

## PRODUCT DATASHEET NORMSTAHL ID40P OVERHEAD SECTIONAL DOOR



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The Normstahl brand has been a reliable partner and producer of premium entrance systems for the private and industrial sector since 1946. In collaboration with its network of distribution partners, Normstahl has become a leading provider of entrance solutions within Europe.

# Overview

Not every industrial application calls for complexity. Sometimes the best solution is the one that simply works.

The Normstahl ID40P overhead sectional door is a reliable entrance door in our overhead sectional range, built to provide businesses that value clarity and core performance with essential functionality.

Available in a range of standard color choices and with impressive ratings for watertightness, wind load and air permeability — alongside excellent thermal performance — the Normstahl ID40P helps ensure stable conditions and smooth operations across demanding environments.

With a long lifetime expectancy, it is designed to perform reliably and keep operations running smoothly year after year.



Min size (W x H): 2150 x 2150 mm

Max size (w x H): 6000 x 6000 mm

Section height: 500 mm  
610 mm

Top section height: 300 - 575 mm trimcut \*  
576 - 799 mm composed\*\*

Panel thickness: 40 mm

Panel material: Steel stucco insulated panels

Color outside: Standard: 5 standard RAL colors  
Option: Any RAL color shop painted

Color inside: RAL 9010 - pure white

Track types: Standard, Low, High, Vertical

Windows: Rectangular or oval acrylic windows 2+3mm

Passdoor: Not available

Operation: Pull down rope  
Servox operator  
Automated operation  
Access control  
Safety functions

\* The door leaf height is achieved by trimcutting the topsection.  
\*\* The door leaf height is achieved by composing the topsection.

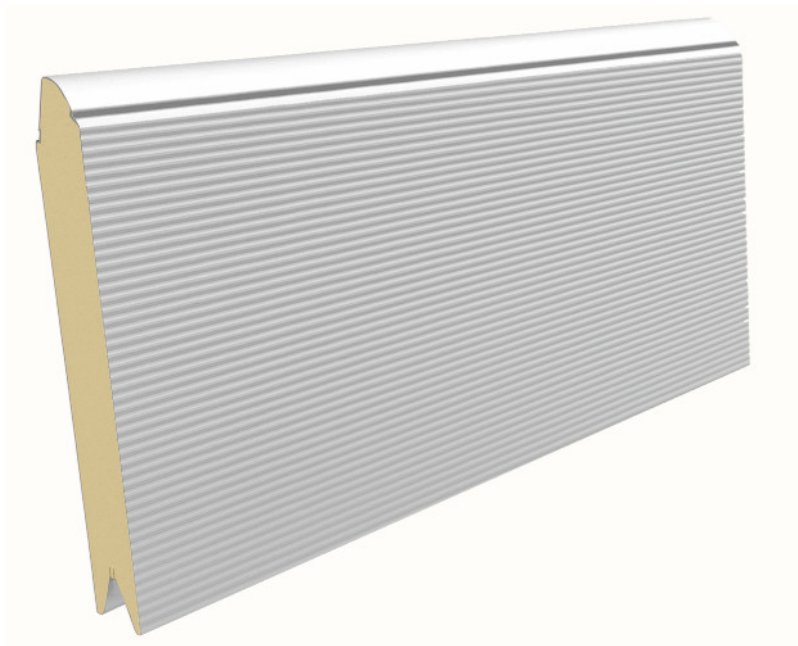




# Insulation

## Insulated section profiles

The 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.



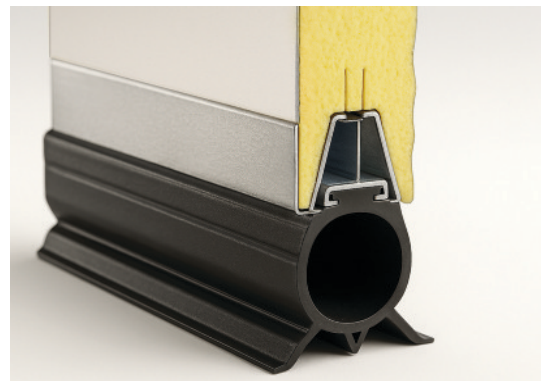
## Top seal

Most energy loss is caused by a gap on the top of the door leaf (heat goes up). The top seal is the most influential seal on the door. The top seal is a double rubber flap on the door leaf, pressing against the lintel or wall.



