



Fireproof and smokeproof seals in ALUMINIUM profile frames

Contemporary glass architecture incorporating doors
and wall elements

NOVODOOR

novoferm

NovoFire® aluminium systems for doors and walls

NovoFire® aluminium profile frames are the perfect solution for modern property construction. With their elegant surface finish, timeless design and numerous options, they offer virtually limitless possibilities for ambitious architects and planners when designing transparent fireproof and smokeproof seals in building interiors. Single and double leaf doors with transom windows and/or side elements can be versatily combined with each other. NovoFire® systems are particularly stable, thanks to the profile wall thickness of 4 mm, and extremely compact, due to the single fireproof core that is anchored to the centre of the profile. This produces a uniform visible width of 150 mm for all models. Following numerous requests, an “anodized aluminium” surface finish that looks like stainless steel has been added to the range.



The “anodized aluminium” finish looks like stainless steel



Do you demand high standards of both function and design? Then our solutions are the perfect answer.

The most important features to start with: Smokeproof in acc. with DIN 18095, fire resistance classes T30 / F30 (EI 30) or T90 / F90 (EI 90) in acc. with DIN 4102, burglar resistance in acc. with EN V1627 for T30 (EI 30) doors in classes WK1 or WK2, optionally also available in WK3. Single or double leaf smokeproof/fire-resistant doors can be combined with fixed elements with any transom spacing up to 4.0 m (F90 / EI 90) or 5.0 m (F30 / EI 30) in height. Upper door closer, electric opener or anti-panic functions in accordance with EN 179 or EN 1125 can be integrated. This broad range of functions obviously offers huge scope for numerous applications.

The design is consistently aligned to this philosophy. All of the systems are identical in appearance, and the doors, side elements and transom windows can be combined at will: two factors that are particularly welcomed in sophisticated property construction. When the frame and door profiles lie flush alongside each other as well, the value of a certain unwillingness to compromise becomes evident: The simplicity of the shapes offers users maximum scope for design.

System description

Aluminium door element made of single chamber hollow profiles. In combination with an automatically lowerable floor seal, this door is tested for smoke protection in accordance with DIN 18095. Visible width of frame and leaf: 150 mm, pedestal height: 98 - 238 mm, installation depth: 74 mm (T30 / EI 30) or 90 mm (T90 / EI 90). The inactive leaf on a double door unit must not be less than 500 mm. The elements are pre-assembled for bushing assembly or weld-on fitting.

Hardware

Mortice lock, pre-assembled for profile cylinder, handle or knob levers with oval rosette plates in aluminium, stainless steel or plastic. The inactive leaf is fixed by a rebate retracting bolt at the top. An anti-panic function that complies with EN 179 or EN 1125 is also possible as an alternative. Slide channel upper door closers in compliance with EN 1154, e.g. GEZE TS 5000/Dorma TS 93, integrated door closing systems (Dorma ITS 96), swing door operation in accordance with DIN 18263/DIN 18650.

Hinges

Two 2-part aluminium bolt-on hinges on each leaf, three-dimensionally adjustable; we recommend that you use three on doors with swing door operation. Roller hinges are available instead of screw-on hinges on request.

Surface

Anodized, stainless steel finish, or powder coated (RAL Classic of choice).

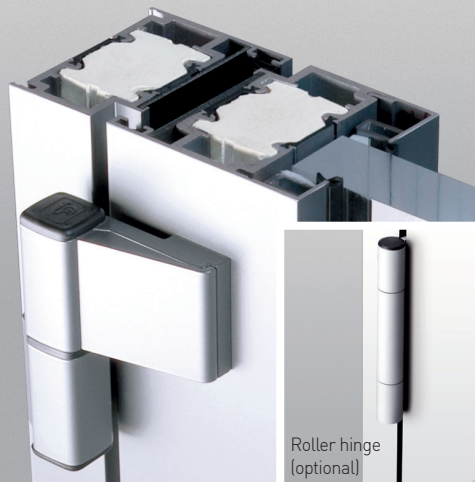
Glazing

Laminated (LSG) or tempered (TSG) safety glass. Glazing options and panel fillings, profiles with one-sided glass rebate and glass holding strips on the opposite side of the hinges, dry glazing with EPDM seals.

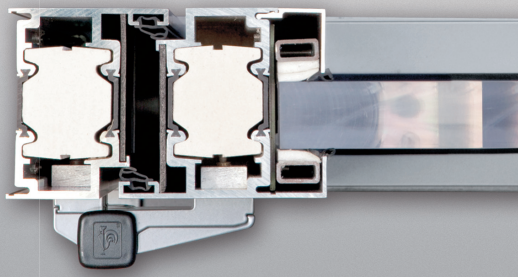
Fixed glazing

Surface flush connection to the door, stand-alone versions are also possible, slanted versions or T connections are optionally available. The frame bars must be unbutted over the entire height of the fireproof glazing.


