

# Product datasheet

## Overhead sectional door

### ASSA ABLOY OH1142P Dual Drive

**ASSA ABLOY**  
Entrance Systems

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# Technical facts

## Features

Max size: (W x H)	3600 x 3600 mm
Panel thickness:	42 mm
Panel material:	Diamond grid steel
Filling:	CFC-free polyurethane, flame retardant DIN 4102-B2
Weight:	Steel: 13 kg/m <sup>2</sup> To get the total weight of the door add 15 kg for the drive unit located on the bottom panel.
Color outside:	13 standard RAL colors
Color inside:	RAL 9002
Track types:	VL, HL
Windows:	Optional: DARP, TARP, DAOP, ALRB, ALBS, Framed section
Electrical operation:	Optional: Automated operation, Access control, Safety functions

## Performance

Opening/closing speed:	Up to 0,3 m/s	
Life time expectations:	200000 door cycles or 10 years, when service/replacement program has been performed	
Resistance to wind load, EN 12424	Insulated panel sections	Class 3
	Framed sections	Class 3
Thermal transmittance, EN12428	1,0 W/(m <sup>2</sup> K) Steel door, full panel (Door surface 5000 x 5000 mm) Thermal calculations on exact door sizes and configurations are available on request	
Resistance to Water penetration, EN12425	Class 3	
Air permeability, EN12426	Class 3	
Acoustic insulation, EN ISO 10140-2	R - 25 dB	

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# 1 Description

The ASSA ABLOY OH1142P Dual Drive is an overhead sectional door based on dual drive technology.

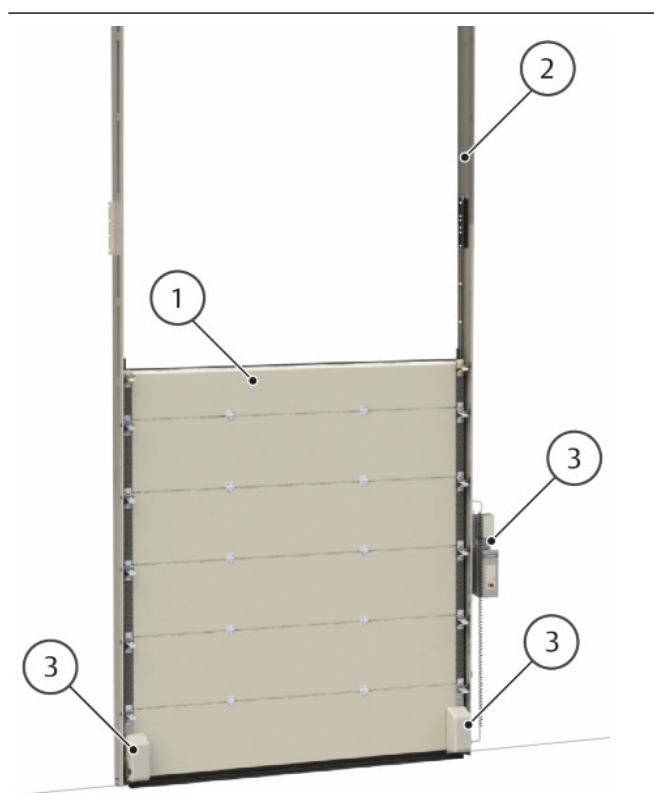
- The ASSA ABLOY OH1142P Dual Drive has integrated dual drive motors eliminating the need for springs and balancing. The door runs faster, smoother, quieter and is more reliable thereby optimizing operations and improving working conditions.

Operational benefits include a lifting mechanism without wires and balancing, a drive solution for opening and closing, and a continuous power source including batteries.

The door is made of insulated panels. These panels are designed without thermal bridge to provide minimal thermal transmittance, which reduces energy cost.

Integrated connectivity to enable monitoring, controlling and accessing door data via ASSA ABLOY Insight. For more information see: <https://www.assaabloyentrance.com/en/service/assa-abloy-insight/>.

The ASSA ABLOY OH1142P Dual Drive overhead sectional door has been designed to meet all operational and safety requirements in the European Directives and the standards issued by the European Standardization Committee, CEN.



The door has 3 primary parts:

1. Door leaf
2. Track set
3. Operating system

## 1.1 Dimensions

### 1.1.1 Daylight width and daylight height

The standard ASSA ABLOY OH1142P Dual Drive overhead sectional door is delivered in the following size range:

	Daylight width	Daylight height
Min.:	1800 mm	1800 mm
Max.:	3600 mm	3600 mm

### 1.1.2 Section sizes

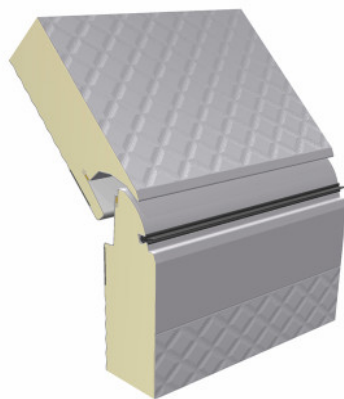
Section height:	545 mm
Top section height:	275 - 820 mm trimcut
Thickness:	42 mm

The door leaf height is achieved by trimcutting the top section.

