

Steel Security Systems

Doors, screens and façades for fire, burglar and bullet protection



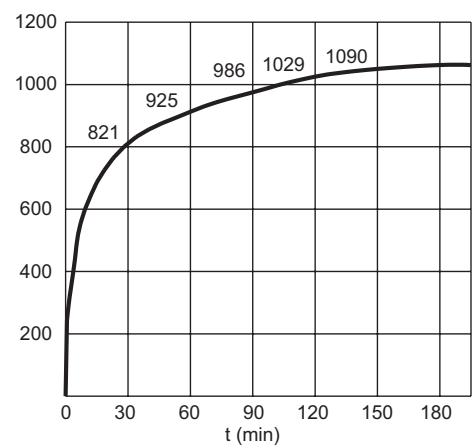


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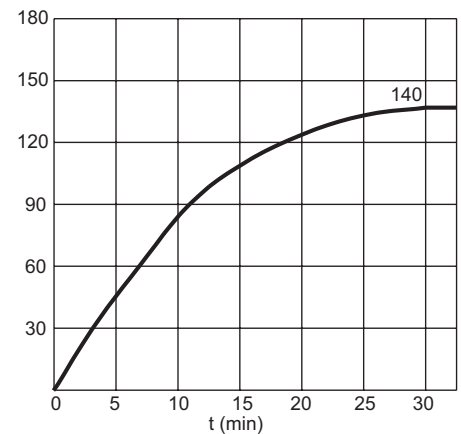
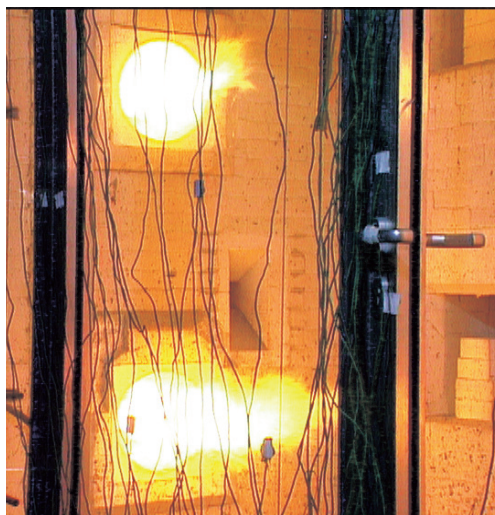
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Test criteria for fire protection barriers

Fire protection barriers are tested to EN 1364 and EN 1634. In addition to the fire tests, the elements are subjected to a test of 200,000 cycles. All fitting components must be fully functional after the cycle test.



Standard Temperature curve in accordance with EN 1634 (temperature within fire area).

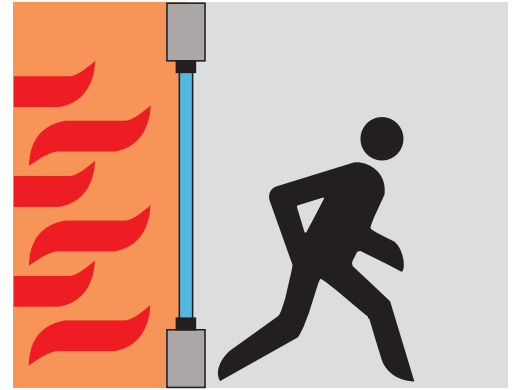


Surface Temperature in profiles and glass on the side facing away from the fire area

European classification in accordance with EN 13501

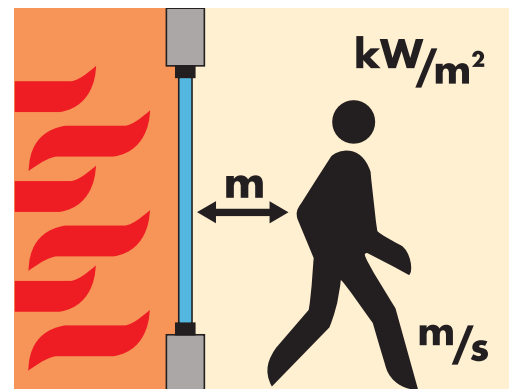
E – Integrity

The capacity of a building component to resist fire from one side.



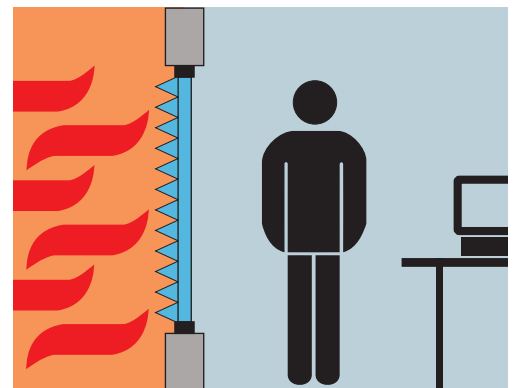
W – Radiation

The capacity of a building component to resist heat radiation on the side facing away from the fire for a set time.



I – Insulation

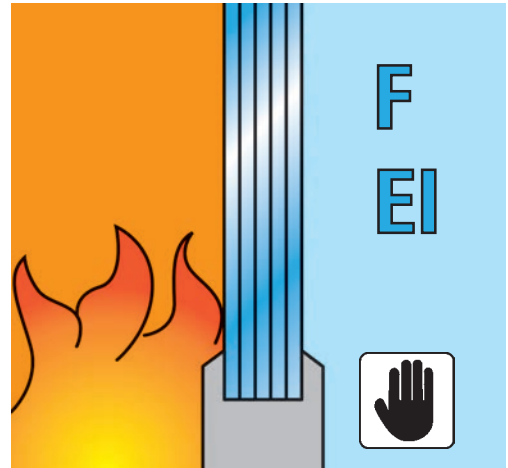
The capacity of a building component to provide a sufficiently strong heat barrier which will guarantee that people are protected.



Fire-resistant glazing

Fire resistance class EI fire-resistant glazing:

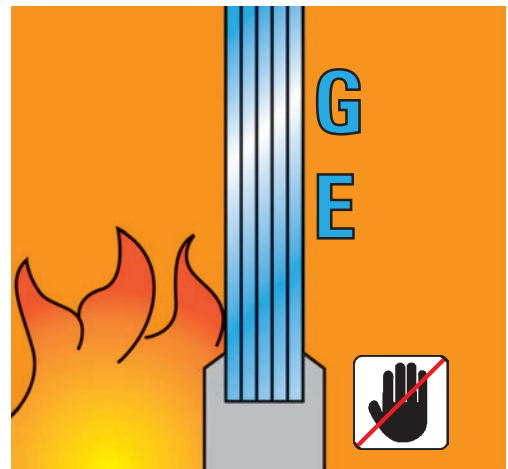
Class EI fire-resistant glazing refers to building components which allow light to pass through and which, according to their fire resistance rating, not only prevent the spread of fire and smoke, but also the penetration of heat radiation, i.e. the surface facing away from the fire must not heat up to more than 140 K (mean value) or 180 K (highest individual reading). A cotton pad held next to it should not ignite or even smoulder. In the event of fire, EI glazing becomes opaque.



EI glazing

Fire resistance glass in fire resistance class E:

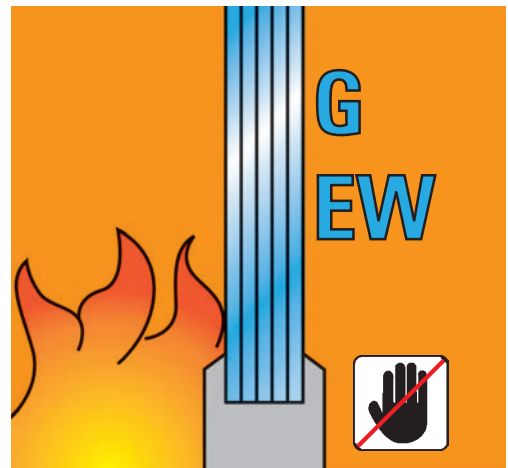
Class E glazing refers to components which allow light to pass through and which, according to their fire resistance rating, only prevent the spread of fire and smoke. It does not prevent heat penetration. As a rule, class E glazing will remain transparent in the event of a fire.



E glazing

Fire resistance glass in fire resistance class EW:

Class EW glazing refers to components which allow light to pass through and which, according to their fire resistance rating, only prevent the spread of fire and smoke. It does not prevent heat penetration. As a rule, class EW glazing will remain transparent in the event of a fire.



EW glazing

Emergency exit doors according to EN 1125/EN 179

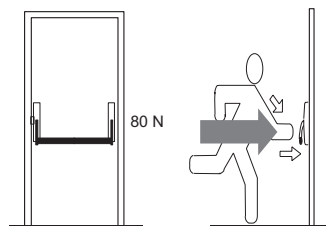


To meet the requirements of EN 179 and in particular DIN 1125, Schüco supplies a fully integrated system of emergency exit fittings. When combined with self-locking latch-and-bolt locks, these attractive, high-quality push-bar handles create a complete panic unit for single-leaf and double-leaf doors in accordance EN 1125.

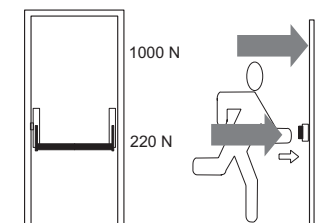


To meet the requirements of EN 179, Schüco offers a fully integrated system of exit fittings.

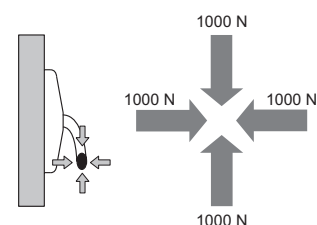
Test A:
Door without initial load



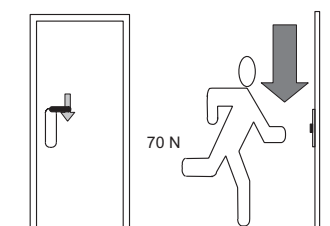
Test B:
Door with initial load of 1000 N



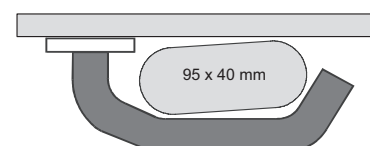
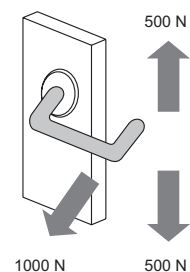
Test C:
Vandalism test



Test A:
Opening test



Test B:
Vandalism test



To minimise risk of injury, these handles must be designed so that the end of the handle points towards the surface of the door leaf.



For the sensitive area of fire protection, Schüco Jansen Steel Systems have developed VISS Fire – a modular, fully insulated façade construction for universal use. The system is suitable for vertical façades in all fire resistance classes for interior and exterior use (E30/60/90/120, EI30/60/90/120 and E30/EI30/EI60 slope). VISS Fire has also been tested and approved for use with Janisol 2 and Jansen-Economy fire doors.