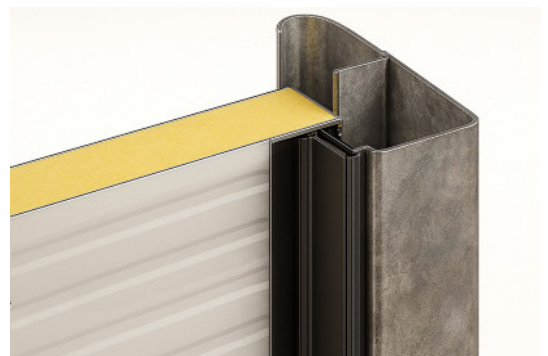
## Bottom seal

Installed on the bottom edge of the bottom panel. The flexible EPDM rubber material and the O-shape presses on the floor. It tolerates up to 15mm imperfections on the floor. The bottom seal also acts as the safety edge on electric doors, giving an air pulse if an object or person is below a closing door.



## Side seal

Installed on the track set to close the gap between the tracks and the door leaf. The flexible rubber material.



# Colors and materials

## Standard colours

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

- Outside color: The steel panel is available in the 6 standard RAL colors.
- Inside color: RAL 9010 - Pure white.

## Optional colours

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.

RAL9002



RAL9006



RAL7016



RAL9007



RAL9005



# Windows

Windows allow light into the building to improve working conditions. It also allows people inside to see what is going on outside.



DARR: Double rectangular glazed, double sealed, provided with 3 and 2mm acrylic sheets, black window frame.  
Light opening: 604 x 292mm



DAOR: Double oval glazed, double sealed, provided with 3 and 2mm acrylic sheets, black window frame.  
Light opening: 604 x 292 mm



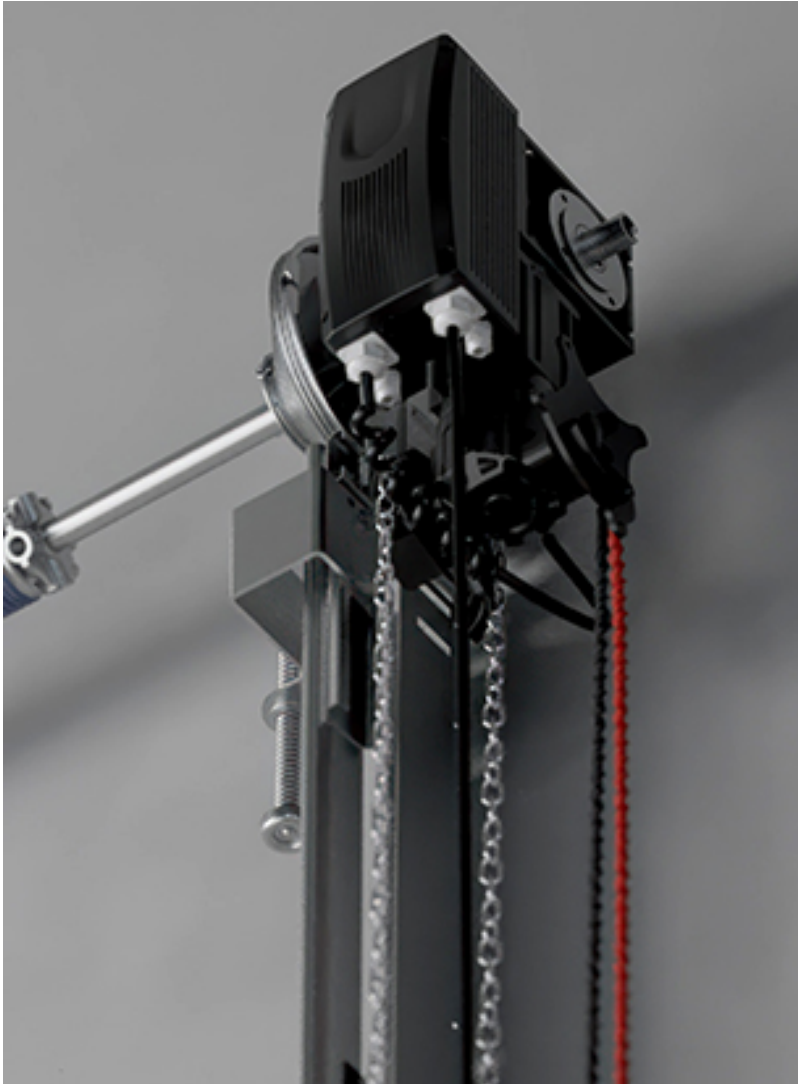
Optional ventilator in the bottom section.

