



FIRE PROTECTION

EI30

Pol-Skone System
with or without sidelights/toplights



Fire
resistance 30 min



Acoustic insulation:
Class Rw=32 dB (single leaf door)*
Class Rw=27 dB (double leaf door type)**
Class Rw=42 dB (single leaf door)***

Technical Approval no AT-15-8368/2010,
Certificate of Conformity ITB-1937/W

PURPOSE:

The doors are designed for use as internal entrance doors in residential buildings, collective dwellings, public utility and industrial buildings. They are used to close openings in internal walls, between staircases or corridors and rooms, as determined in the PN-B-91000:1996 standard.

SPECIFICATIONS:

- Fire resistance EI₂30
- Acoustic insulation: the single leaf type: Rw = 32 dB, 42 dB; the double leaf type: Rw = 27 dB
- Mechanical class: mechanical resistance requirement class 3, i.e. heavy service conditions

DOOR DIMENSIONS:

Single leaf door: max. "100" door width – 1112 mm, max. height - 2175 mm; double leaf door: max. "100+100" door width – 2152 mm, max. height - 2175 mm

Doors of non-standard width and height are available upon consultation with the POL-SKONE sales department.

Sidelights: max. width: 944 mm, height: 2175 mm.

Toplight: max. width: 2152 mm, max. height: 425 mm.

DOOR LEAF STRUCTURE:

Rebated system door leaf. The door leaf structure consists of a rail and stile set made of coniferous wood, topped with MDF board on both sides. The core is made of a special POL-SKONE structure. The rated thickness of the door leaf is 50 mm.

DOOR LEAF FINISH:

Plain, painted, veneered surface; covered with 0.2 - 0.7 mm thick CPL laminate, 0.7 - 1.0 mm HPL laminate, wood look-alike foil. Flat decors, decors made of decorative profile mouldings, aluminium decors and decorative milled flutes are available.

*Rw (C;Ctr) = 33 (0;0) dB, the specific acoustic insulation coefficient for the "90" width door (test report no 0750/13/R60NA)

**Rw (C;Ctr) = 30 (0;-1) dB, the specific acoustic insulation coefficient for the "100"+"100" width door (test report no 02695/A/2009)

***Rw (C;Ctr) = 43 (-1;-4) dB, the specific acoustic insulation coefficient for the "90" width door (test report no 0750/13/R60NA)

DOOR FRAME:

Fixed pine wood frame - optionally provided with masking strips and a shoe moulding or an adjustable wooden frame with widening panels, architraves and a masking strip.

The door frame can be painted, veneered or covered with a foil matching the colour of the door leaf.

GLAZINGS:

Transparent glass with the EI30 fire resistance.

The oak frame comes painted, veneered or covered with a foil matching the colour of the door leaf.



ACCESSORIES AND EQUIPMENT:

Standard Equipment:

- Pivot hinges, adjustable in 3 planes, from OTLAV
- Main cylinder lock
- Drop seal (version 42 dB – two drop seals)

Auxiliary Equipment:

- Surface-mounted or hidden door closer – p. 24
- Electronic hotel locks. The exemplary manufacturers and lock types are:
 - 8002, 8006, 8005, 8008 from LOB
 - IT5600, IT5600P from TAYAMA
 - 737G model 1000, model 2000, model 3000 from LOB
 - Types 710 II, E-760, E-790 from KABA ILCO
 - MIWA AL5H from MIWA LOCK Company Ltd
 - SIGNATURE and CLASSIC from VingCard

NOTE: Other locks may be used in fire protection doors if their usability for the fire resistance purposes has been determined with the use of a sample of a door with a specific structure in the fire resistance tests PN-EN 1634-2:2009. The locks should be authorised for marketing.

