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<th>Elite blind doors</th>
<th>Glazed doors</th>
<th>Sliding doors Magnum door Vertical sliding door</th>
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<td>“StahlGlass” REI 30-60 e RE 120</td>
<td>“Sliding” REI 120</td>
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<td>One leaf glazed door</td>
<td>One leaf sliding door</td>
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<td>Two leaves glazed door</td>
<td>Two leaves sliding door</td>
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<td>Complex glazed doors</td>
<td>Two leaves one side sliding door</td>
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<td>One leaf door</td>
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<td>Accessories</td>
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<td>Two leaves glazed door</td>
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<td>“Elite” - AA acoustic door</td>
<td>Complex glazed doors</td>
<td></td>
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<tr>
<td>One leaf door</td>
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<tr>
<td>Two leaves door</td>
<td>34</td>
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</tr>
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<td></td>
<td>Complex glazed doors</td>
<td>Mounting behind the opening</td>
</tr>
<tr>
<td>Standard equipment</td>
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<td>Accessories</td>
<td></td>
<td>Mounting in the opening</td>
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<td>Mounting system</td>
<td></td>
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</tr>
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<td>« H » system</td>
<td>“AluStahl” REI 120</td>
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</tr>
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<td></td>
<td>One leaf glazed door</td>
<td>Orders Form</td>
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<td></td>
<td>Two leaves glazed door</td>
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<td>Complex glazed doors</td>
<td></td>
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<td>“Fixglass” Rei 90 - Rei 120</td>
<td>Standard equipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accessories</td>
<td>44</td>
</tr>
</tbody>
</table>

### GLOSSARY

| LM / LFM | Wall size width or inside pre frame |
| HP | Height passage |
| HT | External frame height |
| LP | Width passage |
| LT | External frame width |
| HM | Wall height |
| HI | Max frame height |
| LI | Max frame width |
| LNP | Light net passage |
| LF | Structural wall width |
| HF | Structural wall height |
| HNV | Net height glass |
| LNV | Net light glass |
| LM X HM | STRUCTURAL WALL SIZE OR ORDER SIZE |
| LT X HT | EXTERNAL FRAME SIZE |
| LN X HN | NOMINAL SIZE |
| LP X HP | LIGHT PASSAGE SIZE |

### OPENING SYSTEM:
The opening side for Sliding door is determined from the guide side (inside view).

The opening side for leaf door is considered by pushing the door.
Fireproof door Elite, Metal, REI 60, REI 120 constituted by:

- Frame in galvanized steel, thickness mm. 15/10 “Z” profiled, conforming to allow coplanarity of leaf-frame, with room for insertion of intumescent strip, prearranged with steel strips for mounting on wall angles or holes for fixing on concrete. The connection between frame and corners occurs through an unique system of joint, that first of all ensures excellent rigidity, then it avoid usual corrosion of welding.
- Leaf composed by double layer galvanized steel mm. 9/10, press-formed, welded, with high density insulating paper inside, protected in lock zone with two layers of calcium sulphate based material.
- No. 2 hinges each leaf, made in aluminized steel, with sliding on two steel roller bearings, ensured for intensive usage in condition of heavy loads. Their construction allows the adjusting of the leaf position in every moment by means of special screws, normally hidden by plastic caps.
- Fireproof lock type “flush button” on secondary leaf
- Black arm selector closing (metal door excluded).
- Fireproof lock type “Patent” with cylinder and three keys
- PVC blind handle with inside steel armature, “U” shaped for accidental grips.
- Thermo-expanding gasket around perimeter of the door (only for REI doors, Metal excluded).
- Superb finishing with powder colour RAL 1005 (brushed).
- The particular construction of the door permits a perfect alignment between leaf and frame, furthermore 19 mm. thick rebated minimises accident risks in case of contact with person.
- Standard handle height is mm. 950 from the floor, different height on request.
- Certification range covers all ordinary type of fixing by mounting the door in case of metal pre-frame carbon gypsum and dowels on concrete.
- Unless different agreements, door is equipped with following accessories: elements for attachment, fixing and filling for frame compartment (mechanical dowels + strips, clamps, self-tapping screws + strips, screws + strips for plasterboard etc).