**Number of windows**

Daylight width	Number of windows
2050 - 2134 mm	1
2135 - 2999 mm	2
3000 - 3864 mm	3
3865 - 4729 mm	4
4730 - 5594 mm	5
5595 - 6000 mm	6



# Operating system



The Normstahl ID40P overhead sectional door is supplied with an electrical operating system. The Servox operator and control unit make it possible to operate the door with automatic sensors such as radar, magnetic loop and photocells, but also remote control via external push buttons and hand held remote controls.

Key features:

- Smooth and silent
- Soft start and stop
- LCD plain-text display
- Over-torque protection
- Brushless technology
- Fits all track types and shafts
- Up to 0,2 m/s operating speed, depending on door type and setup
- IP54 protective rating
- Endurance 60 cycles per hour

**Control unit**

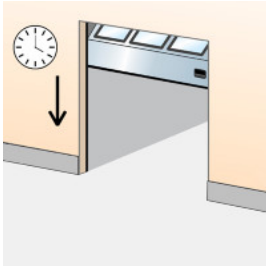


**Motor**



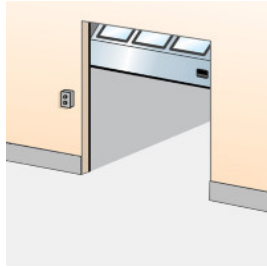


## Open/close automation



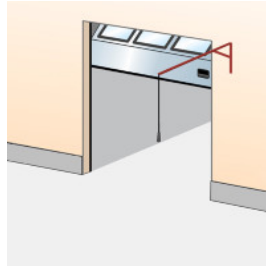
### Automatic closing

A programmable timer closes the door after a specified time after fully open position and/or passing the photocell beam.



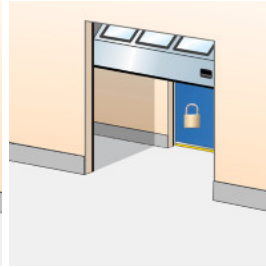
### External control box

Installed close to the door if the main control unit needs to be installed away from public access.



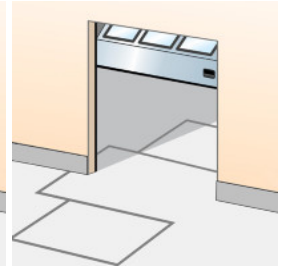
### Pull rope switch

A pull-rope switch above the door opening is handy for forklift trucks.



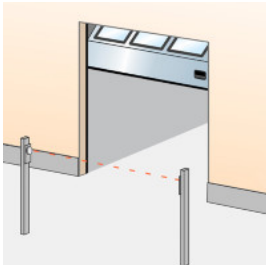
### Interlocking

Developed for climate control or safety; If door A is open, door B cannot be opened.



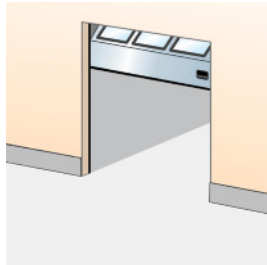
### Magnetic loop

A sensor in the floor detects a large object and opens the door. Ideal for frequent vehicle traffic.



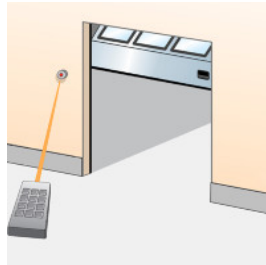
### Opening photocells

A set of photocells on pillars, on each side of the door. When a person or vehicle passes the beam the door opens.



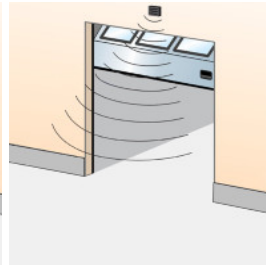
### Reduced opening

When it is unnecessary or undesirable to fully open a door, reduced opening opens the door to a reduced height.



### Remote control

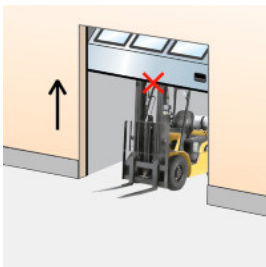
A hand-held radio transmitter allows door operation from a vehicle or any position within 50-100 meters from the receiver and aerial at the door.



