Product datasheet
Overhead sectional door
ASSA ABLOY OH1042FG

ASSA ABLOY
Entrance Systems

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Technical facts

Features

Max size: (W x H)*	5500 mm x 4250 mm
Frame thickness:	44 mm
Frame material:	Aluminium tubular frames
Filling:	Windows ≤DLW 3300mm, 1 pane >DLW 3300mm, 2 panes
Color outside:	Natural aluminium
Color inside:	Natural aluminium
Track types:	Standard: SL Optional: HL, LL, VL, HHL
Windows:	SH6: 6 mm HG
Electrical operation:	Optional: Automated operation, Access control, Safety functions

Performance

Opening/closing speed:	CDM9: 0,25 m/s CDM9 HD: 0,18 m/s CDM9 2H: opening 0,5 m/s, closing 0,25 m/s	
Life time expectations:	Door: 200.000 door cycles or 10 years, if service/replacement program is performed Springs: 20.000 door cycles	
Resistance to wind load, EN12424	Insulated panel sections	Class 3 (DLW ≤ 4250) Class 2 (4250 < DLW) (Higher classes on request)
	Framed sections	Class 3 (DLW ≤ 3650) Class 2 (3650 < DLW) (Higher classes on request)
Thermal transmittance, EN12428	4,8 W/(m².K) SH6, Double glass on request (4000 x 4000mm)	
Water penetration, EN12425	Class 3 (4000 x 4000 mm)	
Air permeability, EN12426	Class 3 (4000 x 4000 mm)	

Contents

1. Description

1.1 General

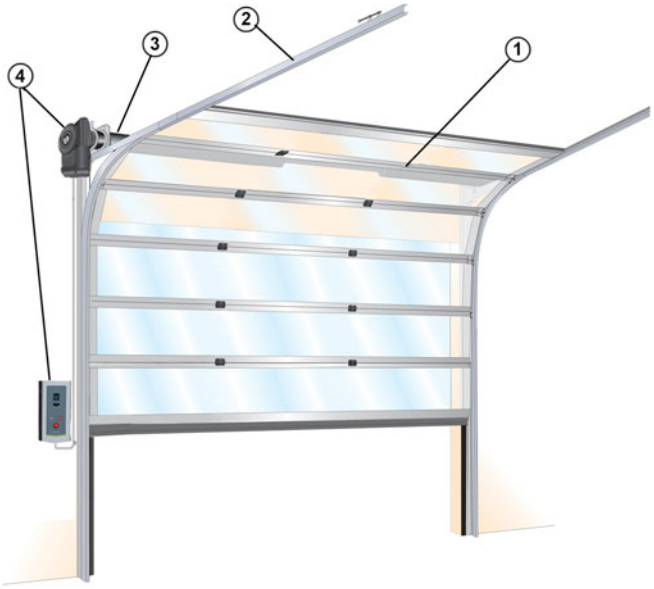
The ASSA ABLOY OH1042FG overhead sectional door is one of the most stable overhead doors on the market.

It is an overhead sectional door, suitable for all types of buildings, with regard to both function and appearance. High flexibility makes it possible to install this door in almost every type of building.

The door slides up under the roof when opened, allowing free space around the door opening and leaving the door opening completely free.

The door is made of aluminium tubular profiles, filled with windows. The high light admission makes this door the ideal choice for working environments that require maximum lighting.

The ASSA ABLOY OH1042FG 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 4 primary parts:

1) Door leaf
2) Track set
3) Balancing system
4) Operating system

1.2 Dimensions

1.2.1 Daylight width and daylight height

The ASSA ABLOY OH1042FG overhead sectional door is delivered in the following size range:

	Daylight width	Daylight height
Min.:	2050 mm	1979 mm
Max.:	5500 mm	4250 mm

1.2.2 Section sizes

Section height:	400 - 600 mm*
Thickness:	44 mm

*The door leaf height is equally divided over the sections (standard).

Number of sections

DLH Frame bottom section	Number of sections
0000 – 1979	3
1980 – 2579	4
2580 – 3179	5
3180 – 3779	6
3780 – 4250	7

1.3 Door leaf

1.3.1 Construction

The ASSA ABLOY OH1042FG overhead sectional door leaf has horizontal sections, connected together with hinges. The outer hinges of each section have rollers that run in the tracks.

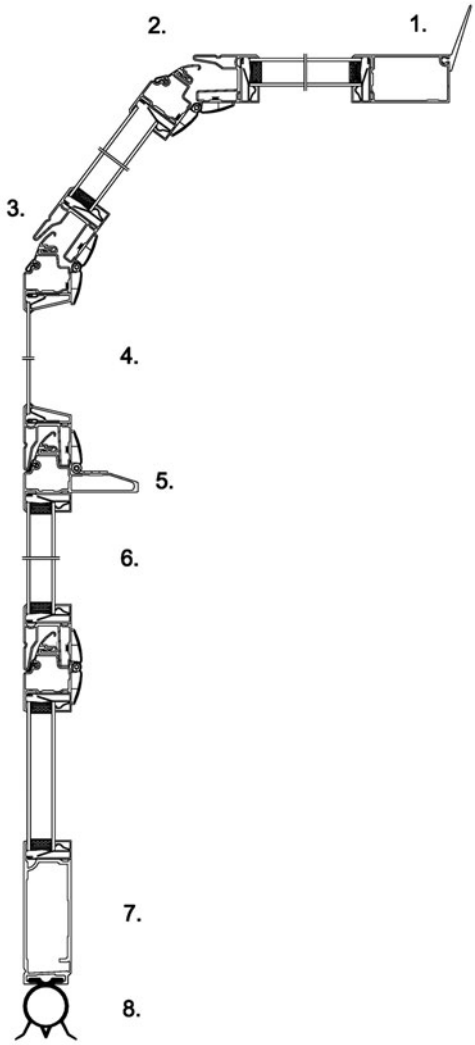
The horizontal sections are aluminium tubular frames with full windows.

1.3.2 Material

The sections are made of tubular aluminium frames, equipped with windows.

The bottom section is a frame construction with windows, but can, if required, be delivered as an insulated panel.

1.3.3 Vertical cross-section



1) Top seal
2) Integrated finger pinch protection
3) Sealing in section joint
4) Single hardened 6 mm glass (standard)
5) Panel truss - wind reinforcement (if necessary)
6) Double glass, 27mm (on request)
7) Frame bottom section
8) Bottom seal

1.3.4 Colors

The ASSA ABLOY OH1042FG overhead sectional door is available in any color on request. As standard, the frames are delivered in natural anodized aluminium.

1.3.4.1 Standard colors

Frames

- The frames are delivered as a standard in natural aluminium.

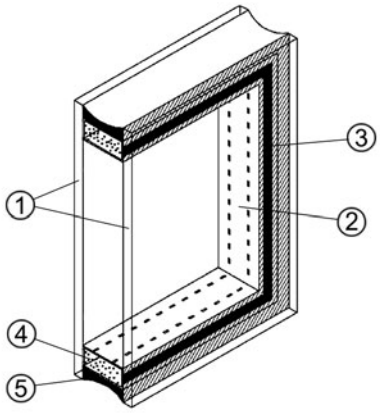
1.3.5 Windows

The frame construction allows full windows in all sections. The light opening is equal for all window types and depends on the dimensions of the door leaf.