Dry glazing (gasket)
Wet glazing (tape)
Inside application
Outside application (DGU)

Assessment no.	Insulation	Integrity	Glass type	Producer	max. glass size H × W (mm)	max. Area m²				
CC 88368 (BS 476)										
0	30	Pyroswiss, 6 mm	Vetrotech	2000 × 1200	2.40	■	■	■		
0	30	Fireswiss, 6 mm	Glas Trösch	2000 × 1200	2.40	■	■	■		
0	30	Pyroguard C, 7.2 mm	CGI Int.	1200 × 1200	1.44	■	■	■		
0	30	Georgian wired, 6.5 mm	CGI Int.	2000 × 1200	2.40	■	■	■		
0	30	Pyrodur, 10 mm	Pilkington	2000 × 1200	2.40	■	■	■		
0	30	Pyran S, 6 mm	Schott	2875 × 1600	4.60	■	■	■		
0	30	Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	1600 × 3000	4.80	■	■			■
0	30	Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	3000 × 1600	4.80	■	■			■
0	30	Vetroflam, 22 mm (6 - 10 - 6)	Vetrotech	1800 × 1300	2.34	■	■			■
0	60	Pyroswiss Plus, 6 mm	Vetrotech	2000 × 1200	2.40	■	■	■		
0	60	Pyroswiss Extra, 6 mm	Vetrotech	2270 × 1320	3.00	■	■	■		
0	60	Vetroflam, 6 mm	Vetrotech	1996 × 1109	2.21	■	■	■		
0	60	Fireswiss, 6 mm	Glas Trösch	1450 × 1100	1.59	■	■	■		
0	60	Pyroguard W (wired), 7.2 mm	CGI Int.	1442 × 995	1.16	■	■	■		
0	60	Georgian wired, 6.5 mm	CGI Int.	1500 × 1000	1.50	■	■	■		
0	60	Pyrocet, 6 mm	C3S Securiglass	2000 × 1200	2.40	■	■	■		
0	60	Pyrodur, 13 mm	Pilkington	2000 × 1200	2.40	■	■	■		

VISS Fire vertical 30/0–120/0 (E30–E120)

Assessment no.	Insulation	Integrity	Glass type	Producer	max. glass size H × W (mm)	max. Area m ²	Dry glazing (gasket)	Wet glazing (tape)	Inside application	Outside application (DGU)
CC 88368 (BS 476)										
	0	60	Pyran S, 6 mm	Schott	2875 × 1400	3.86	■	■	■	
	0	60	Pyran ISO, 26 mm (6 - 12 - 4+4) **	Schott	1978 × 978	1.93	■	■		■
	0	60	Pyran ISO, 26 mm (6 - 12 - 4+4) **	Schott	1178 × 1828	2.15	■	■		■
	0	60	Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	1600 × 2750	4.40	■	■		■
	0	60	Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	2750 × 1600	4.40	■	■		■
	0	90	Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	2500 × 1500	3.75		■	■	
	0	120	Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	2300 × 1250	2.80		■	■	
	0	up to 90	Fire-Panel (1x25 mm Promatect H faced with 2 mm steel)				■	■	■	■

** Fire glass to non fire side only, secondary glass may be float, laminated or toughened

VISS Fire vertical 30/30–120/120 (EI30–EI120)

Assessment no.	Insulation	Integrity	Glass type	Producer	max. glass size H × W (mm)	max. Area m ²	Dry glazing (gasket)	Wet glazing (tape)	Inside application	Outside application (DGU)
CC 204234A (BS 476)										
	30	30	Pyrostop 30-10, 15 mm	Pilkington	2500 × 1210	3.02	■	■	■	
	30	30	Pyrostop 30-10, 15 mm + laminated	Pilkington	2500 × 1210	3.02	■			■
	30	30	Pyrostop 30-20, 18 mm + other	Pilkington	2866 × 1210	3.46	■	■	■	
	30	30	Pyrostop 30-20, 18 mm	Pilkington	2866 × 1210	3.46	■			■
	30	30	Pyrostop IGU 90-261, 54	Pilkington	1680 × 2760	3.89	■	■	■	■
	30	30	Pyrostop IGU 90-261, 54	Pilkington	2760 × 1680	3.89	■	■	■	■
	30	30	Pyrostop 30-17	Pilkington	3000 × 1400	3.77	■	■	■	
	30	30	Pyrostop 30-18	Pilkington	3000 × 1400	3.77	■	■	■	
	30	30	Pyrostop 30-25	Pilkington	3000 × 1400	3.77	■	■	■	
	30	30	Pyrostop 30-26	Pilkington	3000 × 1400	3.77	■	■	■	
	30	30	Pyrobel ISO, 16 mm	AGC	3403 × 1086	3.06	■			■
	30	60	Pyrobel ISO, 16 mm	AGC	600 × 2246	1.12	■			■
	30	60	Swissflam 30, 17 mm	Vetrotech	2760 × 1560	3.61	■	■	■	
	30	60	Contraflam 30, 16 mm	Vetrotech	2760 × 1560	3.61	■	■	■	
	30	60	Promaglas, 17 mm	Promat	2300 × 1300	2.99	■	■	■	
	30	60	Pyrostop 30-17	Pilkington	2600 × 1200	3.12	■	■	■	
	30	60	Pyrostop 30-18	Pilkington	2600 × 1200	3.12	■	■	■	
	30	60	Pyrostop 30-25	Pilkington	2600 × 1200	3.12	■	■	■	
	30	60	Pyrostop 30-26	Pilkington	2600 × 1200	3.12	■	■	■	
	60	60	Contraflam 60, 24 mm	Vetrotech	3600 × 1800	5.40	■	■	■	
	60	60	Contraflam 60, 25 mm	Vetrotech	3600 × 1800	5.40	■	■	■	
	60	60	Contraflam 60, 29 mm	Vetrotech	3120 × 2160	5.60	■	■	■	
	60	60	Pyrostop 60-171	Pilkington	3000 × 1430	4.29	■	■	■	
	60	60	Pyrostop 60-181	Pilkington	3000 × 1430	4.29	■	■	■	
	60	60	Pyrostop 60-251	Pilkington	3000 × 1430	4.29	■	■	■	
	60	60	Pyrostop 60-261	Pilkington	3000 × 1430	4.29	■	■	■	
	60	60	Pyrostop 60-171	Pilkington	2850 × 1500	4.28	■	■	■	
	60	60	Pyrostop 60-181	Pilkington	2850 × 1500	4.28	■	■	■	
	60	60	Pyrostop 60-251	Pilkington	2850 × 1500	4.28	■	■	■	
	60	60	Pyrostop 60-261	Pilkington	2850 × 1500	4.28	■	■	■	

VISS Fire – fire-resisting façades

VISS Fire vertical 30/30–120/120 (EI30–EI120)

Assessment no.	Insulation	Integrity	Glass type	Producer	max. glass size H × W (mm)	max. Area m ²	Dry glazing (gasket)	Wet glazing (tape)	Inside application	Outside application (DGU)
CC 204234A (BS 476)										
60	60	60	Contraflam 60 IGU, 37 mm	Vetrotech	2200 × 1691	2.86	■			■
60	60	60	Contraflam 60, 29 mm	Vetrotech	3120 × 2160	5.66	■	■	■	
60	60	60	Contraflam 60 IGU, 45 mm	Vetrotech	3120 × 2160	5.66	■			■
60	60	60	Pyrostop 60-101, 23 mm	Pilkington	2850 × 1500	4.28	■	■	■	
60	60	60	Pyrostop 60-101, 23 mm	Pilkington	3000 × 1430	4.28	■	■	■	
90	90	90	Contraflam 90, 38 mm	Vetrotech	2700 × 1600	3.93	■	■	■	
90	90	90	Contraflam 90, 40 mm	Vetrotech	2700 × 1600	3.93	■	■	■	
90	90	90	Contraflam 90, 40 mm	Vetrotech	1202 × 2402	2.88	■	■	■	
90	90	90	Contraflam 120, 58 mm	Vetrotech	3108 × 1731	4.52	■	■	■	
90	90	90	Contraflam 120, 62 mm	Vetrotech	2760 × 1560	3.61	■	■	■	
90	90	90	Contraflam 120, 74 mm	Vetrotech	2760 × 1824	4.23	■	■	■	
90	90	90	Pyrobel 30	AGC	2920 × 1400	4.08	■	■	■	
90	90	90	Pyrobel 53N	AGC	3420 × 1560	4.48	■	■	■	
90	90	90	Pyrostop 90-182	Pilkington	2850 × 1400	4.68	■	■	■	
90	90	90	Pyrostop 90-182	Pilkington	1400 × 2850	4.11	■	■	■	
90	90	90	Pyrostop 90-261, 54 mm	Pilkington	2700 × 1400	3.86	■	■	■	
90	90	90	Pyrostop 90-261, 54 mm	Pilkington	1368 × 1784	1.68	■	■	■	
120	120	120	Contraflam 120, 58 mm	Vetrotech	2849 × 1586	4.12	■	■	■	
120	120	120	Contraflam 120, 62 mm	Vetrotech	2760 × 1560	3.59	■	■	■	
120	120	120	Contraflam 120, 74 mm	Vetrotech	2760 × 1824	4.20	■	■	■	
120	120	120	Pyrobel 53N	AGC	2850 × 1300	3.70	■	■	■	
30	30	30	Fire Panel (1 × 25 mm Promatect H, faced with 2 mm steel)				■	■	■	■
60	60	60	Fire Panel (2 × 25 mm Promatect H, faced with 2 mm steel)				■	■	■	■
90	90	90	Fire Panel (2 × 25 mm Promatect H, faced with 2 mm steel)				■	■	■	■

VISS Fire curtain walls EI90

Classification report	Insulation	Integrity	Glass type	Producer	max. glass size H × W (mm)	max. Area m ²	Dry glazing (gasket)	Wet glazing (tape)	Inside application	Outside application (DGU)
ift C-10-002000-RR01 (BS EN 13501-2)										
90	90	90	Pyrostop 90-102, 37 mm	Pilkington	2400 × 1400		■	■	■	
90	90	90	Pyrostop 90-102, 37 mm	Pilkington	1189 × 1540		■	■	■	
90	90	90	Pyrostop 90-182, 54 mm	Pilkington	2700 × 1400		■	■		■
90	90	90	Pyrostop 90-182, 54 mm	Pilkington	1400 × 2700		■	■		■
90	90	90	Pyrostop 90-261, 74 mm Triple	Pilkington	2700 × 1400		■	■		■
90	90	90	Pyrostop 90-261, 74 mm Triple	Pilkington	1400 × 2700		■	■		■
90	90	90	Fire Panel (2 × 25 mm Promatect H faced with 2 mm steel)		2700 × 1400		■	■	■	■
90	90	90	Fire Panel (2 × 25 mm Promatect H faced with 2 mm steel)		1400 × 2700		■	■	■	■

Max. distance between floors: 5000 mm, max number of floors unlimited

Max. number of floors: unlimited

Max. width of façade: unlimited

VISS Fire sloping up to 60/60 (EI60)