### Radar

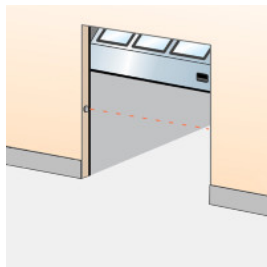
An infrared sensor above the door detects an object (person, vehicle). Ideal solution for frequent vehicle or personal traffic.

## Safety automation



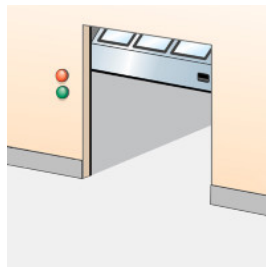
### Safety edge

Standard on doors that have impulse or automated closing. A pneumatic sensor in the bottom seal detects any obstruction under a closing door and reverses the door.



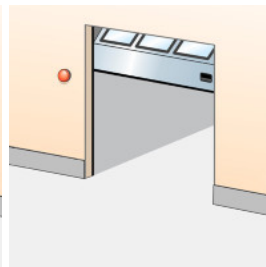
### Safety photocells

A photocell in the door opening. If the photocell beam is interrupted during closing, the door stops and reverses to the fully open position.



### Traffic lights

Red and green lights on each side of the door. Detection of a vehicle gives a green light on that side and a red light on the opposite. Typical for parking garages.



### Warning lights red or green

Flashing red light before or during door movement. Or continuous red light before and during door movement. Or green light to indicate an open door.

## Manual operation

### Integrated chain hoist

To open or close the door in case of power outage, an integrated chain hoist can be activated to operate by chain.



## Locks

### Lockbolt



### Cylinder lock



# Performance

## CEN Performance



Windload resistance  
Class 3  
700 Pa (N/m<sup>2</sup>)  
Measured at door size 4000 mm \* 3000 mm



Air permeability  
Class 3  
6 m<sup>3</sup>/m<sup>2</sup>/h  
Measured at 50 Pa pressure



Durability  
100000 door cycles,  
if service/replacement  
program is performed



Acoustic insulation  
R - 25dB



Thermal transmittance  
0,87W/(m<sup>2</sup>·K)  
Measured at door size 4000 mm \* 3000 mm without windows



Operating forces and safe openings  
Passed  
Maximum force allowed 400 N for max 0,75 seconds.  
Measured at freefall from 50 and 300 mm height



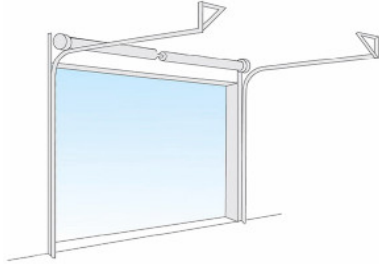
Water resistance  
Class 3  
> 50 Pa (N/m<sup>2</sup>)  
Measured at door size 4000 mm \* 3000 mm without windows

## Operating performance

Model	SV120-ISD	SV140-ISD
Rated Voltage/Frequency	220-240V 50Hz	220-240V 50Hz
Motor power in KW	0.75	1.0
Fuse	10 A	10 A
Max output current on 24V	600 mA (auto fuse)	600 mA (auto fuse)
Rated output torque in Nm	100	120
Max output torque in Nm	120	140
Speed in RPM	5-50	5-50
Holding torque	700 Nm	700 Nm
Max cycles per hour	60c/h	60c/h
Max door area in m <sup>2</sup>	49	60
Diameter hollow shaft in mm	1" / 25.44 mm (max 5000 * 4200 mm max 300kg door weight)	
Emergency release	Chainhoist	
Limit setting of door travel	Absolute encoder	
Optional accessories	Main power switch, Extended function board, Remote control	

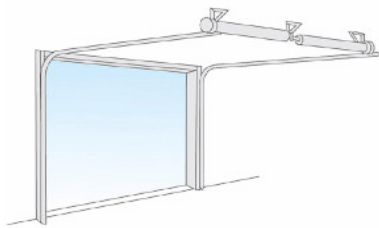
# Tracks and space requirements

## Low ceilings



### Standard lift

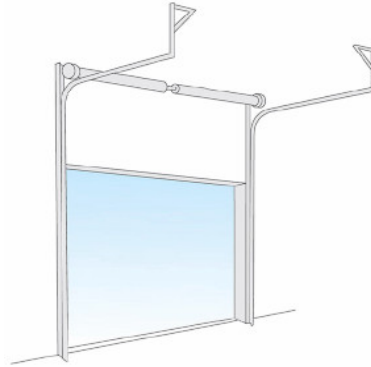
Most common, springs just above door opening.