**STANDARD DOOR H= 2050**

<table>
<thead>
<tr>
<th>STRUCTURAL WALL SIZE</th>
<th>ORDER SIZE (LM x HM)</th>
<th>EXTERNAL FRAME (LT x HT)</th>
<th>NOMINAL SIZE (LN x WN)</th>
<th>LIGHT PASSAGE CLEAR WIDTH (LP x WP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 x 2100</td>
<td>745 x 2045</td>
<td>720 x 2013</td>
<td>650 x 2013</td>
<td></td>
</tr>
<tr>
<td>900 x 2200</td>
<td>910 x 2045</td>
<td>780 x 2013</td>
<td>650 x 2013</td>
<td></td>
</tr>
<tr>
<td>1000 x 2200</td>
<td>910 x 2045</td>
<td>820 x 2013</td>
<td>650 x 2013</td>
<td></td>
</tr>
<tr>
<td>1200 x 2200</td>
<td>1290 x 2045</td>
<td>1170 x 2012</td>
<td>1160 x 2012</td>
<td></td>
</tr>
<tr>
<td>1200 x 2300</td>
<td>1390 x 2045</td>
<td>1270 x 2013</td>
<td>1160 x 2012</td>
<td></td>
</tr>
</tbody>
</table>

**STANDARD DOOR H= 2150**

<table>
<thead>
<tr>
<th>STRUCTURAL WALL SIZE</th>
<th>ORDER SIZE (LM x HM)</th>
<th>EXTERNAL FRAME (LT x HT)</th>
<th>NOMINAL SIZE (LN x WN)</th>
<th>LIGHT PASSAGE CLEAR WIDTH (LP x WP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 x 2150</td>
<td>745 x 2145</td>
<td>726 x 2113</td>
<td>690 x 2113</td>
<td></td>
</tr>
<tr>
<td>900 x 2150</td>
<td>895 x 2145</td>
<td>826 x 2113</td>
<td>760 x 2113</td>
<td></td>
</tr>
<tr>
<td>1000 x 2150</td>
<td>995 x 2145</td>
<td>905 x 2113</td>
<td>800 x 2113</td>
<td></td>
</tr>
<tr>
<td>1250 x 2150</td>
<td>1290 x 2145</td>
<td>1176 x 2113</td>
<td>1148 x 2113</td>
<td></td>
</tr>
<tr>
<td>1350 x 2150</td>
<td>1390 x 2145</td>
<td>1270 x 2113</td>
<td>1248 x 2113</td>
<td></td>
</tr>
</tbody>
</table>

*As specified in the Technical Manual. Numbers - no dimensions. Standard door is not as specified. Recommend using the order code. The sizes are expressed in mm.*
Fireproof door Elite, Metal, REI 60, REI 90, REI 120 constituted by:

- Frame in galvanized steel, thickness mm. 15/19 "Z" profiled, conforming to allow a closeness of leaf-frame, with room for insertion of intumescent strip, pre-engraved with steel strips for mounting on wall angles or holes for fixing on concrete.

- The connection between frame and core is made through an unique system of joint, that first of all ensure excellent rigidity, then, to avoid usual corrosion of welding.

- Ec 2 hinges each leaf, made in stainless steel, with sliding on two steel roller bearings, oversized for intensive usage in condition of heavy loads. Their construction allows the adjusting of the leaf position in every moment by means of special screws, normally hidden by plastic caps.

- Self-closing mechanism by means of springs contained in the hinges, adjustable and invisible outside.

- Fixed struts placed between the hinges.

- Fireproof lock type "Patent" with cylinder and three keys.

- Fireproof lock type "Lash bolt" on secondary leaf.

- Black arm closing selector (metal door excluded).

- Broclette selection di chiavette colorate senza scrivania su porte Metal Elite.

- PVC black handle with inside steel armour, "U" shaped for accidental grips.

- Thermally-expanding gasket around perimeter of the door (only for REI doors, Metal excluded).

- Supraplastic finishing with powder colour RAL 1035 (brushed).

- The particular construction of the door permits a perfect adjustment between leaf and frame, furthermore 19 mm thick rebated minimizes accidental risks in case of contact with person. Standard handle height is mm. 950 from the floor, different height on request.

- Certification range covers all ordinary type of fixing by mounting the door in case of metal pre-frame, carton gypsym and dowels on concrete.

- Unless different agreements, door is equipped with following accessories: elements for attachment, fixing and filling for frame compartment (mechanical dowels + strips, clamps, self-locking screws + strips, screws + strips for plasterboard kit).

- As specified in the Italian law, fixed frames are reversible, standard doors are not reversible. We need the opening side. Pictures are different sides.
ELITE Door with glazing

- On request it’s possible to mount a rectangular or circular glazing window on the leaf.
- The glasses are tested to be fire proof, composed by multiple stratum of float glass and special transparent gel which, subjected to the action of the flame develops an opaque insulating foam.
- Glasses are fixed by metal profiles clipped on hidden screws, rubber gasket which avoid the growth of the glass at high temperature.
- We provide standard and, on request, special sizes.

**NOTE:**
- For frequent usage and in case of glass bigger than mm. 300 x 400 we recommend the door closer.
- We deliver door with glass pre-mounted.
- Fire glass deteriorates if exposed to direct sunlight or in contact with water.
- Glass could have micro bubbles, which are not questionable if invisible at more than 3 meters.

