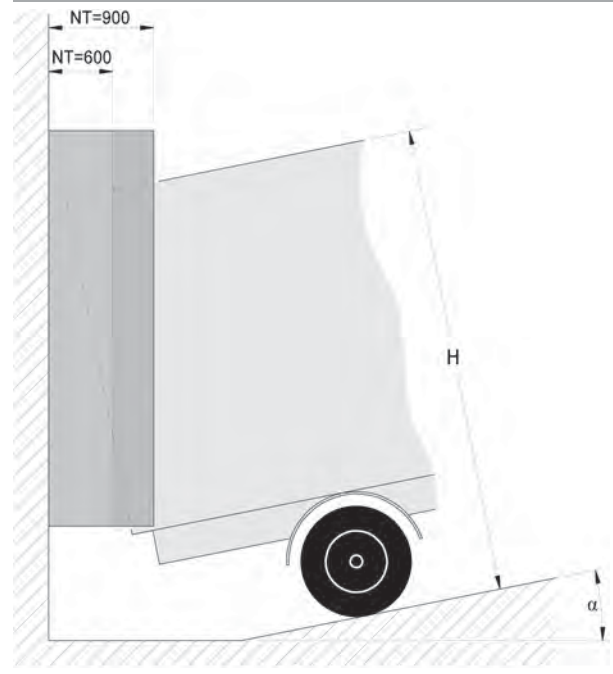
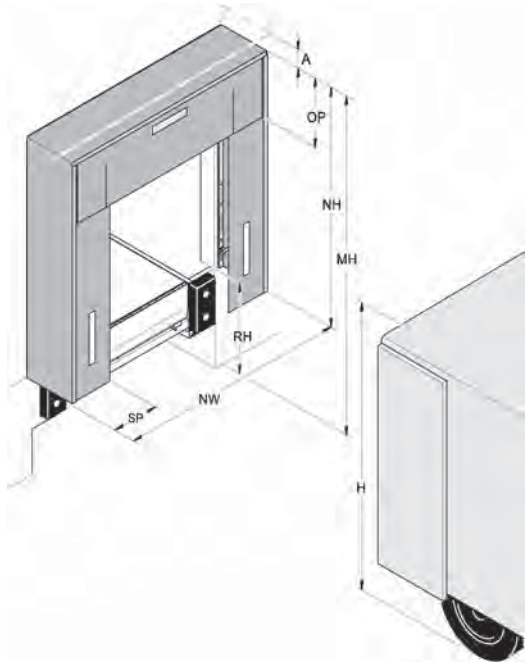
- Avoid damaged front curtains due to the collision between vehicle and buffer.

Recommended in combination with min. 140 mm deep buffers, like RB, EBH, EBF or steel spring buffer.





2. Selection Guide



2.1 Installation height

The installation height [MH] should be minimum 250 mm above the truck [H] to secure that the pressure is not too big on the complete top part of the shelter and in order to avoid damages or bad functionality.

2.2 Top curtain length

The length of the top curtain [OP] should be minimum 200 mm overlapping the truck in order to secure a good sealing effect.

2.3 Free space above

The minimum free space above the shelter [A] must not be less than $NT/2 - 100$.

2.4 Nominal depth

The nominal depth [NT] depends on the slope in front of the building [α] and the height of the truck [H]. To make sure that the truck is sealed completely NT should be bigger than $\alpha * H$.

