**Model:**

**ASSA ABLOY OH1042S** fully balanced sectional speed door with an operating speed of 1,0 m/s up and 0,7 m/s down.

Incorporating insulated door panels manufactured with a broken cold bridge to provide minimal thermal transmittance and reducing risk of condensation and ice formation. Optimized panel joint for even load distribution minimizing impact stress on panel hinges to prevent panel delamination and cracks. Door designed and tested for 100,000 opening cycles. Facilitates a tight seal throughout the life cycle of the door. Secured By Design certified. Diamond pattern exterior panel finish.

**Dimensions**

 Clear opening width ….. … (2.000 mm - 5.000 mm)

 Clear opening height …….. (2.750 mm - 5.000 mm)

**Standard equipment:**

Fully balanced, powder coated pre tensioned springs, designed for a minimum 20000 operating cycles, mounted on a 35 mm shaft with extra side bearings.

Flat maintenance free hinges made of composite material with a stainless steel pin.

Flat roller brackets with double rollers, no protruding parts on the door leaf.

EPDM perimeter and invisible horizontal joint seals.

Finger pinch protection to horizontal panel joints.

**Performance:**

 To comply with European Standards

**EN 12424** Wind resistance class 3 (width <4250mm) class 2 (width >4250mm).

**EN 12425** Water penetration class 3 (70 pa resistance).

**EN 12426** Air permeability class 3.

**EN 12428** Thermal transmittance 1,0W (m².k).

**DIN 4102** Fire performance class B2

**EN 13241** CE marked with manufacturer’s declaration of conformity.

**ISO 9001** Quality management

**ISO 14001** Environmental management

Compliant with L2A Building Regulations.

**Door panels:**

545 mm deep, 42 mm thick process laminated steel panels with internal steel bands positioned to ensure proper fixation of hinges and roller brackets throughout the products life span. CFC free insulation giving an optimum panel u value of 0.4 W/m² K.

Panel design incorporates an external diamond profile steel skin for additional strength and aesthetic appearance with glossy finish at the section joints. Bottom profile equipped with oil resistant EPDM triple lip rubber seal to minimize leakage.

**Finish as delivered:**

Internal, monolithic, pre coated polyester to RAL 9002.

External pre coated polyester from ASSA ABLOY standard range:

RAL 1021 Rape Yellow, RAL 3002 Carmine Red, RAL 5010 Gentian Blue , RAL 6005 Moss Green, RAL 7016 Anthracite Grey, RAL 8017 Chocolate Brown, RAL 9002 White, RAL 9005 Jet Black, RAL 9006 Metallic Silver, RAL 9007 Silver Grey & RAL 9010 Pure White

Or Factory applied paint finish to the external face of the door panels in RAL ……..

All rubber sealants from EPDM rubber, temp. resistant -30/+70 Celsius

All steel components electro galvanized

All parts should be system specific, designed for purpose

**Tracks:**

2 piece galvanized tracks complete with 25 mm thermal movement provision.

Standard Lift (SL) 500 mm - 1000 mm head room

High Lift (HL) 500 mm - 1000 mm head room

Vertical Lift (VL) DLH + 525 mm

**Operator:**

Operating voltage: 230 V AC +/- 10%, 50 HZ (internal supply 3-phase 230 V AC) 0,85 kW.

*Operating factor: ED = 30%, S3 10 min, non-continuous operation*

(Motor operation 3 min, pause 7 min, direct-inverting)

Torque: max 80 Nm, depending on drum type and speed.

Fuse: 10 A

Brake: Electro-magnetic spring-loaded brake

Speed monitor: electronic monitoring

Freewheel / clutch: manual brake release.

Limit switch: electronic via encoder.

