Product datasheet
High speed door
ASSA ABLOY HS8010P & ASSA ABLOY HS8020P

ASSA ABLOY Entrance Systems
Copyright and Disclaimer Notice

Although the contents of this publication have been compiled with the greatest possible care, ASSA ABLOY Entrance Systems cannot accept liability for any damage that might arise from errors or omissions in this publication. We also reserve the right to make appropriate technical modifications/replacements without prior notice.

No rights can be derived from the contents of this document.

Color guides: Color differences may occur due to different printing and publication methods.

No part of this publication may be copied or published by means of scanning, printing, photocopying, microfilm or any other process whatsoever without prior permission in writing by ASSA ABLOY Entrance Systems. Copyright © ASSA ABLOY Entrance Systems AB 2006-2017. All rights reserved.

ASSA ABLOY, Besam, Albany and Megadoor as word and logo are trademarks belonging to the ASSA ABLOY Group.
## Technical facts

### Features

<table>
<thead>
<tr>
<th>Area of use:</th>
<th>Interior/Exterior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure:</td>
<td>Galvanized steel</td>
</tr>
<tr>
<td>Max size: (W x H)*</td>
<td>18'0&quot; (5486 mm) X 18'0&quot; (5486 mm)</td>
</tr>
<tr>
<td>Colors:</td>
<td>9 standard colors - white, yellow, green, orange, red, gray, black, blue, brown</td>
</tr>
<tr>
<td>Safety:</td>
<td>Photocells in side columns Flexible soft bottom edge including wireless edge activator Break-away and self-repair function</td>
</tr>
<tr>
<td>Options:</td>
<td>Different vision options are available. Color of drum cover, side column cover, motor cover.</td>
</tr>
</tbody>
</table>

* Other sizes available on request

### Performance

<table>
<thead>
<tr>
<th>Operating speed:</th>
<th>Opening: up to 96 in/sec (2,4 m/s)** Closing: 48&quot; in/sec (1,2 m/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water penetration:</td>
<td>Class 2  (50 Pa (N/m²))</td>
</tr>
<tr>
<td>Air permeability</td>
<td>Class 1 (24 m³/m²/h at 50 Pa)</td>
</tr>
<tr>
<td>Thermal transmittance:</td>
<td>6,02 W/(m²K)</td>
</tr>
<tr>
<td>Lifetime expectations:</td>
<td>1.000.000 cycles</td>
</tr>
<tr>
<td>Temperature working range:</td>
<td>-4 °F to104 °F (-20 °C to +40 ºC)</td>
</tr>
</tbody>
</table>

** Depending on door size
Product datasheet
High speed door
ASSA ABLOY HS8010P & ASSA ABLOY HS8020P

Contents

Copyright and Disclaimer Notice ..................................................................................................................................................2

Technical facts ..................................................................................................................................................................................3

Contents .......................................................................................................................................................................................4

1. Description ..................................................................................................................................................................................5

1.1 General .......................................................................................................................................................................................5
  1.1.1 Standard .................................................................................................................................................................................5
  1.1.2 Options ..................................................................................................................................................................................5

1.2 Door curtain .................................................................................................................................................................................5
  1.2.1 Construction .......................................................................................................................................................................5
  1.2.2 Material ..................................................................................................................................................................................5
  1.2.3 Colors ....................................................................................................................................................................................6
  1.2.4 Windows and vision panels ...............................................................................................................................................6
  1.2.5 Insulated door curtain ........................................................................................................................................................6
  1.2.6 Self repair system ..............................................................................................................................................................6
  1.2.7 Bottom edge .......................................................................................................................................................................6

1.3 Side columns ..............................................................................................................................................................................7
  1.3.1 General ..................................................................................................................................................................................7
  1.3.2 Wind reinforcement ............................................................................................................................................................7

1.4 Header box ...................................................................................................................................................................................7
  1.4.1 Fabric roll ..............................................................................................................................................................................7
  1.4.2 Covers ...................................................................................................................................................................................7