## 1.2 Door leaf

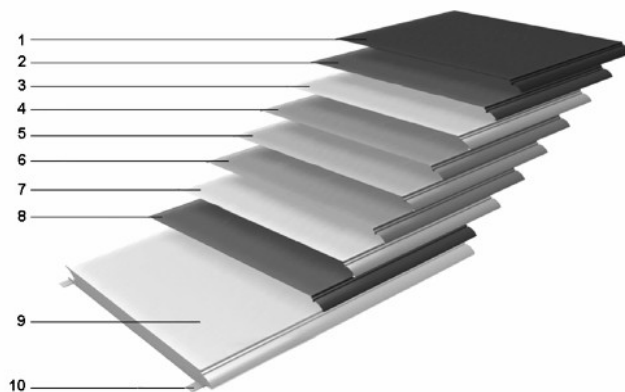
### 1.2.1 Construction

The ASSA ABLOY OH1142P Dual Drive overhead sectional door leaf has horizontal sections, connected together with hinges. The outer hinges of each section have rollers that run in the tracks. The horizontal sections are insulated panels designed without thermal bridges for optimal insulation. The panels are filled with water blown CFC-free polyurethane.



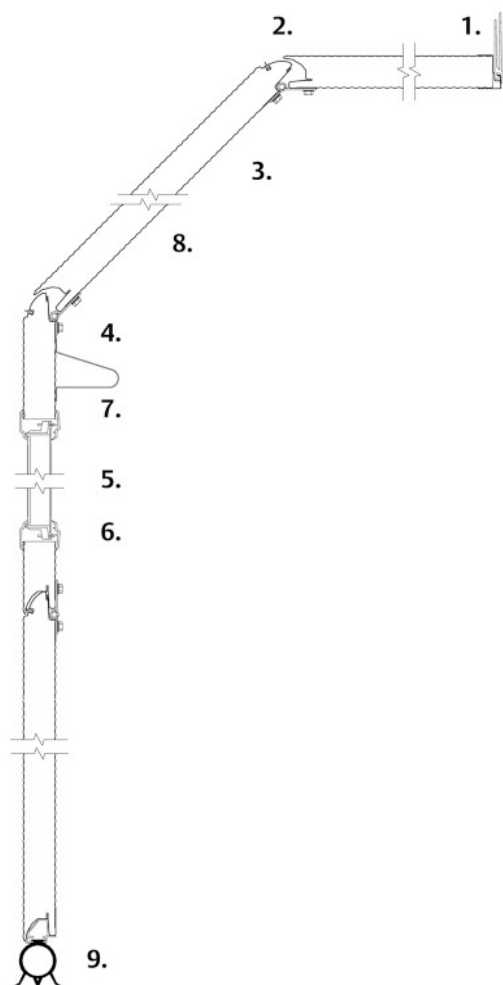
### 1.2.2 Material

The surface of the door leaf panels is a characteristic diamond grid steel or aluminium sheet. The pre-coated steel panels for the door leaf fulfill outdoor corrosion resistance category RC3 according to EN 10169.



1. Polyester coating
  2. Primer
  3. Chromate layer
  4. Zinc based metallic coating\*
  5. Steel or Aluminium sheet
  6. Zinc based metallic coating\*
  7. Chromate layer
  8. Primer
  9. CFC-free polyurethane (water blown), Flame retardant DIN4102-B2
  10. Reinforcement strips
- \*Steel door leaf only. The aluminium door leaf is not coated.

### 1.2.3 Vertical cross-section









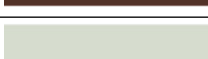
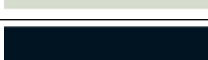




1. Top seal
2. Section joint with finger pinch protection and seals
3. Inner and outer sheet
4. Internal steel reinforcement, to provide positive fixing points
5. Window (optional)
6. High impact polystyrene or aluminium window frame
7. Panel truss - wind reinforcement (if necessary)
8. Insulation (CFC-free / water blown)
9. Bottom seal

### 1.2.4 Colors

The RAL-colors are as close as possible to the official RAL HR collection. Max. deviation is 1,0 DE (RAL 7016 excluded).

Pre-coated range:

	RAL 1021
	RAL 3000
	RAL 5010
	RAL 6005
	RAL 7016
	RAL 7021
	RAL 7024
	RAL 8017
	RAL 9002
	RAL 9005
	RAL 9006
	RAL 9007
	RAL 9010

#### 1.2.4.1 Pre-coated colors

##### Steel

- Outside color: The steel panel is available in the 13 standard RAL colors.
- Inside color: RAL 9002 - Grey white.

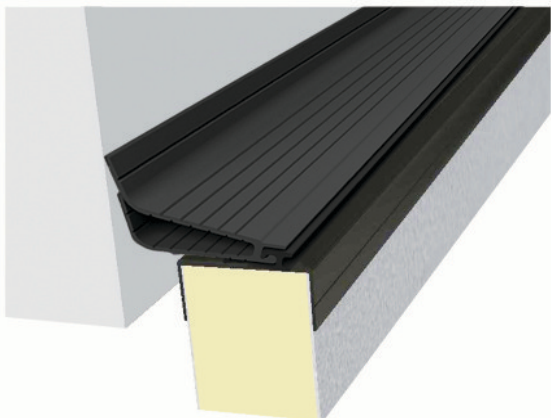


## 1.2.5 Seals

The door is equipped with well designed seals on all sides that gives the door its excellent sealing abilities.

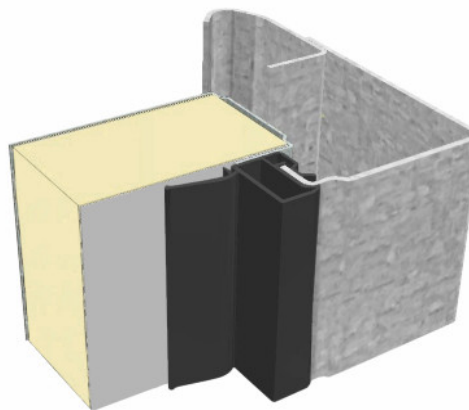
### 1.2.5.1 Top seal

Installed on the top panel to seal the gap between the panel and the wall. The double lip EPDM rubber top seal is mounted in an ABS adapter profile for optimal insulation and tightness.