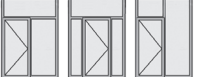



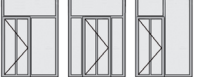



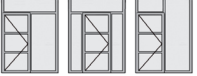

The fire protection core, which is anchored in the middle, leaves space free on each side which can be used, e.g., for cable routing or for fastening add-on parts.



The area surrounding the two hinges is reinforced on the inside for added stability.



RS-1 door, RS-2 door, fixed glazing, “NovoFire” system

Resistance class		RS				
Type		NovoFire Alu RS-1	NovoFire RS-1 combination door	NovoFire RS-2	NovoFire RS door with fixed glazing	
Models	Doors and fixed units with glazing					
	Doors can be combined with fixed units – in any transom spacing					
						
	Vertical sash bars on each leaf or horizontal sash bars on each leaf	1 2	1 2	1 2	Any	
Element design	Slants	-	-	-	-	
	Arches	-	-	-	-	
	Recesses	-	-	-	•	
	Angles	-	-	-	-	
	Widening	•	•	•	•	
Dimensions	Shell dimension (larger dimensions possible through use of frame variants)	Width min. – max.	624 - 1834*	n.a.	1500 - 3270*	unlimited
		Height min. – max.	1750 - 3135*	n.a.	1750 - 3135*	max. 5000 ^{1) 2)}
	Outer frame dimension (larger dimensions possible through use of frame variants)	Width min. – max.	604 - 1804*	621 - 1821*	1470 - 3240*	unlimited
		Height min. – max.	1740 - 3120*	1749 - 3129*	1740 - 3120*	max. 4985 ^{1) 2)}
Clear passage when opened 180°	Width min. – max.	454 - 1414	454 - 1414	1320 - 2850	-	
	Height min. – max.	1665 - 2925	1665 - 2925	1665 - 2925	-	
Door leaf	Structural depth	74	74	74	74	
	View	150	159	150	75	
	Pedestal height	98 - 238	98 - 238	98 - 238	75 - 225	
	Glued transom / Slide mechanism profile	20 - 140 / 98	20 - 140 / 98	20 - 140 / 98	20 - 140 / 98	
Walls	Masonry	≥ 115	≥ 115	≥ 115	≥ 115	
	Concrete	≥ 100	≥ 100	≥ 100	≥ 100	
	Foam mortar or precision blocks	≥ 175	≥ 175	≥ 175	≥ 175	
	Foam mortar slabs	≥ 150	≥ 150	≥ 150	≥ 150	
	Partition walls, steel studs/bolts	≥ 95	≥ 95	≥ 95	≥ 95	
	Partition walls, wood studs/bolts	≥ 105	≥ 105	≥ 105	≥ 105	
	Steel structure cladded/uncladded	•	•	•	•	
	Door / glazing combination	•	•	•	•	
Z-frames	-	-	-	-		
Fillings	LSG or TSG	1302 x 2782	1302 x 2782	1302 x 2782	n.a.	
	Panelling	•	•	•	•	
	Glass / panelling	•	•	•	•	
	Glass	Wet glazing	•	•	•	•
Dry glazing		•	•	•	•	
Design variants	with transom window and side element OFD height	•	•	•	•	
	with transom window OFD height	•	-	•	•	
	with side element OFD width	•	-	•	•	
	Smoke protection door in accordance with DIN 18095 (in combination with DIN 4102)	•	•	•	•	
	Sound insulation max. $R_{w,P}$ ($R_{w,R}$)	42 (37)	-	42 (37)	-	
Test certificate/Registration numbers	P-120003623-10	-	P-120003623-10	-		

• possible – not possible






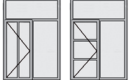
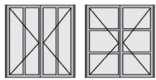

* incl. 120 mm wider door frame on the left and right hand sides and at the top

¹⁾ in keeping with static requirement

²⁾ Installation of the RS-1 or RS-2 door in the fixed glazing: We recommend a stiffening tube on the left and right of the frame profile of the fixed glazing. $H \leq 3500$ without stiffening tube, $H \leq 4000$ with Al tube 80 x 50 x 4, $H \leq 4500$ with Al tube 100 x 50 x 4, $H \leq 5000$ with Al tube 120 x 50 x 4

All dimensions indicated in mm, OFD = Outer frame dimension

T30-1 (EI 30) door, T30-2 (EI 30) door, F30 (EI 30) fire-resistant glazing, "NovoFire" system

