

# Yangin

*Camları*

**A / E / EW / EI**

SINIFI : EN 13501-2 YANGIN TESTİ : EN 1363-1, EN 1364-1

30  
60  
90  
120

**INTERVER**  
Fire Protection Glass

**INTERFLAM® E/EW**  
**INTERFIRE® EI**

**INTERVER** products **INTERFLAM®** and **INTERFIRE®** offer a combination of fire protection and excellent safety characteristics with a fire resistance time of up to 120 minutes. Benefits include:

- Large scale transparency in buildings
- Can be combined with other functional glasses
- Approved pane sizes over 7 m<sup>2</sup>
- Application in all fire resistance classes E, EW and EI
- CE marked products of highest quality



**Innovation**

**Expertise**

**Vision**

**Transparency**

**Safety**

**Quality**



**News from INTERVER**

**INTERVER** has its own full scale fire test furnace at the size of 3000 x 3000 mm which is used daily for the development of their trend setting product technologies but is also made available to system partners for joint development projects.

## **INTERFLAM® E/EW**



The product group **INTERFLAM®** covers applications of the class E 30 either as single glass in thickness from 5 mm on, or as laminated glass and double glazing. **INTERFLAM® E** is mainly for applications in steel frame systems.

There are two available options for applications in the class EW

- One side coated **INTERFLAM® EW** – 6 mm for applications up to 60 minutes with the extra benefit of reduction in radiation.
- **INTERFLAM® EW** > 10 mm using the highly transparent **INTERVER** interlayer between panes of toughened or laminated glass to provide up to 120 minutes fire resistance plus protection from radiated heat.

## **INTERFIRE® EI**

The product group **INTERFIRE®** is used as fire protection glazing in buildings where a total heat shielding function is required. Again using the transparent **INTERVER** interlayer between toughened, float and laminated glass **INTERFIRE® EI** provides up to 120 minutes fire protection plus protection against heat transfer.

All **INTERFIRE® EI** glasses can be combined with other functional glass for either internal applications or in facades to meet additional requirements of safety, sound control, thermal control, solar control or decoration.

**INTERFLAM® EW** and **INTERFIRE® EI** are widely tested to European standards and other national standards and have approvals for installation in a variety of steel frame types plus timber and aluminium systems.



## INTERVER Fire protection and safety glass – product range **INTERFLAM® E** and **INTERFLAM® EW**

### Basic Standards:

Fire tests in accordance with national norms and EN Standard EN 1363/1364 as well as certificates according EN 13501-2. Detailed information about tested sizes and frames systems in each country are available on our actual element overview.

	Thickness of glass (mm)	Thickness of element (mm)	Spacer (mm)	Lightransmission in %	G-Value in %	b-factor (shading coefficient)	Soundreduction in dB	U-Value in W/m <sup>2</sup> K	max. size of production in cm	min. size of production in cm	weight in kg/m <sup>2</sup>
<b>Single glass</b>											
<b>INTERFLAM E</b>	5	5	-	90	86	0,98	28	5,8	200 x 355	25 x 35	12,5
	6	6	-	89	85	0,97	30	5,8	200 x 355	25 x 35	15,0
	8	8	-	88	85	0,96	32	5,8	200 x 355	25 x 35	20,0
	10	10	-	88	84	0,93	34	5,8	200 x 355	25 x 35	25,0
	12	12	-	87	80	0,93	35	5,8	200 x 355	25 x 35	30,0
<b>INTERFLAM EW</b>	6	6	-	83	75	0,86	30	3,6	200 x 355	25 x 35	15,0
<b>Laminated glass</b>											
<b>INTERFLAM E</b>	5 / 5	10,8	-	86	76	0,87	35	5,8	160 x 320	25 x 35	25,0
	6 / 6	12,8	-	86	75	0,86	38	5,8	160 x 320	25 x 35	30,0
<b>INTERFLAM EW</b>	6 / 6	12,8	-	70	68	0,78	38	3,6	160 x 320	25 x 35	30,0
<b>Sealed units</b>											
<b>INTERFLAM E</b>	6 / 6	≥ 20	≥ 8	82	75	0,86	33	3,0	180 x 355	25 x 35	30,0
	6 / 8	≥ 22	≥ 8	81	74	0,84	33	3,0	180 x 355	25 x 35	35,0
	6 / 10	≥ 24	≥ 8	80	71	0,82	35	3,0	180 x 355	25 x 35	40,0
<b>INTERFLAM EW</b>	6 / 6	≥ 20	≥ 8	75	72	0,82	33	1,8	180 x 355	25 x 35	30,0

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### CE-Marking:

All **INTERFLAM®** and **INTERFIRE®** glasses are CE-certified by ctcm / Notified Body 1166.

## INTERVER Fire protection and safety glass – product range **INTERFLAM® EW** and **INTERFIRE® EI**

### Basic Standards:

Fire tests in accordance with national norms and EN Standard EN 1363/1364 as well as certificates according EN 13501-2. Detailed information about tested sizes and frames systems in each country are available on our actual element overview.