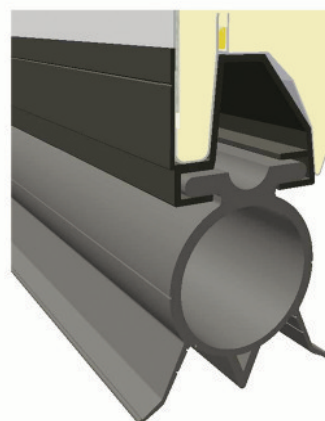
### 1.2.5.2 Side seal

Installed on the track set to close the gap between the tracks and the door leaf. The double lip side seal design with insulation chambers ensures an optimal insulation and sealing.



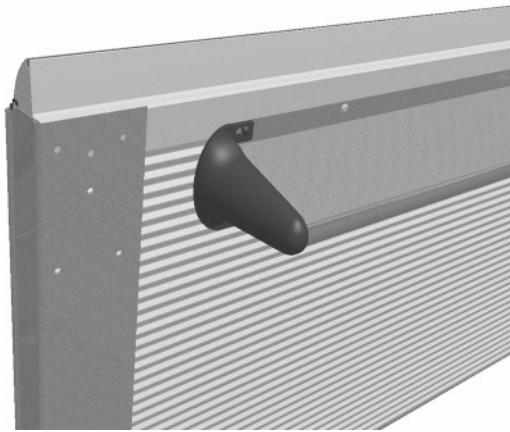
### 1.2.5.3 Bottom seal

Installed on the bottom edge of the bottom panel, to act as a barrier as well as a shock absorber. The flexible EPDM rubber material and the O-shape provides continuous pressure on the floor, ensuring maximum sealing. The bottom seal is mounted in an ABS adapter for optimal insulation and reduced risk of condensation.



### 1.2.6 Wind reinforcement truss

Wider door panels and panels with windows are reinforced with metal profiles that act as trusses. These trusses reduce bending of the panel caused by wind loads or when the door leaf is in the horizontal position and is bending under its own weight.



### 1.2.7 Lock

A standard ASSA ABLOY OH1142P Dual Drive overhead sectional door is considered locked when it is closed, fulfilling the lifting demands in the standards EN 1627, EN 1630 and SSF 1074 without any additional mechanical locks.

When the door is standing still in any position, the breaks are always applied providing a good resistance against anyone trying to lift the door. The force needed to lift the door is comparable with other doors that have a lock bolt.

### 1.2.8 Lock bolt (optional)

A standard ASSA ABLOY OH1142P Dual Drive overhead sectional door can be equipped with a lock bolt. The lock bolt locks the door from the inside, without the use of a key. The lock bolt has a hole in the latch, to allow the use of a 12mm padlock.

The lock bolt is not visible from the outside.

## 1.3 Track sets

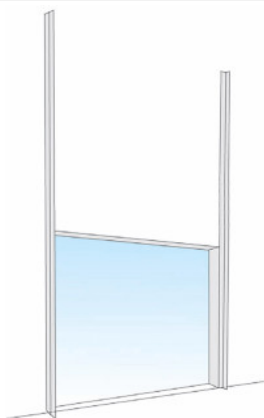
### 1.3.1 General

The track set supports the door leaf on its rollers and guides it upwards. The selection of the appropriate track set is based on various factors:

- Available head room
- Door height
- Type of vehicles
- Presence of roof obstructions, pipes and overhead crane beams.

The track sets below cover most applications. Other applications are available on request.

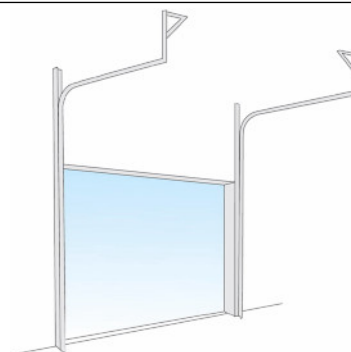
### 1.3.2 VL - Vertical Lift



- Building type: Very high ceiling and high working space requirements.
- Benefits: Allows high vehicles to cross along the door opening without any obstructions.

If the space between the daylight height and the roof is sufficient, with this track type, the door can be opened vertically.

### 1.3.3 HL - High Lift



- Building type: High ceilings. On the High Lift track set the spring package is placed high above the door.
- Benefits: This track type allows high vehicles to cross along the door opening without obstructions of the horizontal tracks.

This track type is used when the space above the door is considerable, and is needed for work and traffic, e.g.: high vehicles.

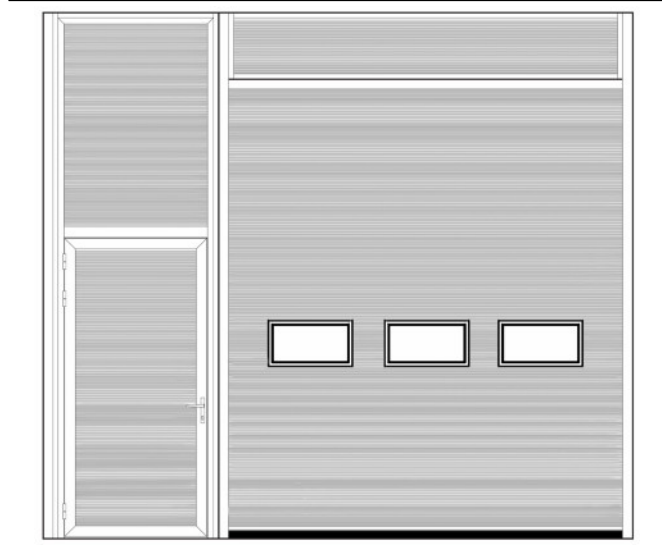
## 2 Available Options

### 2.1 Fixed sections

Fixed sections can advantageously fill space around new doors that are smaller than the wall opening. Fixed sections are available in top and side sections. Fixed sections are supplied in the same color and construction as the door leaf.