**STANDARD GLAZING**

<table>
<thead>
<tr>
<th>GLAZING MIDDLE SIZE (HO)</th>
<th>GLAZING SIZE (B min. + H max.)</th>
<th>NET LIGHT GLAZING SIZE (LNV x HNV)</th>
<th>EXTERNAL PROFILE SIZE (LF x HF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>300 x 400</td>
<td>270 x 370</td>
<td>250 x 450</td>
</tr>
<tr>
<td>1400</td>
<td>400 x 400</td>
<td>370 x 570</td>
<td>490 x 710</td>
</tr>
<tr>
<td>1600</td>
<td>303 D</td>
<td>210 D</td>
<td>350 D</td>
</tr>
<tr>
<td>1500</td>
<td>503 D</td>
<td>470 D</td>
<td>550 D</td>
</tr>
</tbody>
</table>

*ATTN: sizes are expressed in mm*
**ELITE With laminate covering**

**Blind leaf door with laminate covering, consisted by:**
- Frame in galvanized steel, thickness mm. 10/10 “2” profiled, conformed to allow coplanarity of leaf-frame, with room for insertion of intermittent strip, pressmoulded with steel strips for mounting on wall angles or holes for fixing on concrete.
- The connection between frame and corners occur through an unique system of joint, that first of all ensure excellent rigidity, than it avoid usual corrosion of welding.
- Leaf composed by double layer galvanized steel mm. 10/10, pressformed and varnished, and laminate covering with finishing as indicated in laminate covering list, finishing perimeter profile.
- Frame and finishing profile with powder colour RAL 8017.
- High density insulating package inside the leaf.
- 2 hinges each leaf, made in sintesized steel, with sliding on two steel roller bearings, oversized for intrusive usage in condition of heavy loads. Their construction allows the adjusting of the leaf position in every moment by means of special screws, normally hidden by plastic cups.
- Headrest placed between the hinges.
- Fireproof lock type “Purse” with cylinder and three keys.
- Fire proof lock type “Flush bolt” on scannary leaf.
- Black arm closing selector (Metal door excluded).
- PVC black handle inside steel armour, “U” shaped for accidental grips.

**NOTE:**
- Consider only special sizes doors.
- No window glazing inside.
- In accordance to UNI EN 1634, the laminate covering can be applied on R86 H6 and R86 120 doors.

---

**SEE THE GLOSSARY ON FIRST PAGE FOR SIZES’ ACRONYMS**
ELITE Acoustic door

CERTIFICATIONS FOR ACOUSTIC DOOR

NOTE:
Available only RAL 120, special size.
Fixing should be done with careful sealing of any remaining space between masonry and frame.
The acoustic measurement must include an overall analysis of the environment in order to value sound transmission. The inclusion of windows is not recommended.
Values of insulation above 41 dB are achievable with “Scudo” (door).
Acoustic door Elite need to install a 100mm stainless steel floor threshold.
SCUDO One leaf door with wood covering REI 120

- Door realized with the same technical constructive features of Elite door (pages 2-3-4-5).
- Leaf-covering made from solid wood or panigraphed component, in different essences and finishes. Fixed on the border by a bented steel profile painted in RAL 9016 or combined with the wood covering chosen.
- Frame and wall covering profile are also coated on request.
- The coatings are made with materials with aqueous base and protective impregnates. These products guarantee long endurance and easy maintenance.
- Standard handle height is mm. 980 from the floor, different height on request.
- Unless different agreements, door is equipped with following accessories: elements for attachment, fixing and fitting for frame compartment (mechanical dowels + strips, clamps, self-tapping screws + strips, screws + strips for plasterboard kit).

Attn: It's not possible to install NovoPush handle.
SCUDO Two leaves door with wood covering REI 120

Frame and wall covering

Frame with covering

Frame without covering

Cassette raised panel

Ribs

Eco

LP / LNP variable according to coatings thickness

sec. A

sec. A

sec. B

sec. B

LM

LT

LP

HM

HT

HP

LNM

900 mm

www.novoferm.it

SEE THE GLOSSARY ON FIRST PAGE FOR SIZES' ACRONYMS
### ELITE Standard equipment

**Hinge**

**Hinge Eco with 3 sections**

<table>
<thead>
<tr>
<th>Colour</th>
<th>Handle</th>
<th>Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>series</td>
<td>yes</td>
<td>Black</td>
</tr>
<tr>
<td>on request</td>
<td>yes</td>
<td>White - Ral 9010</td>
</tr>
<tr>
<td></td>
<td>yes</td>
<td>Red - Ral 3003</td>
</tr>
<tr>
<td></td>
<td>yes</td>
<td>Blue - Ral 5011/5013</td>
</tr>
<tr>
<td></td>
<td>yes</td>
<td>Brown - Ral 8022</td>
</tr>
<tr>
<td></td>
<td>yes</td>
<td>Grey - RAL 7030/7038</td>
</tr>
<tr>
<td>Inox</td>
<td></td>
<td>Ral 9006</td>
</tr>
</tbody>
</table>

