

FIRESWISS FOAM FIRESWISS COOL	laminated / laminated safety glass DIN EN 14449	CE 07 EG-Referenz-Nr. der Zertifizierungsstelle: 0757
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Characteristic of FIRESWISS FOAM	FSF 15-11	FSF 15-12 O	FSF 15-15 VSG 6-2	FSF 15-16 O VSG 6-2
Resistance to fire	EI 20	EI 20	EI 20	EI 20
Reaction to fire	E	E	E	E
External fire performance	NPD	NPD	NPD	NPD
Bullet resistance	NPD	NPD	NPD	NPD
Explosion resistance	NPD	NPD	NPD	NPD
Burglar resistance	NPD	NPD	NPD	NPD
Pendulum body impact resistance	2(B)2	2(B)2	NPD	NPD
Resistance against sudden temperature changes and temperature differentials (K)	40	40	40	40
Wind, snow, permanent and imposed load resistance (mm)	11	12	15	16
Direct airborne sound insulation (dB)	32 (-1;-3)	NPD	NPD	NPD
Thermal properties (W/m ² K)	5.7	5.7	5.6	5.6
Radiation properties (EN 410)				
Light transmittance: τ_v	0.87	NPD	0.86	NPD
Light reflectance: ρ_v	0.09	NPD	0.08	NPD
Solar direct transmittance: τ_e	0.68	NPD	0.63	NPD
Solar direct reflectance: ρ_e	0.07	NPD	0.07	NPD

NPD = no performance determined

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Characteristic of FIRESWISS FOAM	FSF 30-15	FSF 30-160	FSF 30-19 VSG 6-2	FSF 30-19 VSG 10-8	FSF 30-19 VSG 6-2SC	FSF 30-19 VSG 10-2SC	FSF 30-19 VSG 10-4SC	FSF 30-200
Resistance to fire	EI30	EI30	EI30	EI30	EI30	EI30	EI30	EI30
Reaction to fire	E	E	E	NPD	E	E	NPD	E
External fire performance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Bullet resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Explosion resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Burglar resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Pendulum body impact resistance	1(B)1	1(B)1	1(B)1	1(B)1	1(B)1	1(B)1	1(B)1	1(B)1
Resistance against sudden temperature changes and temperature differentials (K)	40	40	40	40	40	40	40	40
Wind, snow, permanent and imposed load resistance (mm)	15	16	19	25	19	22	23	20
Direct airborne sound insulation (dB)	38(-1;3)	NPD	39(-1;-3)	40(-1;-3)	40(0;-3)	41(0;-3)	43(-1;-3)	NPD
Thermal properties (W/m ² K)	5.6	5.6	5.4	5.4	5.4	5.4	5.4	5.4
Radiation properties (EN 410)								
Light transmittance: τ_v	0.85	NPD	0.84	NPD	NPD	NPD	NPD	NPD
Light reflectance: ρ_v	0.08	NPD	0.08	NPD	NPD	NPD	NPD	NPD
Solar direct transmittance: τ_e	0.63	NPD	0.57	NPD	NPD	NPD	NPD	NPD
Solar direct reflectance: ρ_e	0.07	NPD	0.06	NPD	NPD	NPD	NPD	NPD

NPD = no performance determined

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Characteristic of FIRESWISS FOAM	FSF 60-23	FSF 60-24O	FSF 60-27	FSF 60-28	
Resistance to fire	EI60	EI60	EI60	EI60	
Reaction to fire	E	E	E	E	
External fire performance	NPD	NPD	NPD	NPD	
Bullet resistance	NPD	NPD	NPD	NPD	
Explosion resistance	NPD	NPD	NPD	NPD	
Burglar resistance	NPD	NPD	NPD	NPD	
Pendulum body impact resistance	1(B)1	1(B)1	1(B)1	1(B)1	
Resistance against sudden temperature changes and temperature differentials (K)	40	40	40	40	
Wind, snow, permanent and imposed load resistance (mm)	23	24	27	28	
Direct airborne sound insulation (dB)	NPD	NPD	NPD	NPD	
Thermal properties (W/m ² K)	5.3	5.3	5.1	5.1	
Radiation properties (EN 410)					
Light transmittance: τ_v	0.82	NPD	0.81	NPD	
Light reflectance: ρ_v	0.08	NPD	0.08	NPD	
Solar direct transmittance: τ_e	0.56	NPD	0.51	NPD	
Solar direct reflectance: ρ_e	0.06	NPD	0.06	NPD	

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Characteristic of FIRESWISS FOAM	FSF 90-39	
Resistance to fire	EI 90	
Reaction to fire	E	
External fire performance	NPD	
Bullet resistance	NPD	
Explosion resistance	NPD	
Burglar resistance	NPD	
Pendulum body impact resistance	NPD	
Resistance against sudden temperature changes and temperature differentials (K)	40	
Wind, snow, permanent and imposed load resistance (mm)	39	
Direct airborne sound insulation (dB)	NPD	
Thermal properties (W/m ² K)	4.8	
Radiation properties (EN 410)		
Light transmittance: τ_v	0.80	
Light reflectance: ρ_v	0.08	
Solar direct transmittance: τ_e	0.51	
Solar direct reflectance: ρ_e	0.06	

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Characteristic of FIRESWISS COOL	FSC 30-7	FSC 30-7 2B2	FSC 30-11	FSC 30-11L	FSC 30-15
Resistance to fire	EW30	EW30	EW30	EW30	EW30
Reaction to fire	E	E	E	E	E
External fire performance	NPD	NPD	NPD	NPD	NPD
Bullet resistance	NPD	NPD	NPD	NPD	NPD
Explosion resistance	NPD	NPD	NPD	NPD	NPD
Burglar resistance	NPD	NPD	NPD	NPD	NPD
Pendulum body impact resistance	3(B)3	2(B)2	2(B)2	1(B)1	1(B)1
Resistance against sudden temperature changes and temperature differentials (K)	40	40	40	40	40
Wind, snow, permanent and imposed load resistance (mm)	7	9	11	11	15
Direct airborne sound insulation (dB)	32 (-1;-3)	32 (-1;-3)	32 (-1;-3)	36 (-1;-2)	38 (-1;-3)
Thermal properties (W/m ² K)	5.9	5.9	5.7	5.7	5.6
Radiation properties (EN 410)					
Light transmittance: τ_v	0.89	NPD	0.87	0.88	0.86
Light reflectance: ρ_v	0.08	NPD	0.09	0.08	0.08
Solar direct transmittance: τ_e	0.75	NPD	0.68	0.67	0.63
Solar direct reflectance: ρ_e	0.07	NPD	0.07	0.07	0.07

NPD = no performance determined