### Low lift

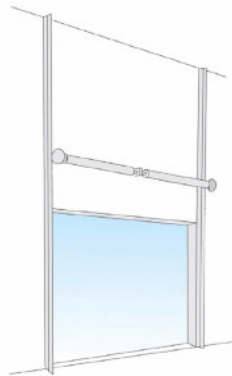
For low ceilings, springs at end of horizontal tracks.

## High ceilings



### HL - High lift

If vertical lift is not possible, the HL still offers great space to pass vehicles.



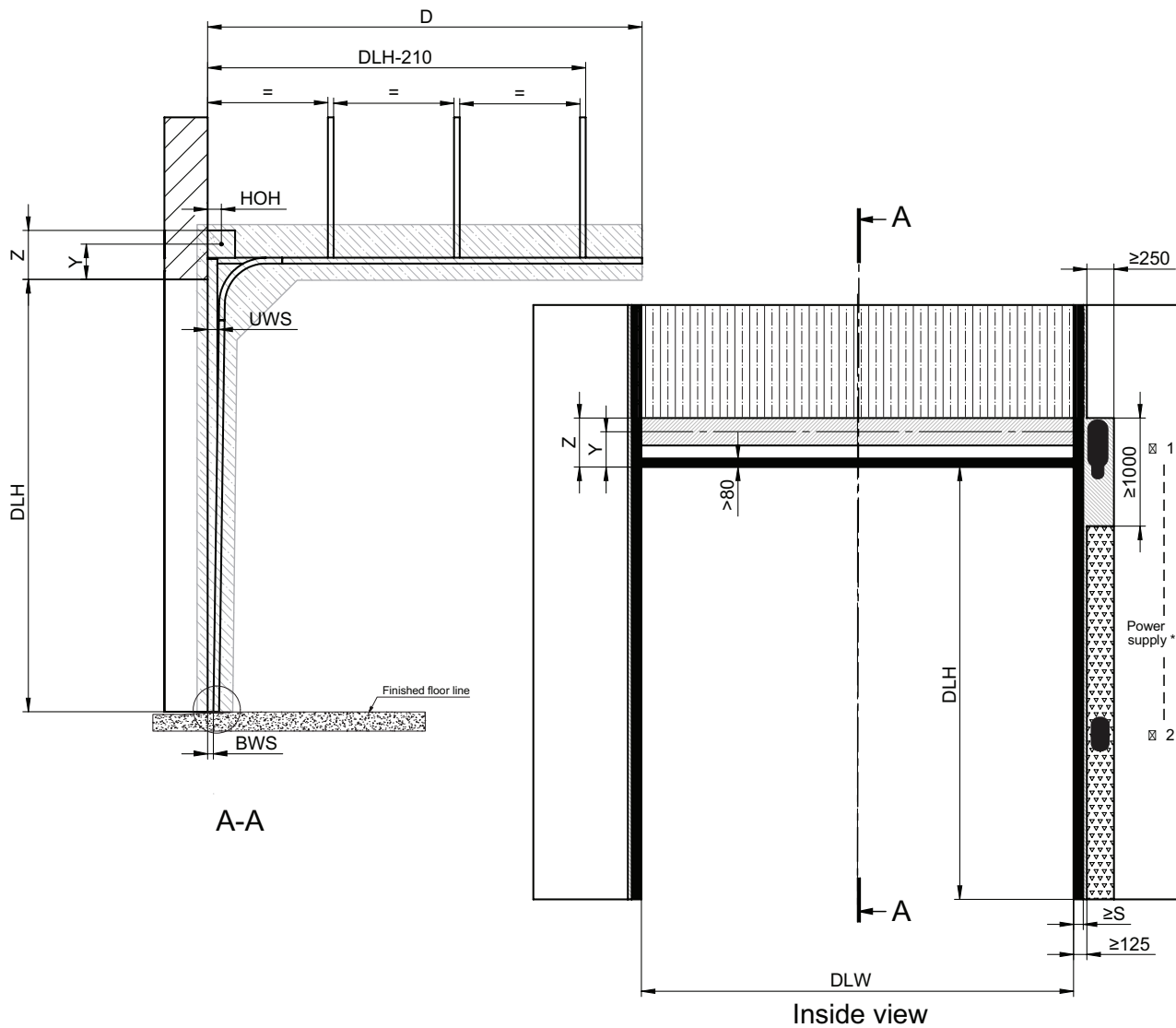
### VL - Vertical lift

The door opens fully vertically, no need for horizontal tracks, to keep headroom clear. Typical in warehouses.