Resistance class		T30 (EI 30)			F30 (EI 30)	
Type		NovoFire T30-1 (EI 30)	NovoFire T30-1 (EI 30) combination door	NovoFire T30-2 (EI 30)	NovoFire F30 (EI 30) with T30 (EI 30)	
Models	Doors and fixed units with glazing					
	Doors can be combined with fixed units – in any transom spacing					
	Vertical sash bars on each leaf or horizontal sash bars on each leaf	1 2	1 2	1 2	Any	
Element design	Slants	-	-	-	-	
	Arches	-	-	-	-	
	Recesses	-	-	-	•	
	Angles	-	-	-	-	
	Widening	•	•	•	•	
Dimensions	Shell dimension (larger dimensions possible through use of frame variants)	Width min. – max.	634 - 1834*	811 - 3312*	1500 - 3270*	unlimited
		Height min. – max.	1755 - 3135*	1915 - 3820*	1755 - 3135*	max. 5000 ^{1) 2)}
	Outer frame dimension (larger dimensions possible through use of frame variants)	Width min. – max.	604 - 1804*	781 - 3282*	1470 - 3240*	unlimited
		Height min. – max.	1740 - 3120*	1900 - 3805*	1740 - 3120*	max. 4985 ^{1) 2)}
Clear passage when opened 180°	Width min. – max.	453 - 1412	453 - 1413	1320 - 2850	-	
	Height min. – max.	1665 - 2925	1665 - 2616	1665 - 2925	-	
Door leaf	Structural depth	74	74	74	74	
	View	150	159	150	75	
	Pedestal height	98 - 238	98 - 238	98 - 238	75 - 225	
	Glued transom / Slide mechanism profile	20 - 140 / 98	20 - 140 / 98	20 - 140 / 98	20 - 140 / 98	
Walls	Masonry	≥ 115	≥ 115	≥ 115	≥ 115	
	Concrete	≥ 100	≥ 100	≥ 100	≥ 100	
	Foam mortar or precision blocks	≥ 175	≥ 175	≥ 175	≥ 175	
	Foam mortar slabs	≥ 150	≥ 150	≥ 150	≥ 150	
	Partition walls, steel studs/bolts	≥ 95	≥ 95	≥ 95	≥ 95	
	Partition walls, wood studs/bolts	-	-	-	≥ 105	
	Steel structure clad/unclad	•	•	•	•	
	Door / glazing combination	•	•	•	•	
Z-frames	-	-	-	-		
Fillings	Contraflam 30 - 1 / Contraflam 30 - V6 (Contraflam 30 - V22) / Contraflam 30 - V24 (Contraflam 30 - V26) / Contraflam 30 IGU max. width x height		1208 x 2261 939 x 2413 2345 x 1219		2200 x 1400 2345 x 1219 1400 x 2413	
	Pyrostop type 30 - 1 / Pyrostop type 30 - 10 / Pyrostop type 30 - 2 / Pyrostop type 30 - 20 +P2A, P4A, P6B / Pyrostop 30 - 1.Iso / Pyrostop 30 - 2.Iso max. width x height		1400 x 2577 2929 x 924		2929 x 924 1400 x 2577	
	Promaglas 30, type 1 / Promaglas 30, type 2 / Promaglas 30, type 20		1302 x 2782		1302 x 2782 2782 x 924	
	Panelling	•	•	•	•	
	Glass / panelling	•	•	•	•	
	Glass	Wet glazing	•	•	•	•
		Dry glazing	•	•	•	•
Design variants	with transom window and side element OFD height	•	•	•	•	
	with transom window OFD height	•	•	•	•	
	with side part	•	-	•	•	
	Smoke protection door in accordance with DIN 18095 (in combination with DIN 4102)	•	•	•	•	
	Sound insulation max. $R_{w,P}$ [$R_{w,R}$]	40 [35]	-	40 [35]	-	
Test certificate/Registration numbers	Z-6.20-1845	Z-6.20-1845 Z-19.14-1769	Z-6.20-1845	Z-19.14-1769		

• possible – not possible





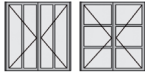

* incl. 120 mm wider door frame on the left and right hand sides and at the top

¹⁾ in keeping with static requirement

²⁾ Installation of the T30-1 (EI 30) or T30-2 (EI 30) door in the F30 (EI 30) fire-resistant glazing: Stiffening tube on the left and right of the frame profile of the fixed glazing. $H \leq 3500$ without stiffening tube, $H \leq 4000$ with Al tube 80 x 50 x 4, $H \leq 4500$ with Al tube 100 x 50 x 4, $H \leq 5000$ with Al tube 120 x 50 x 4

All dimensions indicated in mm, OFD = Outer frame dimension

T90-1 (EI 90) door, T90-2 (EI 90) door, F90 (EI 90) fire-resistant glazing, "NovoFire" system