### Nylon handle with plate

Black handle with "U" shape, antigrip. Cylinder with 3 keys.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Handle</th>
<th>Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>series</td>
<td>yes</td>
<td>Black</td>
</tr>
<tr>
<td>on request</td>
<td>yes</td>
<td>White - Ral 9010</td>
</tr>
<tr>
<td></td>
<td>yes</td>
<td>Red - Ral 3003</td>
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<tr>
<td></td>
<td>yes</td>
<td>Blue - Ral 5011/5013</td>
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<td></td>
<td>yes</td>
<td>Brown - Ral 8022</td>
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<td></td>
<td>yes</td>
<td>Grey - RAL 7030/7038</td>
</tr>
<tr>
<td>Inox</td>
<td></td>
<td>Ral 9006</td>
</tr>
</tbody>
</table>

### Arm closing selector

For REI 60 - REI 120

Colour available:
- Black
- Grey

### Cylinder

with 3 keys

### Fixed knob

(on request)
Access Control

The access control is made with three different instruments:
1. Electric handle: possible also on later fitting.
2. Electric lock: quite invisible, mounted on single and double leaf door.
3. Electric strike: possible only on single leaf door.
4. Magnet with high power

Mounting of electric handle in combination to a lock driven from inside by a panic device.

Electromagnets

Electromagnet on leaves composed by external box (white colour) and switch bottom on the top at it.

Technical details:
- Voltage: 24 V
- Power: 1.5 W
- Adhesion power: 600 N (80 kg)
- Insertion time: 100%.
- Working temperature: -20 to +60°C
- Protection: IP 49 (DIN 40050)

Door closer

It works through a spring in oil mounted on the mobile leaf. The oil permits a soft closing of the door. The door closer is composed of a double system of speed regulation:
- When door opens more than 90°, the door closer is activated by the scissor action arm or slide action arm. Covered by a black box.

Panic devices

All panic devices work by a mechanism inside the leaf which permits to open the door after pushing on the secondary leaf only. In case of Scudo doors, it must be checked the working of the panic devices in case of double leaf door of modest width.

NovoGuard

The NovoGuard panic device certified UNI EN 1125, with CE mark, working on inside lock. Reversible, compact entrance mm. 79 and equipped by aluminium bar with an evidentiary green central plastic strip which highlights the way of escape (patented). Equipped by a rotation device with lever working on pillow blocks with a minimum working stress (patented). Available in different lengths, simply to shorten, absence of holes and cracks in any position, resistant to corrosion of salt fog. Available with different finishing, with cylinder and handle outside.
ELITE Mounting system REI 60 - 90 - 120

1. By wall angles

2. By anchor bolts

3. By counter frame

4. By wooden counter frame

5. Door mounted on gypsum wall (type K2)

6. Door mounted in the opening (type L)
ELITE Mounting system REI 120

7. Door mounted on gypsum wall (type K2)

8. Door mounted in the opening (type L)

Structure “H” type K2
For mounting door on gypsum wall
Fireproof glazed door one leaf according to norm UNI 9723

- Frame and leaf frame manufactured in tubular profile 15/10 mm, calibrated, welded on angles, with double spaces to insert rubber gasket. The particular construction of the door permits a perfect alignment between leaf and frame. Tubular profiles are filled with a sealing substance and have a particular drilling on the inside side in order to limit the thermal conduction. Thermo-expanding gasket on the perimeter.

- Glasses are composed by several stratum of float glass and special clear gel that, in case of fire, becomes blind and gives out refreshing steam. Glasses are fixed by metal profiles clipped on hidden screws.

- n. 2 hinges each leaf, manufactured in sintered steel sliding on two steel roller bearings, oversized for intensive usage in condition of heavy loads. Their construction allows the adjusting of the leaf position in every moment by means of special screws, normally hidden by plastic caps.

- Block handle with inside steel armour.

- Door closer color black.

- Lock on the active leaf complete of cylinder with three keys

- Painted in RAL colours (brushed) to choose from a list of available colours. Or request with aluminium caving.

- Installation possible on tubular or prefabricated already installed on customer care, or by dowel.