1.5 Operating system .......................................................................................................................................................................8
  1.5.1 General ..................................................................................................................................................................................8
  1.5.2 Operator ................................................................................................................................................................................8
  1.5.3 Door drive system ...............................................................................................................................................................8
  1.5.4 Control unit .........................................................................................................................................................................8
  1.5.5 Chain hoist .............................................................................................................................................................................8
  1.5.6 Access and automation .......................................................................................................................................................9-11

2. Specifications .............................................................................................................................................................................12

2.1 Daylight width and height .......................................................................................................................................................12
2.2 Fabric specifications .................................................................................................................................................................12
2.3 Windows.....................................................................................................................................................................................12
  2.3.1 Required Daylight Width ..................................................................................................................................................12
  2.3.2 Required Daylight Height .................................................................................................................................................12

2.4 Vision panels............................................................................................................................................................................13
  2.4.1 15” vision panel .................................................................................................................................................................13
  2.4.2 30” vision panel .................................................................................................................................................................13

3. CEN Performance .....................................................................................................................................................................14

4. Building and space requirements .........................................................................................................................................15

4.1 Building preparations .................................................................................................................................................................15
  4.1.1 Installation preparations ......................................................................................................................................................15
  4.1.2 Electrical preparations ......................................................................................................................................................15

4.2 Space requirements .................................................................................................................................................................16

Index ........................................................................................................................................................................................................17
1. Description

1.1 General

The ASSA ABLOY HS8010P & ASSA ABLOY HS8020P high speed door is designed for exterior and interior openings in medium-sized heavy-duty operations. It protects your environment against draughts, humidity, dust and dirt. With fast opening and closing speed, the door improves your traffic flow, provides employee comfort, and saves energy.

The ASSA ABLOY HS8010P & ASSA ABLOY HS8020P high speed door has 4 primary parts:
1) Door curtain
2) Side columns
3) Header box
4) Operating system

1.1.1 Standard

The ASSA ABLOY HS8010P & ASSA ABLOY HS8020P high speed door is supplied with the following specifications as standard:

| Door curtain: | 27oz per sq yd colored PVC |
| Structure: | Galvanized steel |
| Side column: | Wind reinforcement 230 mm at the bottom |
| Safety: | Photocells in side columns, Flexible soft bottom edge including wireless edge activator, Break-away and self-repair function |
| Operation: | Operator + control unit |
| Colors: | 9 standard colors - white, yellow, green, orange, red, gray, black, blue, brown |

1.1.2 Options

ASSA ABLOY provides a wide range of options and accessories to customize the ASSA ABLOY HS8010P & ASSA ABLOY HS8020P high speed door to most customer needs.

| Header box: | Galvanized steel drum cover, Galvanized steel operator cover |
| Side column: | Galvanized steel side column covers |
| Windows: | Small windows or; Vision panels |
| Insulated door curtain | Static insulation 2.41 W/m²K (max. 15' 0" x 15' 0") |

1.2 Door curtain

1.2.1 Construction

The door curtain is constructed from one single piece of PVC fabric. The door curtain rolls up above the door opening and requires little space.

Top

The top of the fabric is connected to a fabric roll, located in the header box above the door opening.

Bottom

The flexible bottom edge of the door curtain does not contain any stiffeners, making the door curtain completely safe as the curtain moulds itself in case a person is trapped below the closing door.

Side

The left and right sides of the door curtain are constructed with a patented retaining strap. If the door is hit by a vehicle, a part of this retaining strap is pulled out of the side column. The self repair function acts as a zipper to put the retaining strap back in the side column.

1.2.2 Material

Fabric type

- 27oz per sq yd colored PVC,
- high resistance
1.2.3 Colors
The ASSA ABLOY HS8010P & ASSA ABLOY HS8020P high speed door is available in 9 standard colors fabric colors and translucent Dynalumin. The RAL-colors are as close as possible to the official RAL HR collection. Max. deviation is 1,0 DE.

