ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in door opening solutions



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Technical facts

Features

| Sizes – nominal height | 3280, 3480, 3680 mm |
|------------------------|--|
| Sizes – nominal width | 3250, 3450mm |
| Sizes - nominal depth | 600, 900 mm |
| Size – top curtain | 1000 mm |
| Curtain colour | Black |
| Parking guides | White |
| Wall fixings | Concrete, light concrete, Loadhouse, cavity, insulated panel |

Performance

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|--|--|--|-----|--|
| | | | | |
| | | | | |
| | | | | |

| Double layer high quali | ty polyester: |
|-------------------------|---|
| Thickness: | 3,0 mm |
| Coating: | Front and back |
| Weight: | Approx. 3400g/m ² |
| Flammability: | DIN 75200 |
| Tensile strength: | DIN 53354 • Longitudinal strength: approx. 7000 N/5cm • Transverse strength: approx. 5000 N/5cm |
| Tear elongation: | DIN 53363 Longitudinal strength: approx. 750 N Transverse strength: approx. 900 N |

Continuous roof cover

| One layer high quality p | oolyester: |
|--------------------------|---|
| Thickness: | 0,5 mm |
| Coating: | Front and back |
| Total weight: | Approx. 680 g/m ² |
| Flammability: | DIN 75200 |
| Tensile strength: | DIN 53354 • Longitudinal strength: approx. 2700 N/5cm • Transverse strength: approx. 2300 N/5cm |
| Tear elongation: | DIN 53363 Longitudinal strength: approx. 300 N Transverse strength: approx. 250 N |

Steel frame

| Surface treatment Z350: | Galvanized 25μm; |
|-------------------------|---|
| | Corrosive Category C3 M acc. DIN EN ISO 12944-2 |

Contents

| Cop | yright an | d Disclaimer Notice | 2 |
|-----|---|--|----|
| Tec | hnical fac | ts | 3 |
| Cor | itents | | 4 |
| 1. | Descrip | otion | 5 |
| | 1.2 M 1.3 Ov 1.4 St 1.5 O _I | oplication | |
| 2. | Selection | on Guide | 7 |
| 3. | 2.2 To 2.3 Fro 2.4 No 2.5 Ex | stallation height op curtain lengthee space above ominal depthample | |
| | 3.1 Di 3.2 Co | mensionsonstructionorrosive Category | |
| 4. | | g and space requirements | |
| | 4.2 W 4 4 4 | king points all fixings 2.1 Concrete wall 2.2 Light concrete wall 2.3 Cavity wall 2.4 Insulated wall | |
| 5. | Service | | 11 |
| Ind | ex | | 12 |

1. Description

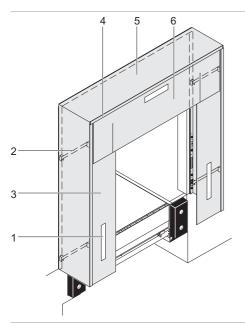
1.1 Application

The Crawford DS6060S curtain dock shelter steel 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 DS6060S curtain dock shelter steel is designed for wall installation and standard single or multi Loadhouses.

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. 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) Cold rolled steel profile
- 5) Continuous roof cover
- 6) Split top curtain

1.4 Standard

| Nominal height | 3280, 3480, 3680 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

| ٢ |
|---|
| |

Description 5

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: Digit on top curtain

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

Individual customised marking of loading bays

C: Corner seals

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

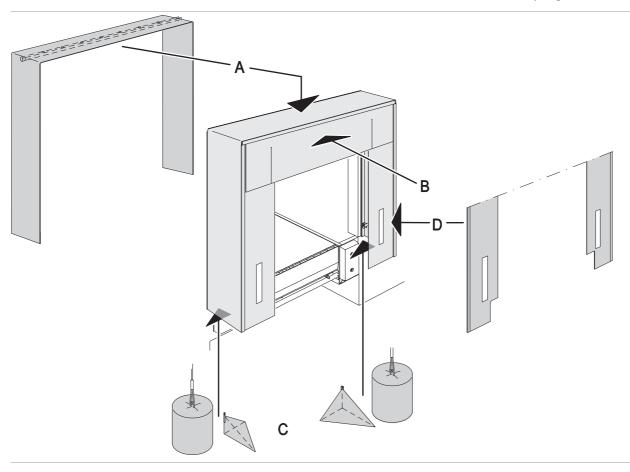
Minimization of draught from below during loading and unloading

D: 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.

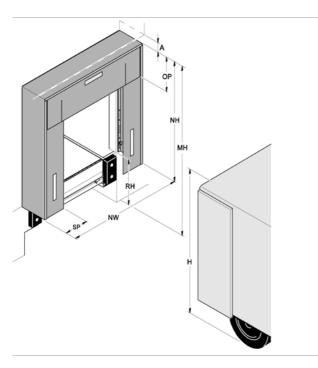


Description 6

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

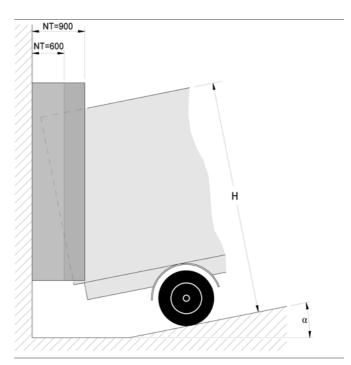
The length of the top curtain [OP] should be minimum 200 mm overlapping the truck in order to secure a good sealing effect.