- Approx. Weight REI 30 = 60 kg/m², REI 60 = 90 kg/m², REI 120 = 125 kg/m².
Fire proof glazed door two leaves according to norm UNI 9723

- Frame and leaf frame manufactured in tubular profile 15/10 mm, calibrated, welded on angles, with double spaces to insert rubber gasket. The particular construction of the door permits a perfect alignment between leaf and frame. Tubular profiles are filled with a statically substance and have a particular drilling on the hidden side in order to limit the thermal conduction. Thermo-expanding gasket on the perimeter.
- Glasses are composed by several stratum of float glass and special clear gel that, in case of fire, becomes blind and gives out refreshing steam. Glasses are fixed by metal profiles clipped on hidden screws.

- 2 hinges each leaf, manufactured in sintered steel sliding on two steel roller bearings, oversized for intensive usage in condition of heavy loads. Their construction allows the adjusting of the leaf position in every moment by means of special screws, normally hidden by plastic cups.
- Black handle with inside steel armour.
- Door closer color black.
- Lock on the active leaf complete of cylinder with three keys.
- Painting in RAL colours (brushed) to choose from a list of available colours. Or request with aluminium cavering.
- Installation possible on tubular preframe already installed on customer care, or by dowels.
- Approx. Weight REI 30 = 40 kg/m²
  REI 60 = 60 kg/m², RE 120 = 12.50 kg/m².
STAHLGLASS Complex glazed door REI 30 - REI 60 - RE 120

Mounting with internal rebate type "I".

Mounting with block frame type "L".

Mounting with external rebate type "J".
For aesthetic and practical reasons, the fireproof division of particular areas need to be fireproof glazed partition, not only to assure fire, but also to control the transmission of light. In some cases, these glazing partitions are usually employed: normally they are installed in spaces such as bridges of observation in units to high fire risk, offices with sight on working units, etc.

- Frame and leaf frame manufactured in tubular profile 15/15 mm, galvanized and electro-welded steel. The profiles are filled with a special insulating material and they are characterized by a special processing from the side of the depth in order to avoid the thermic conduction.
- Glass is composed by several strata of float glass and special clear gel that, in case of fire, becomes blind and gives out refreshing steam. Glasses are fixed by metal profiles, equipped with special gaskets which permit the swelling of the glass at high temperature.
- Installation possible by wall angles, on tubular preframe already installed on customer care, or by dowels.
- Painting in RAL colours (brushed) to choose from a list of available colours. On request with aluminium covering.
- Installation possible by wall angles, on tubular preframe already installed on customer care, or by dowels.
NOVOGLASS One leaf glazed door REI 30 – REI 60 – REI 90 – REI 120

- Perimeter frame in "Z" shaped galvanised steel profile th. mm. 15/10. conformed to give constancy between leaf and frame. It has spaces for the insertion of thermal-expanding gasket. Holes for wall fixing hidden after the assembly at site.
- Leaf made by one perimeter structure in steel, with supporting section, realised by double galvanised steel sheet bended, boxed, welded, with inner murganic insulating package. Leaf profile has a special working on the thickness from the side of glasses (envisage after the assembly at site) in order to limit the thermal conduction between the two faces.
- Strengthened glasses, comprised by different stratum of glass sheets interposed with silicate-based gel that, normally clear, in fire becomes opaque and emits steam. Glasses are fixed by sturdy stoppers, with no screws on sight.
- Nr 2 hinges each leaf, made in sinterized steel, with sliding on two steel roller bearings, ensured for intensive usage in condition of heavy loads. Their construction allows the adjusting of the leaf position in every moment by means of special screws, normally hidden by plastic caps.
- Black handle with inside steel armour
- Door closer color black
- Lock with the active leaf complete of cylinder with three keys
- Thermo-expanding gasket, rostrum between the two hinges
- Porthole on request
- Painting in RAL colours (brushed) to choose from a list of available colours
- Painting in RAL colours (brushed) to choose from a list of available colours.

The particular construction of the door permits a perfect alignment between leaf and frame: furthermore 10 mm. thick rebate minimizes accident risks in case of contact with person.
NOVOGLASS Two leaves glazed door REI 30 – REI 60 – REI 90 – REI 120

NOVOGLASS Fire resistant glazed door according to Italian rule UNI 9723

- Perimeter frame in “Z” shaped galvanised steel profile th. mm. 15/10, conforming to give compliancy between leaf and frame. It has spaces for the insertion of thermal-expanding gasket. Holes for wall fixing hidden after the assembly at site.
- Leaf made by one perimeter structure in steel, with supporting section, realised by double galvanised steel sheet bented, bowed, welded, with inner inorganic insulating package. Leaf profile has a special working on the thickness from the side of glasses (visible after the assembly at site) in order to limit the thermal conduction between the two faces.
- Stratified glasses, composed by different stratum of glass sheets interposed with silicate-based gel that, normally clear, in fire becomes opaque and emits steam. Glasses are fixed by sturdy stoppers, with no screws on sight.