![Colors](image)

1.2.4 Windows and vision panels
To increase the admission of daylight or to improve the visibility, the door curtain can be equipped with windows or vision panels. Windows have fixed sizes and are located on a pre-defined grid. A vision panel is always located on the full width of the door curtain with its center height at the industry of standard approximately 63" (1600 mm) to center from floor.

![Windows and vision panels](image)

1.2.5 Insulated door curtain
For an improved temperature management an insulated door curtain is available with static insulation of 2.41 W/m²K
- Max. 15’0” x 15’0”
- With drum cover (option)
- No windows

1.2.6 Self repair system
The high speed doors are equipped with an automatic repair system. If a door is hit by a vehicle during operation, the resistant door curtain absorbs the impact and releases itself from its side guides without damage. The door reinserts itself automatically within the next open and close cycle. This unique feature makes the door crash-resistant without sustaining damage, reducing production downtime and maintenance.

![Self repair system](image)

1.2.7 Bottom edge
The bottom edge is a flexible bag that contains a wireless edge activator. When the door is hit by a vehicle, the curtain folds around the object and the contacts within the bottom edge make a closed circuit. The wireless signal is then sent to the operator to stop the door movement immediately.

![Bottom edge](image)
1.3 Side columns  
The side columns guide the door curtain up and down. This guidance is a plastic-to-plastic connection, which makes lubrication essential.

1.3.1 General  
The side columns are part of the frame that also contains the header box. This frame is made of 3 mm thick galvanized steel tubes. The side columns are connected directly to the wall.

1.3.2 Wind reinforcement ASSA ABLOY HS8010P  
A wind reinforcement is installed around the side guides to increase the wind load resistance of the door. Wind load on the door curtain is transferred to the flexible (spring-installed) side guides. This reinforcement increases the stiffness of the side columns, preventing that the curtain will be pulled out of the side guides at very high wind loads.

1.4 Header box  

1.4.1 Fabric roll  
The fabric roll is installed in the header box above the door curtain. Its function is to roll up the door curtain by means of a counterweight. A gear drive system forces the door curtain up and down the tracks.

1.4.2 Covers  
For use in dusty and dirty environments or for aesthetical reasons, an optional header box cover is available to enclose the fabric roll and/or the operator. Also the side columns can be equipped with covers.
1.5 Operating system

1.5.1 General
The ASSA ABLOY HS8010P & ASSA ABLOY HS8020P high speed door is always operated electrically. The operating system is a combination of an operator and a control unit. The operator opens and closes the door with an electric engine. The operator secures a safe closing speed with a soft start and stop.

1.5.2 Operator
Exceptional reliability and smooth operation is ensured by a motor driven by a frequency inverter. This technology ensures a soft start and stop, which increases the longevity of the motor considerably. It also allows faster opening/closing speed. This motor delivers reliable operations around-the-clock. The operator is always combined with a control unit.

The operator drives the fabric roll to open or close the door. In case of a main supply failure, the operator can be disconnected and the door can be opened or closed manually using the hand crank.

1.5.3 Door drive system
The high speed doors are equipped with a unique door drive system. This system eliminates the need for ballast in the door curtain or tension straps. This gear driven system consists of a pinion on the drive shaft that forces the lateral retaining straps up or down the tracks. This ensures that even under high pressure difference the door will be fully closed.

1.5.5 Chain hoist
A chain hoist makes it possible to manually operate the door, e.g. during a power failure. When the electrical operation is in use, the chain hoist is disconnected. When manual operation is required, pulling a string will release the motor brake, allowing the drum to rotate freely, using the chain hoist.
1.5.6 Access and automation
ASSA ABLOY offers a wide range of functions that allow advanced opening and safety control.

1.5.6.1 Basic control functions

Interlocking
Developed for climate control or safety. If door A is open, door B cannot be opened. If door B is open, door A cannot be opened. An interlocked door can remember an up-command, if selected via a micro switch. Optionally an external locked switch can be installed to deactivate it.