Assessment no.	Insulation	Integrity	Glass type	Producer	Angle range of screen from horizontal	max. glass size H × W (mm)	max. Area m ²		
CC 223495 (BS 476)									
0	30		Pyran ISO (5, 6 or 8 mm Pyran S - >8 mm - >8 mm float) **	Schott	30° to 60°	2642 × 1746	3.84	■	■
0	30		Pyran ISO (5, 6 or 8 mm Pyran S - >8 mm - >8 mm float) **	Schott	0° to 30°	2640 × 1500	3.3	■	■
0	30		Pyroswiss Kombi (10 mm Pyroswiss SS - 12 mm - 8 mm float) **	Vetrotech	45° only	2102 × 972	2.04	■	■
0	30		Pyroswiss Kombi (6mm Pyroswiss WS - 16 mm - 8 mm float) **	Vetrotech	45° to 79°	2102 × 972	2.04	■	■
0	30		Pyroswiss Kombi (6mm Pyroswiss WS - 16 mm - 8 mm float) **	Vetrotech	0° to 45°	2352 × 1152	2.26	■	■
0	30		Pyroswiss Kombi (6mm Pyroswiss WS - 12 mm - 11 mm float) **	Vetrotech	45° to 79°	2102 × 972	2.04	■	■
0	30		Pyroswiss Kombi (6mm Pyroswiss WS - 12 mm - 11 mm float) **	Vetrotech	0° to 45°	2352 × 1152	2.26	■	■
30	30		Pyrostop 30-401 (24 mm Pyrostop 30-50 - 12 mm - 8 mm float)	Pilkington	30° to 60°	2400 × 1202	2.4	■	■
30	30		Pyrostop 30-401 (24 mm Pyrostop 30-50 - 12 mm - 8 mm float)	Pilkington	0° to 30°	1759 × 1202	1.76	■	■
30	30		Contraflam 30 (16 mm - 20 mm - 6 mm float)	Vetrotech	45° only	2502 × 1102	2.76	■	■
30	30		Contraflam 30 (16 mm - 20 mm - 6 mm float)	Vetrotech	0° to 45°	1127 × 1102	1.24	■	■
30	30		Pyrodur 30-401 (20 mm Pyrodur 30-50 - 12 mm - 8 mm float)	Pilkington	35° to 90°	1284 × 1260	1.35	■	■
30	30		Pyrodur 30-401 (20 mm Pyrodur 30-50 - 12 mm - 8 mm float)	Pilkington	5° to 35°	2400 × 1260	2.52	■	■
30	60		Pyrostop 20 mm laminated to 6 mm amourplate glass	Pilkington	0° to 15°	1200 × 1200	1.2	■	■
60	60		Contraflam 60 (23 mm - 12 mm - 6 mm float)	Vetrotech	0° to 25°	2404 × 857	1.72	■	■
0	30		Fire Panel, 2mm metal sheet, Promatect H 25 mm, 2 mm metal sheet					■	■
up to 60	up to 60		Fire Panel, 2mm metal sheet, Promatect H 25 mm, 2 mm metal sheet					■	■

** Fire glass to non fire side only



Jansen-Economy fire-resistant doors and glazing



Jansen-Economy 50

Fire-resistant doors and partition walls in classes E30/E60/E90 and E120 made from steel designed to prevent the spread of fire. Stainless steel options are also available for E30. Jansen-Economy 50 allows transparent units to be fabricated economically – as single or double-leaf doors, with side sections and/or toplights, or as a partition wall.

The basic depth for door frames and leaves is only 50 mm. Flush-fitted doors with a continuous shadow joint inside and outside can be fabricated with this profile system.

Jansen-Economy 60

The profile system with a basic depth of 60 mm is suitable for all applications where large fire-resistant E30/E60 or E120 units with a slimline look are required. As the steel profiles are extremely torsion-proof, Jansen-Economy 60 can be used to fabricate robust single and double-leaf door systems. Jansen-Economy door systems have also been tested for smoke protection in

accordance with EN 1634-3. The tailored range of fittings includes locks, strike plates, electric strikes, door handles and specially developed 3D adjustable screw-on and weld-on hinges.

Their appearance is coordinated to match the other Schüco Jansen steel systems and they allow different requirements to be met, whilst retaining a uniform look.

E30 Unlatched doors

Jansen-Economy 60 unlatched fire doors are particularly suitable for hospital, hotel, school and public space applications where heavy duty use is the norm but no locking is required. Special components are activated in the event of a fire causing the door to remain closed and provide a barrier to the flames.

Made from tried and tested Jansen-Economy 60 steel sections and fittings these doors offer the advantages of full height glazing, 30 minute Integrity and are available in single and double leaf versions.



Jansen-Economy 50 – Steel and Stainless Steel glazed elements

Assessment no.	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
CC 271415 (BS 476)								
30		Screens	all below 0/30	all below 0/30	4000 × unlimited		■	■
60			all below 0/60	all below 0/60	4000 × unlimited		■	■
90			all below 0/90	all below 0/90	4000 × unlimited		■	■
120			all below 0/120	all below 0/120	4000 × unlimited		■	■
30		Single doorsets	all below 0/30	1-point lock	2500 × 1300		■	■
60			all below 0/60	1-point lock	2500 × 1300		■	■
90			all below 0/90	1-point lock	2500 × 1300		■	■
120			all below 0/120	1-point lock	2500 × 1300		■	■
30		Double doorsets	all below 0/30	2-point lock on active or passive leaf	2500 × 2400		■	■
60			all below 0/60	1-point lock on active, shoot bolt lock on passive	2500 × 2400		■	■
90			all below 0/90	1-point lock on active, shoot bolt lock on passive	2500 × 2400		■	■
120			all below 0/120	2-point latch on active leaf	2500 × 2400		■	■

Assessed Fire-glasses and panels

Assessment no.	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
CC 271415 (BS 476)								
30		Screens and	Pyroswiss, 6 mm	Vetrotech	2000 × 1400	2.80	■	
30		and doors	Pyroswiss ISO, ISO WS	Vetrotech	2250 × 1220	2.74		■
30			Pyroswiss ISO, ISO WS	Vetrotech	1220 × 2250	3.74		■
30			Fireswiss, 6 mm	Glas Trösch	2000 × 1250	2.50	■	
30			Pyroguard C, 7.2 mm and 11 mm	CGI Int.	1200 × 1200	1.44	■	
30			Georgian wired, 6.5 mm	CGI Int.	2000 × 1400	2.80	■	
30			Pyran S, 6 mm	Schott	2875 × 1600	4.60	■	
30			Pyran ISO, 26 mm (6 - 12 - 4+4) **	Schott	1034 × 624	0.65		■
30			Pyran ISO, 27 mm (6 Pyran S - 12 - 9 laminated) **	Schott	2105 × 928	1.95		■
30			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	1600 × 3000	4.80		■
30			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	3000 × 1600	4.80		■
30			Pyrocet, 6 mm	C3S Securiglass	2875 × 1400	3.86	■	
30			Pyrodur, 10 mm	Pilkington	2000 × 1400	2.80	■	
60			Pyran S, 6 mm	Schott	2875 × 1400	3.86	■	
60			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	1600 × 2750	4.40		■
60			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	2750 × 1600	4.40		■
60			Pyroswiss Plus, 6 mm	Vetrotech	2000 × 1250	2.50	■	
60			Pyroswiss Extra, 6 mm	Vetrotech	2270 × 1320	3.00	■	
60			Pyroguard W (wired), 7.2 mm	CGI Int.	1442 × 995	1.16	■	
60			Georgian wired, 6.5 mm	CGI Int.	1500 × 1000	1.50		■
60			Pyrocet, 6 mm	C3S Securiglass	2558 × 1260	3.45	■	
60			Vetroflam, 6 mm	Vetrotech	1996 × 1109	2.21	■	
60			Swissflam-lite 7 mm or 9 mm	Vetrotech	1820 × 1250	2.27	■	
60			Pyrobel, 14 mm	AGC	2000 × 1300	2.60	■	
60			Pyrobel, 21 mm	AGC	792 × 1196	0.86	■	
90			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	2500 × 1500	3.75		■
120			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	2300 × 1250	2.80		■
120			Pyran S, 6 mm	Schott	2300 × 1400	3.22	■	
120			Firelite, 5mm	TGP	2400 × 880	2.10	■	
30 - 120			Fire Panel, 2mm metal sheet, Promatect H 25 mm, 2 mm metal sheet					

**Fire glass to non fire side only, secondary glass may be float, laminated or toughened

Jansen-Economy fire-resistant doors and glazing

Jansen-Economy 60 – Steel glazed elements

Assessment no.	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m²	Inside Application	Outside Application
CC 213213 (BS 476)								
30		Screens	all below 0/30	all below 0/30	4500 × unlimited		■	■
60			all below 0/60	all below 0/60	4000 × unlimited		■	■
90			all below 0/90	all below 0/90	4000 × unlimited		■	■
120			all below 0/120	all below 0/120	4000 × unlimited		■	■
30		Single doorsets	all below 0/30	1-point lock up to 2500 mm, 2-point lock up to 3000 mm	3000 × 1610		■	■
60			all below 0/60	1-point lock	2250 × 1219		■	■
60			all below 0/90	1-point lock up to 2500 mm, 2-point lock up to 3000 mm	2524 × 1036		■	■
30		Double doorsets	all below 0/30	1-point lock up to 2500 mm, 2-point lock up to 3000 mm	2860 × 2830		■	■
60			all below 0/60	1-point lock up to 2500 mm, 2-point lock up to 3000 mm	2611 × 2639		■	■
120			all below 0/120	2-point latch on active leaf	2500 × 2400		■	■

Jansen-Economy 60 – Full metal sheeted elements with variable glass shapes

Assessment no.	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m²	Inside Application	Outside Application
CC 213213 (BS 476)								
30		Single doorsets	2 × 2,5 mm steel sheets, mineral wool 110 kg/m³	multi-point lock (3 latches)	2500 × 1400		■	■
30		Double doorsets	2 × 2,5 mm steel sheets, mineral wool 110 kg/m³	multi-point lock (3 latches)	2500 × 2600		■	■