2.5 Example

MH = 4500mm

OP = 1000mm

Hmax = MH - 250mm

Hmin = MH - OP + 200mm

$\alpha = 16\% (\sim 9^\circ)$

Hmax = 4500mm - 250mm = 4250mm

NT1 = $\alpha * H_{max} = 0,16 * 4250 = 680 \alpha$ NT 900

A1min = $900/2 - 100 = 350$ mm

Hmin = 4500mm - 1000mm + 200mm = 3700mm

NT2 = $\alpha * H_{min} = 0,16 * 3700 = 592 \alpha$ NT 600

A2min = $600/2 - 100 = 200$ mm

3. Specifications

3.1 Dimensions

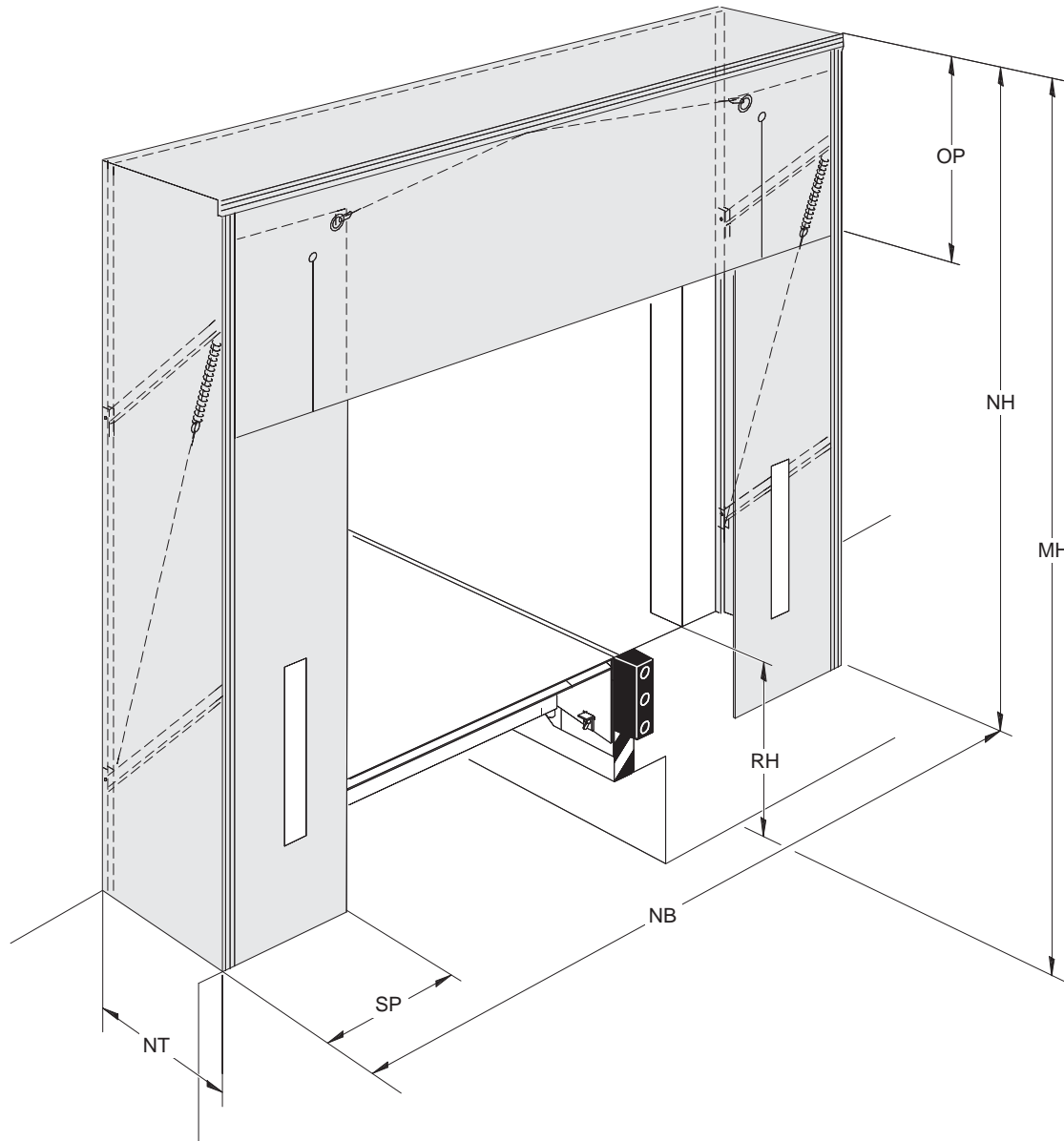
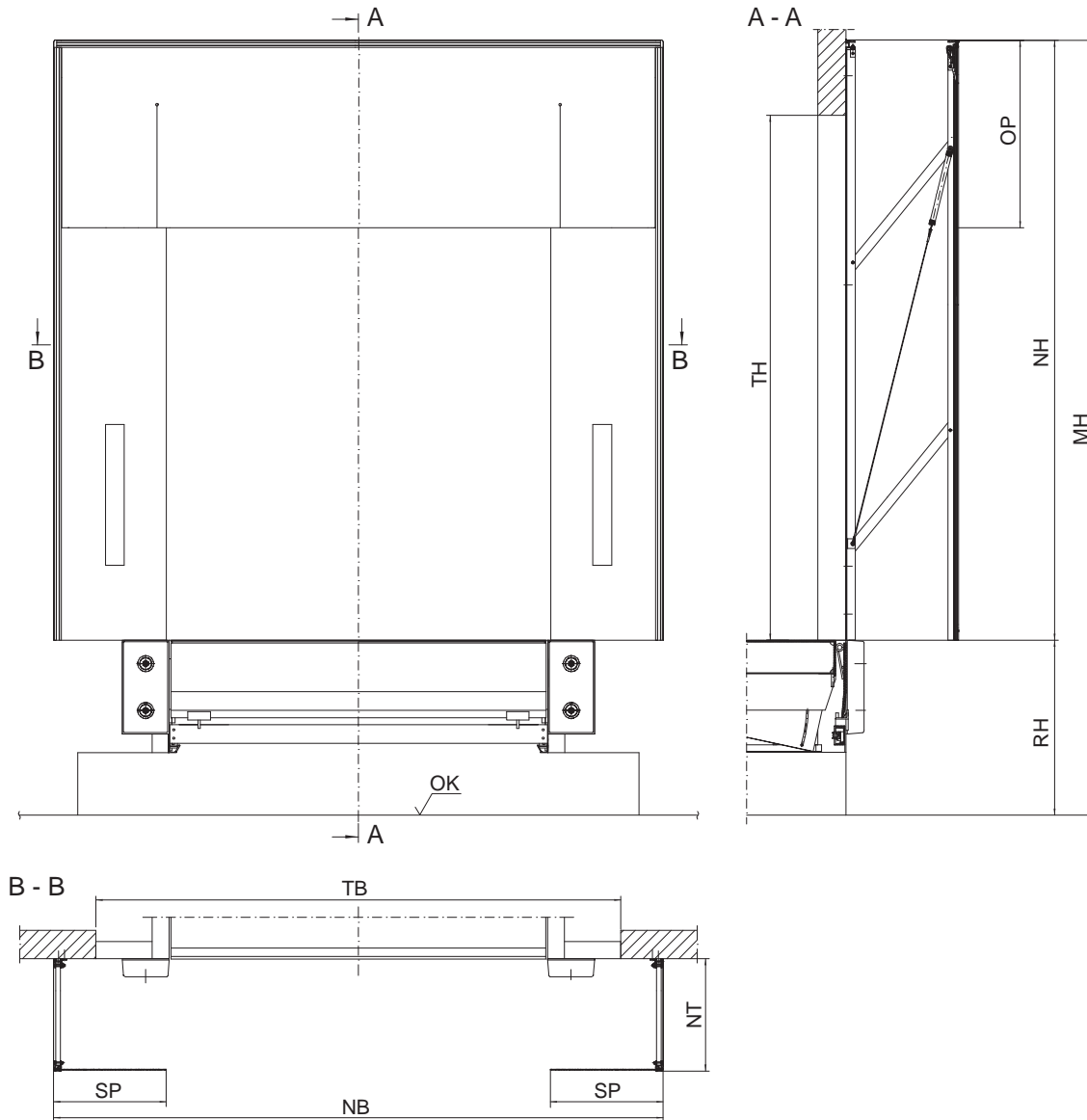