- Function Interlock operating (switch interlock ON/OFF delivered with priority door)
- Switch interlock on/off (requires interlock function)

Airlock
Developed for climate control or safety. Other than the interlock, door B will open automatically when door A is closed. Circuit card Installed in control unit. Optionally an external locked switch can be installed to deactivate it.

Reduced opening
When people pass through the door, it may be unnecessary to fully open a door. A manual (pedestrian) command can trigger a reduced door opening, while a radar or magnetic loop still triggers a full door opening. Pre-fitted micro-switch to be activated in control unit.

- Function Two opening heights I/II with manual selection (switch included)
- Function Two opening heights I/II with automatic selection (2 different opening impulses)

1.5.6.2 External control functions

External push button box
An extra control box is installed outside the building or inside close to the door if the main control unit needs to be installed away from the door opening. Usually combined with reduced opening. Installed on the inside or outside wall beside the door.

Pull-rope switch
A pull-rope switch above the door opening can be operated from e.g. a forklift truck. Pulling the rope opens the door. Installed on the inside construction above the door.

- Pull down switch complete 5 m cord

Remote control
A hand-held radio transmitter allows door operation from a vehicle or any position within 50-100 meters from the receiver and aerial at the door. For closing, the door can be provided with a photocell beam. Receiver installed in control unit, antenna installed on the wall beside the door.
1.5.6.3 Automatic control functions

- Function Auto/Manual (includes switch on the control box)
- Function Manual closing with opening/closing using a common manual command (e.g. one single pull rope opens and closes the door)
- Function Manual closing with separate impulse (e.g. 2 buttons up and down)

### Magnetic loop

A sensor in the floor detects a metal object (usually forklift trucks, pallet trucks) and opens the door automatically. This is an ideal solution for frequent vehicle traffic. Installed on the outside, inside or both sides of the door in the floor.

### Radar

An infrared sensor above the door detects an object (person, vehicle) within a specified distance from the door and opens the door automatically. This is an ideal solution for frequent vehicle or personal traffic. Often combined with automatic closing. Installed on the inside or outside wall above the door.

### Photocell open door

A set of photocells on pillars, on each side of the door. When a person or vehicle passes between the photocells, the beam is interrupted and the door opens. Photocells installed on pillars, away from the door.

### Automatic closing (standard)

A programmable timer that closes the door after a specified time, counted from either the fully open position and/or from passing through the photocell beam. Usually also a switch on the control unit is used to turn to manual closing. Adjustable micro switches in control unit.

1.5.6.4 Safety functions

### Wireless edge activator (standard)

All doors are equipped with an edge activator. A wireless edge activator in the bottom seal detects any obstruction under a closing door and reverses the door. Installed in the bottom edge.

### Safety photocells 1-channel (standard)

A set of a photocell transmitter and receiver is installed in the door opening. If the photocell beam is interrupted during closing, the door will stop in less than 30 mm and reverse to the fully open position. Installed in the door opening 300 mm from floor level.

### Warning lights - Red

A red warning light on each side gives information on the current door behaviour. Flashing light seconds before and during door movement. Installed on the inside and outside wall beside the door.

### Acoustic signal

An acoustic signal is given, starting ...ms before the door begins to close and continues until the door is fully closed. Installed on the inside and outside wall beside the door.

- Acoustic signal 24VAC 80 dB at 1 meter (horn when door is moving)
1.5.6.3 Lights

- Standard function flashing light
- Standard function flashing light with pre-warning before closing and opening

**Warning lights - Orange**

An orange warning light on each side gives information on the current door behaviour. Flashing light seconds before and during door movement. Installed on the inside and outside wall beside the door.

**Warning lights - Green**

A green warning light installed on each side of the door indicating the open position of the door by continuous light signal.