Assessed Fire-glasses and panels

Assessment no.	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m²	Inside Application	Outside Application
CC 213213 (BS 476)								
30		Screens	Pyroswiss, 6 mm	Vetrotech	2000 × 1400	2.80	■	
30		and doors	Pyroswiss ISO, ISO WS	Vetrotech	2250 × 1220	2.74		■
30			Pyroswiss ISO, ISO WS	Vetrotech	1220 × 2250	3.74		■
30			Fireswiss, 6 mm	Glas Trösch	2000 × 1250	2.50	■	
30			Pyroguard C, 7.2 mm and 11 mm	CGI Int.	1200 × 1200	1.44	■	
30			Georgian wired, 6.5 mm	CGI Int.	2000 × 1400	2.80	■	
30			Pyran S, 6 mm	Schott	2875 × 1600	4.60	■	
30			Pyran ISO, 26 mm (6 - 12 - 4+4) **	Schott	1034 × 624	0.65		■
30			Pyran ISO, 27 mm (6 Pyran S - 12 - 9 laminated) **	Schott	2105 × 928	1.95		■
30			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	1600 × 3000	4.80		■
30			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	3000 × 1600	4.80		■
30			Pyrocet, 6 mm	C3S Securiglass	2875 × 1400	3.86	■	
30			Pyrodur, 10 mm	Pilkington	2000 × 1400	2.80	■	
60			Pyran S, 6 mm	Schott	2875 × 1400	3.86	■	
60			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	1600 × 2750	4.40		■
60			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	2750 × 1600	4.40		■
60			Pyroswiss Plus, 6 mm	Vetrotech	2000 × 1250	2.50	■	
60			Pyroswiss Extra, 6 mm	Vetrotech	2270 × 1320	3.00	■	
60			Pyroguard W (wired), 7.2 mm	CGI Int.	1442 × 995	1.16	■	
60			Georgian wired, 6.5 mm	CGI Int.	1500 × 1000	1.50	■	

** Fire glass to non fire side only, secondary glass may be float, laminated or toughened

Assessment no.	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
60			Pyrocel, 6 mm	C3S Securiglass	2558 × 1260	3.45	■	
60			Vetroflam, 6 mm	Vetrotech	1996 × 1109	2.21	■	
60			Swissflam-lite 7 mm or 9 mm	Vetrotech	1820 × 1250	2.27	■	
60			Pyrobel, 14 mm	AGC	2000 × 1300	2.60	■	
60			Pyrobel, 21 mm	AGC	792 × 1196	0.86	■	
90			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	2500 × 1500	3.75		■
120			Pyran ISO (6 to 8 Pyran S - 8 to 20 - 4 to 10 float) **	Schott	2300 × 1250	2.80		■
120			Pyran S, 6 mm	Schott	2300 × 1400	3.22	■	
120			Firelite, 5mm	TGP	2400 × 880	2.10	■	
30-120			Fire Panel, 2mm metal sheet, Promatect H 25 mm, 2 mm metal sheet					

Jansen-Economy 60 – Single acting, unlatched doorsets

Assessment no.	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
IFC - PAR/11746/01 (BS 476)								
30		Single doorsets	all below 0/30	handle side fixed to a rigid construction	2510 × 1220		■	■
30			all below 0/31	handle side fixed to a flexible construction	2750 × 1220		■	■
30		Double doorsets	all below 0/30	equal leaf sizes if both leaves unlatched	2860 × 2830		■	■

Assessed Fire-glasses and panels

Assessment no.	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
IFC - PAR/11746/01 (BS 476)								
30		Screens	Pyroswiss, 6 mm	Vetrotech	2500 × 1000		■	■
30		and doors	Pyroswiss, 6 mm	Vetrotech	2000 × 1400		■	■
30			Contraflam Lite, 13 mm	Vetrotech	2800 × 990		■	■
30			Contraflam Lite, 13 mm	Vetrotech	1200 × 2187		■	■
30			Pyrobel lite, 7 mm	AGC	1968 × 826		■	■
30			Pyrobel lite, 7 mm	AGC	1000 × 1673		■	■
30			Pyrobel lite, 12 mm	AGC	1900 × 700		■	■
30			Pyrobel lite, 12 mm	AGC	900 × 1700		■	■
30			Pyran S, 6 mm	Schott	2280 × 1210		■	■
30			Pyran S, 6 mm	Schott	1400 × 1981		■	■

** DGU's - Fire glass of listed glass types to non fire side only, secondary glass may be float, laminated or toughened

Jansen-Economy smoke doors



Doors Jansen-Economy 50 RS.

The Jansen-Economy 50 system, in steel and stainless steel, offers clear benefits in terms of technical safety and cost. The simple geometry of the profiles with a basic depth of 50 mm allows efficient fabrication of flush-fitted, single and double-leaf smoke doors in accordance with and EN 1634-3. A comprehensive range of tested, system-specific fittings and door handles in aluminium or stainless steel ensures the units are fabricated to the correct standards. Locks and fittings can be integrated easily into the hollow profile section.

Doors Jansen-Economy 60 RS.

A complete system for single and double-leaf door assemblies in accordance with DIN 18095; can also be used to manufacture large units with the customary narrow face widths. The system contains a comprehensive range of approved locks and fittings. The door closers integrated into the profile offer an attractive solution. As they can also be created cost-effectively with the Jansen-Economy 60 profile system, it is an attractive feature even for larger building components. Jansen-Economy 60 RS has also been tested as a burglar-resistant door in accordance with EN 1627 and classified in resistance class 3.



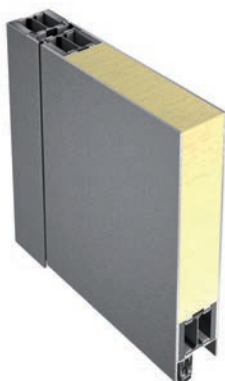
Smoke tested steel systems

Test report No. (EN 1634-3)	Tested System	Element type	Specification	max. glass size H × W (mm)
12-001472-PR2 - ift Rosenheim	Janisol 2 EI30	Double doorset	glazed doorset	3000 × 2700
28143773 - ift Rosenheim	Janisol 2 EI30	Single doorset	metal sheeted	2600 × 1400
28143774/1 - ift Rosenheim	Janisol 2 EI30	Double doorset	metal sheeted	2600 × 2780
28143774/4 - ift Rosenheim	Janisol 2 EI30	Double doorset	stainless steel, glazed	3000 × 2780
10-001056 - ift Rosenheim	Janisol 2 EI30	Single doorset	glazed doorset in VISS Fire	3000 × 1400
20070621 - iBMB Braunschweig	Janisol C4 EI90	Double doorset	glazed doorset - opening side	2500 × 2600
20070622 - iBMB Braunschweig	Janisol C4 EI90	Double doorset	glazed doorset - closing side	2500 × 2600
20070623 - iBMB Braunschweig	Janisol C4 EI90	Single doorset	glazed doorset - opening side	2500 × 1400
281 43806/1 - ift Rosenheim	Jansen-Economy 50	Double doorset	stainless steel, glazed - closing side	2750 × 2700
282 43806/3 - ift Rosenheim	Jansen-Economy 50	Double doorset	stainless steel, glazed - opening side	2750 × 2700

The test reports are send to official authorities if required. Please talk to your sales representative.



Janisol 2 EI30 fire-resistant doors and glazing



A thermally broken profile system for flush-fitted, single and double-leaf doors, fire-resistant glazing suitable for safety barrier loading and for doors in glass walls. The basic depth for door frames and door leaves is just 60 mm. Profiles with face widths of 25, 50 and 75 mm can be used for mullions and transoms. A continuous shadow joint inside and outside lends the construction a certain lightness and elegance with extremely narrow profile face widths.

A variety of brands of fire-resistant glazing can be used for infill units. A comprehensive range of fully tested fittings, locks, accessories and integrated door closers is also available. These can be integrated very easily into the hollow profile section. The appearance is co-ordinated to match that of all the other Jansen door systems.

Janisol 2 EI30 has many approval certificates. These are constantly being extended and improved in consultation with users and the building authorities. The many successfully tested system variations allow particularly cost-efficient, attractive and complex project solutions in line with objectives. Janisol 2 EI30 doors have been certified as burglar-resistant doors in accordance with EN 1627, rated in resistance class 3, and approved as smoke doors in accordance with DIN 18095 and EN 1634-3.

Sheet metal clad fire doors – for high design standards.

Janisol 2 EI30 sheet metal clad fire doors can be fabricated as single and double-leaf doors with or without glazed sections. The door leaf and outer frame profiles are flush-fitted and therefore lend the construction an elegant appearance. The system provides plenty of scope for creativity whether it is with glazed

side sections or toplights. Janisol 2 sheet metal clad fire doors are characterised not only by their appearance, but also by their simple and efficient fabrication. Smooth sheets can be welded or bonded, removing the need for complicated folding of the sheet metal. In addition, all Janisol 2 fittings can be used; vertical joint and horizontal safety bars are easy to attach.

EI30 Unlatched doors

Janisol 2 unlatched fire doors are particularly suitable for hospital, hotel, school and public space applications where heavy duty use is the norm but locking is not required. Special components are activated in the event of a fire causing the door to remain closed and provide a barrier to the heat and flames.

Made from tried and tested Janisol 2 steel sections and fittings these doors offer the advantages of full height glazing, 30 minute Integrity and Insulation and are available in single and double leaf formats. They may also be used in combination with side and top fixed glazing.

Where vision or light is not wanted the doors are available overlaid with 2 mm steel sheet.

Structural Glazing

For maximum transparency large fire rated structurally glazed partitions can also be constructed within the Janisol 2 system, with individual glass panes up to 3.5 m high x 1.5 m wide. Flush vertical silicone joints are achieved with minimal sightlines with a technically advanced glass, ensuring light and airy spaces with excellent light transmission and EI30 fire protection. Framed doors may be integrated into the glazed areas.



Janisol 2 – Steel glazed elements

Assessment no.	Insulation	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
CC 274805 (BS 476)									
30	30	30	Screens	all below 30/30	all below 30/30	4000 × unlimited		■	■
30	60	60		all below 30/60	all below 30/60	4000 × unlimited		■	■
30	30	30	Single doorsets	all below 30/30	Single mortise lock and top shoot bolt	3000 × 1370		■	■
30	30	30		all below 30/30	Without top shoot bolt	2500 × 1370		■	■
30	60	60		all below 30/60	Single mortise lock and top shoot bolt	2415 × 1010		■	■
30	30	30	Double doorsets	all below 30/30	Single mortise lock and top shoot bolt	3000 × 2640		■	■
30	30	30		all below 30/30	Without top shoot bolt	2500 × 2640		■	■
30	60	60		all below 30/60	Single mortise lock and top shoot bolt	2415 × 2045		■	■

Janisol 2 – Stainless Steel glazed elements

Assessment no.	Insulation	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
CC 274805 (BS 476)									
30	30	30	Screens	all below 30/30	all below 30/30	4000 × unlimited		■	■
30	60	60		all below 30/60	all below 30/60	4000 × unlimited		■	■
30	30	30	Single doorsets	all below 30/30	all below 30/30	2500 × 1300		■	■
30	60	60		all below 30/60	all below 30/60	2500 × 1300		■	■
30	30	30	Double doorsets	all below 30/30	all below 30/30	2500 × 2600		■	■
30	60	60		all below 30/60	all below 30/60	2500 × 2600		■	■

Janisol 2 – Full metal sheeted elements with variable glass shapes

Assessment no.	Insulation	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
CC 274805 (BS 476)									
30	30	30	Single doorsets	2 × 2,5 mm steel sheets, mineral wool 110 kg/m ³	multi-point lock (3 latches)	2500 × 1400		■	■
30	30	30	Double doorsets	2 × 2,5 mm steel sheets, mineral wool 110 kg/m ³	multi-point lock (3 latches)	2500 × 2600		■	■