A fixed section can be provided with a passdoor for two reasons: Safety and energy cost reduction.

- Safety: Putting a separate passdoor in a fixed section next to the industrial door separates pedestrian and vehicle traffic.
- Energy cost reduction: The opening space for frequent pedestrian traffic is minimized.

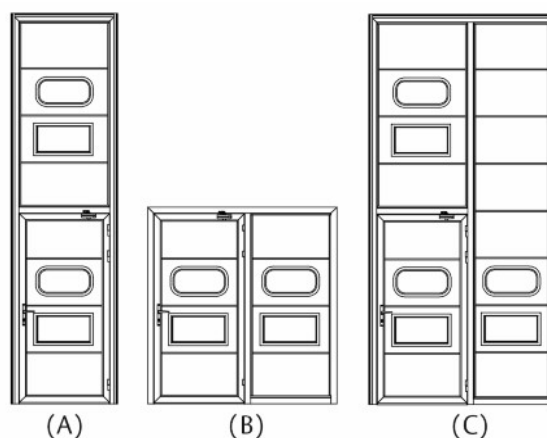


#### 2.1.1 Fixed sections options

	<b>Minimum size in mm</b> (Daylight width - Daylight height)
Passdoor	800 - 2076
Side panel with passdoor (A)	800 - 2441
Side panel with passdoor (B)	1496 - 2076
Side panel with passdoor (C)	1496 - 2441
Side panel without passdoor	300 - 300
Side panel without passdoor (loose sections)	83 - 140
Top panel (loose sections)	83 - 83

**Maximum size in mm**  
(Daylight width - Daylight height)

Passdoor	1495 - 2440
Side panel with passdoor (A)	1495 - 6000
Side panel with passdoor (B)	2400 - 2076
Side panel with passdoor (C)	2400 - 6000
Side panel without passdoor	2400 - 6000
Side panel without passdoor (loose sections)	8000 - 6000
Top panel (loose sections)	8000 - 6000



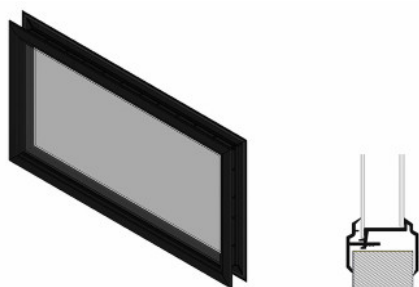
B - C available on request

### 2.2 Windows

The door sections can be glazed with windows\*. The number of windows per section is directly related to the daylight width. Optionally, one single window can be placed on the outer left or right side, in the third section.

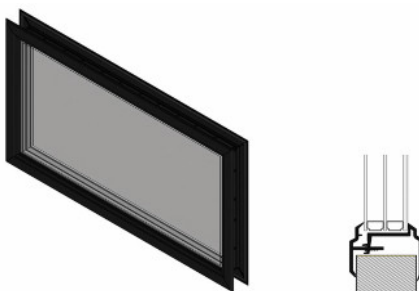
\*The bottom section cannot be glazed.

### 2.2.1 DARP



- Double layer Acrylic (3 + 2 mm), Rectangular, in Plastic frame
- Light opening: 604 x 292 mm
- Window frame: Black

### 2.2.2 TARP



- Three layer Acrylic (3 + 3 + 2 mm), Rectangular, in Plastic frame
- Light opening: 604 x 292 mm
- Window frame: Black

### 2.2.3 DAOP



- Double layer Acrylic (3 + 2 mm), Oval, in Plastic frame
- Light opening: 610 x 292 mm
- Window frame: Black

### 2.2.4 ALRB



- Aluminum Layer Rectangular Burglar, double layer (6+6 mm) in aluminum frame
- Light opening: 578,5 x 268,5 mm
- Burglar Resistance Class 2

### 2.2.5 ALBS



- Aluminum Layer Burglar Small, double layer (6+6 mm) in aluminum frame
- Light opening: 578,5 x 146,5 mm
- Burglar Resistance Class 2

### 2.2.6 Protective grating

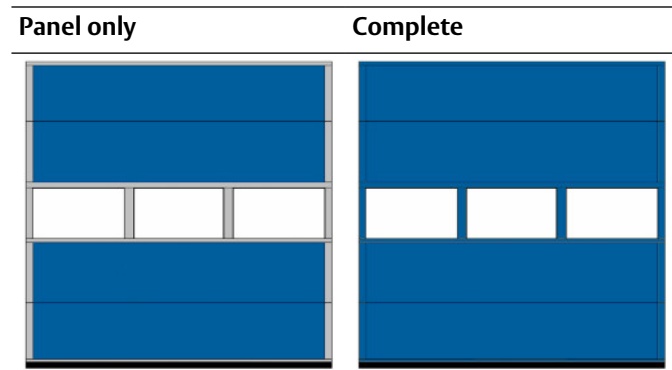
To discourage burglars to use the windows as a way in, protective window grating can be installed on the inside of the door. Standard delivery is dull black. Other colors available on request. The protective window grating measures 750 mm width. The height depends on the height of the section.



## 2.3 Optional colors\*

### Factory painting

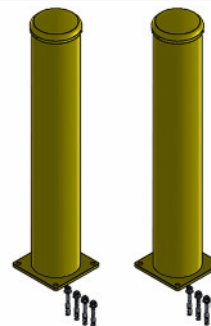
The door leaf can be factory painted in any RAL and NCS color plus some metallic colors, outside only. The painting can be applied to only the panel or to the complete door leaf, including frames and strips.