1.3.5.1 SA/SH

SH6: Single hardened glass 6 mm

Double hardened glass on request



1) Double hardened glass
2) Aluminium distance frame
3) Butyl sealing
4) Absorbing siccative
5) Silicone sealing

1.3.6 Seals

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

1.3.6.1 Top seal

The top seal is installed on the top panel to seal the gap between the panel and the wall. The EPDM rubber top seal ensures an optimal insulation and tightness.

1.3.6.2 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.

1.3.6.3 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.

1.3.7 Wind reinforcement truss

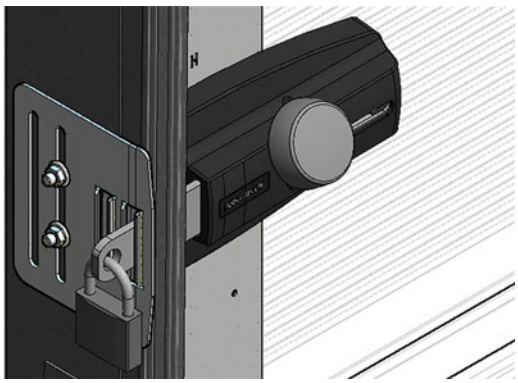
Wider door panels and panels with windows are reinforced with metal profiles that act as trusses. These trusses reduce bending of the panel caused by wind loads or when the door leaf is in the horizontal position and is bending under its own weight. The wind reinforcement truss is integrated in the aluminium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

1.3.8 Handle

For manual operation, every ASSA ABLOY OH1042FG overhead sectional door is provided with a solid, easy to grip handle.

1.3.9 Lock bolt

A standard ASSA ABLOY OH1042FG overhead sectional door is 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.



1.4 Balancing system

The balancing system balances the door by applying a force nearly equal to the weight of the door leaf. This allows the door leaf to be moved up and down manually, and to stay open in any position.

The system is installed on the top or the end of the track set and works as follows: Two torsion springs are installed on a shaft above the door opening. This shaft has a cable drum on each end from which door cables run to the bottom corners of the door leaf. Turning the shaft moves the door up or down.

1.4.1 Safety devices

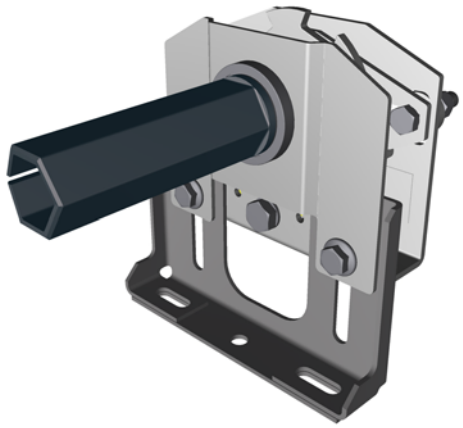
The balancing system supports heavy forces. In case of a spring or cable break, its counterforce is lost. The door is therefore equipped with two safety devices that can block downward door movement:

- Spring Break Device (standard)
- Cable Break Device (optional)

1.4.1.1 Spring break device (SBD)

The Spring Break Device (SBD) is delivered with all ASSA ABLOY OH1042FG overhead sectional doors.

In the event of a spring break, the sudden drop force activates the Spring Break Device (SBD). The shaft will be locked in less than 300 mm of door movement.



1.4.1.2 Cable break device (CBD)

The Cable Break Device (CBD) is an optional safety device. In the event of a cable failure the door leaf will be blocked in less than 300 mm to avoid damage.

1.5 CEN Performance

1.5.1 Lifetime expectation

Door: 200.000 door cycles or 10 years, if service/replacement program is performed
Springs: 20.000 door cycles

1.5.2 Resistance to windload

EN12424	
Test result	Class 3 (≤DLW 3300mm)
	Class 2 (>DLW 3300mm)

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

Door size 4000 x 3450 mm

1.5.3 Resistance to water penetration

EN12425	
Test result	Class 3 (no passdoor)

Class	**Pressure Pa (N/m^2)**	**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

1.5.4 Air permeability

EN12426	**Without passdoor**
Test result	Class 3

Class	**Air permeability dp at a pressure of 50 Pa ($m^3/m^2/h$)**
0	-
1	24
2	12
3	6
4	3
5	1,5
6	Exceptional : Agreement between manufacturer and supplier

1.5.5 Thermal transmittance

EN12428	**Single glass**	**Double glass**
Thermal transmittance	4,8*	On request

Door size 4000 x 4000 mm

1.5.6 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.

1.6 Track sets

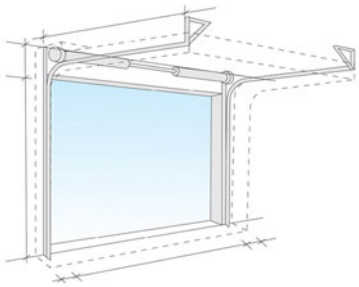
1.6.1 General

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.

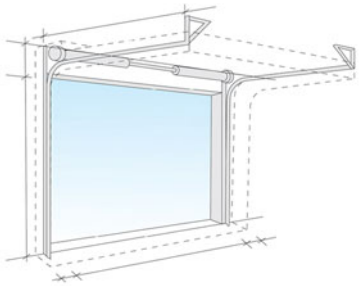
1.6.2 SL - Standard Lift



- Building type: Most standard industrial buildings.
- Benefits: Optimal design for common buildings.

The Standard Lift track set, with the spring package just above the door, is the most common solution

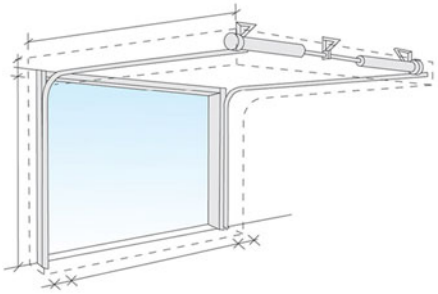
1.6.3 SLL - Standard Lift Low



- Building type: Low ceilings.
- Benefits: Achieve more daylight height with a limited head room.

The Standard Lift Low track set is a variant of the Low Lift where the spring package is installed just above the door.

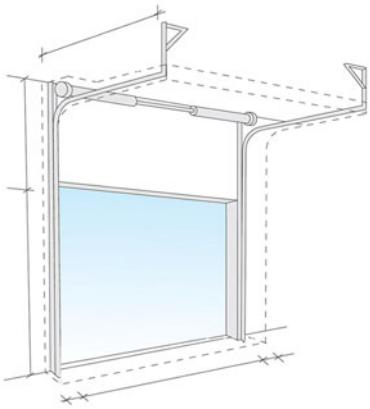
1.6.4 LL - Low Lift



- Building type: Low ceilings.
- Benefits: Achieve maximum daylight height with minimum head room.