Janisol 2 EI30 fire-resistant doors and glazing

Assessed Fire-glasses and panels

Assessment no.	Insulation	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
CC 274805 (BS 476)									
0	30			Pyroswiss	Vetrotech	2000 × 1200	2.40	■	
0	30			Fireswiss	Glas Trösch	2000 × 1200	2.40	■	
0	30			Pyroguard C, 7.2 mm	CGI Int.	1200 × 1200	1.44	■	
0	30			Georgian wired	CGI Int.	2000 × 1200	2.40	■	
0	30			Pyran S	Schott	2875 × 1600	4.60	■	
0	30			Pyrodur, 10 mm	Pilkington	2000 × 1200	2.40	■	
0	60			Pyroswiss Plus	Vetrotech	2000 × 1200	2.40	■	
0	60			Fireswiss	Glas Trösch	1450 × 1100	1.59	■	
0	60			Pyroguard W (wired), 7.2 mm	CGI Int.	1442 × 995	1.16	■	
0	60			Georgian wired	CGI Int.	1500 × 1000	1.50	■	
0	60			Pyran S	Schott	2875 × 1400	3.86	■	
0	60			Pyrocet	C3S Securiglass	2000 × 1200	2.40	■	
0	60			Pyrodur, 13 mm	Pilkington	2000 × 1200	2.40	■	
0	60			Vetroflam, 6 mm	Vetrotech	1996 × 1109	2.21	■	
0	60			Vetroflam (6 mm/ 10/ 6 mm toughened)	Vetrotech	2329 × 3288	5.42		■
30	30			Swissflam 30/1, >15 mm	Vetrotech	2200 × 1400	3.08	■	
30	30			Swissflam 30/1, >15 mm	Vetrotech	1250 × 2200	2.75	■	
30	30			Pyrostop 30-10/12, 15/17 mm	Pilkington	2200 × 1400	3.08	■	
30	30			Pyrostop 30-10/12, 15/17 mm	Pilkington	1250 × 2200	2.75	■	
30	30			Pyrostop 30-20, 18 mm	Pilkington	3000 × 1250	3.08	■	
30	30			Pyrostop 30-20, 18 mm	Pilkington	1250 × 2200	2.75	■	
30	30			Pyrostop 30-25/35 and 26/36, 32 mm/36 mm	Pilkington	2200 × 1250	2.75	■	
30	30			Pyrostop 30-25/35 and 26/36, 32 mm/36 mm	Pilkington	1250 × 2200	2.75	■	
30	30			Pyranova 30-S1, 16.5 mm	Schott	2200 × 1250	2.75	■	
30	30			Pyranova 30-S1, 16.5 mm	Schott	1250 × 2200	2.75	■	
30	30			Pyrobel, 17 mm	AGC	2836 × 1600	4.53	■	
30	30			Pyrobel, 17 mm	AGC	500 × 1872	0.93	■	
30	30			Pyrobel, 17 mm (Structure)	AGC	2810 × 1200	3.37	■	
30	30			Contraflam 30, 16 mm	Vetrotech	3000 × 1250	3.75	■	
30	30			Contraflam 30, 16 mm	Vetrotech	1250 × 2200	2.75	■	
30	30			Contraflam Structure, 28 mm	Vetrotech	3500 × 1800	6.30	■	
30	30			Contraflam Structure, 23 mm	Vetrotech	3000 × 1500	4.50	■	
30	30			Promaglas 30, type 1,3 and 5, 17 mm	Promat	2200 × 1250	2.75	■	
30	30			Promaglas 30, type 1,3 and 5, 17 mm	Promat	1250 × 2200	2.75	■	
30	30			Hero fire, 22 mm	Hero	1893 × 1503	2.84	■	
30	30			Hero fire, 22 mm	Hero	2868 × 1263	3.62	■	
30	30			Swissflam 30/1.. ISO	Vetrotech	2200 × 1250	2.75		■
30	30			Swissflam 30/1.. ISO	Vetrotech	1250 × 2200	2.75		■
30	30			Contraflam 30 ISO	Vetrotech	3000 × 1250	3.75		■
30	30			Contraflam 30 ISO	Vetrotech	1250 × 2200	2.75		■
30	30			Pyrobel ISO, DGU 37 mm	AGC	2935 × 1440	4.22		■
30	60			Swissflam 30/1, >15 mm	Vetrotech	2200 × 1400	3.08	■	
30	60			Pyrostop 30-10/12, 15/17 mm	Pilkington	2200 × 1400	3.08	■	
30	60			Pyrobel, 17 mm	AGC	2836 × 900	2.55	■	
30	60			Pyrobel, 17 mm	AGC	500 × 1872	0.93	■	
30	60			Pyrobel ISO, 16 mm	AGC	2214 × 750	1.66		■
30	30			Fire Panel (1 × 25 mm Promatect H, faced with 2 mm steel)				■	■

** DGU's - Fire glass of listed glass types to non fire side only, secondary glass may be float, laminated or toughened

Inside Application
Outside Application

Jansen-Janisol 2 – Single acting, unlatched doorsets

Assessment no.	Insulation	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m²		
IFC-PAR/11746/01 (BS 476)									
	30	30	Single doorsets	all below 30/30		2483 × 1200		■	■
	30	30	Double doorsets	all below 30/30	equal leaf sizes if both leaves unlatched	2483 × 2400		■	■

Inside Application
Outside Application

Assessed Fire-glasses and panels

Assessment no.	Insulation	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m²		
IFC-PAR/11746/01 (BS 476)									
	30	30	Screens	Pyrostop 30-10, 15 mm	Pilkington	500 × 1300		■	■
	30	30	and Doors	Pyrostop 30-10, 18 mm	Pilkington	3000 × 1400		■	■
	30	30		Contraflam 30	Vetrotech	2400 × 1400		■	■
	30	30		Swissflam 30	Vetrotech	2400 × 1400		■	■
	30	30		Pyrobel, 16 mm	AGC	2400 × 1400		■	■
	30	30		Pyranova 30	Schott	2800 × 1400		■	■



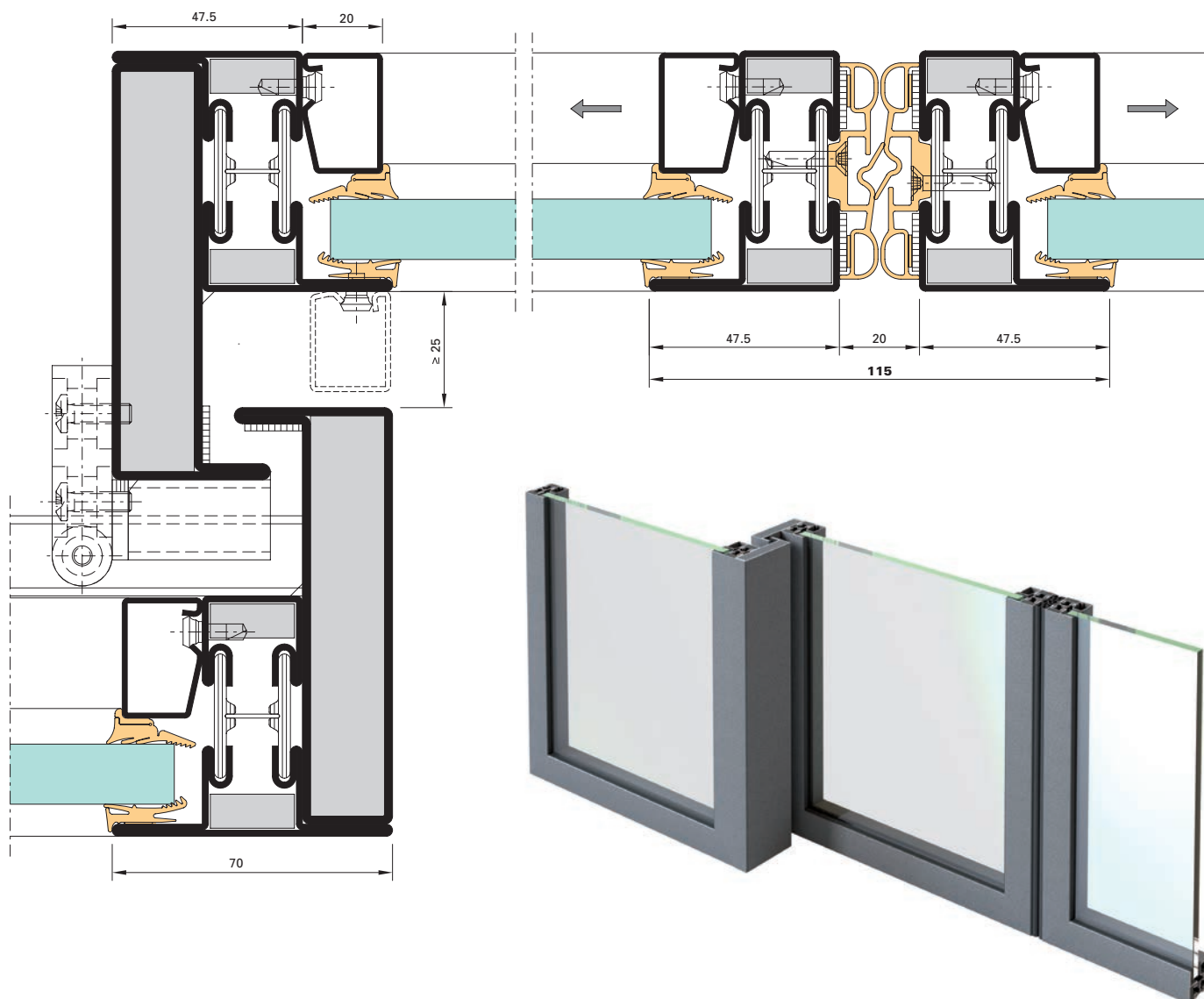
Janisol 2 EI30 fire-resistant sliding doors