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 $[\alpha]$ 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 = 4500 mm

OP = 1000 mm

Hmax = MH - 250mm

Hmin = MH - OP + 200mm

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

Hmax = 4500mm - 250mm = 4250mm

NT1 = ? * Hmax= 0,16 * 4250 = 680 ? NT 900

A1min = 900/2 - 100 = 350mm

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

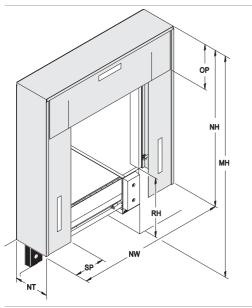
NT2 = ? * Hmin= 0.16 * 3700 = 592 ? NT 600

A2min = 600/2 - 100 = 200mm

Selection Guide 7

3. Specifications

3.1 Dimensions



| Abb. | Dimension | Value (mm) |
|------|-----------------------|--------------------|
| NW | Nominal width | 3250, 3450 |
| NH | Nominal height | 3280, 3480, 3680 |
| OP | Length of top curtain | 1000 |
| SP | Width of side curtain | 600,700 |
| МН | Installation height | 4500 (recommended) |
| NT | Nominal depth | 600, 900 |
| RH | Ramp height | |
| | | |

3.2 Construction

The Crawford DS6060S curtain dock shelter steel consists of a front and rear frame made of steel 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.

3.3 Corrosive Category

The DS6060S curtain dock shelter steel is suitable for the following environments, up to Corrosive Category C3 M:

- Atmospheres with low level of pollution; mostly rural areas.
- Urban and industrial atmospheres, moderate sulphur dioxide pollution.
- Costal areas with low salinity.

The DS6060S curtain dock shelter steel is NOT suitable for the following environments (C4 & C5-I M):

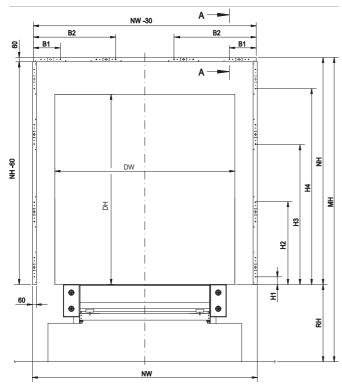
- Industrial areas and coastal areas with moderate salinity.
- Industrial areas with high humidity and aggressive atmosphere.
- Coastal and offshore areas with high salinity.

For these environments our DS6060E or DS6060P dock shelters with aluminium profiles are suitable.

Specifications 8

4. Building and space requirements

4.1 Fixing points



NH Nominal height

NW Nominal width

MH Installation height

RH Dock height

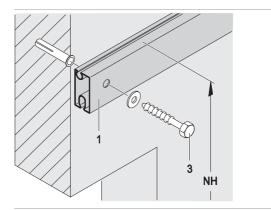
DW Door width

DH Door height

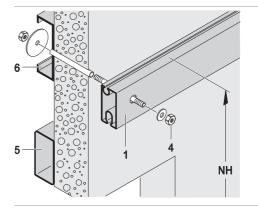
| NW | NH | B1 | B2 | H1 | H2 | Н3 | H4 |
|-------------|------|-----|------|-----|------|------|------|
| 3250 / 3450 | 3280 | 389 | 1189 | 111 | 1189 | 2031 | 2831 |
| 3250 / 3450 | 3480 | 389 | 1189 | 111 | 1189 | 2231 | 3031 |
| 3250 / 3450 | 3680 | 389 | 1189 | 111 | 1189 | 2431 | 3231 |

4.2 Wall fixings

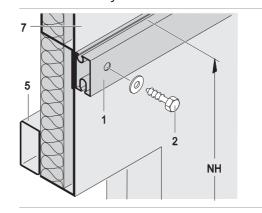
4.2.1 Concrete wall



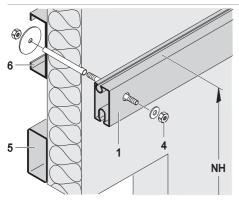
4.2.2 Light concrete wall



4.2.3 Cavity wall



4.2.4 Insulated wall



| 1 | Cold rolled steel profile |
|---|--|
| 2 | Self-tapping screw |
| 3 | Expansion bolt |
| 4 | Threaded bolt with nut, washer and spacer tube |
| 5 | Door mounting frame rectangular 80x40x2* |
| 6 | Mounting frame for dock shelter 120x40x15x3* |
| 7 | Sheet metal 3 mm thick* |

^{*} not included in delivery

5. 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 | | |
|------------------------|---|-----------------------------------|---------------------------|--|
| | 0 | 0 0 | 0 | Other customized requests such as Response Time, Performance InfoPack and Advanced User Training |
| | 0 | 0 | 0 | Replacement of worn parts according to preventive Consumable Exchange Program |
| | 0 | 0 | 0 | Replacement of spare parts on breakdown |
| | 0 | • | 0 | 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 standard 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-au tools and the right spare parts* |
| • • | • | • | • | Dedicated Professional Customer Care Hotline |
| Corrective SafetyCheck | | -Active Pro-Active Silver Gold | Pro-Active Tailor Flex | = Included as standard |
| | | | | = Included as standard = Available at special prices |

*Well-stocked service vehicles with

Service 11

Index

| A |
|---|
| Application5 |
| В |
| Building and space requirements9 |
| C |
| Cavity wall |
| Description5 |
| Description of available options6 Dimensions8 |
| E |
| Example7 |
| F |
| Features |
| Installation height7 Insulated wall10 |
| L |
| Light concrete wall9 |
| Mode of operation5 |
| N |
| Nominal depth7 |
| 0 |
| Options5 Overview5 |
| P |
| Performance3 |

| S | |
|-----------------------|----|
| Selection Guide | 7 |
| Service | 11 |
| Specifications | 8 |
| Standard | 5 |
| Steel frame | 3 |
| Т | |
| Technical facts | 3 |
| Top and side curtains | 3 |
| Top curtain length | 7 |
| W | |
| Wall fixings | 9 |

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