Same as standard lift, but with the spring package at the end of the horizontal tracks.

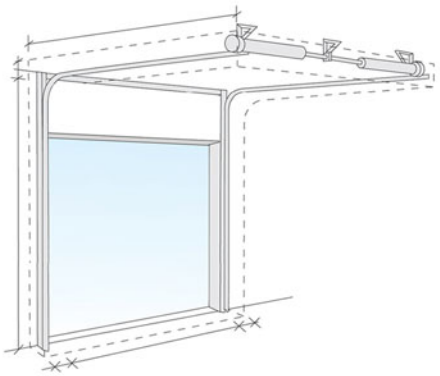
1.6.5 HL - High Lift



- 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.

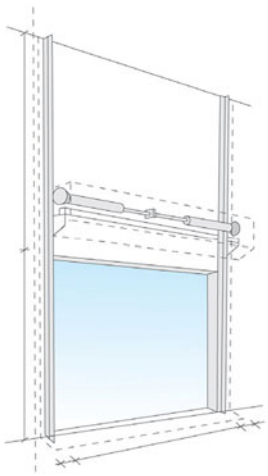
1.6.6 HHL - High lift with spring package at the end of the horizontal track



- Building type: High ceilings. Used when space between ceiling and lower edge of horizontal track is limited.
- Benefits: Achieve maximum highlift with minimum head room.

High lift hardware with the spring package placed in the end of the horizontal track.

1.6.7 VL - Vertical Lift

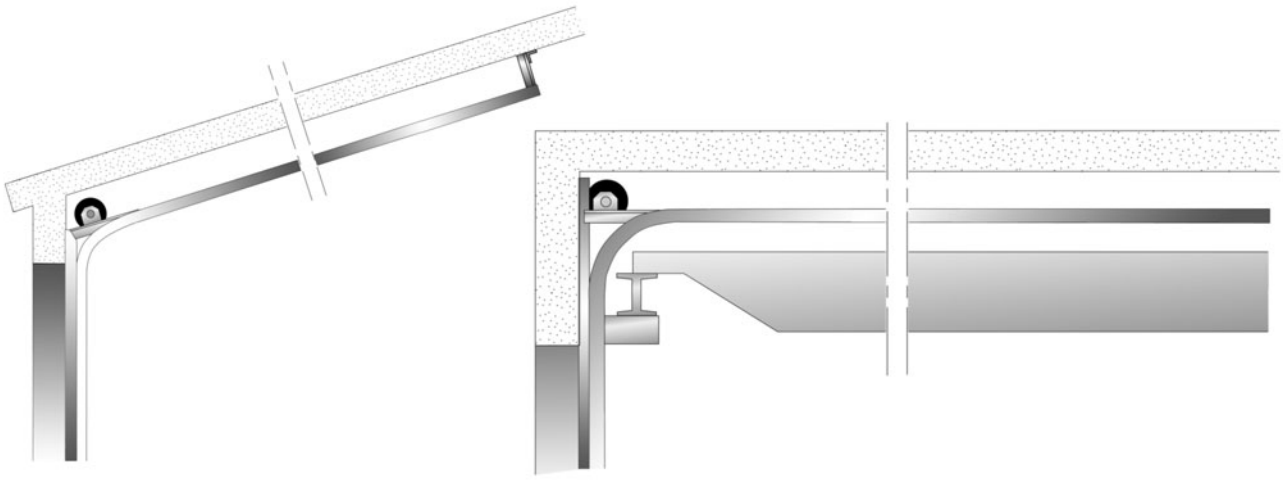


- Building type: Very high ceiling and high working space requirements.
- Benefits: Allows high vehicles to cross along the door opening without any obstructions.

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

1.6.8 Special track sets

The ASSA ABLOY OH1042FG overhead sectional door track set can be custom designed to make the door fit in places that seem quite impossible. Our door technicians can solve installation problems where the door must share space with ventilation systems, crane beams, etc. For example:



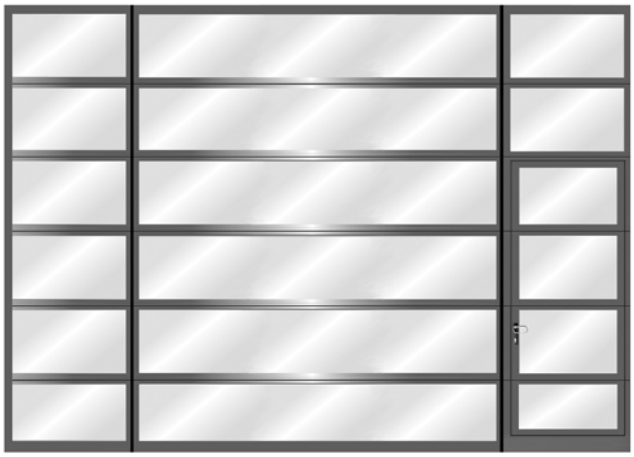
2. Available Options

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.



2.2 Optional colors

Frames

- Factory painting, all RAL colors

3. Specifications

3.1 Windows

3.1.1 Number of windows

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

Daylight width	No. of windows
2050 - 3300 mm	1
3301 - 5500 mm	2

4. Operating system

4.1 Types of operation

The ASSA ABLOY OH1042FG overhead sectional door can be opened and closed manually. They are also prepared for electrical operation. Electrically operated doors can be controlled by hand or be fully automatic. Traffic frequency, climate requirements and the weight of the door play a key role in choosing the optimal control system.

4.1.1 Pull-down rope

The ASSA ABLOY OH1042FG overhead sectional door can be operated manually with a pull-down rope. The pull-down rope is directly connected to the door leaf.

4.1.2 Chain hoist

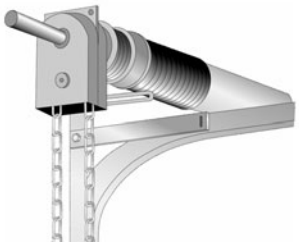
For heavier doors, a chain hoist allows easier door operation.

There are three types of chain hoist:

D-hoist:

- D-hoist: Non-geared chain transmission directly connected to the shaft. Recommended for doors up to 250 kg (For hexagonal shaft only).

T-hoist:



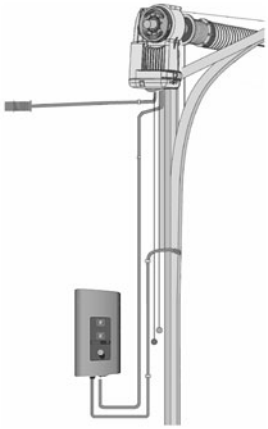
- T-hoist: Geared (ratio 1:4) chain transmission directly connected to the shaft. Recommended for doors up to 250 kg (For all shaft types).

U-hoist:

- U-hoist: Geared (ratio 1:3) indirect chain transmission. Recommended for doors of 250 up to 400 kg (For all shaft types).