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.

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.

## SL - Standard lift



h	436 mm (DLH ≤ 5580 mm) 518 mm (DLH > 5580 mm)
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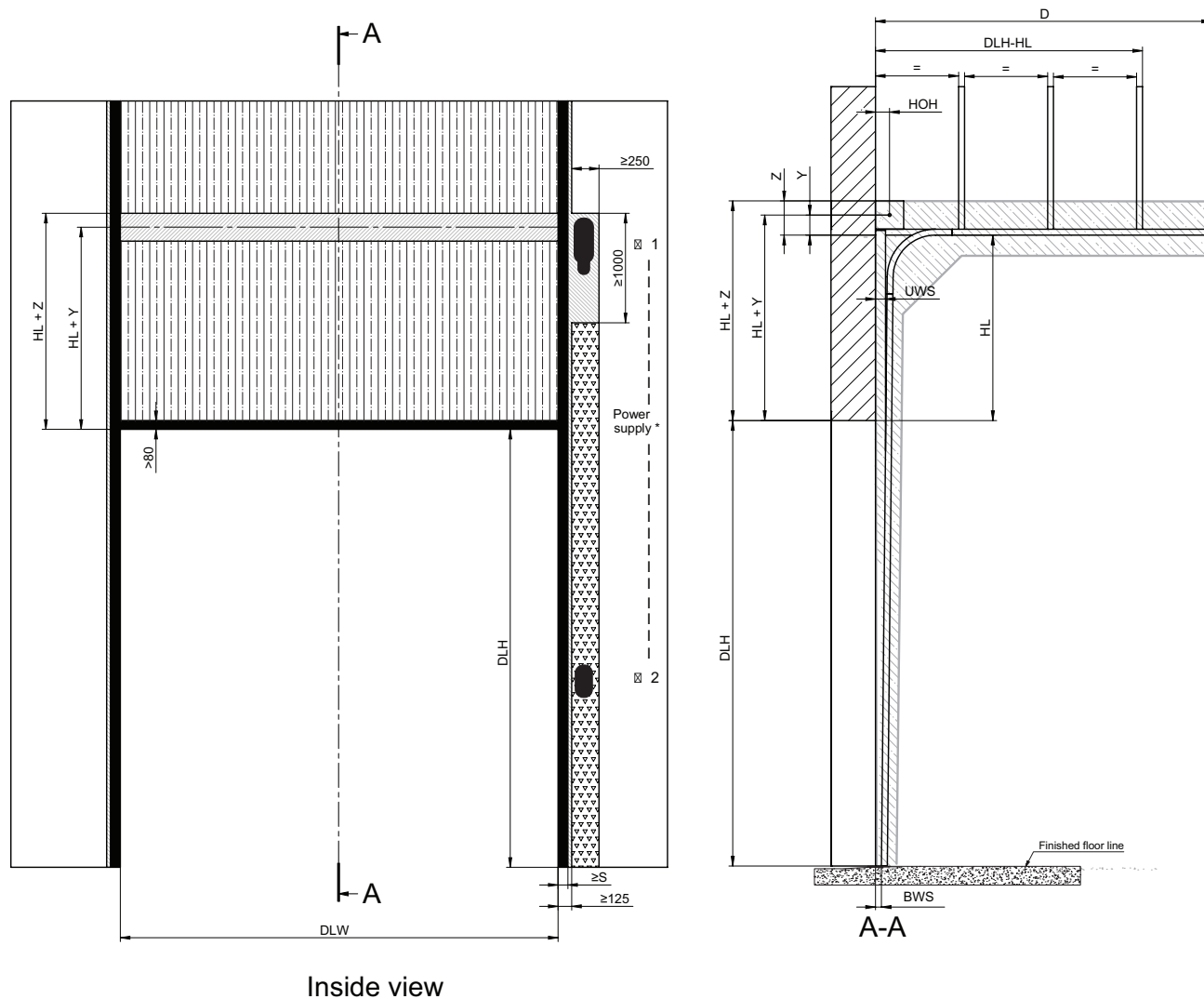
SL/SR	465 mm Operator side 165 mm Non-operator side
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D	DLH + 475 mm
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For details see the specific building preparation drawings



