

HINGE

Bifold door
without lower guide



Industrial
insulated
closing
systems



Bifolded door consists of 52mm thick panels. Each panel has face sheets of light-gauge steel (20/10 galvanised steel SENDZIMIR), pre-painted white grey colour similar to RAL 9002 and bonded to a galvanized steel channel frame reinforced with a rigid plastic-foam core. Metal sheets are obtained from an initial continuous lamination process, following a phosphate process and a final Primer paint (5 Micron thickness) on both sides of sheets. The finishing consists in 20 Micron thick paint applied on the external side of the sheet. So that the surface is totally smooth. The pre-painting finishing provides 400 hours of resistance in the saline fog atmosphere room without any alteration. In order to avoid any possible scratch, an adhesive film is applied on and to be removed once the door is assembled. The thermal insulation is assured by the injection of auto-extinguishing polyurethane foam according to standard DIN 4102 class B2 of 43/45 Kg./m³ density. The polyurethane foam provide high resistance to heat flow thanks to the press process.

The upper guide consists of a pressed and bent galvanised steel profile (30/10 thickness,

according to our design concept), equipped with trolleys and bearings and already arranged for possible motorizations. For this model there is no need of lower rail because the stability is granted by a steel frame consisted in n°02 steel columns (80mmx40mm section) and n°01 upper guide. Metal devices (anchors) are provided in order to secure the steel frame to the building structure.

An aluminum alloy plate is installed on the floor and in the middle of the clear opening in order to let door pins come in to assure a rigid and steady closure. The matt black flap hinges consist of aluminum alloy, obtained from a process of die-casting. A particular study grants to the hinge the possibility to get hurt by vehicles and to absorb the choc without breaking the panels. Hinge is equipped with ball bearings between the knuckles to reduce friction and ensure ease of operation. The galvanized steel pin is designed thanks to milling machine which assures an internal fixing without possibility to be removed. Cremones (cremone bolts) and aluminum handles painted in black color are installed on the internal face of door panels at eye level. Cremones are designed to grant 4 fastening points and central friction. A vertical galvanized steel flush bolt (tower bolt) is provided with two die-cast brass rods to grant two points of closure. In order to assure an easy sliding, all strike plates are internally covered by Teflon.

The panel gasket consists in EPDM rubber (anti-aging) alongside the perimeter in order to assure strong closure between wings. The space between wings consists in 50mm. (anti-crushing) for all versions: manual, motorized or arranged for the motorization according to the Law.

The upper and lower gaskets are designed in C shaped gasket with pre-cut lines (double adjustable strips) in order to grant different possibilities in adapting the door to the clear opening, the floor and the ceiling (lintel) and sealed all together to assure high standard of insulation and tightness.

- Color: standard White Grey similar to RAL 9002
- Working temperature: -30°Celsius; +70°Celsius
- Reference norm CE EN 13241-1 (CPD), class resistance wind 3.
- Acoustic insulation UNI EN 717-1; R=28dB.
- Thermal transmittance according to 13241-1 U=1,7W/sqm.k



w e o p e n y o u r f u t u r e

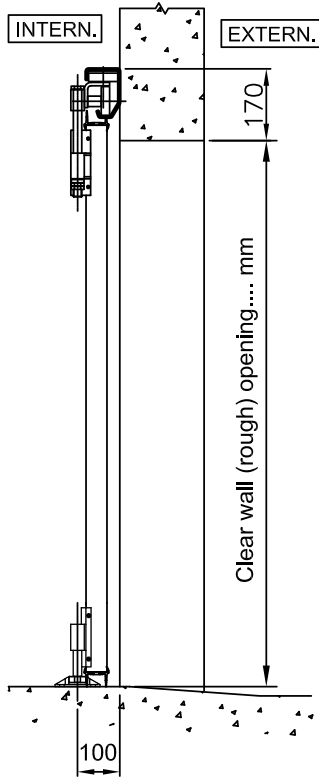


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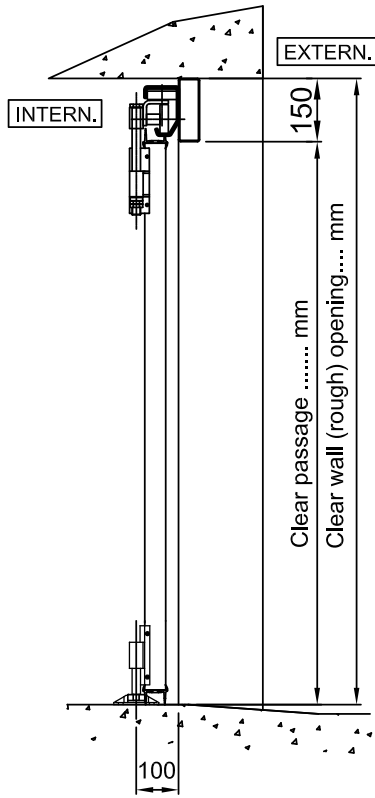
Bifold door without lower guide

