Forster thermfix vario fire-protection: the comprehensive programme for self-supporting fire-resistant constructions made from mullion/transom profiles, universally suitable for use as vertical elements (façades), as well as inner and outer partition walls in fire-resistant categories 60 / 90 and 120 minutes.

Decisive advantages

High degree of aesthetic appeal
• Thanks to extremely slender visible sidelight of 1 - 3/4” (45mm) or 2 - 3/8” (60mm) – and individual profile design and surface treatment.

Performance
• Impressive element sizes for generous appearance and transparency over a large area.
• Can be used over several storeys up to a height of 16’ 5” (5000 mm)

Safety and protection
• Listed and labeled by Underwriters Laboratories, Inc. ® and Underwriters Laboratories of Canada. File number for labeled 60/120 minute fire-rated assemblies is R-16641 Design Number US37. Frame tests performed in accordance with ASTM E-119, NFPA 251, UL 263, UL 9, UL 10C, UBC 7-2, UBC 7-4.

Creativity
• Perfectly harmonising components ensure extraordinary potential for freedom of design.
• Also in combination with Forster fuego fire-resistant doors
• Trouble-free assembly using mechanical T-joints.

You can obtain further information about specific approvals from Vetrotech Saint-Gobain NA
www.vetrotechusa.com

Steel

60 / 90 and 120 minutes

<table>
<thead>
<tr>
<th>Rating</th>
<th>Max. Exposed Glass Area Per Piece</th>
<th>Max. Exposed Single Glazing</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>3,485 sq. inches</td>
<td>95”</td>
</tr>
<tr>
<td>90</td>
<td>2,734 sq. inches</td>
<td>95”</td>
</tr>
<tr>
<td>120</td>
<td>2,734 sq. inches</td>
<td>111”</td>
</tr>
</tbody>
</table>

Forerster fuego

Fire-resistant doors and screenings

The system Forster fuego has proved itself many times over and now completes the range with tested fire-resistant doors and fire-resistant glazing 40 / 60 / 90 and 120 minutes. The door constructions are particularly suitable for areas subject to heavy traffic and satisfy the most stringent requirements with regard to functionality and constant stress.
Forster fuego is the tested and approved, very extensive complete profile system with fittings and accessories for flush single- and double-leaved glazed doors, as well as for generously proportioned glazed walls.

Areas subjected to a great deal of traffic demand robust constructions. The steel elements of VDS Curtain Wall satisfy the most stringent requirements with regard to technical functionality and extreme continuous stress.

**Decisive advantages**

High degree of aesthetic appeal
- Uniform look throughout on profiles and fittings.
  - The Z-shaped profile allows maximum widths.

Locks and fittings (approved american hardware can be used)
- Fittings to match the system.
- Attractively shaped stainless steel handles set and slender roller door hinges
- Concealed door-closing systems.

Safety and protection
- Fire-resistant doors in combination with smoke-resistant requirements.
- Fire-resistant screening 45 / 60 / 90 and 120 minutes
- Maximum safety that remains invisible.
- Passes positive pressure test standards UL 10C, UBC 7-2 and UBC 7-4

Listed and labeled by Underwriters Laboratories & and Underwriters Laboratories of Canada. File number for labeled 60 / 90 / 120 minute fire-rated assemblies is R-16641 / R-21835 design US33. Frame tests performed in accordance with ASTM E119, NFPA 251, UL 263, UL 9, UL 10C, UBC7-2 and UBC7-4. Door tests performed in accordance with UL 10B, UL 10C.

**Fire-resistant curtain-wall**

The slim, multifunctional mullion/transom system Forster thermfix vario completes the system range with a tested fire-resistant glazing 60 / 90 and 120 minutes available either in steel or in stainless steel. With a visible section width of only 49 mm, the system satisfies even the most exacting aesthetic demands.