Abb.	Dimension	Value (mm)
NW	Nominal width	3250, 3450
NH	Nominal height	3200, 3400, 3600
OP	Length of top curtain	1000, 1200
SP	Width of side curtain	600, 700
MH	Installation height	4500 (recommended)
NT	Nominal depth	600, 900
RH	Ramp height	



4. Construction

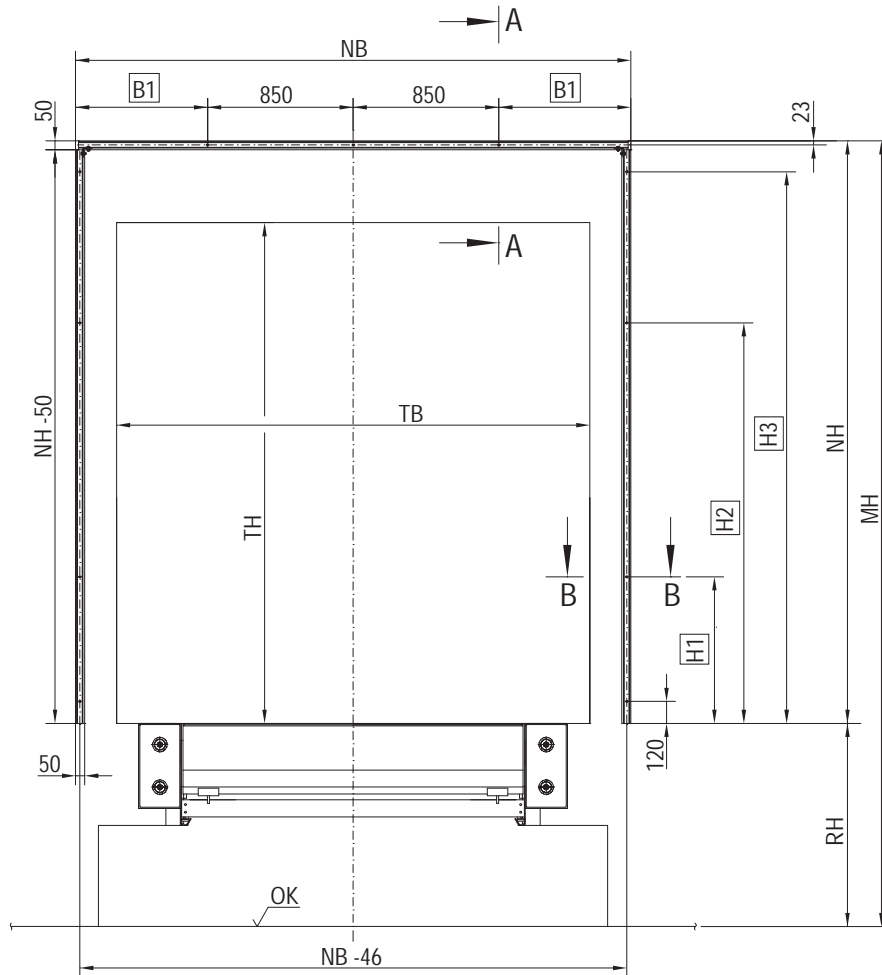
The Crawford 660 curtain shelter SME consists of a front and rear frame made of aluminium profiles which are connected to each other by bracing arms. The frame construction is covered on top and down the sides by a continuous textile reinforced cladding material.



- OK Yard level
- DH Door height
- OP Top curtain
- NH Nominal height
- MH Installation height
- RH Dock height
- DW Door width
- SP Side curtain
- NW Nominal width
- NT Nominal depth

5. Building and space requirements

5.1 Fixing points



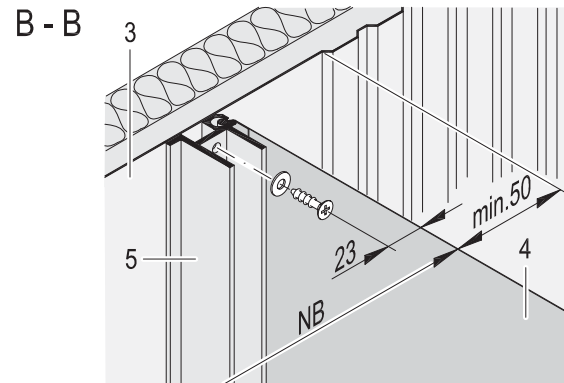
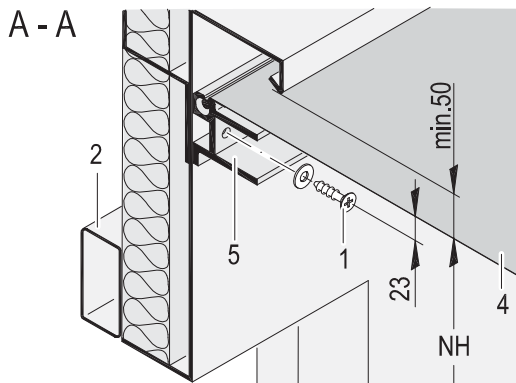
- OK Yard level
- DH Door height
- NH Nominal height
- MH Installation height
- RH Dock height
- DW Door width
- NT Nominal depth
- NW Nominal width