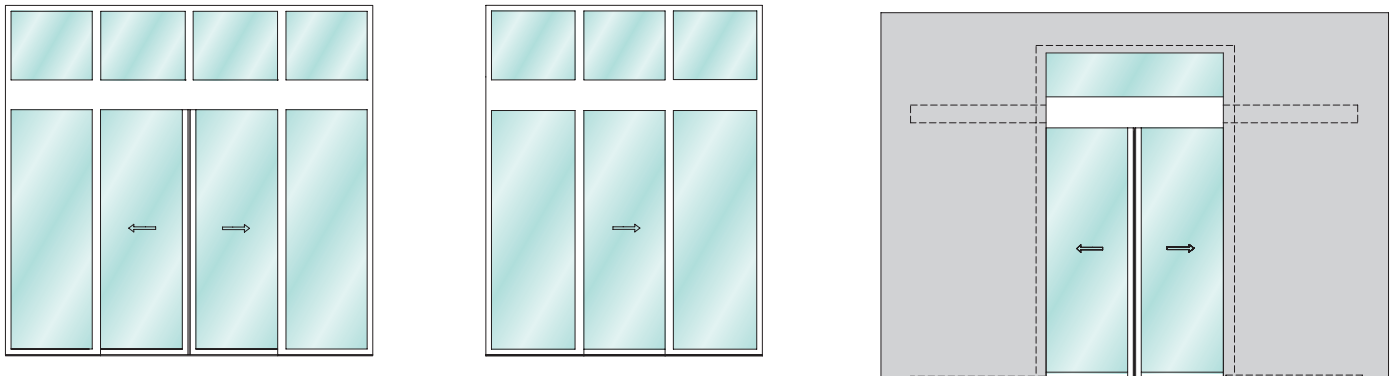
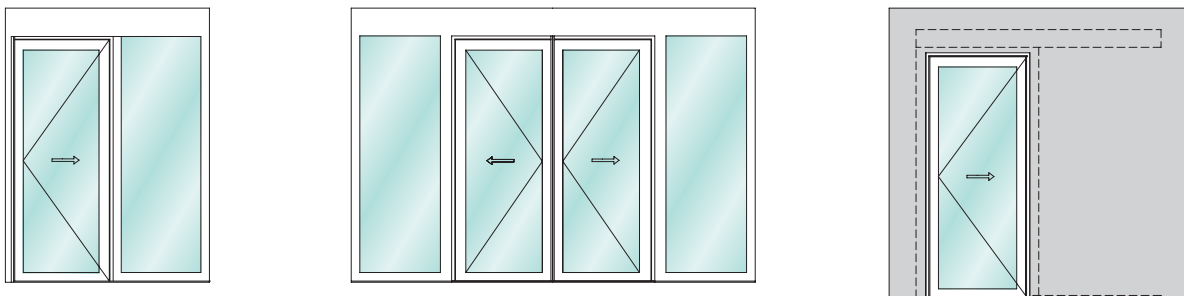


Extremely narrow profile with maximum safety features.

The Janisol 2 EI30 fire-resistant sliding door is used in busy buildings requiring easy access, such as shopping centres, stadia or offices. The automatic door system has been successfully tested to fire-resistance class EI30 in accordance with EN 1634 with and without integrated emergency exit function, as well as with a wide variety of motors, glass inserts and panels. The maximum vent

dimensions are 1400 × 2500 mm for single-vent constructions, and 2800 × 2500 mm for double-vent constructions. Door leaf and door frame profiles with a face width of 25 or 50 mm are currently the slimmest fire-resistant profiles on the market. A key benefit is simple and reliable fabrication, thanks to the new special profiles filled with ceramic compound for the outer and vent frames. Additional fire resistant panels are not required and there is no need for a floor guide in the entrance area.

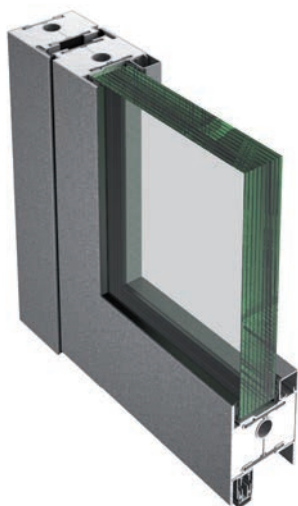


EI30 fire-resistant sliding doors**EI30 fire-resistant sliding doors with «Break-Out»/«Break-In» emergency exit function****Jansen-Janisol 2 sliding doorsets**

Assessment no.	Insulation	Integrity	Element tpye / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m²		
CC 286821 (BS 476)									
	30	30	Single leaf	all below 30/30		2500 × 1400		■	■
	30	30	Single leaf with hinged break out door	all below 30/30		2500 × 1250		■	■
	30	30	Double leaf	all below 30/30		2500 × 2800		■	■
	30	30	Double leaf with hinged break out door	all below 30/30		2500 × 2400		■	■
	30	30		Fireswiss Foam 30-15, 15 mm	Glas Trösch	2452 × 1430	3.50	■	
	30	30		Fireswiss Foam 30-19, 19 mm	Glas Trösch	2452 × 1430	3.50	■	
	30	30		Pyrostop 30-10,15 mm	Plikington	2452 × 1363	3.38	■	
	30	30		Pyrostop 30-10, 18 mm	Plikington	2452 × 1430	3.50	■	
	30	30		Pyrostop 30-25, 32 mm	Plikington	2452 × 1430	3.50	■	
	30	30		Pyrobel, 16 mm	AGC	2452 × 1041	2.55	■	
	30	30		Contraflam 30, 16 mm	Vetrotech	2452 × 1430	3.50	■	
	30	30		Pyranova 30 S2, 15 mm	Schott	2452 × 1430	3.50	■	
	30	30		Pyranova 30 S2, 19 mm	Schott	2452 × 1430	3.50	■	
	30	30		Fireswiss Foam 60-23 DGU, 42 mm	Glas Trösch	2452 × 1430	3.50		■

Inside Application
Outside Application

Janisol C4 EI60 and EI90 fire-resistant doors and glazing



Maximum fire protection.

Janisol C4 is a complete profile system for glazed single and double-leaf fire doors and glazing. The profiles with a basic depth of just 70 mm achieve security classifications up to EI90, due to the innovative fire-resistant infill panels. The profiles are filled with a ceramic fire board in the factory. This board forms a strong attachment to the steel profile, and is not adversely affected by fabrication steps, such as cutting or creating lock recesses.

Due to its chemical properties, the ceramic board does not affect the steel surface finish, even on contact with fluids. Consequently, rolled steel profiles can also be filled.

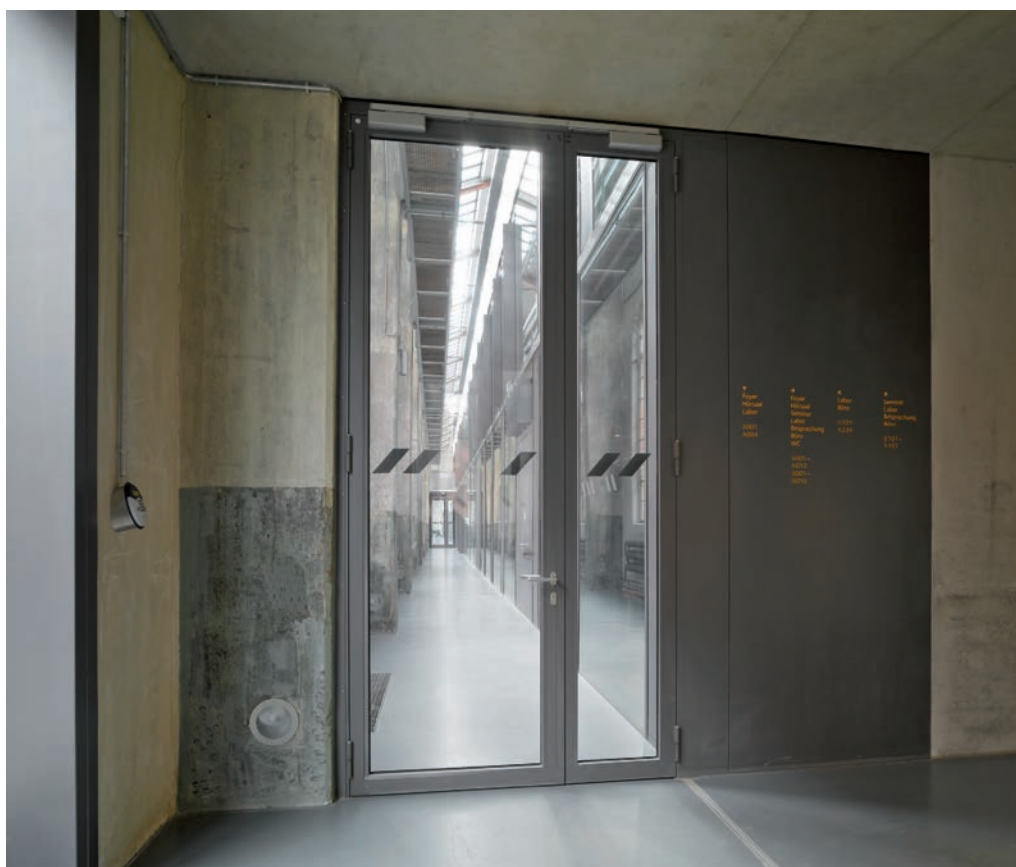
To simplify the wiring of the system (electric strikes, side-hung door drives), Janisol C4 profiles are fitted with a cable channel as standard.

The appearance of the Janisol C4 fire-resistant construction is identical to the other Jansen fire door assemblies and the thermally insulated Janisol systems.

Janisol C4 permits the use of particularly narrow outer frame profiles. The fabricator has recourse to a wide selection of various glass thicknesses and panels. Centre glazing is also possible. The profile range, fittings, accessories and fabrication aids are identical for EI60 and EI90. The only difference is the choice of glazing. The result is maximum efficiency in planning and storage, as well as in fabrication and installation.

Structural Glazing

For maximum transparency large fire rated structurally glazed partitions can also be constructed within the C4 system which offers a higher specification in terms of sizes and security. Individual glass panes up to 3.8 m high × 1.56 m wide are possible ensuring light and airy spaces with excellent light transmission and EI60 fire protection. Framed doors may be integrated into the glazed areas.



Janisol C4 – Steel glazed elements

Assessment no.	Insulation	Integrity	Element type / Glass type Material	Producer / Requirements	H × W (mm)	max. Area m ²	Inside Application	Outside Application
CC 278794 (BS EN 1634-1)								
	60	60	Screens	all below 60/60	4755 × unlimited		■	■
	90	90		all below 90/90	4755 × unlimited		■	■

