forster omnia

forster

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Energy-efficient premium solutions

With resources scarce and energy prices increasing, an optimally insulated building shell is more important than ever during construction. Safety requirements are also constantly increasing as a result of the density of construction. With its patented construction design, our robust forster omnia system allows for tailor-made, modular solutions for outdoor applications that meet all of these requirements perfectly.

The thermally insulated windows, doors and fixed glazings can be combined with various safety functions. This ensures a uniform appearance across the entire building and makes both planning and processing easier. The slim profiles are made from 100% steel and achieve the highest insulation values – without any synthetic insulating materials or coolants in the profiles for fire protection. This is a particularly durable, versatile and sustainable solution.

forster omnia doors
Robust, safe and sustainable

Our proven forster omnia system for single-leaf and double-leaf doors and exterior glazings impresses thanks to its outstanding durability, maximum levels of energy efficiency and easily integrated safety solutions. Thanks to the high structural depth of 85 millimetres, triple insulating glass can be installed in the robust steel or stainless steel profiles without any issues – a decisive aspect in ensuring the building shell offers high thermal insulation in line with the Minergie standard.

Safety solutions such as fire protection and anti-burglary protection can be added when required. By replacing only a few components, fire protection class $EI_2$30 can also be reached. The open stainless steel insulator allows easy access to the profile interior and thus enables the corresponding cables to be installed in the event of changing use.

Burglar resistance

Fire resistance

Insulation

100% steel

Stainless steel

Technical specifications

Standard door

Material variants

Steel zinc magnesium

Bright steel**

Brushed stainless steel**

Face widths

Door leaf with frame from 100 mm

Fixed glazing from 40 mm

Dimensions

Inside width single-leaf (W×H): max. 1360 × 2691 mm

Inside width double-leaf (W×H): max. 2670 × 2691 mm

Fittings

Attached and concealed flush fittings

Max. leaf weight 420 kg

System features

Design variants:
Single/double leaf doors, with optional sidelight and fanlight
Fixed glazing

Insulated door threshold, simple lock installation via insertion strips

Structural depth 85 mm

Max. filling element thickness 59 mm

Glazing beads in aluminium and steel

Wet and dry glazing

Performance characteristics*

CE/UKCA marking according to EN 14351-1

U_D value up to 0.74 W/(m²·K)

Durability of self-closing properties: Class 8 according to EN 12400 (tested up to 1 million cycles according to EN 1191 with automatic door operator)

Doors for escape and emergency routes (partial and full panic) according to EN 179 and EN 1125

Burglary resistance: RC2 according to EN 1627

Resistance to wind loads: Class B4/C4 according to EN 12210

Watertightness: Class 3A according to EN 12208

Air permeability: Class 4 according to EN 12207

Impact resistance: Class 4 according to EN 13049

Operating forces: Class 5 according to EN 12217

Threshold-free and barrier-free according to DIN 18040

Sound insulation up to Rw = 45 dB according to EN ISO 140-3

Fire-resistant door $EI_2$30

Material variants

Steel zinc magnesium

Bright steel**

Face widths

Door leaf with frame from 110 mm

Fixed glazing from 50 mm

Dimensions

Inside width single-leaf (W×H): max. 1360 × 2691 mm

Inside width double-leaf (W×H): max. 2670 × 2691 mm

Fittings

Attached and concealed flush fittings

Max. leaf weight 420 kg

System features

Design variants:
Door with single/double leaf, with optional sidelight and fanlight

Insulated door threshold, simple lock installation via insertion strips

Structural depth 85 mm

Max. filling element thickness 59 mm

Steel glazing beads

Dry glazing

Performance characteristics*

CE/UKCA marking according to EN 16034 and 14351-1

U_D value up to 0.83 W/(m²·K)

Fire protection: $EI_2$30 according to EN 1634-1

Smoke protection: S_a or S_{200} according to EN 1634-3

Durability of self-closing properties: Class 8 according to EN 12400 (tested up to 1 million cycles according to EN 1191 with automatic door opener)

Doors for escape and emergency routes (partial and full panic) according to EN 179 and EN 1125

Burglary resistance: RC2 according to EN 1627

Resistance to wind loads: Class B4/C4 according to EN 12210

Watertightness: Class 3A according to EN 12208

Air permeability: Class 4 according to EN 12207

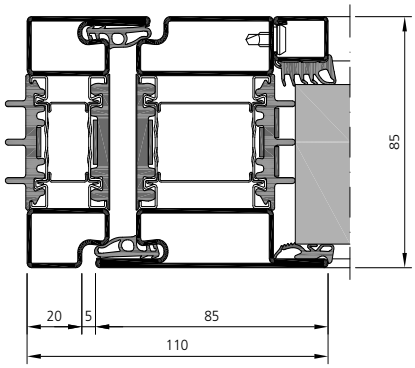
Impact resistance: Class 4 according to EN 13049

Operating forces: Class 5 according to EN 12217

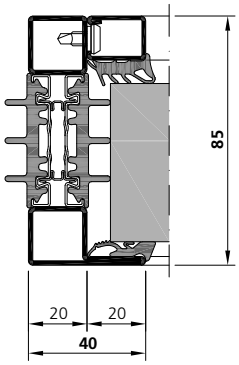
Threshold-free and barrier-free according to DIN 18040