	Thickness of glass (mm)	Thickness of element (mm)	Interlayer (mm)	Spacer (mm)	Lighttransmission in %	G-Value in %	Soundreduction in dB	U-Value in W/m <sup>2</sup> K	max. size of production in cm	min. size of production in cm	weight in kg/m <sup>2</sup>
<b>Single compound</b>											
<b>INTERFLAM EW 30/10</b>	4 / 4	10	2	–	88	74	35	5,8	200 x 300	25 x 35	23,0
<b>INTERFLAM EW 120/13</b>	5 / 5	13	3	–	88	74	37	5,8	200 x 300	25 x 35	29,0
<b>INTERFLAM A0</b>	5 / 5	13	3	–	88	74	37	5,8	200 x 300	25 x 35	29,0
<b>INTERFIRE EI 30/16</b>	5 / 5	16	6	–	87	73	38	5,0	200 x 300	25 x 35	34,0
<b>INTERFIRE EI 60/24</b>	5 / 4 / 5	24	5	–	86	69	42	5,0	150 x 280	25 x 35	52,0
<b>INTERFIRE A60</b>	5 / 5 / 5	25	5	–	86	69	42	5,0	150 x 280	25 x 35	54,5
<b>INTERFIRE EI 90/32</b>	5 / 8 / 5	33	7	–	82	63	43	5,0	150 x 250	25 x 35	68,0
<b>INTERFIRE EI 120/47</b>	5 / 8 / 8 / 5	47	7	–	76	57	46	5,0	150 x 250	25 x 35	98,0
<b>Sealed units</b>											
<b>INTERFLAM EW 120/13</b>	5 / 5 / 6	31	3	12	77	62	38	1,3	200 x 300	25 x 35	43,0
<b>INTERFIRE EI 30/16-2</b>	5 / 5 / 6	34	6	12	76	61	39	1,3	200 x 300	25 x 35	47,0
<b>INTERFIRE EI 60/15-3</b>	5 / 4 / 5 / 6	42	5	12	75	57	43	1,3	150 x 280	25 x 35	65,0
<b>INTERFIRE EI 90/32</b>	5 / 8 / 5 / 6	51	7	12	73	51	47	1,3	150 x 250	25 x 35	82,0

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### CE-Marking:

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## SWITZERLAND

VKF, CH - Bern

EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
BZU Z 11480	Forster Presto, Norm	INTERFLAM E	R 30	Single	6	Amax 2,6 m <sup>2</sup> Hmax 2970
BZU Z 17404	Forster door 1 leaf Presto	INTERFLAM E	E 30	Single	6	Amax 2.0 m <sup>2</sup> Lmax 1760
BZU Z 11481	Forster Presto, Norm	INTERFLAM E	R 30	Laminated	2 x 6	Amax 2,1 m <sup>2</sup> Hmax 2970
BZU Z 11482	Forster Presto, Norm	INTERFLAM E	R 30	DG Combi	6 / 8 / 6	Amax 2,2 m <sup>2</sup> Hmax 1986
BZU Z 13016	Hard wood	INTERFLAM EW	E 30	DG	6/8/6	Amax 2,2 m <sup>2</sup>
BZU Z 13018	Forster Presto, Norm	INTERFLAM E	E 30	Single	10	Amax 4.62 m <sup>2</sup>
				Single	12	Amax 5.62 m <sup>2</sup> Hmax 3150
BZU Z 14449	Jansen Janisol 2	INTERFLAM EW	E 60	Single 13-2	13	Amax 2.6 m <sup>2</sup> Hmax 2310
BZU Z 15418	Hard wood	INTERFLAM EW	E 60	Single 13-2	13	Amax 2.6 m <sup>2</sup> Hmax 3000
BZU Z 15417	Forster Presto, Norm	INTERFLAM EW	E 60	Single 13-2	13	Amax 2.6 m <sup>2</sup>
						Hmax 3000
BZU Z 15173	Forster Fuego	INTERFIRE EI	EI 30	Single 16-2	16	Amax 3,7 m <sup>2</sup> Hmax 2615
BZU Z 15174	Forster Fuego	INTERFIRE EI	EI 30	Single 16-2	16	Amax 2,6 m <sup>2</sup> Hmax 2315
BZU Z 15175	Forster Fuego	INTERFIRE EI	EI 30	Single 26-2	16	Amax 2,6 m <sup>2</sup> Hmax 2315
BZU Z 15416	Hard wood	INTERFIRE EI	EI 60	Single 15-3	24	Amax 2,6 m <sup>2</sup>

## GERMANY

DIBT, D - Berlin

DIN 4102, Teil 1 / EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
Z 19.14-1385	Steel	INTERFLAM E	G 30	Single	6	1200 x 2200
				Laminated	2 x 6	1200 x 2200
Z 19.14-1436	Steel	INTERFLAM E	G 30	Single	6	1800 x 1300
				Laminated	2 x 6	1462 x 1466
Z 19.14-1406	Steel	INTERFLAM E	G 30	DG Combi	6 / 8 / 6	1200 x 1800
Z 19.14-1480	Steel	INTERFLAM E	G 30	Single	8	1200 x 2200
				Single	10	1600 x 2850
Z 19.14-1511	Hard wood	INTERFLAM EW	G 30	DG	6/8/6	1200 x 1800