Assessed Fire-glasses and panels

Assessment no.	Insulation	Integrity	Element tpye / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m²		
CC 278794 (BS EN 1634-1)									
	60	60	Screens	Pyrostop 60-101, 23 mm	Pilkington	850 × 1643	1.17	■	
	60	60	and doors	Pyrostop 60-101, 23 mm	Pilkington	3000 × 1430	4.29	■	
	60	60		Pyrostop 60-101, 23 mm	Pilkington	338 × 2778	0.94	■	
	60	60		Pyrostop 60-201, 27 mm	Pilkington	2909 × 790	1.93	■	
	60	60		Pyrostop 60-181 - DGU*	Pilkington	2837 × 1499	3.57		■
	60	60		Pyrostop 60-181 - DGU**	Pilkington	1796 × 1430	2.35		■
	60	60		Pyrobel, 26 mm*	AGC	2831 × 1200	3.40	■	
	60	60		Pyrobel, 30 mm	AGC	1508 × 1502	2.27	■	
	60	60		Pyrobel, 42 mm ISO*	AGC	2408 × 1498	3.03		■
	60	60		Pyrobel, 42 mm ISO**	AGC	2408 × 1498	3.03		■
	60	60		Contraflam Structure 60, 31 mm ^{1,2}	Vetrotech	3000 × 1500	4.33	■	
	60	60		Contraflam Structure 60, 33 mm ¹	Vetrotech	3500 × 1560	5.46	■	
	60	60		Contraflam Structure 60, 33 mm ²	Vetrotech	3438 × 1500	4.33		
	60	60		Contraflam Structure 60, 41 mm ¹	Vetrotech	3800 × 1560	5.90	■	
	60	60		Contraflam 60, 25 mm	Vetrotech	2500 × 1500	3.75	■	
	60	60		Contraflam 60, 26 mm	Vetrotech	3000 × 1500	4.50	■	
	60	60		Contraflam 60, 29 mm	Vetrotech	3500 × 1800	5.45	■	
	60	60		Contraflam 60, 35 mm	Vetrotech	3600 × 1800	5.45	■	
	60	60		Contraflam 60 , 41 mm Climaplus *	Vetrotech	2910 × 386	0.94		■
	60	60		Contraflam 60 , 41 mm Climaplus **	Vetrotech	2837 × 1082	2.58		■
	60	60		Contraflam 60 , 41 mm Climaplus *	Vetrotech	1811 × 1082	1.65		■
	60	60		Contraflam 60 , 41 mm Climaplus **	Vetrotech	1811 × 1082	1.65		■
	60	60		Contraflam 60 , 41 mm Climaplus *	Vetrotech	376 × 2454	0.77		■
	90	90		Pyrostop 90-102, 37 mm	Pilkington	1540 × 2750	3.87	■	
	90	90		Pyrostop 90-102, 37 mm	Pilkington	2500 × 1291	3.23	■	
	90	90		Contraflam 90, 40 mm	Vetrotech	2500 × 1500	3.75	■	
	90	90		Contraflam 90, 40 mm	Vetrotech	1500 × 2500	3.75	■	
	90	90		Contraflam 90, 43 mm	Vetrotech	3000 × 1500	4.50	■	
	90	90		Contraflam 90, 43 mm	Vetrotech	1500 × 2742	4.11	■	
	90	90		Contraflam 90, 48 mm	Vetrotech	3000 × 1800	4.54	■	
	90	90		Contraflam 90, 48 mm	Vetrotech	3300 × 1650	4.95	■	
	90	90		Contraflam 90, 48 mm	Vetrotech	1800 × 2742	4.15	■	
	90	90		Contraflam 90, 40 mm STADIP	Vetrotech	2500 × 1500	3.75	■	
	90	90		Contraflam 90, 43 mm STADIP	Vetrotech	3000 × 1500	4.50	■	
	90	90		Contraflam 90, 48 mm STADIP	Vetrotech	3600 × 1800	5.45	■	
	90	90		Contraflam 90, 56 mm Climaplus *	Vetrotech	3000 × 1500	4.50		■
	90	90		Contraflam 90, 64 mm Climaplus *	Vetrotech	3600 × 1800	5.45		■
	90	90		Pyrostop 90-182 * DGU	Pilkington	2663 × 1376	3.08		■
	90	90		Pyrobel, 49 mm ISO *	AGC	1508 × 940	1.42		■
	90	90		Pyrobel, 49 mm ISO **	AGC	1302 × 2502	3.26		■
	60	60		Fire Panel (36 mm plasterboard faced with 1 mm steel)		349 × 1498		■	■
	60	60		Fire Panel (36 mm plasterboard faced with 1 mm steel)		872 × 1081		■	■
	90	90		Fire Panel (45 mm Promatect H faced with 1 mm steel or Aluminium)		1394 × 742		■	■

¹ Individual panes of glass may be joined at vertical edges using silicon-bonded joints

* Laminated glass on fire side

² Individual panes of glass may be joined at 90° at vertical edges using silicon-bonded joints

** Fire resistant glass on fire side

Janisol C4 – Steel glazed doors

Assessment no.	Insulation	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m²	Inside Application	Outside Application
CC 278877 (BS EN 1634-1)									
60	60		Single doorsets	all below 60/60	Single mortise lock and top shoot bolt	2906 × 1598		■	■
90	90			all below 90/90	Single mortise lock and top shoot bolt	2889 × 1656		■	■
90	90			all below 90/90	Single mortise lock and top shoot bolt	3044 × 1426		■	■
60	60		Double doorsets	all below 60/60	Single mortise lock and top shoot bolt	2889 × 2930		■	■
90	90			all below 90/90	Single mortise lock and top shoot bolt	2889 × 2930		■	■

Assessed Fire-glasses and panels

Assessment no.	Insulation	Integrity	Element type / Material	Glass type	Producer / Requirements	H × W (mm)	max. Area m²	Inside Application	Outside Application
CC 278877 (BS EN 1634-1)									
60	60		Doors	Pyrostop 60-101, 23 mm	Pilkington	2873 × 1268	3.64	■	
60	60			Pyrostop 60-101, 23 mm	Pilkington	766 × 1430	1.00	■	
60	60			Pyrostop 60-181 - DGU**	Pilkington	2837 × 1499	3.57		■
60	60			Pyrobel, 26 mm	AGC	2408 × 869	1.76	■	
60	60			Pyrobel, 42 mm ISO**	AGC	2408 × 1498	3.03		■
60	60			Contraflam 60, 25 mm	Vetrotech	2500 × 1082	2.58	■	
60	60			Contraflam 60, 26 mm	Vetrotech	2777 × 1082	2.58	■	
60	60			Contraflam 60, 41 mm Climaplas	Vetrotech	2837 × 1082	2.58		■
90	90			Pyrostop 90-102, 37 mm	Pilkington	1155 × 619	0.62	■	
90	90			Contraflam 90, 43 mm	Vetrotech	3000 × 1320	3.03	■	
90	90			Contraflam 90, 40 mm	Vetrotech	2500 × 1320	3.03	■	
60	60			Fire Panel (36 mm plasterboard faced with 1 mm steel)		349 × 1498		■	■
60	60			Fire Panel (36 mm plasterboard faced with 1 mm steel)		872 × 1081		■	■
90	90			Fire Panel (45 mm Promatect H faced with 1 mm steel or Aluminium)		1394 × 742		■	■

** Fire resistant glass on fire side



Overview of burglar resistance classes – EN 1627

With Schüco Steel Systems Jansen burglar-resistant systems, an attractive appearance is retained irrespective of the security provided. This is because with these systems, the increased security is largely hidden. The innovative technology provides the user with long-term protection. The security classes are defined in accordance with EN 1627 by type of burglar, method of burglary, place, risk and recommendation.

Key features of security classes:

RC1

Building components offer basic protection against attempts to break in using body weight, such as kicking, flying kick, shoulder charge, lifting upwards and tearing out. These building components only offer limited protection against the use of lever tools.

RC2

Opportunist burglars also use simple tools like screwdrivers, pliers or hand axes to try to break into locked or bolted building components.

RC3

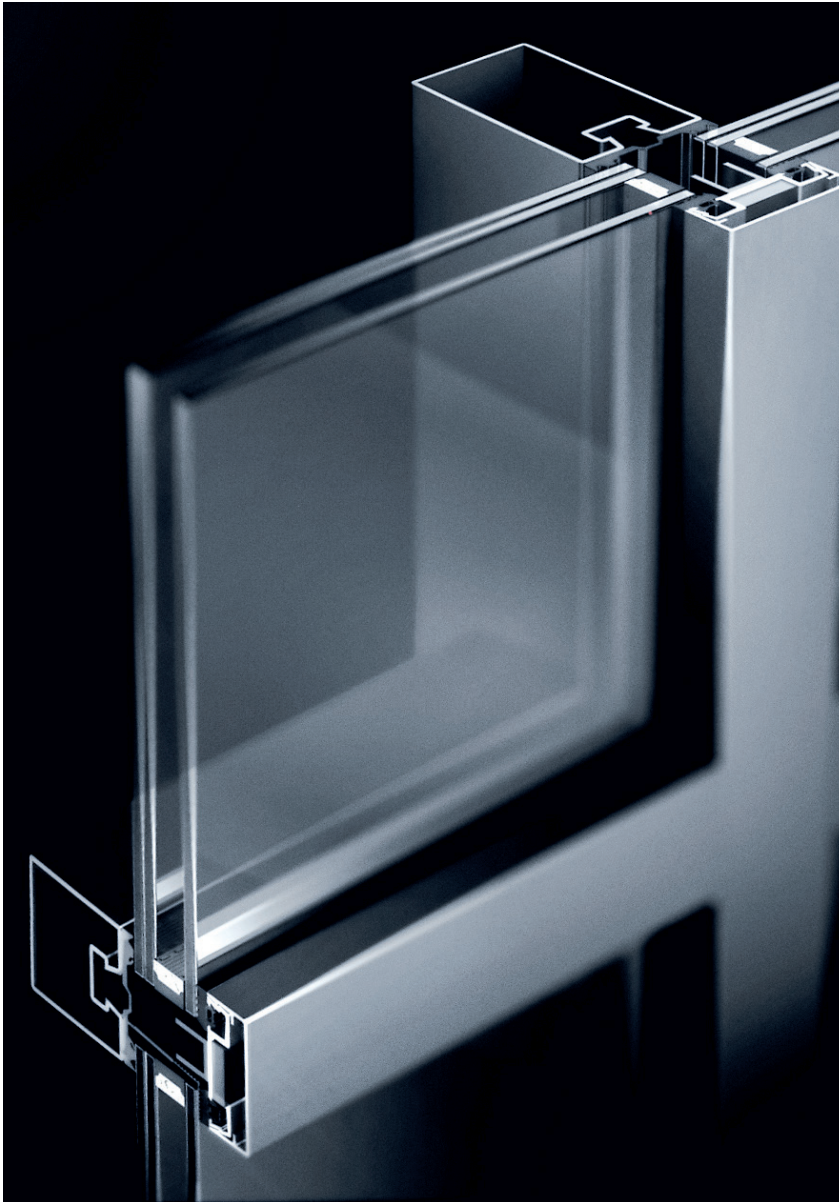
Burglars use a screwdriver and a crow-bar to try to break into locked and bolted building components.

Burglar resistance for windows and doors

There is a break-in every two minutes. In 70% of cases, windows and doors are simply levered out. This results in damage worth thousands of millions of pounds year after year. Not to mention the irretrievable loss of items of sentimental value or the physical and psychological damage that results from the use of violence. For this reason, Schüco Steel Systems Jansen already offer a high level of basic security as standard. The stability of the steel profiles together with the fabrication in accordance with fabrication and assembly guide-lines prevent units from being levered out quickly. The longer a unit resists an attempted break-in, the greater the chance of the burglar being noticed. Burglar-resistant windows, doors and façades up to RC3 from Schüco Steel Systems Jansen always mean comprehensively tested security. All individual components are perfectly matched to one another.

The doors have been tested for attack from either the hinge or non-hinge side. Therefore they can also be used for break-out resistance.