## HL - High lift



Inside view

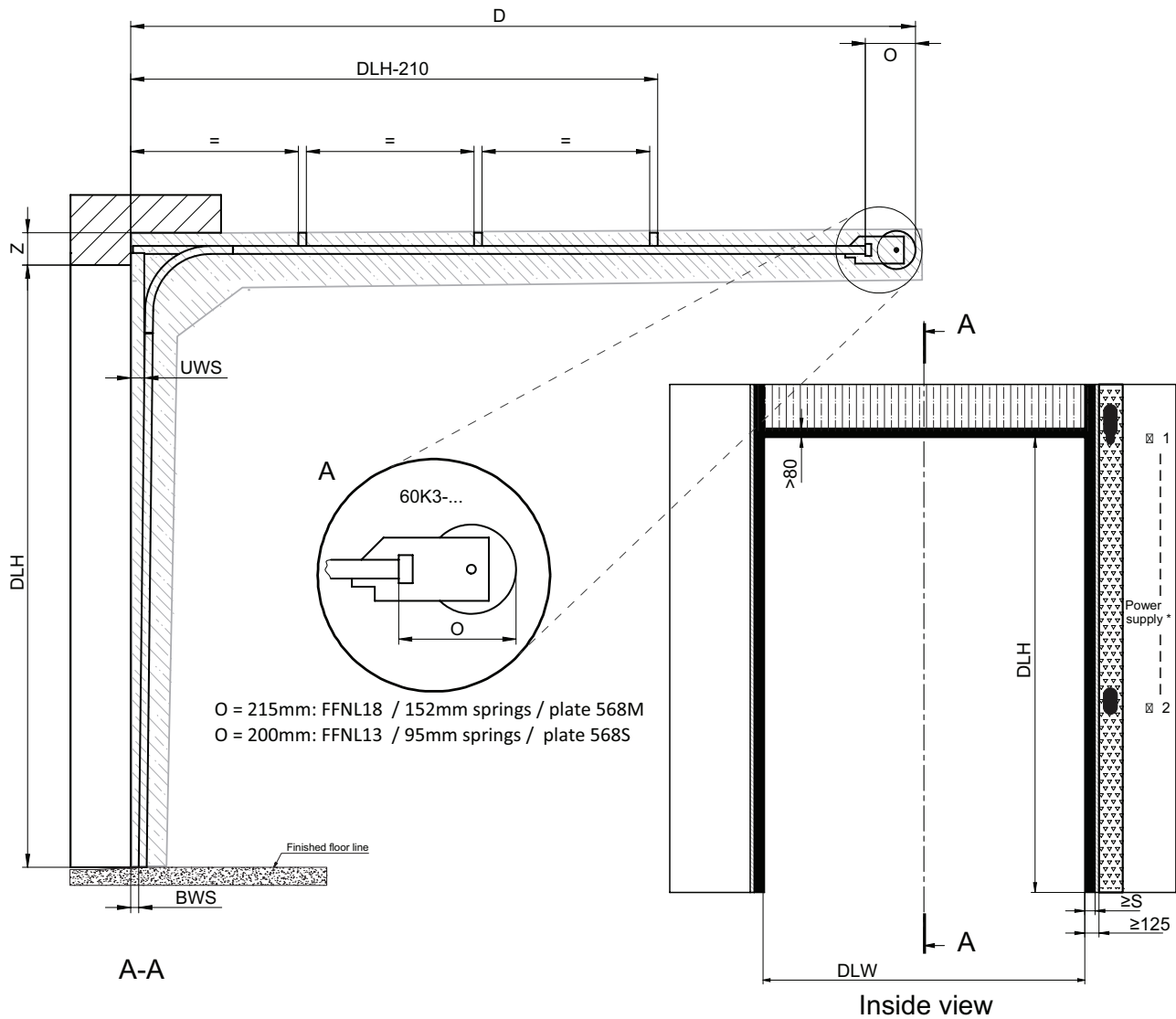
h HL + 308 mm (DLH ≤ 3010 mm)  
HL + 358 mm (DLH > 3010 mm)