**Traffic lights - Red & Green**

If traffic through a door needs to be directed; two red and two green traffic lights can be installed to indicate traffic direction. From the side where a vehicle is first detected to approach the door, the green traffic light comes on. The opposing side shows a red traffic light. Traffic from this direction must give way to the other. Usually installed in e.g. parking garages. Installed on the inside and outside wall beside the door.
2. Specifications

2.1 Daylight width and height

The standard ASSA ABLOY HS8010P & ASSA ABLOY HS8020P high speed door is delivered in the following size range:

<table>
<thead>
<tr>
<th>Standard door sizes*</th>
<th>Daylight width</th>
<th>Daylight height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min.:</td>
<td>3’ 0”</td>
<td>7’ 0”</td>
</tr>
<tr>
<td>Max.:</td>
<td>18’ 0”</td>
<td>18’ 0”</td>
</tr>
</tbody>
</table>

* Other sizes may be available on request

2.2 Fabric specifications

<table>
<thead>
<tr>
<th></th>
<th>Colored fabric</th>
<th>Vision panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Reinforced PVC</td>
<td>PVC</td>
</tr>
<tr>
<td>Thickness</td>
<td>0,8 mm</td>
<td>2,0 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>900 g/m²</td>
<td>2,5 kg/m²</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>4,0 L / 3,5 W</td>
<td>1,6</td>
</tr>
<tr>
<td>Tearing resistance</td>
<td>600 N (DIN 53363)</td>
<td>100 N (DIN 53515)</td>
</tr>
</tbody>
</table>

2.3 Windows

Dimensions: W x H: 24” x 24”.

Combinations: Any combination of rows is possible.

2.3.1 Required Daylight Width

<table>
<thead>
<tr>
<th>DLW</th>
<th>Available no. of columns</th>
</tr>
</thead>
<tbody>
<tr>
<td>44” – 76”</td>
<td>1</td>
</tr>
<tr>
<td>77” – 107”</td>
<td>2</td>
</tr>
<tr>
<td>108” – 138”</td>
<td>3</td>
</tr>
<tr>
<td>139” – 169”</td>
<td>4</td>
</tr>
<tr>
<td>170” – 200”</td>
<td>5</td>
</tr>
</tbody>
</table>

2.3.2 Required Daylight Height

<table>
<thead>
<tr>
<th>DLH</th>
<th>Available no. of rows</th>
<th>CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>80”</td>
<td>1</td>
<td>63”</td>
</tr>
<tr>
<td>109”</td>
<td>2</td>
<td>91”</td>
</tr>
<tr>
<td>132”</td>
<td>3</td>
<td>120”</td>
</tr>
<tr>
<td>166”</td>
<td>4</td>
<td>149”</td>
</tr>
<tr>
<td>195”</td>
<td>5</td>
<td>178”</td>
</tr>
</tbody>
</table>

![Diagram of window combinations](image-url)
2.4  Vision panels

A vision panel can be installed at any DLW. At every 86" DLW, the vision panel will be fitted with a vertical reinforcement strip. Vision panels are available in 15" and 31" height.

2.4.1  15" vision panel

<table>
<thead>
<tr>
<th>Daylight Height</th>
<th>Available no. of vision panels</th>
<th>CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 76'</td>
<td>1</td>
<td>63&quot;</td>
</tr>
<tr>
<td>≥ 98&quot; mm</td>
<td>2</td>
<td>84&quot;</td>
</tr>
</tbody>
</table>

2.4.2  31" vision panel

<table>
<thead>
<tr>
<th>Daylight Height</th>
<th>Available no. of vision panels</th>
<th>CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 84'</td>
<td>1</td>
<td>63&quot;</td>
</tr>
<tr>
<td>≥ 122&quot;</td>
<td>2</td>
<td>88&quot;</td>
</tr>
</tbody>
</table>
### CEN Performance - ASSA ABLOY HS8010P