\* Other colors available on request

## 2.4 Collision protection

### 2.4.1 Track protection kit



The track protection kit is designed to protect the tracks being accidentally hit by vehicles. The kit includes two bollards and fasteners. The bollards are powder coated with a UV protective paint and the top can be removed to fill the bollard with sand or concrete. The bollards are 1000 mm high with a diameter and thickness of 159×3 mm and the plate is 200 mm square. The distance between (any part of) the door and the bollards should be at least 500 mm to prevent people from getting stuck between the bollards and the door.

### 2.4.2 Reinforced bottom profile



A special aluminium bottom profile with an integrated reinforcement is available if extra collision protection is needed.

# 3 Specifications

## 3.1 Windows

### 3.1.1 Number of windows

The daylight width is divided into a fixed grid. The number of windows depends on the daylight width of the door.

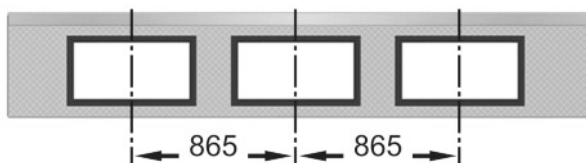
#### Windows

No. of windows	Daylight width
1	2050 - 2134 mm
2	2135 - 2999 mm
3	3000 - 3600 mm

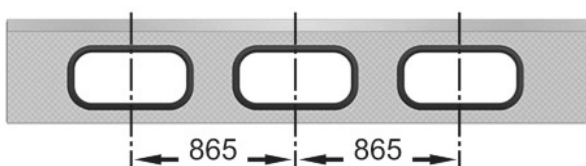
Optional: One window in the outer left or right side of section 3 only.

### 3.1.2 Windows

#### DARP/TARP/ALRB/ALBS



#### DAOP



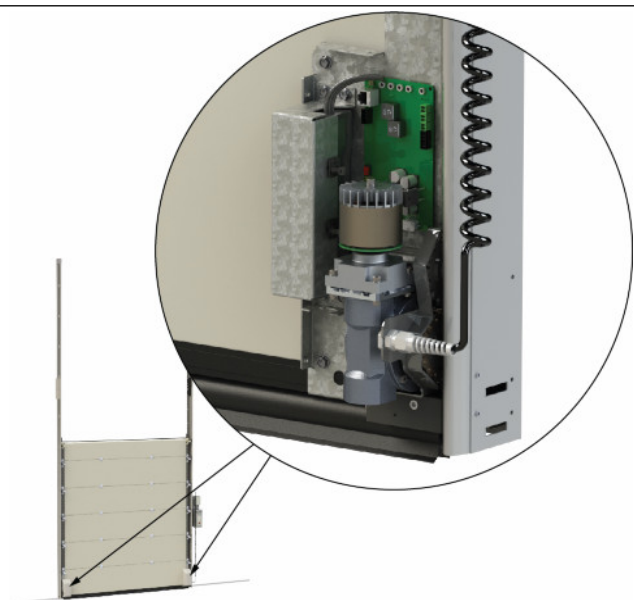
## 4 Operating system

### 4.1 Operation

The ASSA ABLOY OH1142P Dual Drive overhead sectional door is electrically operated and can be fully automatic.

The dual drive system has no steel wire ropes and no balancing system. Drive motors are integrated in the bottom section of the door and an integrated fixed chain on both sides in the track set allows the door to climb in a very smooth and controlled way in both directions.

Electrical operation gives access to the full program of Access and Automation functions, that can fulfill many operational needs, related to traffic type and frequency, door weight and temperature control.



### 4.2 Operator

<b>Voltage supply: +/- 10%</b>	230V AC 1-phase 50/60Hz
<b>Degree of protection:</b>	IP32
<b>Allowed door weight, max.:</b>	175 kg
<b>Temperature working range:</b>	0 °C to +55 °C
<b>Operating factor:</b>	ED = 30%, S3 10 min, non-continuous operation (equals 40 cycles per hour)

### 4.3 Door control system

The door control system has an IP 54 classification.

The design is based on modules, and it is possible to upgrade or downgrade safety or automation functions. Additional kits such as magnetic loop, photocells, radar, radio and reduced door opening are available.

The door control system is prepared for one or more physical upgrades from the entire range of automation systems. An automation system allows door operation by sensors or remote control.

This control unit contains a 3-digit diagnostics display that allows efficient troubleshooting and displays the number of door cycles. Together with the service indicator, this extra feature allows advanced maintenance planning to users where the door is an essential element of internal logistics.



- Dimensions: 300 x 400 x 165 mm (wxhxd)



## 4.4 Guidelines for automation

The “Automation D-kits“ are packages of common combinations. These kits can also be supplemented by “additions to D-kits“.

<b>Automation D-kits</b>	<b>D1</b>	<b>D2</b>	<b>D3</b>	<b>D4</b>	<b>D5</b>	<b>D6</b>
Interlocking	■	■	■	■	■	■
Magnetic loop		■		■		■
Traffic lights - Green + Red					■	■
Warning lights - Red	■			■		
<b>Additions to D-kits</b>						
Warning lights – Green	□	□	□	□		
Traffic lights - Green + Red	□	□	□	□		
Relay box	□	□	□	□	□	□
Radar	□	□	□	□	□	□

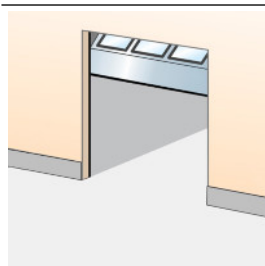
■ Standard □ Option / Available

## 4.5 Access and automation

ASSA ABLOY offers a wide range of functions that allows advanced opening and safety control. Please refer to the specification sheet of the control units to see which functions apply to which models.