4.1.3 Electrical operation

The ASSA ABLOY OH1042FG overhead sectional door can be supplied or upgraded with an electrical operating system (mandatory if door weight > 400 kg). 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 CDM9 Operator - 950 Door control systems

The CDM9 operator is a combination of the CDM9 operator and the 950 door control system. The regular CDM9 model is available for doors up to 400 kg. The CDM9 HD model is available for doors up to 800 kg. The double speed CDM9 2H model is available for doors up to 250 kg.

4.2.1 CDM9 Operator

One main part of the system is the operator: an electric motor which drives the balancing shaft with the cable drums and torsion springs. It can be retrofitted to an already installed door. The CDM9 operator is mounted directly on the balancing shaft and does not require any special wall reinforcement.

If a door weighs over 550kg, the CDM9 should be equipped with an integrated geared (ratio 1:3.5) chain hoist:

Key features:

- Smooth and silent
- Soft start and stop
- Fits all track types and shafts
- Life time: 84.000 - 300.000 door cycles (depending on weight and temp.) e.g.:
  - temp. 0 °C - +40 °C/weight 250 kg = 300.000 cycles
  - temp. -20 °C - +60 °C/weight 400 kg = 84.000 cycles

	CDM9	**CDM9 HD**	**CDM9 2H**
Voltage supply: +/- 10%	230V AC 1-phase 50/60Hz	230V AC 1-phase 50/60Hz	230V AC 1-phase 50/60Hz
Power:	0,37 kW	0,6 kW	0,37 kW
Degree of protection:	IP65, with connector IP44	IP65, with connector IP44	IP65, with connector IP44
Allowed door weight, max.:	400 kg	800 kg	250 kg
Temperature working range:	-20 °C to +55 °C*	-20 °C to +55 °C*	-20 °C to +55 °C*
Operating factor:	ED = 30% S3 10 min. intermittent	ED = 30% S3 10 min. intermittent	ED = 30% S3 10 min. intermittent
Mounting preparations:	-	When installing on the wall, an extra attachment angle is required	-

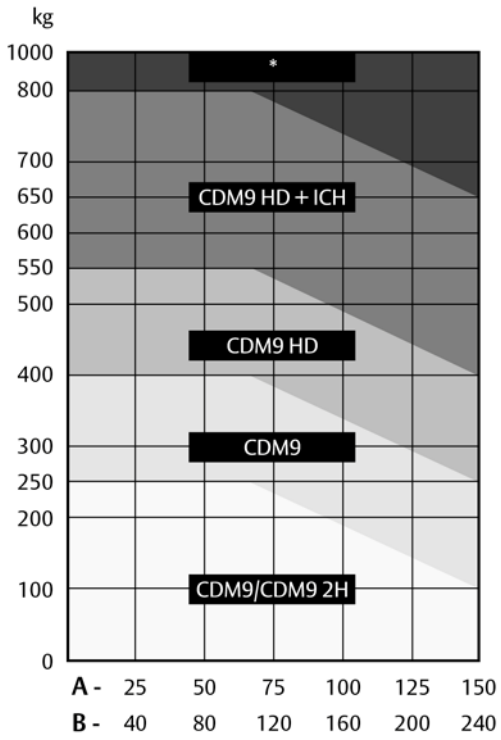
* At low temperatures the first few cycles may be run with reduced speed to prolong the operator's lifetime. Can be equipped with a heater for a working range down to -30°C.

4.3 Selection guidelines for operation type

Door size m^2	Openings / day			
	1-5 day	5-10 day	10-15 day	>25 day
0 – 10	□ / ■	□ / ■	■ / ■	■ / ■
10 – 20	□ / ■	■	■ / ■	■ / ■
> 20 - 42	■	■	■ / ■	■ / ■
> 42*	■	■	■ / ■	■ / ■

□ Manual operation
■ Electrical operation
■ Automated operation

4.4 Selection guidelines for door operator



* Custom support Landskrona

Door openings/day
A. Over 300 days/year
B. Over 220 days/year

Average door weight
Steel door : 13 kg/m^2
Alu door : 10 kg/m^2

4.5 950 Door control system

The 950 Door control system is the most advanced control unit that 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)

4.6 Guidelines for automation

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

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

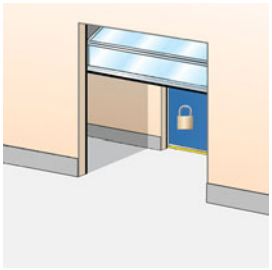
■ Standard □ Option / Available

4.7 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.

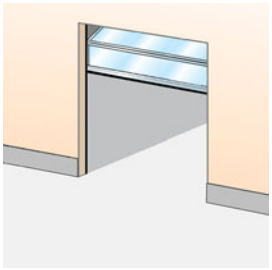
4.7.1 Basic control functions

4.7.1.1 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.

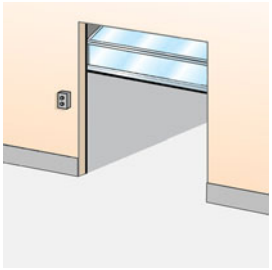
4.7.1.2 Reduced opening



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.

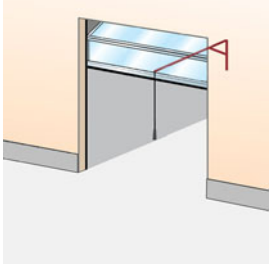
4.7.2 External control functions

4.7.2.1 External push button box



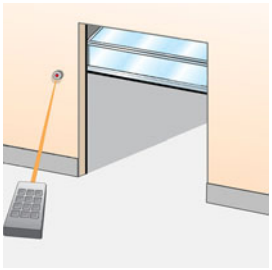
An extra control box is installed outside the building or inside close to the door if the main control unit needs to be installed away from the door opening.
Installed on the inside or outside wall beside the door.

4.7.2.2 Pull-rope switch



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

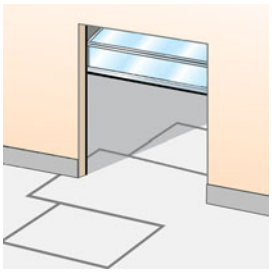
4.7.2.3 Remote control



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.

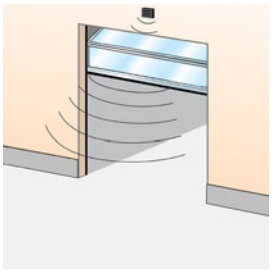
4.7.3 Automatic control functions

4.7.3.1 Magnetic loop



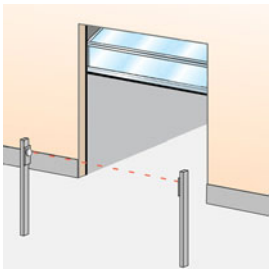
A sensor in the floor detects a metal object (usually forklift trucks, pallet trucks) and opens the door automatically. This is an ideal solution for frequent vehicle traffic.
Installed on the outside, inside or both sides of the door in the floor.