- Nr. 2 hinges each leaf, made in sinterized steel, with sliding on two steel roller bearings, oversized for intensive usage in condition of heavy loads. Their construction allows the adjusting of the leaf position in every moment by means of special screws, normally hidden by plastic cups.
- Black handle with inside steel armour
- Door closer color black
- Lock on the active leaf complete of cylinder with three keys
- Lock on the passive leaf type flush-lock with lever opening.
- Thermal-expanding gasket, rostrum between the two hinges;
- Preframe on request
- Painting in RAL colours (brushed) to choose from a list of available colours…
- The particular construction of the door permits a perfect alignment between leaf and frame, furthermore 15 mm. thick rebate minimizes accident risks in case of contact with person.
NOVOGLASS Complex glazed door REI 30 – REI 60
(also without horizontal beam)
ALUSTAHL One leaf glazed door REI 120

Fire proof glazed door ALUSTAHL one leaf certified according to Italian rule UNI 9723.

- Frame and leaf frame manufactured in tubular profile 30/10 mm. cold-rolled steel, with double spaces for insert rubber gasket and insulating strip. Tubular profiles are filled with a filling substance and have a particular drilling on the hidden side in order to limit the thermal conduction between the two leaf's sides. Everything covered by aluminium profiles electro-coloured or painted. The particular construction of the door permits a perfect alignment between leaf and frame, without any rise on the hinges.
- Glasses are composed by several layers of float glass and special clear gel that, in case of fire, becomes blind and gives out refreshing steam. Glasses are fixed by metal profiles clipped on hidden screws.
- N.2 hinges each leaf in sinterized steel sliding on two steel roller bearings, oversize for intensive usage in condition of heavy loads.
- Fire proof lock, cylinder with three keys.
- Door closer black colour.
- Thermo-expanding gasket around perimeter of the door.
- Handle with steel armour inside.
- Painting in RAL colours (brushed) to choose from a list of available colours.
- Installation on pre-frame already installed from the customer.

NOTE:
- due to the high weight of the glass (approx. 150 kg/m2) and its concentration on limited surface, we suggest to verify carefully the structure of wall before installation.
Fire proof glazed door ALUSTAHL two leaves certified according to Italian rule UNI 9723.

- Frame and leaf frame manufactured in tubular profile 30/10 mm, cold-rolled steel, with double spaces for insert rubber gasket and intumescent strip. Tubular profiles are filled with a swelling substance and have a particular drilling on the hidden side in order to limit the thermal conduction between the two leaf’s sides. Everything covered by aluminium profiles electro-coloured or painted.
- The particular construction of the door permits a perfect alignment between leaf and frame, without any rest on the hinges.
- Glasses are composed by several stenures of float glass and special clear gel that, in case of fire, becomes blind and gives out refreshing steam.
- Glasses are fixed by metal profiles clipped on hidden screws.
- 12 hinges each leaf in sintetrized steel sliding on two steel roller bearings, oversized for intensive usage in condition of heavy loads.
- Fire proof lock, cylinder with three keys.
- Thermo-expanding gasket around perimeter of the door.
- Handle with steel Armour inside.
- Painting in RAL colours (brushed) to choose from a list of available colours.
- Installation on pre-frame already installed from the customer.

NOTE:

- Due to the high weight of the glass (approx. 150 kg/m2) and its concentration on limited surface, we suggest to verify carefully the structure of wall before installation.

NOTE: in case of passive leaf with panic device, you must use it only with active leaf already opened. A different usage can cause a malfunctioning.
ALUSTHAL Complex glazed door REI 120
**FIXGLASS - ALUSTAHL**

**Fixed glass REI 120**

**MAX SIZE FOR EACH GLASS MM. 2100 X 1100.**
**IN CASE OF BIGGER SIZE, THE FIXED PARTITION MUST BE DIVIDED**

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**Standard equipment**

- **Hinges for Stahlglass / Alustahl doors**
- **Hinges for Elite / Novoglass doors**

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**Handle with plate for Novoglass**

- Nice design and U shape.
- Cylinder with three keys as standard equipment.
- Standard black colour
- On request stainless steel.

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**Handle with rosette for Stahlglass / Alustahl**

- Standard black colour
- On request stainless steel.

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For aesthetical and practical reasons, the fire proof division of particular areas need to be fire proof glazed partition, not only to assure fire, but also to conceal the transmission of light. In these cases the glazed partitions are usually employed, normally they are installed on spaces scale, footbridges of observation units to high fire risk, offices with sight on working units, etc.

- Leaf frame manufactured as tubular profile 30/10 mm. Covered on both sides with sheets of silicate, fixed to the tubular by steel plates. Everything covered by aluminium profiles electro-coloured or painted for Alustahl or by steel painted profiles for Fixglas.