Gears: worm gear, not self-locking, max 140 RPM on door shaft. Shaft: ø35 mm tube or solid

No special wall reinforcement necessary

Temperature range: +5°C to 40°C

Soft stop, soft start FC controlled

Connection using "CEE plug" or lockable mains isolator

Maximum door weight 300 kg

**Control unit:**

1 x 230 V +/- 10% supply, 18 W. Dimensions: 300 x 400 x 165 mm (w x h x d) including control unit with standard actuator UP-STOP-DOWN and pulse control incl. self- monitoring of safety edge (light grid). Automatic closing, the door closes automatically after set period (0-240s).

Counter/error code display and servicing info display in top of control cabinet.

Protection class IP 54 with CEE-plug, IP 65 when wired.

Disengage device to be used in case of power failure is optional.

**Safety device(s):**

 Spring break device

 Safety factor six door cables

 Stop and return photocell light grid

**Locking mechanism:**

 Interlocked sliding bolt with lock bolt switch

**Warranty:**

 1 YEAR / 2 YEAR / 3 YEAR / 4 YEAR / 5 YEAR extended manufacturer’s warranty available

 to secure optimum performance and longevity.

Please consult ASSA ABLOY Entrance Systems technical literature for further details and the quotation for project specific notes.

**OPTIONS**

**Windows:**

* Sandwich glazing, double glazed, rectangular, 604 x 292 mm
* Sandwich glazing, double glazed, oval, 610 x 292 mm
* 545 mm Aluminium frame bar section with, acrylic sheets, 2 x 2,5 mm, total thickness 27 mm, single sealed
* 545 mm Aluminium frame bar section with, scratch resistant acrylic glass, 2 x 2,5 mm, total thickness 27 mm, single sealed
* 545 mm Aluminium frame bar section with, acrylic glass 2 x 2,5 mm, total thickness 27 mm, double sealed, with anti-fog granulate in the bars.
* 545 mm Aluminium frame bar section with, scratch resistant acrylic glass 2 x 2,5 mm, total thickness 27 mm, double sealed with anti-fog granulate in the bars.
* 545 mm Aluminium frame bar section with, single glazing 2,5 mm acrylic
* 545 mm Aluminium frame bar section with, scratch resistant single glazing 2,5 mm acrylic
* 545 mm Aluminium frame bar section with, single glazing 4 mm hardened glass (On request)
* 545 mm Aluminium frame bar section with, triple glazing – scratch resistant
* 545 mm Aluminium frame bar section with, triple glazing – not scratch resistant

## Door locking device:

* Second sliding shoot bolt
* Lock with profile cylinder lockable on one or both sides
* Optional burglar proof class 2-RC1+RC2

### Control unit Options

* Radio remote control
* "Open" (if open button is used during closing process - door immediately stops and opens completely)
* Pull switch for OPEN / CLOSE
* External push-button, key switch
* "One-button function" - opens or closes door, depending on actual status (e.g. radio, pull switch)
* additional safety (e.g. photo cell, radar) – door immediately opens completely
* F-Module (F1, F2, F4)
* Photo cell, typically as a reset for automatic closing, some distance from the door.
* Radar
* Magnetic loop
* Warning lights
* Traffic lights, on request.
* Interlocking door function, on request.
* Door/bridge interlock
* French Warning lights
* LED on door
* Indication open and/or closed door.
* Additional 24 V DC, 430 mA
* Light grid as reset for automatic closing, instead of additional photocell, optional.

Note! Lights and position indications uses the **two** available outputs, combinations are limited, expansions/combinations on request.

## F-Module (automation module)

### F1 functions

* red lamps, included, steady light when door is moving
* red blinking light before "Automatic close" possible, 3s only
* constant red light with door closed available

### F2 functions

* Magnetic loop, inclusive, with various functions, e.g.
	+ "Safety"
	+ "Safety and open"
	+ "Open"

### F4 functions

* Combination of F1 and F2
* red lamps, included, steady light when door is moving
* red blinking light before "Automatic close" possible, 3s only
* constant red light with door closed available
* Magnetic loop, inclusive, with various functions, e.g.
	+ "Safety"
	+ "Safety and open"
	+ "Open"

Note! Lights and position indications uses the **two** available outputs, combinations are limited, expansions/combinations on request.