4.7.3.2 Radar



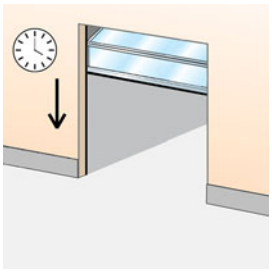
An infrared sensor above the door detects an object (person, vehicle) within a specified distance from the door and opens the door automatically. This is an ideal solution for frequent vehicle or personal traffic. Often combined with automatic closing.
Installed on the inside or outside wall above the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

4.7.3.3 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.

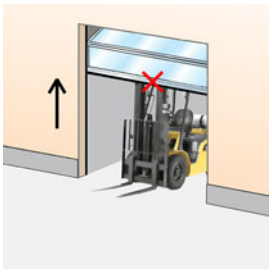
4.7.3.4 Automatic closing



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.

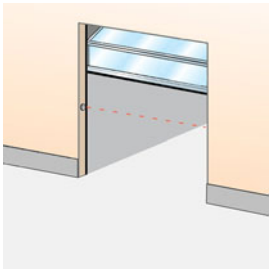
4.7.4 Safety functions

4.7.4.1 Safety edge



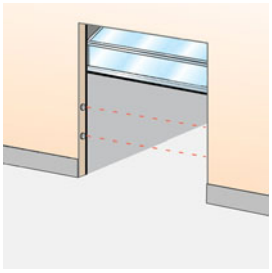
As a standard, all doors that have the impulse-close function or any form of automated closing, are equipped with a safety edge. The pneumatic sensor in the bottom seal detects any obstruction under a closing door and reverses the door.
Installed in the bottom seal.

4.7.4.2 Safety photocells 1-channel



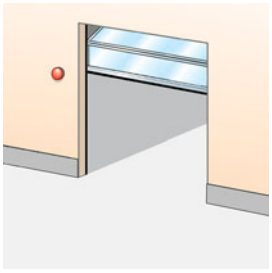
A set of a photocell transmitter and receiver is installed in the door opening. If the photocell beam is interrupted during closing, the door will stop in less than 30mm and reverse to the fully open position.
Installed in the door opening.

4.7.4.3 Safety photocells 2-channel



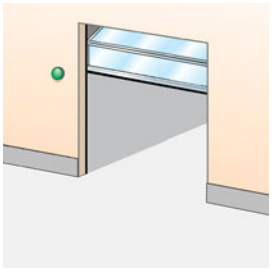
Two sets of photocell transmitter and receiver are installed in the door opening. If one or both photocell beams are interrupted during closing, the door will stop in less than 30mm and reverse to the fully open position.
Installed in the door opening.

4.7.4.4 Warning lights - Red



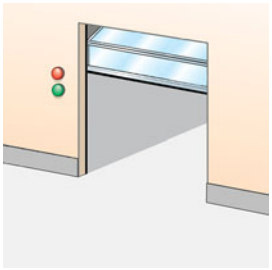
Two red warning lights giving information on the current door behaviour. Flashing light before or during door movement. Optional: Continuous light before and during door movement.
Installed on the inside and outside wall beside the door.

4.7.4.5 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.

4.7.4.6 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.

4.7.5 Additional functions

4.7.5.1 UPS battery backup

When mains failure cannot be permitted or an increased risk of mains failure is predicted, the UPS battery backup system can be installed to store enough energy for 5 door cycles.
Installed on the inside wall beside the door.

4.7.5.2 Relay box

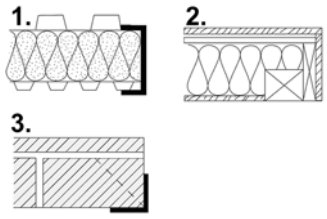
A sealed connection box makes it possible to safely connect external high-voltage equipment.

5. Building and space requirements

5.1 Building preparations

5.1.1 Installation preparations

The ASSA ABLOY OH1042FG overhead sectional door is shipped in parts and installed on-site. All necessary installation material is included. For every track type ASSA ABLOY offers specific installation kits to position the door in the building facade.



1) Steel
2) Wood
3) Brick & Concrete

5.2 Space requirements

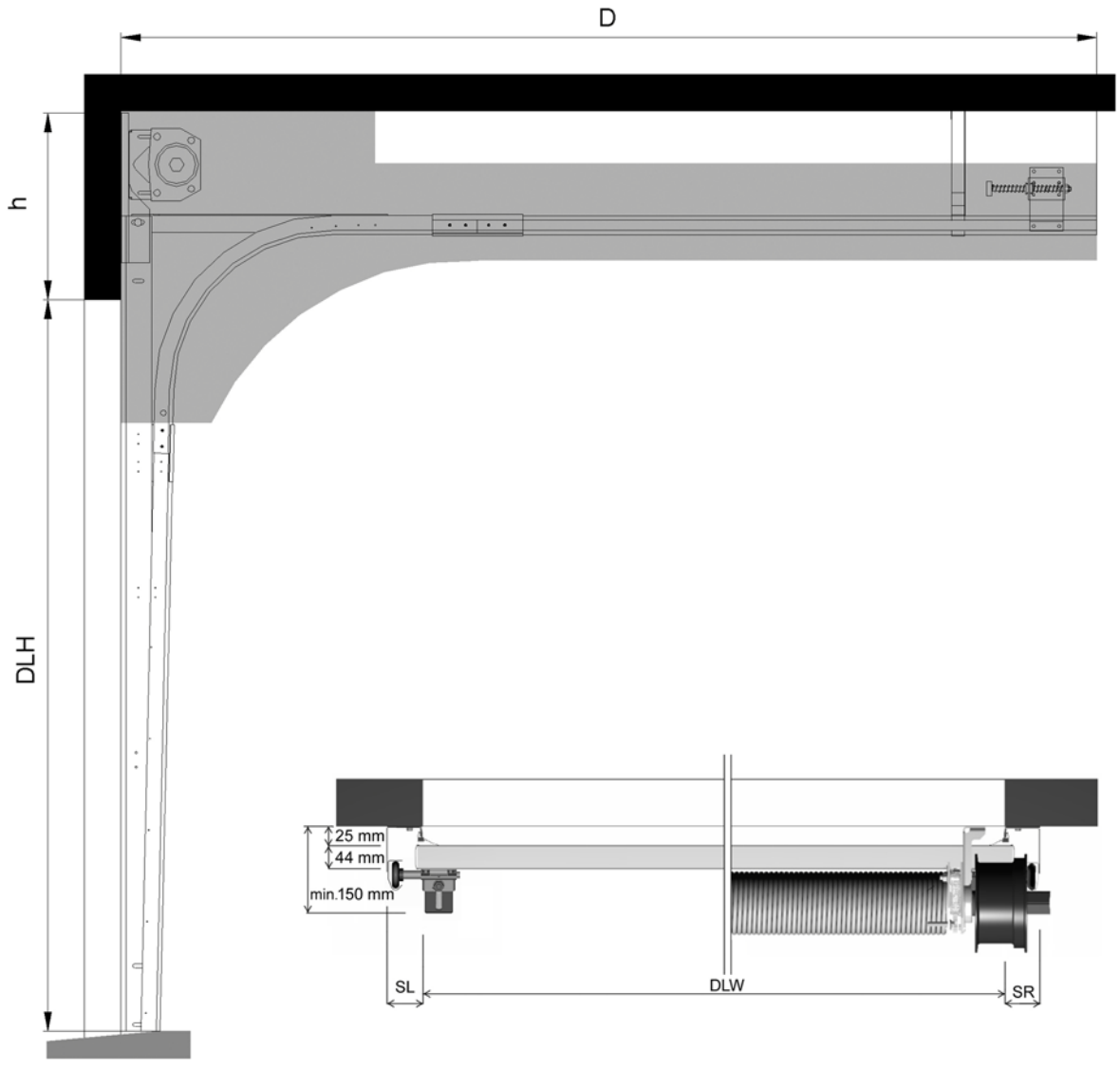
DLH	=	Daylight Height	The height of the clear opening
DLW	=	Daylight Width	The width of the clear opening
D	=	Depth	The space between the inner side of the wall and the end of the horizontal track construction
h	=	Excess height	The extra space required above the daylight height.
SL	=	Side space Left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