- Glasses are composed by several stratum of float glass and special clear gel that, in case of fire, becomes blind and gives out refreshing steam. Glasses are fixed by metal profiles covered by aluminium, equipped with special gaskets which prevent the swelling of the glass at high temperature.
- Thermo-expanding gaskets mounted on the fixed frame.
Standard equipment

Arm closing selector for Stahlglas / Alustahl (excluded Novoglass)

In case of coincident opening of the two leaves, it guarantees the correct order of closing.
Standard on double leaves door
Available colors:
- Black
- Silver

Accessories for glazed doors

Electromagnets
Electromagnet on leaves composed by external box (white colour) and switch bottom on the top of it.

Accessories for glazed doors

Panic devices
All panic devices work by a mechanism inside the leaf which permits to open the door also pushing on the secondary leaf only.

Accessories for glazed doors

Panic devices Push type B

Door closer for double leaf door with arm closing selector included. mod. DORMA TS 50 GSR

NovoGuard
The NovoGuard panic device certified UNI EN 1125, has the less operating space in the market.
MMA 74

NovoGuard according to European Norm UNI EN 1125, with CE mark, working on inside lock. Reversible, compact concentricity mm. 76 and equipped by aluminium bar with an incidence green central plastic strip which highlights the way of escape (patented). Equipped by a rotation device with lever working on pillow blocks with a minimum working stress (patented). Available in different lengths, simply to shorten, absence of holes and cracks in any position, resistant to corrosion of salt fog. Available with different finishing, with cylinder and handle outside.

Technical details:
- Voltage: 24 V
- Power: 1.5 W
- Insulation class: IEC 100%
- Protection: IP 40 DIN 40050

CISA
Cisa prestige stainless steel (A2)
Encore feature 100 mm

CISA red bar (A2)
Encore feature 100 mm

cordino
aluminium bar (A1)
Encore feature 10 mm

Touch Bar Cisa (B3)
Encore feature 12 mm

Novopush similar to stainless steel (B1)
Encore feature 12 mm

Novopush Black (B2)
Encore feature 12 mm

MMA MAIN LEAF SECONDARY LEAF PANIC DEVICE FOR PASSIVE LEAF
MMA MAIN LEAF SECONDARY LEAF PANIC DEVICE FOR PASSIVE LEAF
MMA MAIN LEAF SECONDARY LEAF PANIC DEVICE FOR PASSIVE LEAF

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**SLIDING One leaf sliding REI 120**

- Modular panels realised in galvanised, prepainted and welded sheet of steel, with high density insulating package inside.
- Upper strike beam equipped with guide and counterweight, which ensures closure in case of fire.
- Smoke and flame labyrinth on the perimeter of the leaf.
- Upper hoisting rail, low friction, complete of special supports to mount on architecture reinforced concrete, metallic cover inspectable.
- Thermo-expanding gasket all around the door.
- Fixed handles for the opening.
- The sliding door has no floor guides, the alignment is maintained by a bottom wheel not visible. The sliding is smooth thanks to wheels with curve, mounted on double bearing.

**Special Condition**

- **Walled up stirrups**
- **Beam for support**

![Diagram of installation on walls with a low mechanical strength]

**ATN. For installation on flat ceiling or for sliding door with low height/width ratio, please contact company**

**Gypsum cover at the customer's expense**

**Flat strike / Counterweight**

**Standard strike**
SLIDING Two leaves sliding REI 120

Special Condition

Walled up stirrups

Installation on walls with a low mechanical strength

Beam for support

ATN. For installation on flat ceiling or for sliding door with low height/width ratio, please contact company

Gypsum cover at the customer’s expense (*)

Counterweight

WITH SAME LEAVES

WITH DIFFERENT LEAVES

sec.BB

- Modular panels realised in galvanised, pre-painted and welded sheet of steel, with high density insulating package inside.
- Upper strike beam equipped with guide and counterweight, which ensures closure in case of fire.
- Smoke and flame-labyrinth on the perimeter of the leaf.
- Upper housing rail, low friction, complete of special supports to mount on architrave in reinforced concrete, metallic cover inspacting.
- Thermo-expanding gasket all around the door.
- Fixed handles for the opening.
- The sliding door has no floor guide, the alignment is maintained by a bottom wheel not visible. The sliding is smooth thanks to wheels with curve, mounted on double bearing.

- The particular construction method allows easy inspection of all mechanism.
- The doors are normally equipped with self-closing device through counterweight, driven by a thermal fuse fixed at 68 °C.
- Superficial finish with primer colour RAL 7035 (brushed).
- The door is equipped with a final or continuous shock absorber according necessity.