Resistance class		T90 (EI 90)		F90 (EI 90)	
Type		NovoFire T90-1 (EI 90)	NovoFire T90-2 (EI 90)	NovoFire F90 (EI 90) with T90 (EI 90)	
Models	Doors and fixed units with glazing				
	Doors can be combined with fixed units – in any transom spacing				
	Vertical sash bars on each leaf or horizontal sash bars on each leaf	1 2	1 2	Any	
Element design	Slants	-	-	-	
	Arches	-	-	-	
	Recesses	-	-	•	
	Angles	-	-	-	
	Widening	•	•	•	
Dimensions	Shell dimension (larger dimensions possible through use of frame variants)	Width min. – max.	624 - 1730*	1500 - 2730*	unlimited
		Height min. – max.	1750 - 2610*	1750 - 2610*	max. 4000 ^{1) 2)}
	Outer frame dimension (larger dimensions possible through use of frame variants)	Width min. – max.	604 - 1710*	1470 - 2700*	unlimited
		Height min. – max.	1740 - 2600*	1740 - 2600*	max. 3985 ^{1) 2)}
Clear passage when opened 180°	Width min. – max.	454 - 1320	1320 - 2310	-	
	Height min. – max.	1665 - 2405	1665 - 2405	-	
Door leaf	Structural depth	90	90	90	
	View	150	150	75	
	Pedestal height	98 - 238	98 - 238	75 - 225	
	Glued transom / Slide mechanism profile	20 - 140 / 98	20 - 140 / 98	20 - 140 / 98	
Walls	Masonry	≥ 175	≥ 175	≥ 175	
	Concrete	≥ 140	≥ 140	≥ 140	
	Foam mortar or precision blocks	≥ 200	≥ 200	≥ 175	
	Foam mortar slabs	≥ 175	≥ 175	≥ 175	
	Partition walls	≥ 95	≥ 95	≥ 95	
	Steel structure, cladded	•	•	•	
	Wood structure, cladded	-	-	•	
	Door / glazing combination	•	•	•	
Z-frames	-	-	-		
Fillings	Contraflam 90	Width x height max.	1208 x 2261	1208 x 2261	1400 x 2400 2200 x 1400
		** Transom window	2347 x 939 **		
		*** Side element	939 x 2413 ***		
	Pyrostop type 90-1	Width x height	≤ 1208 x ≤ 2261	≤ 1208 x ≤ 2261	1400 x 2400 2200 x 1400
		Total surface area	≤ 2,44 m ²	≤ 2,44 m ²	
		** Transom window	2347 x 939 **		
		*** Side element	939 x 2413 ***		
	Pyrostop type 90-2	Width x height	≤ 1208 x ≤ 2261	≤ 1208 x ≤ 2261	1400 x 2400 2200 x 1400
		Total surface area	≤ 2,21 m ²	≤ 2,21 m ²	
		** Transom window	2347 x 939 **		
		*** Side element	939 x 2413 ***		
	Panelling		•	•	•
Glass / panelling		•	•	•	
Glass	Wet glazing	•	•	•	
	Dry glazing	•	•	•	
Design variants	with transom window and side element OFD height	•	•	•	
	with transom window OFD height	•	•	•	
	with side element OFD width	•	•	•	
	Smoke protection door in accordance with DIN 18095 (in combination with DIN 4102)	•	•	•	
Sound insulation max. R _{w,P} [R _{w,R}]	42 (37)	42 (37)	-		
Test certificate/Registration numbers	Z-6.20-1836	Z-6.20-1836	Z-19.14-1771		

• possible – not possible

* incl. 120 mm wider door frame on the left and right hand sides and at the top

¹⁾ in keeping with static requirement

²⁾ Installation of the T90-1 (EI 90) or T90-2 (EI 90) door in the F90 fire-resistant glazing: Stiffening tube on the left and right of the frame profile of the fixed glazing.

H ≤ 3500 without stiffening tube, H ≤ 4000 with Al tube 80 x 50 x 4, H ≤ 4500 with Al tube 100 x 50 x 4, H ≤ 5000 with Al tube 120 x 50 x 4

All dimensions indicated in mm, OFD = Outer frame dimension

References

Extract from our reference list:

Daimler, Berlin
Daimler, Stuttgart
Borussia-Park, Mönchengladbach
Fraunhofer Institut, Bad Godesberg
Zintl Institut, Darmstadt
Airport, Athens
Mens' college, Dubai
Womens' college, Dubai
Goldpfeil, Offenbach
Sparkasse, Constance
Mail collection centres, throughout Germany
Zeche Nordstern, Bochum
Kassenärztliche Vereinigung, Munich
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