5.2.1 Space requirements SL

h	485 mm (DLH ≤ 4500 mm) 510 mm (DLH > 4500 mm) 575 mm (with center operator)
SL/SR	132 mm Manual, 212 mm Hoist-D/T, 278 mm Hoist-U, 270 mm Operator, 310 mm Operator+Hoist (with outer support bearing + 45 mm)
D	DLH + 600 mm
	For details see the specific building preparation drawings

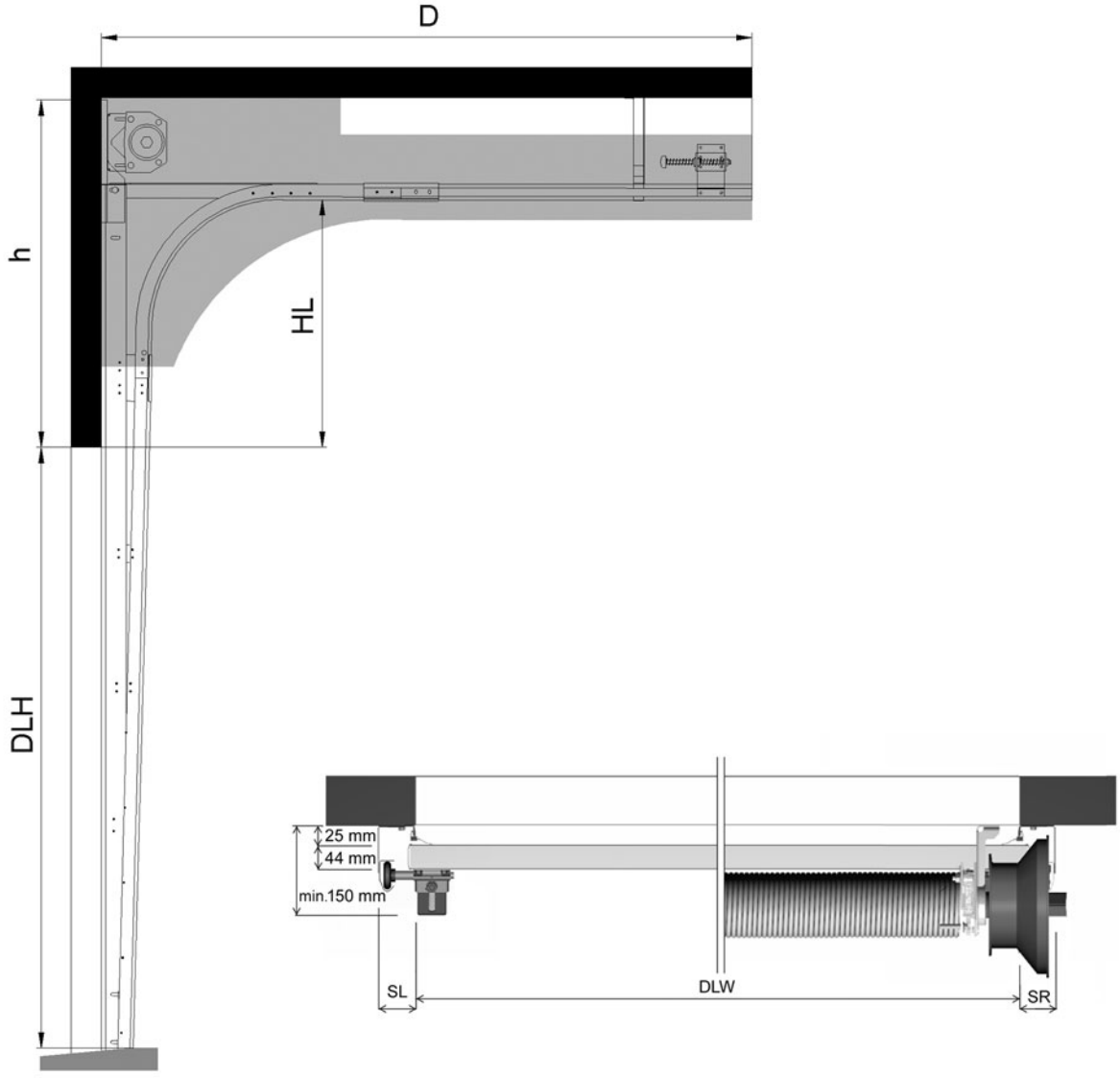
Side and top view



5.2.2 Space requirements HL

	HL	HL with Beam
h	HL+320 mm (HL ≤ 3321 mm) HL+370 mm (HL > 3321 mm) HL +400 mm (with center operator)	HL+220 mm
SL/SR	132 mm Manual, 212 mm Hoist-D/T, 278 mm Hoist-U, 270 mm Operator, 310 mm Operator+Hoist (with outer support bearing + 45 mm)	106 mm Manual, 212 mm Hoist-D/T, 278 mm Hoist-U, 312 mm Operator, 352 mm Operator+Hoist (with outer support bearing + 64 mm)
D	DLH - HL + 950 mm	DLH - HL + 950 mm
	For details see the specific building preparation drawings We would advise the following doors to be installed on a frame, equipped with an A-65 top seal. • Doors DLW > 6050 mm • Doors DLW ≥ 4050 mm with a dark outside colour, frequently exposed to solar heat.	