### 4.5.1 Basic control functions

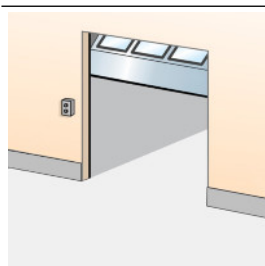
#### 4.5.1.1 Reduced opening



When it is unnecessary or undesirable to fully open a door, an additional switch can be used to open the door to a pre-programmed reduced opening position.

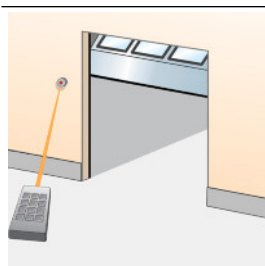
### 4.5.2 External control functions

#### 4.5.2.1 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. Installed on the inside or outside wall beside the door.

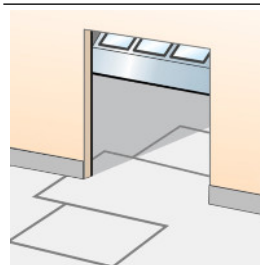
#### 4.5.2.2 Remote control



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.

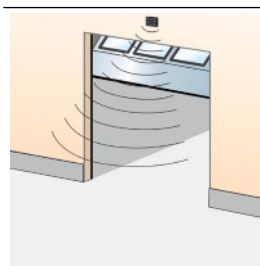
### 4.5.3 Automatic control functions

#### 4.5.3.1 Magnetic loop



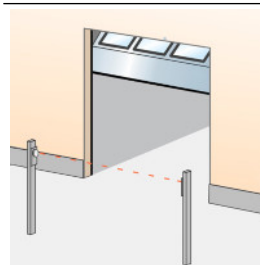
A sensor in the floor detects a metal object (usually forklift trucks, pallet trucks) and opens the door automatically. This is an ideal solution for frequent vehicle traffic. Installed on the outside, inside or both sides of the door in the floor.

#### 4.5.3.2 Radar



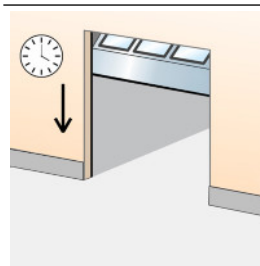
An infrared sensor above the door detects an object (person, vehicle) within a specified distance from the door and opens the door automatically. This is an ideal solution for frequent vehicle or personal traffic. Often combined with automatic closing. Installed on the inside or outside wall above the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

#### 4.5.3.3 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.

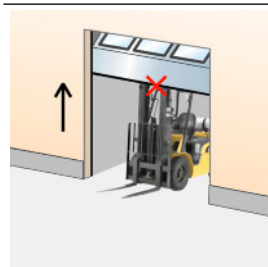
#### 4.5.3.4 Automatic closing



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. Adjustable micro switches in control unit.

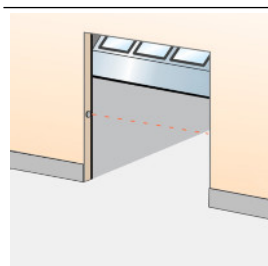
#### 4.5.4 Safety functions

##### 4.5.4.1 Safety edge



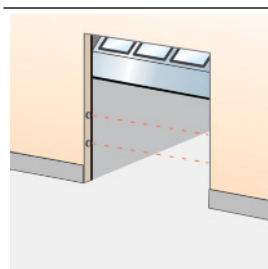
As a standard, all doors that have the impulse-close function or any form of automated closing, are equipped with a safety edge. The pneumatic sensor in the bottom seal detects any obstruction under a closing door and reverses the door.  
Installed in the bottom seal.

##### 4.5.4.2 Safety photocells 1-channel



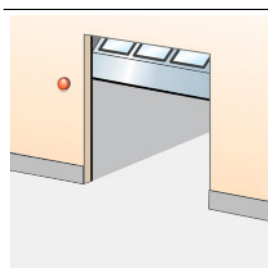
A set of a photocell transmitter and receiver is installed in the door opening. If the photocell beam is interrupted during closing, the door will stop and reverse to the fully open position.  
Installed in the door opening.

##### 4.5.4.3 Safety photocells 2-channel



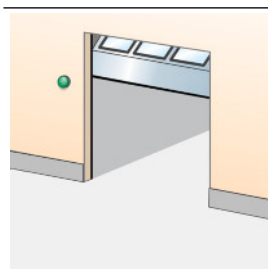
Two sets of photocell transmitter and receiver are installed in the door opening. If one or both photocell beams are interrupted during closing, the door will stop and reverse to the fully open position.  
Installed in the door opening.

##### 4.5.4.4 Warning lights - Red



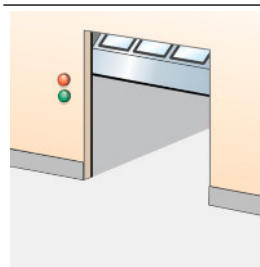
Two red warning lights giving information on the current door behaviour. Flashing light before or during door movement. Optional: Continuous light before and during door movement.  
Installed on the inside and outside wall beside the door.

##### 4.5.4.5 Warning lights - Green



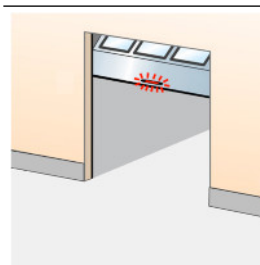
One or two green warning lights indicating the open position of the door by continuous light signal.  
Installed on the inside and/or outside wall beside the door.

##### 4.5.4.6 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.

##### 4.5.4.7 Warning LED light



A LED warning light on the bottom section will show a flashing red light to indicate that the door is on the move.  
It is a smart alternative for the warning lights beside the door. With this light bar you not only know that the door is moving, but also where the bottom edge of the door leaf is.