NB	NH	NT	B1	H1	H2	H3
3250	3200	600/900	775	395	1895	3030
	3400	600/900	775	495	1995	3230
	3600	600/900	775	595	2095	3430
3450	3200	600/900	875	395	1895	3030
	3400	600/900	875	495	1995	3230
	3600	600/900	875	595	2095	3430

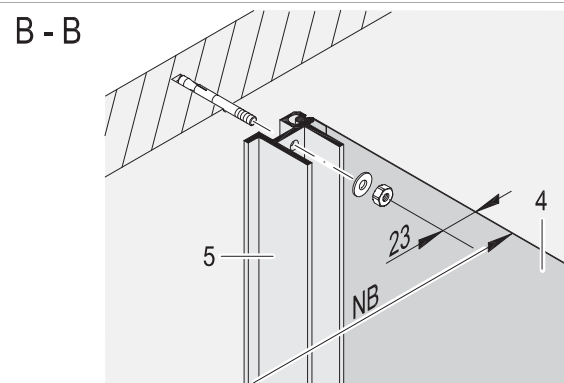
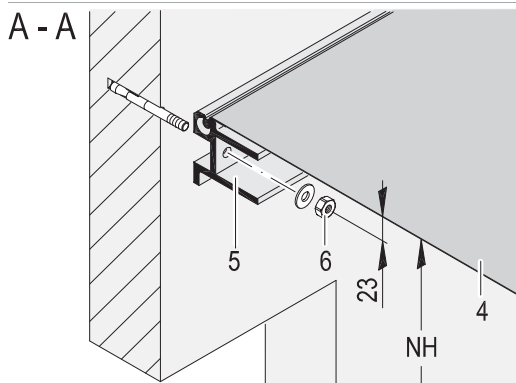


5.2 Wall fixings

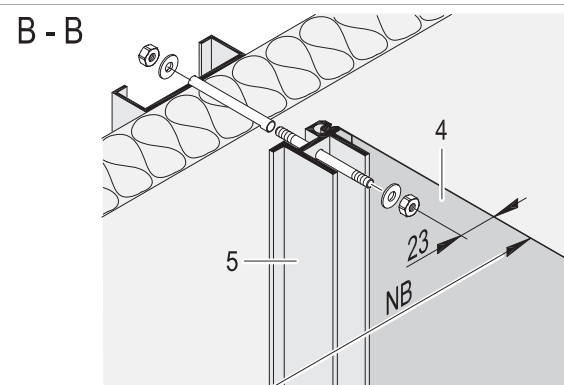
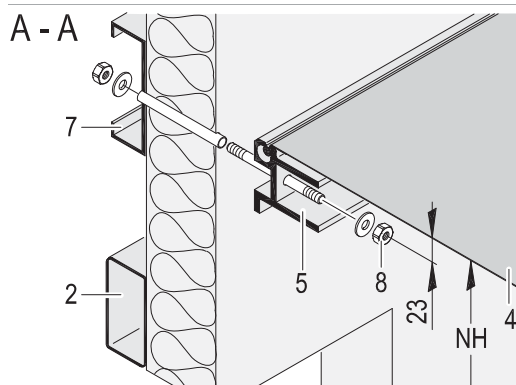
5.2.1 Cavity wall