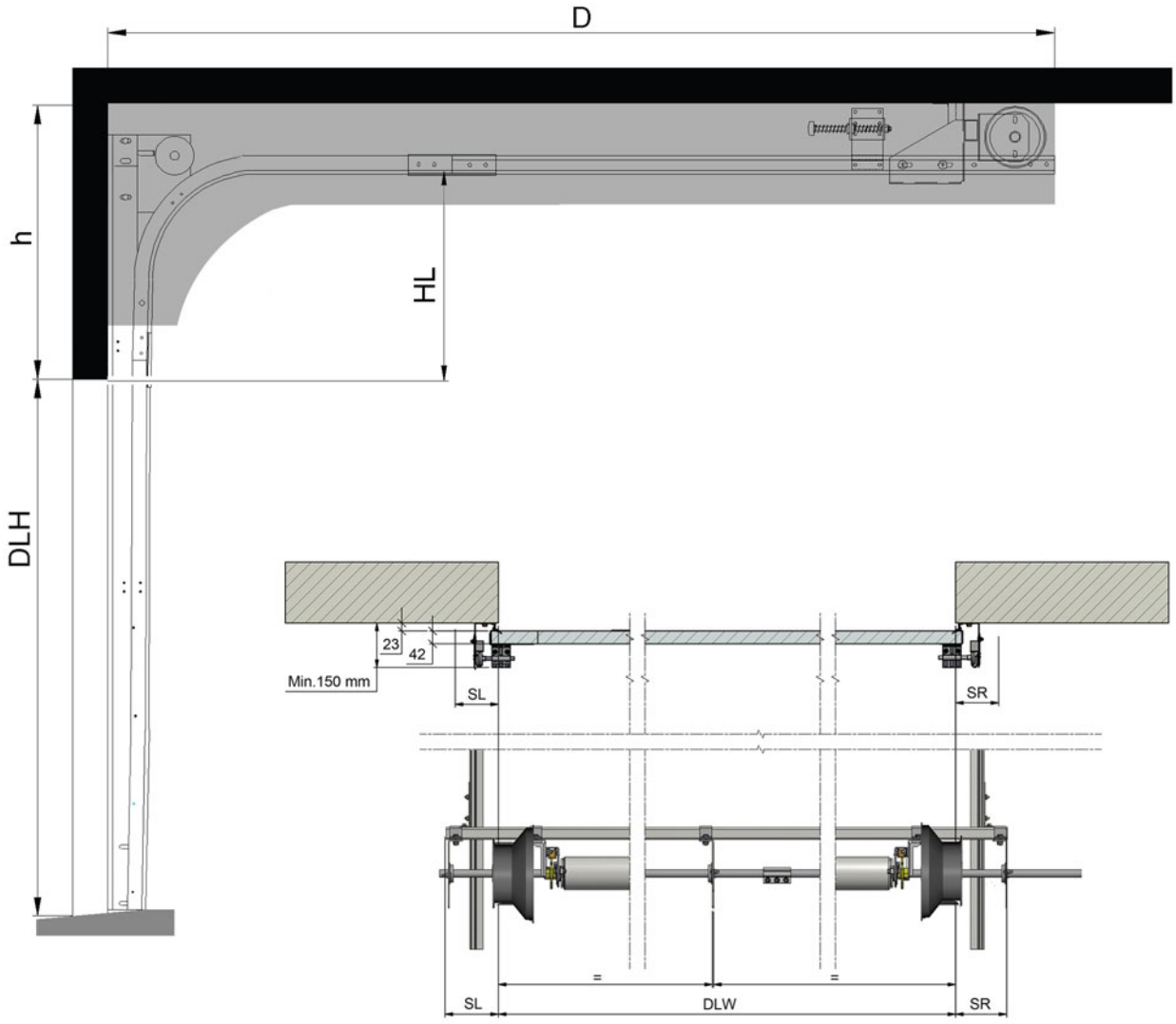
Side and top view



5.2.3 Space requirements HHL

h	HL+260 mm (HL ≤ 3321 mm), HL+285 mm (HL > 3321 mm)
SL/SR	132 mm Manual, 228 mm Hoist-D/T, 278 mm Hoist-U, 304 mm Operator, 344 mm Operator+Hoist (with outer support bearing + 45 mm)
D	DLH - HL + 1100 mm
	For details see the specific building preparation drawings We would advise the following doors to be installed on a frame, equipped with an A-65 top seal. • Doors DLW > 6050 mm • Doors DLW ≥ 4050 mm with a dark outside colour, frequently exposed to solar heat.

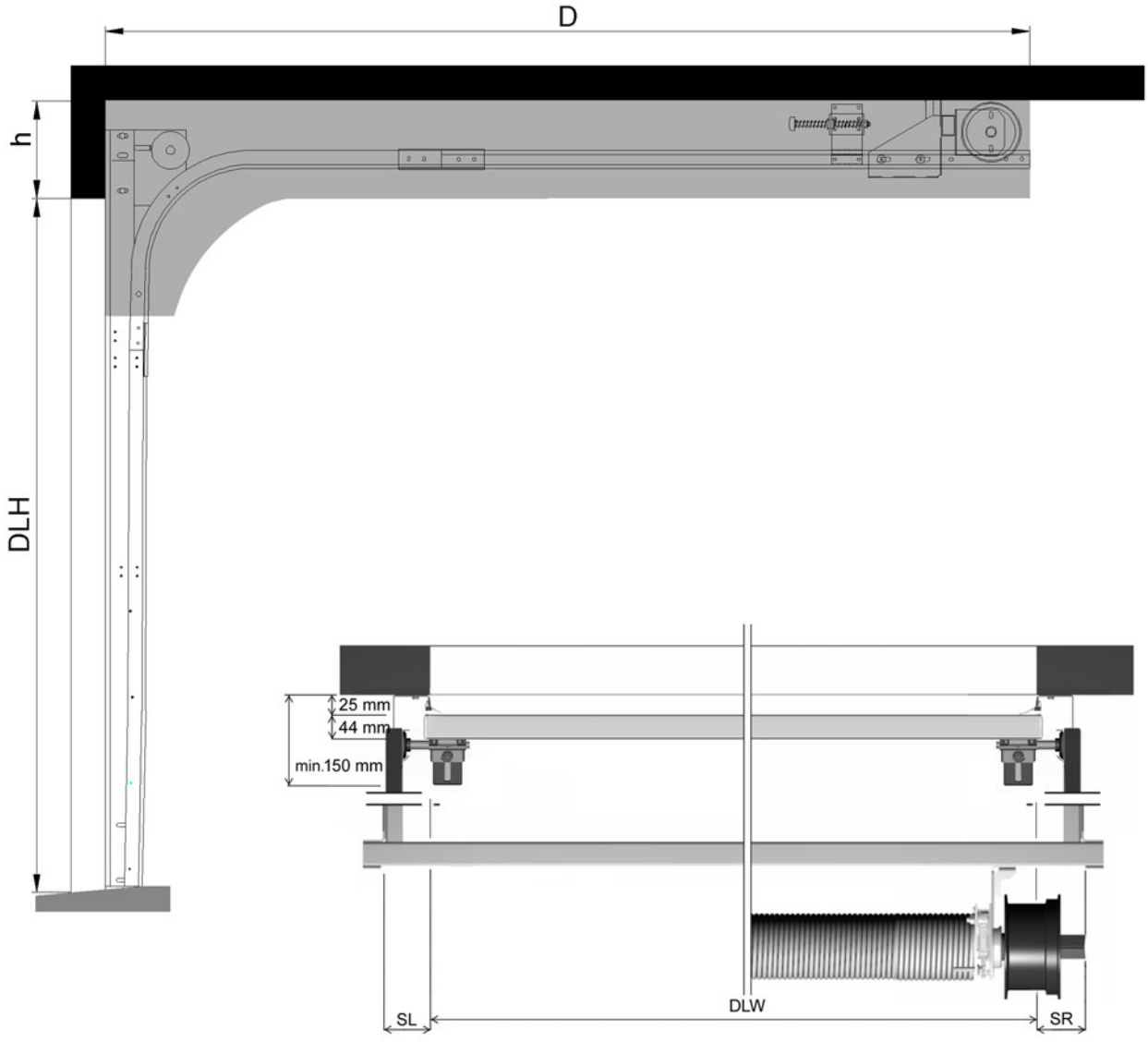
Side and top view



5.2.4 Space requirements LL

h	265 mm (≤ 250 kg without passdoor) 300 mm (> 250 kg or passdoor)
SL/SR	132 mm Manual, 228 mm Hoist-D/T, 278 mm Hoist-U, 304 mm Operator, 344 mm Operator+Hoist (with outer support bearing + 45 mm)
D	DLH + 1250 mm
	For details see the specific building preparation drawings *** With low threshold passdoor only