## 5 CEN Performance

### 5.1 Lifetime expectation

Door: 200000 door cycles or 10 years, when service/replacement program has been performed

### 5.2 Resistance to windload

EN12424		
Test result	Class 3	
Class	Pressure Pa (N/m <sup>2</sup> )	Specification
0	-	No performance determined
1	300	
2	450	
3	700	
4	1000	
5	> 1000	Exceptional : Agreement between manufacturer and supplier

### 5.3 Resistance to water penetration

EN12425		
Test result	Class 3	
Class	Pressure Pa (N/m <sup>2</sup> )	Specification
0	-	No performance determined
1	30	Waterspray for 15 minutes
2	50	Waterspray for 20 minutes
3	> 50	Exceptional : Agreement between manufacturer and supplier

### 5.4 Air permeability

EN12426	
Test result	Class 3
Class	Air permeability dp at a pressure of 50 Pa (m <sup>3</sup> /m <sup>2</sup> /h)
0	-
1	24
2	12
3	6
4	3
5	1,5
6	Exceptional : Agreement between manufacturer and supplier

## 5.5 Thermal transmittance

### EN12428

Thermal transmittance 1,0 W/(m<sup>2</sup>K) Steel door, full panel

(Door surface 5000mm x 5000mm)

## 5.6 Acoustic insulation

### ISO 10140-2

Acoustic insulation \* R - 25 dB

\* Door surface 4.000 x 2.500 mm (for other sizes it can differ)

## 5.7 Operating forces and safe openings

EN12453 & EN12604	Crushing force N	Crushing force N	Crushing force N
Opening gap mm	200 mm from lateral border right from outside	In the middle of the door opening	200 mm from lateral border left from outside
50 mm	passed	passed	passed
300 mm	passed	passed	passed

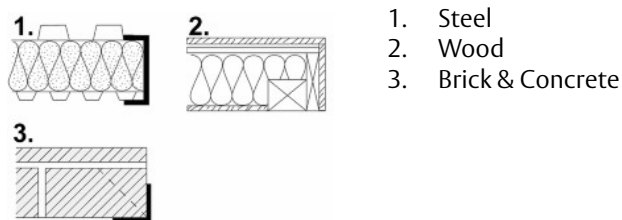
The crushing force is the force needed for the safety edge to be activated. The maximum force allowed, according to EN12453 safety in use of power operated doors is 400 N within a maximum period of time of 0.75s. With standard light curtain there is no crushing force.

# 6 Building and space requirements

## 6.1 Building preparations

### 6.1.1 Installation preparations

The ASSA ABLOY OH1142P Dual Drive overhead sectional door and the control box are pre-assembled before shipping. All necessary installation material is included. ASSA ABLOY offers specific installation kits for the tracks to position the door in the building facade.



## 6.2 Space requirements

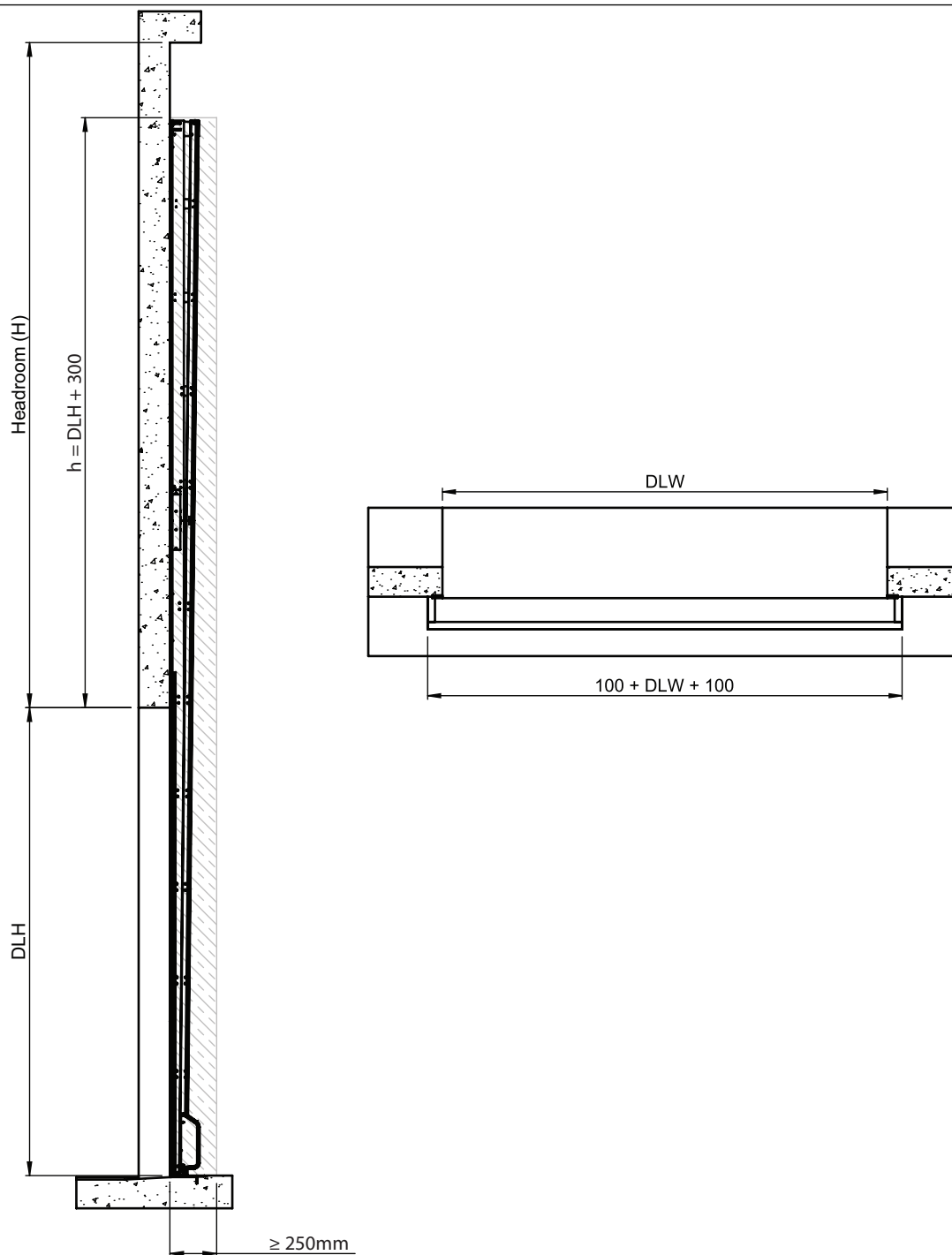
DLH	= Daylight Height	The height of the clear opening
DLW	= Daylight Width	The width of the clear opening
D	= Depth	The space between the inner side of the wall and the end of the horizontal track construction
h	= Excess height	The extra space required above the daylight height.
SL	= Side space Left	The space required for tracks beside the daylight width.
SR	= Side space Right	The space required for tracks beside the daylight width.