5.2.2 Concrete wall



5.2.3 Insulated wall



- | | |
|---|--|
| 1 | Self-tapping screw |
| 2 | Door mounting frame rectangular tube 80x40x2 |
| 3 | Sheet metal 3 mm thick |
| 4 | Roof cover |
| 5 | Extruded aluminium section - rear frame |
| 6 | Expansion bolt |
| 7 | Mounting frame for dock shelter, 120x40x15x3 |
| 8 | Threaded bolt with nut, washer and spacer tube |
- 2, 3, 7 are not included in installation price

6. Service

Preventive Maintenance Program and Modernization Services

As your entrances are part of your business flow, there's every reason to keep them working well. ASSA ABLOY Entrance Systems offers you a maintenance and modernization expertise to rely on. Our Maintenance Programs and Modernization Services are backed by a extensive expertise for all types of industrial door and docking systems, independent of brand. At your disposal is a team of dedicated expert technicians, proven through decades of maintenance, service and satisfied customers.

Preventive Maintenance Programs

Minimizing lost time, lost energy and unexpected hassle is our team's constant objective. Our service organization can support you 24/7 in maintaining all industrial door and docking systems, independent of brand. If you want to be one step ahead of break-downs, explore our portfolio of Pro-Active Care plans. Naturally, we also offer entrance upgrades to suit your specific wishes and business needs.

Pro-Active Care - Maintenance plans to fit your business

Regular maintenance can extend the lifetime of your equipment and help prevent unexpected problems. Our technician arrives on-site equipped with the knowledge and tools to service all automatic entrances, independent of brand.

- **Pro-Active Bronze**

The base on which all Pro-Active Plans are built provides the security of knowing that your equipment is regularly inspected and certified for safety, as well as performing optimally. It includes a number of planned on-site visits depending on your needs. Any unplanned service calls required during the term of the contract (including labor, travel and parts) are billed at special Pro-Active Care prices.

- **Pro-Active Silver**

This plan provides all the benefits of Pro-Active Bronze with the added advantage of labor and travel being included for service calls during regular business hours. The only additional charge would be for any parts that may be needed throughout the term of the contract.

- **Pro-Active Gold**

This plan provides the ultimate protection for your automatic entrance investment. It includes all the benefits of Pro-Active Silver, plus replacement of any parts required during an unplanned repair or planned maintenance visit. Pro-Active Gold is an excellent way to budget your automatic door expenses annually.

- **Pro-Active Tailor-Flex**

Our most flexible maintenance and service offering. The Pro-Active Care plan is designed by you, our customer. The plan allows you to balance your maintenance expenses against your real-world budget and presents the option to add or delete a number of maintenance elements to suit your budget goals, while meeting your overall performance and safety needs.

Modernization

Your entrances are a long-term investment, from which you always want the best. Products develop over time, so do regulations and your business. Let us help you increase energy savings and meet today's standards. We provide advice and modernization kits for outdated installations, ensuring your investment meet requirements and performs optimally for many more years to come.

Re-Active Service		Pro-Active Care				
		Pro-Active Bronze	Pro-Active Silver	Pro-Active Gold	Pro-Active Tailor Flex	
		○	○	○	●	Other customized requests such as Response Time, Performance InfoPack and Advanced User Training
		○	○	●	○	Replacement of worn parts according to preventive Consumable Exchange Program
		○	○	●	○	Replacement of spare parts on breakdowns
		○	●	●	○	Travel and labor for additional call-out visits
		●	●	●	●	Preventive maintenance visits 1-4 times per year
		●	●	●	●	Travel and labor for preventive maintenance visits
		●	●	●	●	Response time and priority on call-outs <24h
		●	●	●	●	Preventive planned maintenance that meets the most demanding standards in the market
	●	●	●	●	●	Safety and quality checks according to applicable regulations and norms. Documentation of test results provided
●	●	●	●	●	●	Documentation of equipment status, assessment and service provided, all generated on site
●	●	●	●	●	●	Highly trained professional technicians with extensive knowledge, state-of-the-art tools and the right spare parts*
●	●	●	●	●	●	Dedicated Professional Customer Care Hotline
Corrective	SafetyCheck	Pro-Active Bronze	Pro-Active Silver	Pro-Active Gold	Pro-Active Tailor Flex	

● = Included as standard

○ = Available at special prices

* Well-stocked service vehicles with genuine and new spare parts



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