- Electric motor locks EL 560 or EL 561 from ABLOY with a cable gland EA 281 installed on the hinge side
- Additional mortise or surface-mounted lock
- Anti-panic levers from DORMA, FAPIM
- Plates with access control from SALTO or WANDEX
- Surface-mounted solenoid keepers from ASSA ABLOY, DORMA or GEZE
- Solenoid holders from GEZE or DORMA
- Averse action 447 series electric strike lock from DORMA, 118F.14 from EFFEFF
- Reverse action electric strike lock ELP-009, ELP-018 from BIRA, compatible with the additional lock
- Wide-angle viewer
- Rigid, loose chain
- Oak threshold
- Mortise reed switch
- Polished or brushed stainless steel 300 mm high panels, provided at the bottom of the door leaf or at the handle height

NOTE! The door should be provided with an automatic door closer conforming to the requirements of the PN-EN 1154:1999/A1:2004/AC:2010 standards, door handles conforming to the requirements of the PN-EN 1906:2012 standard and drum cylinders conforming to the requirements of the PN-EN 1303:2007+AC:2008 to meet the fire resistance conditions.

DOORS INSTALLATION:

The doors are installed by means of rock mineral wool or fire protection foam featuring the fire resistance of min. EI30.



FIRE PROTECTION

EI30 PLUS



Fire
resistance 30 min



Acoustic insulation:
Class $R_w=32$ dB (single leaf door)
Class $R_w=27$ dB (double leaf door type)



Smoke control (optional)
for door without
a ventilation grill

Technical Approval no AT-15-6103/2013 + Annexe no 1,
Certificate of Conformity ITB-2171/W

PURPOSE:

The doors are designed for use as internal entrance doors in residential buildings, public utility buildings and collective dwellings.

SPECIFICATIONS:

- Fire resistance EI₂30
- Acoustic insulation: single leaf type $R_w = 32$ dB, double leaf type $R_w = 27$ dB
- Mechanical class: mechanical resistance requirement class 3, i.e. heavy service conditions
- Smoke control class Sa Sm

DOOR DIMENSIONS:

Fixed or adjustable wooden door frame:**Rebated system:**

- Single leaf door: max. „110” door width – 1212 mm, max. height 2500 mm
- Double leaf door: max. „110+110” door width – 2352 mm, max. height 2500 mm

Non-rebated system:

- Single leaf door: max. „110” door width – 1212 mm, max. height 2500 mm
- Double leaf door: max. „110+110” door width – 2329 mm, max. height 2500 mm

Fixed metal door frame (rebated system):

- Single leaf door: max. „110” door width – 1204 mm, max. height 2271 mm
- Double leaf door: max. „110+110” door width – 2342 mm, max. height 2271 mm

Adjustable metal door frame (rebated system):

- Single leaf door: max. „110” door width – 1224 mm, max. height 2281 mm
- Double leaf door: max. „110+110” door width – 2362 mm, max. height 2281 mm

Doors of non-standard width and height are available upon consultation with the POL-SKONE sales department.

DOOR LEAF STRUCTURE:

Rebated system or non-rebated system door leaf (fixed or adjustable wooden door frame). The door leaf structure consists of multilayer chipboard with a coniferous wood film, topped with HDF board on both sides. The rated thickness of the door leaf is 50 mm.

DOOR LEAF FINISH:

Plain, painted, veneered surface; covered with 0.2 - 0.7 mm thick CPL laminate, 0.7 - 1.0 mm HPL laminate, wood look-alike foil. Flat decors, made of decorative profile mouldings, aluminium decors and decorative milled flutes are available (upon consultation with the POL-SKONE sales department).

DOOR FRAME:

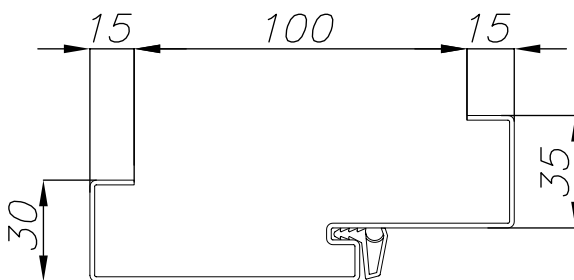
Fixed pine wood frame - optionally provided with masking strips and a shoe moulding or an adjustable wooden frame with widening panels, architraves and a masking strip.

The door frame can be painted, veneered or covered with a foil matching the colour of the door leaf.

Fixed metal door frame (only the rebated system) made of 1.5 mm thick sheet steel, available with standard powder coatings in the following colours: white (RAL 9016), grey (RAL 7040), brown (RAL 8017) and beige (RAL 1001). Door frames painted in non-standard colours from RAL or NCS systems are available upon consultation with the Sales Department.