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Standard</th>
<th>Test acc.</th>
<th>Result</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind load</td>
<td>EN 12424</td>
<td>EN 12444</td>
<td>Class 3*</td>
<td>700 Pa (N/m²)</td>
</tr>
<tr>
<td>Water permeability</td>
<td>EN 12425</td>
<td>EN 12489</td>
<td>Class 2</td>
<td>50 Pa (N/m²) water spray for 20 minutes</td>
</tr>
<tr>
<td>Air permeability</td>
<td>EN 12426</td>
<td>EN 12427</td>
<td>Class 1</td>
<td>24 m³/m²/h at 50 Pa</td>
</tr>
<tr>
<td>Safe openings</td>
<td>EN 12453</td>
<td>EN 12445</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>Mechanical resistance</td>
<td>EN 12604</td>
<td>EN 12605</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>Unintended movements</td>
<td>EN 12604</td>
<td>EN 12605</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>Thermal resistance</td>
<td>EN 12428</td>
<td></td>
<td></td>
<td>6.02 W/(m²K)</td>
</tr>
<tr>
<td>Performance (cycles)</td>
<td>EN 12604</td>
<td>EN 12605</td>
<td></td>
<td>1.000,000 cycles</td>
</tr>
</tbody>
</table>

*Indicated wind-load classification is for maximum dimension. For doors up to W 4000 mm x H 5500 mm: Class 4 (1000 Pa (N/m²))

---

### CEN Performance - ASSA ABLOY HS8020P

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Standard</th>
<th>Test acc.</th>
<th>Result</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind load</td>
<td>EN 12424</td>
<td>EN 12444</td>
<td>Class 4*</td>
<td>1000 Pa (N/m²)</td>
</tr>
<tr>
<td>Water permeability</td>
<td>EN 12425</td>
<td>EN 12489</td>
<td>Class 3</td>
<td>&gt;&gt;50 Pa (N/m²)</td>
</tr>
<tr>
<td>Air permeability</td>
<td>EN 12426</td>
<td>EN 12427</td>
<td>Class 1</td>
<td>24 m³/m²/h at 50 Pa</td>
</tr>
<tr>
<td>Safe openings</td>
<td>EN 12453</td>
<td>EN 12445</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>Mechanical resistance</td>
<td>EN 12604</td>
<td>EN 12605</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>Unintended movements</td>
<td>EN 12604</td>
<td>EN 12605</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>Thermal resistance</td>
<td>EN 12428</td>
<td></td>
<td></td>
<td>6.02 W/(m²K)</td>
</tr>
<tr>
<td>Performance (cycles)</td>
<td>EN 12604</td>
<td>EN 12605</td>
<td></td>
<td>1.000,000 cycles</td>
</tr>
</tbody>
</table>

*Indicated wind-load classification is for maximum dimension. For doors up to W 5000 mm x H 5500 mm: Class 5 (1000 Pa (N/m²))
4. Building and space requirements

4.1 Building preparations

4.1.1 Installation preparations
The door is pre-assembled in the factory as much as possible to ensure that installation can be carried out easily and quickly. The door is installed directly on the wall. A forklift truck is needed to raise the frame to the wall. The fixation of the wall must be of an adequate strength to sustain the wind load as well as the blow of a collision.

4.1.2 Electrical preparations
The following environment criteria and electrical supplies are required for the operator to function properly:

<table>
<thead>
<tr>
<th>Voltage supply</th>
<th>208V 1-Phase</th>
<th>230V 1-Phase</th>
<th>208V 3-Phase</th>
<th>230V 3-Phase</th>
<th>460V 3-Phase</th>
<th>575V 3-Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>1,5 kW 3 x 16A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>50Hz - 60Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Degree of protection</td>
<td>Operator: IP65</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Control unit: IP54</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature working range</td>
<td>-4 °F to 104 °F (-20 °C to +40 °C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4.2 Space requirements

![Diagram of space requirements with dimensions](image)