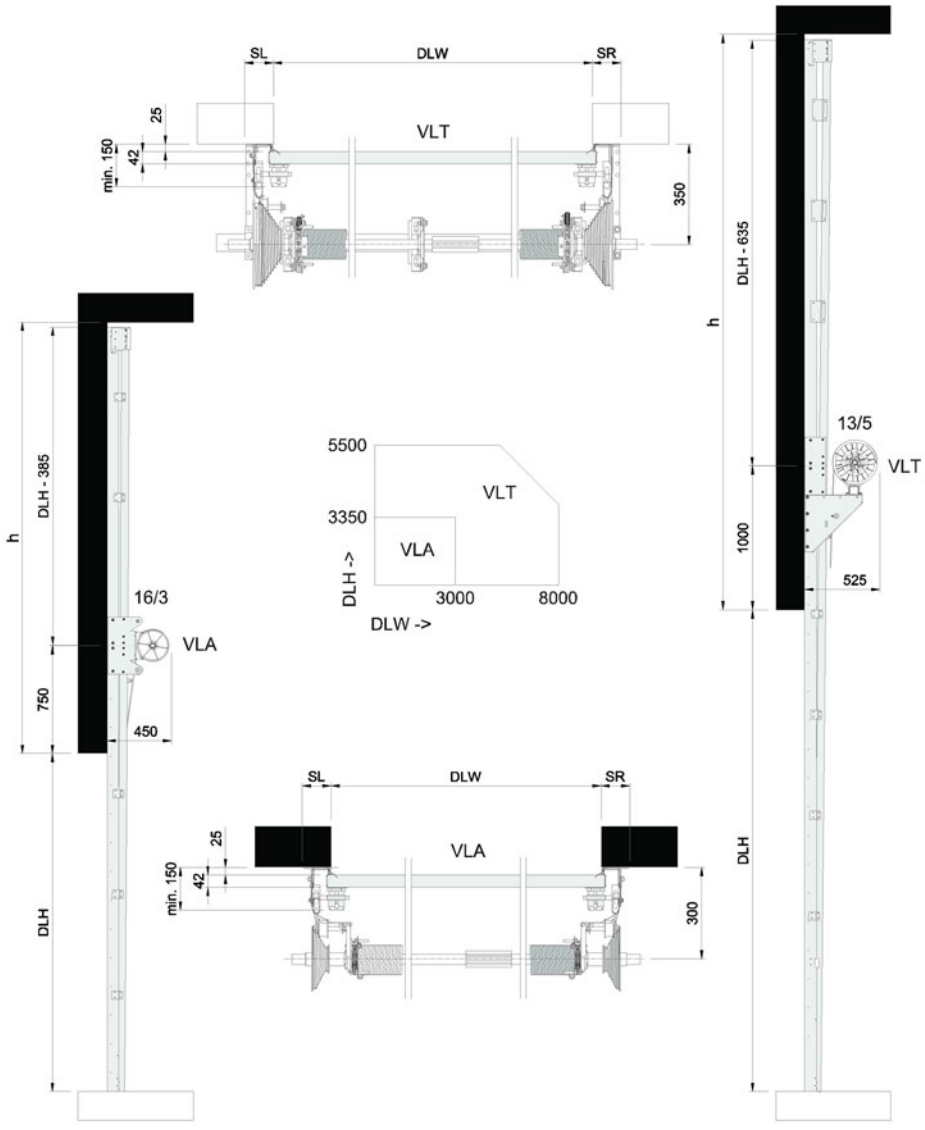
Side and top view



5.2.5 Space requirements VL

h	DLH + 365 mm
SL/SR	110 mm Manual, 216 mm Hoist-D/T, 278 mm Hoist-U, 312 mm Operator, 352 mm Operator+Hoist (with outer support bearing + 64 mm)
D	VLA = 450 mm VLT = 525 mm (manual) VLT = 610 mm (operator)
	For details see the specific building preparation drawings • VL doors: DLW ≤3000 mm and DLH ≤3350 = VLA = no beam installed • VL doors: DLW >3000 mm or DLH >3350 = VLT = installed with beam to support the balancing system We would advise the following doors to be installed on a frame, equipped with an A-65 top seal. • Doors DLW > 6050 mm • Doors DLW ≥ 4050 mm with a dark outside colour, frequently exposed to solar heat.

Side and top view



6. Service you can rely on

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The ultimate protection

With full coverage, Gold Service enables you to plan and budget your expenses annually.

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- Labor and travel costs for emergency calls
- Replacement of components according to preventive maintenance schedule and to fulfill legislative and safety requirements

Silver

Added advantages

With cover for all service calls during business hours, Silver Service offers you peace of mind.

- Labor and travel costs for emergency calls
- Preventive maintenance

Bronze

Scheduled Service

With scheduled on site visits, Bronze Service means you know that your doors and docking systems will be regularly serviced and inspected.

- Preventive maintenance

Included in all packages			
1-4 scheduled maintenance visits per year	24/7 priority service hotline and fast response	Safety, compliance and quality control checks	Documentation reports provided on site

Expert service you can rely on

A healthy business enjoys a steady flow of goods, services and people through its entrances every day. But heavy traffic puts entrances under pressure as every component works to keep them running.

ASSA ABLOY Entrance Systems offer the industry's most complete, flexible service solutions. Because even something as robust and well-engineered as an ASSA ABLOY door or docking system needs to be serviced to stay in great working order.

Pro-active care packages

An ASSA ABLOY service agreement gives you service you can rely on. We have specialized local service technicians on call to take care of your service needs. Equipped with a wide range of spare parts and expertise, to keep your industrial doors and docking systems running.

With an ASSA ABLOY service agreement you can ensure reliable, safe and sustainable operations at every entrance under your agreement, including doors and docking systems, independent of brand.

ASSA ABLOY e-maintenance™ (optional add-on)

For an online overview of your entrance systems and history, add ASSA ABLOY e-maintenance™ to your service package for:

- Easy access to real-time data on all your doors
- Planning, order and service information
- Overview that helps you control lifecycle costs

Index

W

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