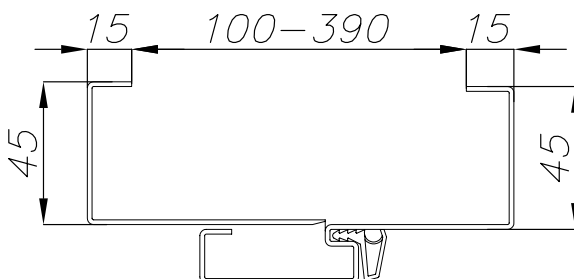
Fixed wrap-around type door frame suitable for thickness of the wall.

The door frame can also work as an angle frame.



Adjustable metal door frame (only the rebated system) made of 1.5 mm thick sheet steel, available with standard powder coatings in the following colours: white (RAL 9016), grey (RAL 7040), brown (RAL 8017) and beige (RAL 1001). Door frames painted in non-standard colours from RAL or NCS systems are available upon consultation with the Sales Department.

The door frame consists of a major part and an architrave inserted into the major part.



GLAZINGS:

Transparent glass with the EI30 fire resistance.

The pine frame comes painted, veneered or covered with a foil matching the colour of the door leaf.

The available glazing includes a porthole with a Ø320 mm steel frame (an external dimension).

Exemplary glazing patterns.



ACCESSORIES AND EQUIPMENT:

Standard Equipment:

- Hinges - the rebated version, wooden door frame or metal door frame: pivot hinges adjustable in 3 planes from OTLAV.
- Hinges - the non-rebated version, wooden door frame: VX 7729/120 pocket hinges from Simonswerk.
- Main cylinder lock
- Drop seal

Auxiliary Equipment:

- Surface-mounted or hidden door closer – p. 24
- Electronic hotel locks. The exemplary manufacturers and lock types are:
 - 8002, 8006, 8005, 8008 from LOB
 - IT5600, IT5600P from TAYAMA
 - 737G model 1000, model 2000, model 3000 from LOB
 - Types 710 II, E-760, E-790 from KABA ILCO
 - MIWA AL5H from MIWA LOCK Company Ltd
 - SIGNATURE and CLASSIC from VingCard

NOTE: Other locks may be used in fire protection doors if their usability for the fire resistance purposes has been determined with the use of a sample of a door with a specific structure in the fire resistance tests PN-EN 1634-2:2009. The locks should be authorised for marketing.

- Electric motor locks EL 560 or EL 561 from ABLOY with a cable gland EA 281 installed on the hinge side
- Additional mortise or surface-mounted lock
- Anti-panic levers from DORMA, FAPIM
- Plates with access control from SALTO or WANDEX
- Surface-mounted solenoid keepers from ASSA ABLOY, DORMA or GEZE
- Solenoid holders from DORMA, EFFEFF
- Averse action 447 series electric strike lock from DORMA, 118F.14 from EFFEFF, 1700 series from JIS
- Reverse action electric strike lock ELP-009, ELP-018 from BIRA, compatible with the additional lock
- Wide-angle viewer
- Rigid, loose chain
- Oak threshold
- Ventilation grill: 300x150 mm, 500x150 mm, 500x200 mm. Doors equipped with a ventilation grill do not offer acoustic insulation and smoke control. The ventilation grills meet the minimum airflow requirement, i.e. 0.022 m².
- Mortise reed switch
- Polished or brushed stainless steel 300 mm high panels, provided at the bottom of the door leaf or at the handle height

NOTE! The door should be provided with an automatic door closer conforming to the requirements of the PN-EN 1154:1999/A1:2004/AC:2010 standards, door handles conforming to the requirements of the PN-EN 1906:2012 standard and drum cylinders conforming to the requirements of the PN-EN 1303:2007+AC:2008 to meet the fire resistance conditions.

DOORS INSTALLATION:

Doors with a wooden door frame are installed by means of rock mineral wool or fire protection foam featuring the fire resistance of min. EI30.

Doors with a fixed metal door frame are installed by means of mortar or fire-protection foam featuring the EI30 fire resistance.

Doors with an adjustable metal door frame are installed by means of a mineral rock wool.