The grey marked area in the illustrations shows the free space required by door movement. Extra space requirements for electrically operated doors are stated in the operator specifications. Extra space requirements for passdoors are stated in the passdoor specifications.

### 6.2.1 Space requirements VL

h	DLH + 300 mm
SL/SR	106 mm 340 mm Control Unit
D	295 mm
For details see the specific building preparation drawings	

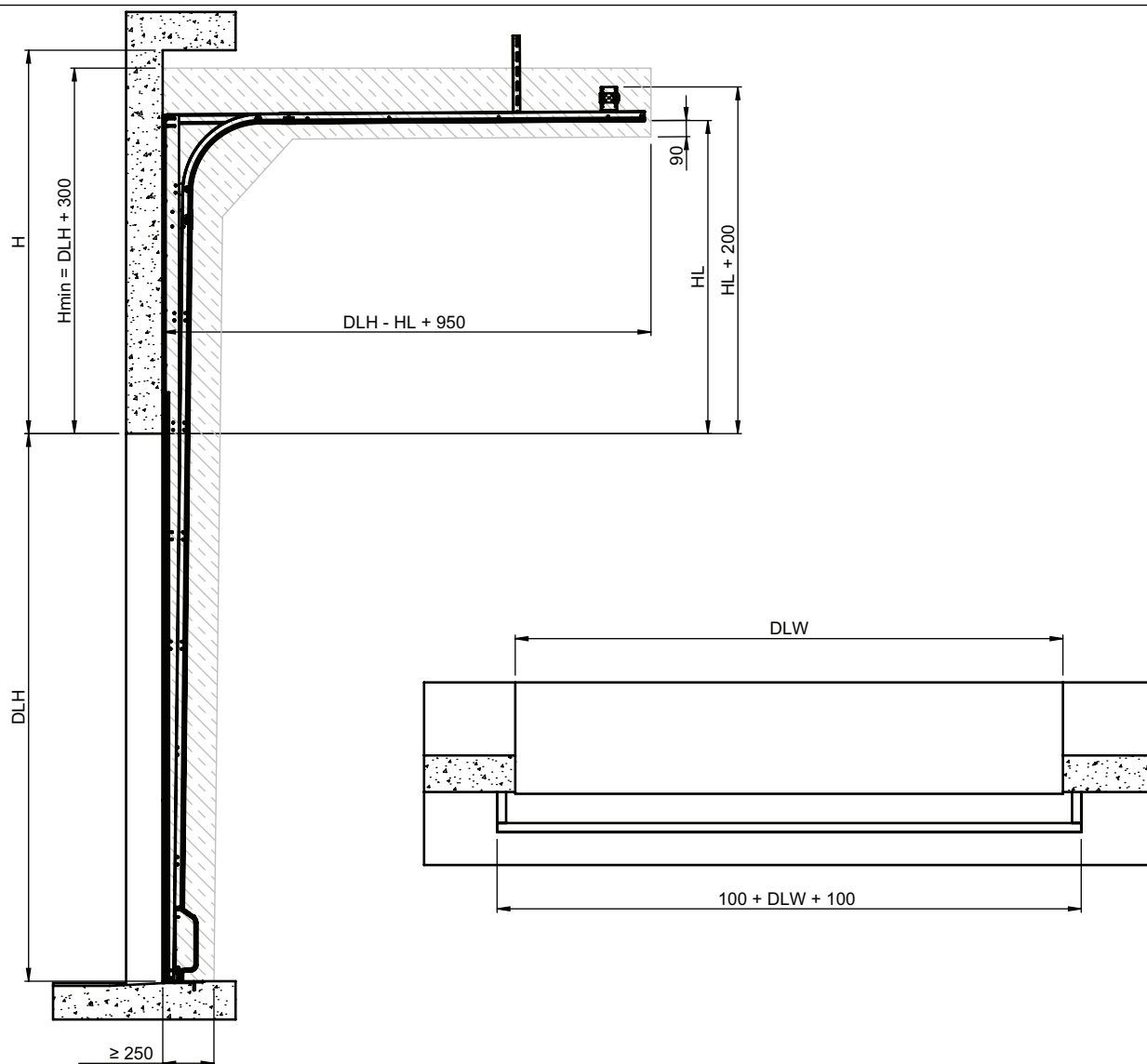
#### Side and top view



### 6.2.2 Space requirements HL

h	HL + 300 mm
SL/SR	132 mm 340 mm Control Unit
D	DLH - HL + 950 mm
For details see the specific building preparation drawings	

#### Side and top view





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