Sound insulation up to Rw = 45 dB according to EN ISO 140-3

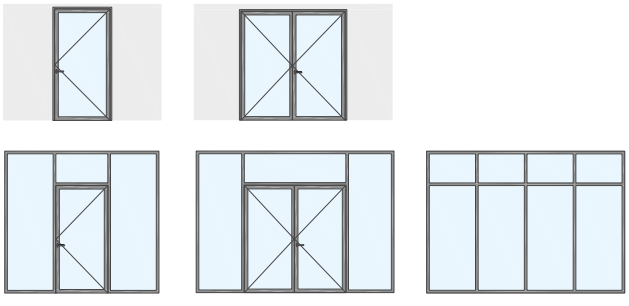
* Take note of the country-specific approvals and requirements
** On request



Door leaf frame



Fixed glazing

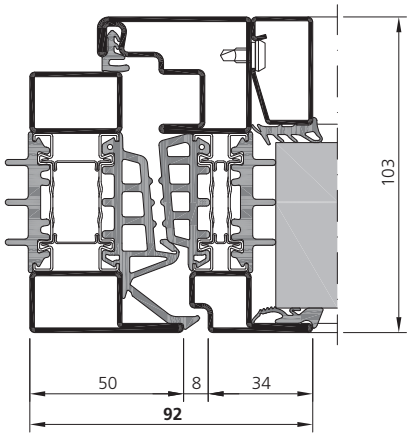


Burglar resistance

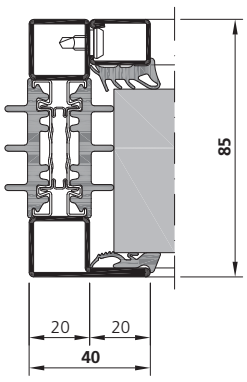
Insulation

100% steel

Stainless steel



Window sash fixed glazing



Fixed glazing

forster omnia windows
Flexible with effective thermal insulation

Like our door systems, the durable forster omnia system for single-leaf and double-leaf windows and exterior glazings impresses above all thanks to its outstanding insulation values. In combination with triple insulating glass, the window system achieves exceptional U_f values of just 1.2 W/(m²·K) – and all without the use of synthetic insulating materials. As a result, it is ideally suited to projects with particularly high thermal insulation requirements, or where certification such as LEED, BREEAM or Minergie is desired.

With just a few components, the basic safety of our forster omnia window system can be enhanced to comply with RC2 anti-burglary protection, thus making it more difficult to pry open. The durability and flexible adaptation to meet changing requirements makes windows with forster omnia a multifunctional, resource-conserving solution.

Your benefits

- Maximum thermal insulation
- 100% steel or stainless steel
- Burglar-resistant solution

Technical specifications

Material variants

Steel zinc magnesium

Bright steel**

Brushed stainless steel**

Face widths

Window sash with frame from 92 mm

Fixed glazing from 40 mm

Dimensions

Max. leaf height: 2840 mm

Max. leaf width: 1640 mm

Fittings

Attached and concealed flush fittings

Max. leaf weight 150 kg

System features

Design variants:
Opening inwards: single/double leaf, turn and turn/tilt windows, tilt only window, with optional sidelight and fanlight
Fixed glazing

Structural depth: Leaf profile 103 mm, frame profile 85 mm

Max. filling element thickness 69.5 mm

Glazing beads in aluminium and steel

Wet and dry glazing

Performance characteristics*

CE/UKCA marking according to EN 14351-1

Thermal insulation: U_f value up to 1.2 W/(m²·K)

Mechanical durability: Class 2 according to EN 12400 (10,000 cycles EN 1191)

Burglary resistance: RC2 according to EN 1627

Resistance to wind loads: Class B4/C4 according to EN 12210

Watertightness: Class E750 according to EN 12208

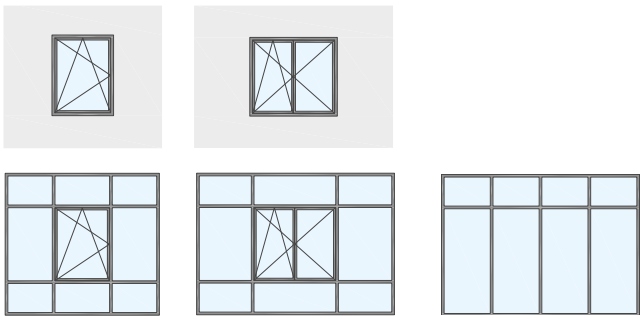
Air permeability: Class 4 according to EN 12207

Impact resistance: Class 3 according to EN 13049

Operating forces: Class 1 according to EN 13115

Sound insulation up to Rw = 49 dB according to EN ISO 140-3

* Take note of the country-specific approvals and requirements
** On request



Steel is our nature.

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For us, steel is a matter of the heart. We develop long-lasting systems for attractive and energy-efficient architecture.

Forster Profile Systems develops and manufactures safe, energy-efficient solutions in steel and stainless steel for doors, windows and facades in Switzerland. Forster works with its own branches in over 20 countries – and exclusive sales partners in around 10 more. In-house consultants are on hand to assist our customers at sites ranging from Europe and the Middle East to Asia and North America. Forster systems are used for building shells and interiors. This includes market-leading solutions that meet the strictest requirements and standards in terms of thermal insulation, plus safety applications such as fire protection, burglar resistance and bullet resistance. The product range is rounded off by matching accessories. Our customers and business partners in architecture, planning and construction can also count on comprehensive services for their respective industry.

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