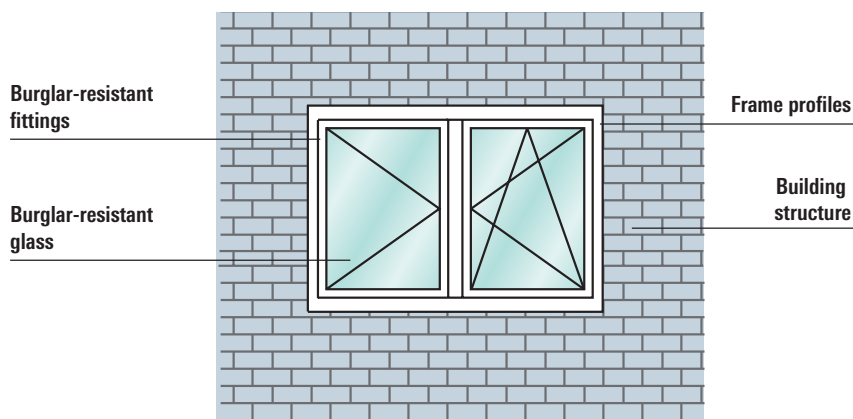
VISS RC3 – Burglar-resistant façades in accordance with EN 1627

By means of simple modifications to the Jansen-VISS system, we can now guarantee tested security up to RC3 in accordance with ENV 1627. This burglar-resistant façade system can be combined with the standard VISS façade and with VISS Fire. This allows for a uniform appearance, even where a façade construction has to satisfy various different requirements (thermal insulation, fire and burglar protection). VISS RC3 can also be used together with the feature load-bearing profiles „Linea“ and „Delta“.

VISS RC3 offers the following benefits:

- Identical appearance and same profile range as the standard façade
- No visible modifications
- Glass sizes from 500 × 500 mm up to an unlimited size
- Glass thicknesses up to 50 mm (standard is 24 to 32 mm)
- Can be combined with standard façades
- Installation of Janisol windows (RC2 and RC3)
- Installation of Janisol doors RC3)

The solution for increased security from Schüco Jansen Steel Systems has been designed with one key consideration in mind: the external look is retained because the protection mechanisms are integrated predominantly inside the units. This means that freedom for creativity in terms of shapes and colours is not impaired.



Standard Doors with burglar resistance

Opening type	Class (EN 1627)	Glass type or panel	Height × Width (mm × mm) max. clear opening size	Report No.	Janisol	Janisol Stainless Steel	Janisol 2	Janisol 2 Stainless Steel	Economy 60
Single leaf *	RC1N	EN 356-P4A	2240 × 1435	ift 212 19348 M/ 255 33884	■	■			
	RC2	EN 356-P4A	2240 × 1435	ift 212 19348 M/ 255 33884	■	■			
	RC3	EN 356-P6B	2240 × 1435	ift 212 19348 M/ 255 33884	■	■			
	RC3	EN 356-P6B **	2500 × 1443	ift 13-000552-PR05	■				
	RC1N	EN 356-P3A	2410 × 1370	ift 212 25835/ 212 25945/ 255 26489/ 255 33885			■	■	
	RC2	EN 356-P4A	2410 × 1370	ift 212 25835/ 212 25945/ 255 26489/ 255 33885			■	■	
	RC3	EN 356-P6B	2410 × 1370	ift 212 25835/ 212 25945/ 255 26489/ 255 33885			■	■	
	RC1N	EN 356-P3A	2500 × 1400	ift 212 25834/ 255 26489/ 255 33883					■
	RC2	EN 356-P4A	2500 × 1400	ift 212 25834/ 255 26489/ 255 33883					■
	RC3	EN 356-P6B	2500 × 1400	ift 212 25834/ 255 26489/ 255 33883					■
Double leaf *	RC1N	EN 356-P4A	2240 × 2525	ift 212 19348 M/ 255 33884	■	■			
	RC2	EN 356-P4A	2240 × 2525	ift 212 19348 M/ 255 33884	■	■			
	RC3	EN 356-P6B	2240 × 2525	ift 212 19348 M/ 255 33884	■	■			
	RC3	EN 356-P6B **	2500 × 2525	ift 13-000552-PR05	■				
	RC1N	EN 356-P3A	2410 × 2640	ift 212 25835/ 212 25945/ 255 26489/ 255 33885			■	■	
	RC2	EN 356-P4A	2410 × 2640	ift 212 25835/ 212 25945/ 255 26489/ 255 33885			■	■	
	RC3	EN 356-P6B	2410 × 2640	ift 212 25835/ 212 25945/ 255 26489/ 255 33885			■	■	
	RC1N	EN 356-P3A	2500 × 2820	ift 212 25834/ 255 26489/ 255 33883					■
	RC2	EN 356-P4A	2500 × 2820	ift 212 25834/ 255 26489/ 255 33883					■
	RC3	EN 356-P6B	2500 × 2820	ift 212 25834/ 255 26489/ 255 33883					■

Panic Doors with burglar resistance

Opening type	Class (EN 1627)	Glass type or panel	Height × Width (mm × mm) max. clear opening size	Report No.	Janisol	Janisol Stainless Steel	Janisol 2	Janisol 2 Stainless Steel	Economy 60
Single leaf *	RC3	EN 356-P8B (Polycarbonate)	2500 × 1435	ift 13-000552-PR05	■				
Double leaf *	RC3	EN 356-P8B (Polycarbonate)	2500 × 1435 (active leaf only)	ift 13-000552-PR05	■				

Windows with burglar resistance

Opening type	Class (EN 1627)	Glass type or panel	Height × Width (mm × mm) min. leaf dimension	Height × Width (mm × mm) max. leaf dimension	Report No.	Janisol	Janisol primo	Economy 50
Side hung *	RC1N	EN 356-P4A or laminated glass	1284 × 964	1765 × 1325	ift 211 17836/ 955 23 670	■	■	■
	RC2	EN 356-P4A	1284 × 964	1765 × 1325	ift 211 17836/ 955 23 670	■	■	■
	RC3	EN 356-P6B	1284 × 964	1765 × 1325	ift 211 17836/ 955 23 670	■	■	■
	RC3	EN 356-P6B	436 × 876	600 × 1205	PIV 23-2/07E		■	
Turn-Tilt *	RC1N	EN 356-P4A or laminated glass	1284 × 964	1765 × 1325	ift 211 17836/ 955 23 670	■	■	■
	RC2	EN 356-P4A	1284 × 964	1765 × 1325	ift 211 17836/ 955 23 670	■	■	■
	RC3	EN 356-P6B	1284 × 964	1765 × 1325	ift 211 17836/ 955 23 670	■	■	■
	RC3	EN 356-P6B	436 × 876	600 × 1205	PIV 23-2/07E		■	
Bottom hung *	RC3	EN 356-P6B	609 × 1569	837 × 2157	ift 255 33702		■	

VISS Façades with burglar resistance

Class (EN 1627)	Attack side	Glass type or panel	Height × Width (mm × mm) min. screens	Height × Width (mm × mm) max. screens	Report No.	VISS TV	VISS TVS	VISS Basic
RC1N ***	outside/ inside	EN 356-P4A	500 × 500	unlimited	ift 12-002489-PR01	■	■	■
RC2 ***	outside/ inside	EN 356-P5A	500 × 500	unlimited	ift 12-002489-PR01	■	■	■
RC3 ***	outside	EN 356-P6B	500 × 500	unlimited	ift 12-002489-PR01	■	■	■
RC3 ***	inside	EN 356-P5A	500 × 500	unlimited	ift 12-002489-PR01	■	■	■

* Also in combination with screens

** Doors can also be metal sheeted (2,5 mm Steel sheets on both sides required). Also in combination with bullet resistant glasses up to FB4.

*** Also in combination with Janisol windows and doors RC2/RC3

Bullet resistant doors, windows and façades



In the project business, in particular, there are sectors where bullet-resistant solutions are required in addition to protection against break-in, for example, at banks and insurance companies, post offices, government institutions, retail outlets and private residences. Schüco Jansen Steel Systems offer suitable systems for this area; and it goes without saying that all components of these systems are perfectly coordinated with one another and conform to the relevant security regulations. The maxim – increased protection must be unobtrusive – applies equally to bullet-resistant units. The heavy-weight, bullet-resistant constructions appear aesthetically the same as standard window, door or façade profiles, and are therefore seamlessly integrated into the building façade. In terms of the variety of design solutions, the bullet-resistant systems are on a par with the burglar-resistant systems. An impressive symbiosis of colour, form and function is achieved. Also FB7 solutions are available project specific. Please ask your sales representative.

Security class				
according to EN 1522	FB2	FB3	FB4	
Loading Weapon type				
Calibre	9 mm Luger	357 Magnum	44 Remington 357 Magnum	
Test distance m	5.0	5.0	5.0	
Tolerance m	± 0.5	± 0.5	± 0.5	
Security glass according to EN 1053	BR2 NS/S	BR3 NS/S	BR4 NS/S	

NS = Non-splintering or S = Splintering depending on choice of security glass

The following systems have been tested in accordance with EN 1522 and 1523:

Doors

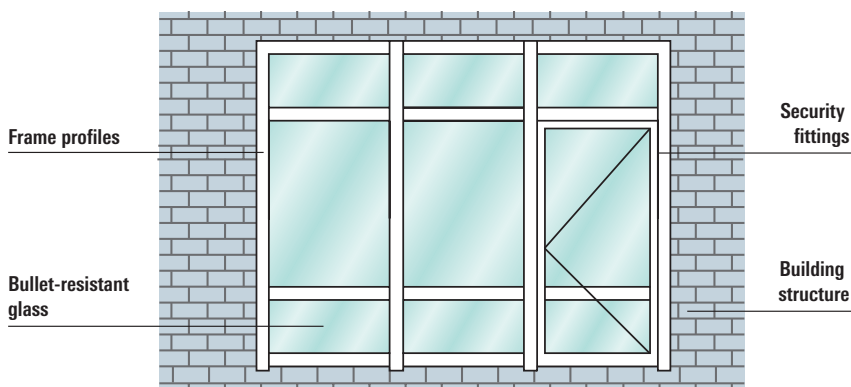
- Janisol (steel and stainless steel)
- Jansen-Economy 50
- Jansen-Economy 60

Windows

- Janisol (steel and stainless steel)
- Janisol Primo
- Jansen-Economy 50

Façades

- VISS TV
- VISS TVS



Schüco Jansen Steel Systems



In partnership with Jansen AG, Schüco offers solutions for façade, door and window technology as well as security and safety constructions from high quality steel tubes and steel profile systems both in Germany, and in other selected countries. In this way, Schüco is opening a new dimension in system expertise: architectural freedom, technological solutions for almost all requirements and efficient fabrication are ideally complemented.

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**Schüco: System solutions for windows,
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Together with its worldwide network of partners, architects, specifiers and investors, Schüco creates sustainable building envelopes which focus on people and their needs in harmony with nature and technology. The highest demands for design, comfort and security can be met, whilst simultaneously reducing CO₂ emissions through energy efficiency, thereby conserving natural resources. The company and its Metal, PVC-U and New Energies divisions deliver tailored products for newbuilds and renovations, designed to meet individual user needs in all climate zones. With more than 5,000 employees and 12,000 partner companies, Schüco is active in 78 countries and achieved a turnover of 1.8 billion euros in 2012.

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steel systems
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