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(*) SIZES FOR DOOR WITH W/H:L/M. IN CASE W/L:M, ENQUIRANCE OF COUNTERWEIGHT COMPARTMENT CAN REACH W/M:L

www.novoferm.it
SLIDING Two leaves sliding one side REI 120

- Modular panels realised in galvanised, prepainted and welded sheet of steel, with high density insulating package inside.
- Upper strike beam equipped with guide and counterweight, which ensures closure in case of fire.
- Smoke and flame labyrinth on the perimeter of the leaf.
- Upper flanging rail, low friction, complete of special supports to mount on architrave in reinforced concrete, metallic ceiling inspectable.
- Thermo-expanding gasket all around the door.
- Fixed handles for the opening.

- The sliding door has no floor guide, the alignment is maintained by a bottom wheel not visible. The sliding is smooth thanks to wheels with curve, mounted on double bearing.
- The particular construction method allows easy inspection of all mechanism.
- The doors are normally equipped with self-closing device through counterweight, driven by a thermal fuse rated at 68 °C.
- Superficial finish with primer colour RAL 9010 (brushed).
- The door is equipped with a final or continuous shock absorber according necessity.

2 Leaves one side

2+2 Leaves two sides
A pass door REI 120 can be installed into a sliding door REI 120. On request we can supply the pass door with panic device, upper door closer and window.

ATTN.: It’s not possible to install the pass door in the first or last panel of the sliding door.
SLIDING Working scheme

1. 1. With electromagnet

2. 2. With thermal fuse set

Motorization:
composed by a motor-gear triggered by electromagnet connected to the fire protection system, that in case of fire releases out of gear the door which close by counterweights. Suitable for areas with heavy traffic, opening is possible through remote control – Radar – fast pressure mat.

Using the control panel you can manage some functions: delay in opening and closing, opening speed, security systems such as photo cells, flashing.

The doors can be equipped with various accessories that improve functionality and safety. On request self-closing device can be constituted by an electromagnet managed by electronic sensor. This will increase drastically the sensibility and the time of reaction in case of fire.

Standard accessories
Final shock absorber
Continuous oil-hydraulic shock absorber
Continuous magnetic induction shock absorber

Electromagnet without emergency push button
Fixed plate
Manual emergency push button

1 Motor
2 Final shock absorber
3 Cable connection
4 Spring for automatic cable tension adjustment
5 Cable tensioner
6 Traction cable
7 Pulley
8 Control panel
9 Open and close button
10 Alarm button
11 Photoelectric cell
12 Mirror cell
13 Smoke releaser
14 Final strike contact
15 Horn
MAGNUM Big size door REI 120 «on the wall»

- MAGNUM door with one or two leaves.
- Modular panels in vertical elements (to mount on site) thickness mm.80, constituted by sheet 8/10 with high density insulated package inside.
- Frame in tubular steel 80x50, suitable for installing on the wall.
- Thermo-expanding gasket all around the door.
- Closing system by means of upper aerial pump and/or counterweight in case of big dimensions.

- Hinges with bearing, adjustable.
- Arm closing selector (included in double leaf door).
- Fire proof lock and cylinder with three keys.
- Lock type "flush-bolt" on secondary leaf.
- Black PVC handle.
- Superficial finish with primer colour RAL 7035 (brushed).

ATTN: it’s not possible to install novopush handle

Two leaves
LP = LFM - 154
LNP with panic device A = LFM - 364
LNP with push bar B = LFM - 300
MAGNUM  Big size door REI 120 «on block frame»
(in the opening)

- MAGNUM door with one or two leaves.
- Modular panels in vertical elements (to mount on site) thickness mm.80, constituted by sheet mm.1/10 with high density insulated packaging inside.
- Frame in tubular steel 60x60, suitable for installing in the opening.
- Thermo-expanding gasket all around the door.
- Closing system by means of upper aerial pump and/or counterweight in case of big dimensions.
- Hinges with bearing, adjustable.
- Arm closing selector (included in double leaf door).
- Fire proof lock and cylinder with three keys.
- Lock type »flush-bolt« on secondary leaf.
- Black PVC handle.
- Superficial finish with primer colour RAL 7035 (brushed).

Two leaves
LP = LFM - 154
LNP with panic device A = LFM - 264
LNP with push bar B = LFM - 300

One leaf
LP = LT - 277
LNP with panic device A = LT - 377
LNP with push bar B = LT - 350
**Vertical sliding door REI 120**

- Movable panels realised in galvanised, prepointed and welded sheet of steel, with high density insulating package inside.
- Slide guides and upper traverse box shielded, complete of sliding guide, counterbalance, flame labyrinth, wheels on bearings in order to assure the smooth sliding.
- The automatic closing device (inside the strike jamb) is composed by a weight controlled by a thermostatic.

- The door is equipped with a final shock absorber.
- Thermo-expanding gasket all around the door.
- Superficial finish with primer colour RAL 7035 (brushed).
- Possibility to connect to detection and control fire system by electromagnet.