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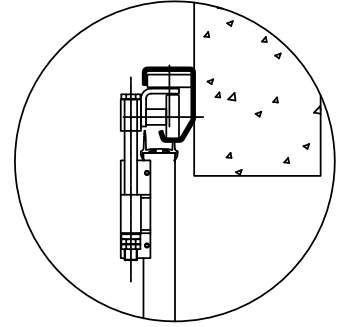
CROSS SECTION STANDARD FASTENING



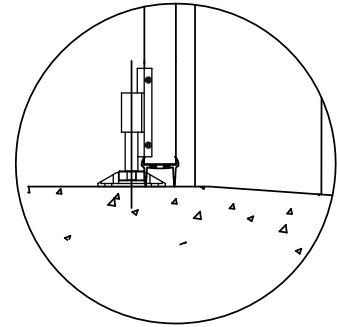
CROSS SECTION FASTENING ON THE CEILING



Detail of the upper guide

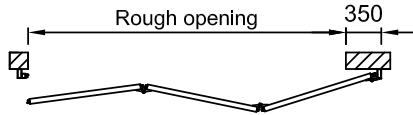


Detail of the lower guide

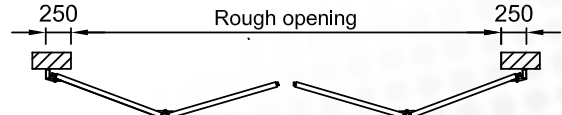


HORIZONTAL SECTION

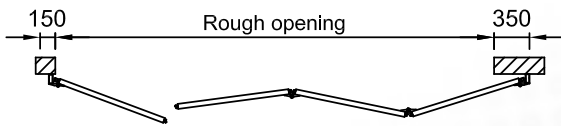
Mod. HINGE 3+0



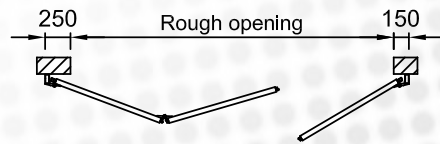
Mod. HINGE 2+2



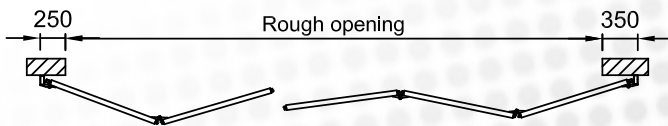
Mod. HINGE 3+1



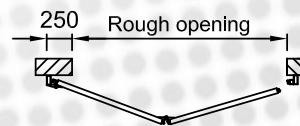
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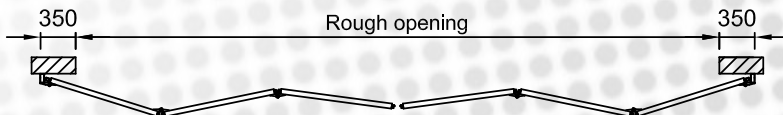
Mod. HINGE 3+2



Mod. HINGE 2+0



Mod. HINGE 3+3





Visual lights with safety glass 5+5 Visarm and sealing in EPDM gasket

500 X 500
500 X 700
500 X 1000
600 X 1200
700 X 700
700 X 1000

Visual lights with aluminium frame and 5+5 Visarm glass or double-glass. Various finishing.

500 X 500
500 X 700
500 X 1000
600 X 1200
700 X 700
700 X 1000

O P T I O N A L

- Pedestrian door with or without threshold (wicket door)
- Fixed panels
- External tower bolt with lock and lever
- Louvred panel
- Guide for 180° opening
- Tubular beam
- Stainless steel finishing
- Available colors in pre-painted metal sheet:
Grey/White RAL 9016, White RAL 9010, Dark Grey RAL 7016, Silvery Grey RAL 7001, Grey Aluminium RAL 9007, White Aluminium RAL 9006, White/Grey RAL 9002, Brown RAL 8028, Dark Brown RAL 8019, Green RAL 6002, Green RAL 6005, Blue RAL 5010, Blue RAL 5009, Red RAL 3000, Ruby Red RAL 3003, Yellow RAL 1021.
- Possible RAL painting
- Automation (motor)

Machinery directive compliance 98/37/CE
Directive for low voltage tools compliance 73/23/CEE
Electromagnetic compatibility directive compliance 89/336/CEE
EN 12445, safe use for motorised door. Test.
EN 12453, safe use for motorised door. Requirements.