SL/SR 465 mm Operator side  
165 mm Non-operator side

D DLH - HL + 685 mm

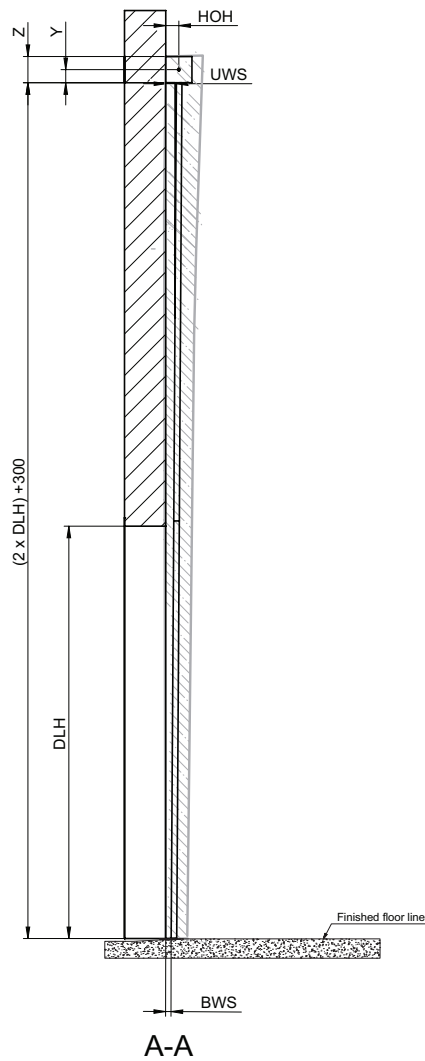
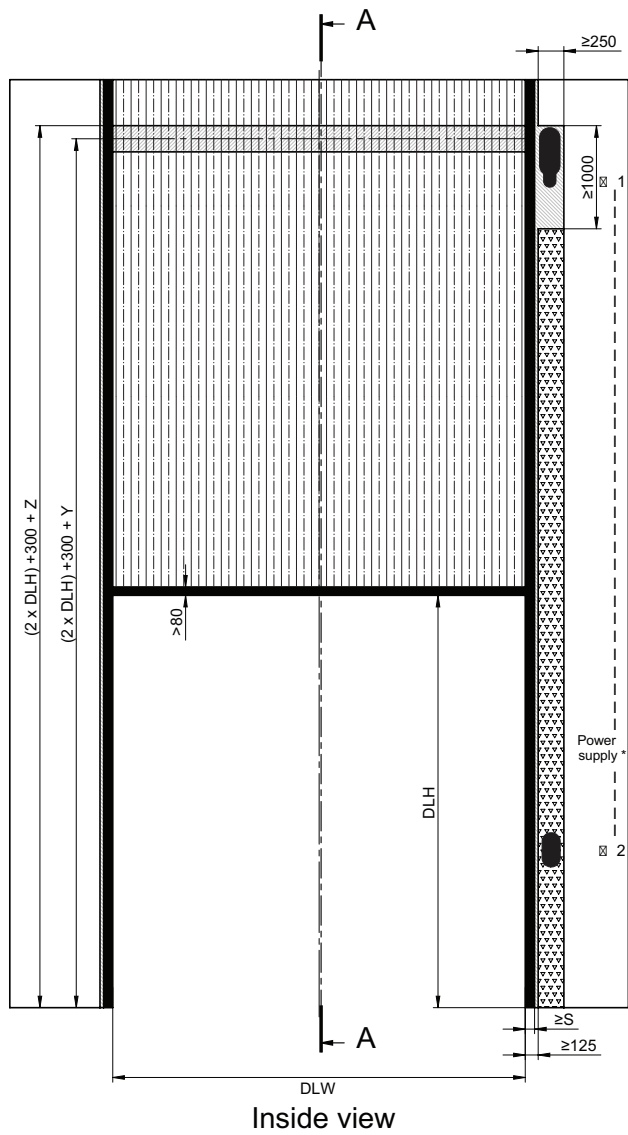
For details see the specific building preparation drawings

## LL - Low lift



<b>h</b>	200 mm (DLH ≤ 4002 mm) 215 mm (DLH ≤ 5580 mm)
<b>SL/SR</b>	391 mm Operator side 165 mm Non-operator side
<b>D</b>	DLH + 925 mm
For details see the specific building preparation drawings	

VL - Vertical lift



h	HL + 254 mm (DLH ≤ 3300 mm) HL + 304 mm (DLH 3301 - 6000 mm) HL + 500 mm (DLH 6001 - 7000 mm) HL + 400 mm (if beam installed)
SL/SR	445 mm Operator side 145 mm Non-operator side
D	500 mm (no beam) 525 mm (if beam installed)
For details see the specific building preparation drawings	



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