

Doors, windows and glazing

with thermal break
in steel and stainless steel



Vineyard von Winning, Restaurant Leopold, Deidesheim, Germany
Thermal insulated doors and windows

Energy efficient windows, doors and screens

SUSTAINABLE, ECOLOGICAL, 100% STEEL. forster unico is the revolutionary, thermally insulated profile system for single and double-leaf doors, for windows as well as for exterior glazed units. The basic profiles comprise 100% recyclable steel and contain no synthetic insulating materials – in contrast to all other insulated systems. This innovation, uniquely evocative of a framework style of construction, satisfies the most stringent demands relating to physical and structural functions.

The impressive slim aspects of window elements combine architectural design, comfort and well-being with excellent heat and sound insulation.

This is the latest technology, energy efficiency, attractive design and the ecological use of materials for a responsible and sustainable construction.

forster unico Hi

forster unico Hi combines all the benefits of standard forster unico systems with even higher insulation parameters. The system complies with the latest requirements for heat protection, e.g. EnEV 2009 (DE) and SIA 380/1 (CH). Simple construction: Only two additional components are needed to make forster unico into a very efficient heat insulating forster unico Hi element.

Technical details

Material options	Steel bright / steel galvanized / stainless steel, grinded, grain 220-240
Performance specifications*	Thermal insulation forster unico: $U_w > 1.4 \text{ W/(m}^2\text{K)}$
	Thermal insulation forster unico Hi: U_w bis $0.9 \text{ W/(m}^2\text{K)}$
	Sound insulation up to 47 dB (doors and glazings)
	Burglar resistance RC 1-3 acc. to EN 1627
	Burglar resistance RC 4 acc. to EN 1627 for fixed glazings
	Bullet proof FB4 according to EN 1522
	Certified according to EN 14351-1 (CE marking)
	Finger protection door according to DIN 18650
	Fire protection E30 / EW30 (doors and windows)
	SHEVS acc. to EN 12101-2 for side-hung and tilt only windows
Fittings	System fittings for doors up to 350 kg leaf weight, windows up to 150 kg
	Concealed Forster system fittings for both single and double casements of side-hung and turn/tilt windows
System properties	Facing widths of frame profiles 30 - 90 mm
	Narrowest facing widths for single and double vent casements from 62 mm and fixed glazings from 30 mm
	Compatible with Forster fire and smoke protection systems
	Fillings up to 60 mm (triple insulation glass)
	Wet and dry glazing, stress-relieved and drained
	Stove enamelling or powder coating with no temperature restrictions
	1- and 2-leaf lift-up sliding doors
	Insulated flush floor threshold, barrier-free accessibility (0 mm)
	Outward opening windows, tested according to BS6375-1
	Parallel slide and tilt windows (PST)

*Refer to country-specific approvals

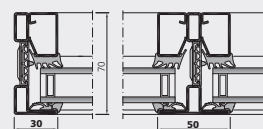
*Villa Küsnacht, Switzerland
 Thermal insulated doors with arches*



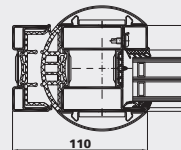
MINERGIE®
 1000 × 2000 mm
 1500 × 2000 mm



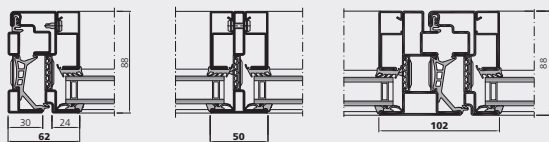
Frame / Glazing



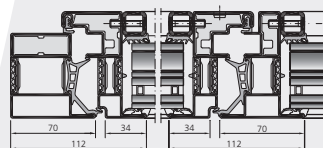
Anti-finger trap door



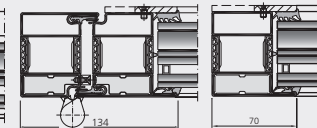
Door leaf



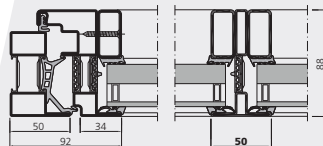
Window FB4



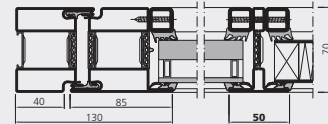
Door FB4



Window RC3



Door RC3





*La Maison du Marais, Saint-Omer, France,
Thermal insulated doors and glazing*

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