### Table: Variable Dimensions

<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>DIM A</th>
<th>DIM B</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LARGE COVERS</td>
<td>22.50&quot;</td>
<td>25.60&quot;</td>
<td>DH &gt; 15FT</td>
</tr>
<tr>
<td>STANDARD COVERS</td>
<td>20.00&quot;</td>
<td>20.60&quot;</td>
<td>DH &lt;= 15FT</td>
</tr>
<tr>
<td>NO COVERS, STANDARD LINTEL</td>
<td>20.00&quot;</td>
<td>20.60&quot;</td>
<td></td>
</tr>
<tr>
<td>NO COVERS, REDUCED LINTEL</td>
<td>15.60&quot;</td>
<td>20.60&quot;</td>
<td></td>
</tr>
</tbody>
</table>

NOTE:
* Forfeiframe option available. Increase dimensions by 3.00"
# Index

**Numerics**

- 400 mm vision panel ................................ 13
- 800 mm vision panel .................................. 13

**A**

- Access and automation .................................. 9
- Acoustic signal ............................................ 10
- Additional functions ....................................... 12
- Airlock ....................................................... 9
- Automatic closing (standard) ......................... 10
- Automatic control functions ......................... 10

**B**

- Basic control functions ................................ 9
- Bottom edge ................................................. 6
- Building and space requirements ..................... 15
- Building preparations .................................... 15

**C**

- CEN Performance .......................................... 14
- Chain hoist ................................................... 8
- Colors ......................................................... 6
- Construction ............................................... 5
- Control unit ............................................... 8
- Copyright and Disclaimer Notice ..................... 2
- Covers ......................................................... 7

**D**

- Daylight width and height ............................... 14
- Description ................................................... 5
- Dock management .......................................... 13
- Door curtain ............................................... 5
- Door drive system ........................................ 8

**E**

- Electrical preparations .................................. 15
- External control functions ............................ 9
- External push button box ............................. 9

**F**

- Fabric roll .................................................. 7
- Fabric specifications .................................... 14
- Facility management ...................................... 13
- Features ...................................................... 3

**G**

- General ....................................................... 5, 7, 8

**H**

- Header box .................................................. 7

**I**

- Installation preparations ............................... 15
- Insulated door curtain ................................. 6
- Interlocking .................................................. 9

**L**

- Large windows ............................................ 15
- Lights ......................................................... 11

**M**

- Magnetic loop ............................................. 10
- Material ....................................................... 5
- Monitoring systems ...................................... 13

**O**

- Operating system ....................................... 8
- Operator ....................................................... 8
- Options ......................................................... 5

**P**

- Performance ................................................ 3
- Photocell open door .................................... 10
- Pull-rope switch ......................................... 9

**R**

- Radar ......................................................... 10
- Reduced opening ......................................... 9
- Remote control .......................................... 9
- Required Daylight Height ............................ 14
- Required Daylight Width ............................. 14

**S**

- Safety functions ......................................... 10
- Safety photocells 1-channel (standard) ........... 10
- Saving energy .............................................. 13
- Security enhancement .................................. 13
- Self repair system ....................................... 6
- Side columns ................................................. 7
- Space requirements ...................................... 16
- Specifications ............................................. 14
- Standard ....................................................... 5

**T**

- Technical facts ............................................. 3
- Traffic lights - Red & Green .......................... 11

**U**

- UPS battery backup ...................................... 11

**V**

- Vision panels .............................................. 13

**W**

- Warning lights - Green ................................ 11
- Warning lights - Orange ............................... 11
- Warning lights - Red .................................... 11
- Wind reinforcement ...................................... 7
- Windows ..................................................... 14
- Windows and vision panels ......................... 6
- Wireless edge activator (standard) ................ 10
ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. Building on the long-term success of the Besam, Albany and Megadoor brands, we offer our solutions under the ASSA ABLOY brand. Our products and services are dedicated to satisfying end-user needs for safe, secure, convenient and sustainable operations. ASSA ABLOY Entrance Systems is a division within ASSA ABLOY.

assaabloyentrance.us • assaabloyentrance.ca