## GERMANY

ift Rosenheim, Brandschutzzentrum, D-Nürnberg

EN 1363 / 1364

Test report	Frame system	Product	Class	Type	Thickness	Dimension
271 29454	Parawall 105-35-10	INTERFLAM E	E 30	Single	10	1606 x 2887
271 35263	RP-Technik Iso-Hermetic	INTERFIRE EI 90	EI 90	Single	33	1500 x 2834
271 35264	Forster Fuego light	INTERFIRE EI 60	EI 60	Single	24	1385 x 2835
271 35924	RP-Technik Iso-Hermetic	INTERFIRE EI 90	EI 90	Single	33	2834 x 1500
271 36409	Forster Presto	INTERFLAM EW /13	EW 60 E 120	Single	13	2585 x1485
271 36410	Forster Presto	INTERFLAM EW /10	EW 30	Single	10	2585 x 1485
271 36825	Jansen Economy	INTERFLAM EW /13	EW 60	Single	13	2414 x 3914
271 36826	Wood	INTERFIRE EI 60	EI 60	Single	24	1286 x 2486
271 37090	Wood	INTERFIRE EI 30	EI 30	Single	18	1495 x 2495
271 41119	Forster Door 2 leaf	INTERFIRE EI 60	EI 60	Single	25	761 x 2329
271 41120	Forster Fuego light	INTERFIRE EI 60	EI 60	Single	25	1284 x 2284

## DENMARK

DIFT, DK - Hvidovre

DS - EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension		
	Forster Jansen RP-Technik	INTERFLAM E	F 30	Single	5	1200 x 2000		
					6	1200 x 2200		
					8	1600 x 2850		
					10 + 12	1770 x 3150		
				Laminated	2 x 6	1200 x 2200		
				DG Combi	6 / 8 / 6	1200 x 1800		
				INTERFLAM EW	F 30	Single	6	2800 x 2800
						Laminated	2 x 6	2000 x 2400
						DG	6/8/6	1200 x 1800
					F 60	Single	6	1100 x 1500
	Laminated	2 x 6	900 x 1400					
	DG	6 / 8 / 6	1100 x 1900					
	F 120	Single 13-2	13	1200 x 2200				
	Hard wood	INTERFLAM EW	F 30	Single	6	1200 x 1800		
				DG	6 / 8 / 6	3500 x 2500		
			F 90	Single 13-2	13	1200 x 2200		
Forster Fuego	INTERFIRE EI	BD/BS 3	Single 16-2	16	1197 x 2197			
			Single 26-2	16	1197 x 2197			
		BD/BS 6	Single 15-3	24	1200 x 2200			
Hard wood		BD/BS 6	Single 15-3	24	1200 x 2200			

## FINLAND

Ministry of Environment, FIN - Valtioneuvosto

EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
YM 68/6221/2004	Jansen, Forster RP-Technik	INTERFLAM E	E 30	Single	5	1200 x 2000
					6	1400 x 2100
					10	1600 x 2850
				Laminated	2 x 5	1204 x 2004
				Laminated	2 x 6	1202 x 2202
DG	6 / 8 / 6	1300 x 1800				
YM 67/6221/2004	Jansen, Forster, RP-Technik Hard wood	INTERFLAM EW	E 30	Single	6	1200 x 2200
				Laminated	2 x 6	1200 x 2200
		INTERFLAM EW	E 60	DG	6 / 8 / 6	1298 x 1800
				E 30	DG	6 / 8 / 6
YM 161/6221/2004	Forster - Fuego Hard wood	INTERFIRE EI	EI 30	Single 16-2	16	1200 x 2200
				Single 26-2	16	1200 x 2200
YM 46/6221/2005	Forster - Fuego Wrightstyle Hard wood	INTERFIRE EI	EI 60	Single 15-3	24	1500 x 2800
					24	1200 x 2200

## FRANCE

CTICM, F-Metz

Arrêté du 22.03.2004 / EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
PV 99-V-496	Forster - Presto, Norm	INTERFLAM E	PF 1/2	Single	6	1480 x 1970
PV 00-V-008	RP-Technik	INTERFLAM EW	PF 1	Single	6	1500 x 1990
				DG	6 / >6 / div.	1000 x 1710
PV 00-V-055	Forster Presto, Norm	INTERFLAM E	PF 1/2	Single	6	1785 x 1010
				Laminated	2 x 6	930 x 1770
PV 00-V-117	Jansen Economy	INTERFLAM EW	PF 3/4	Single	6	1930 x 1090
				Laminated	2 x 6	1080 x 1980
PV 00-V-372	Forster - Presto, Norm	INTERFLAM E	PF 1/2	DG	6 / 8 / 6	1200 x 1800
TR 01-V-434	Hard wood	INTERFLAM E	E 20	Single	6	1200 x 1800
TR 01-V-453 PV 00-V-469	Hard wood Hard wood	INTERFLAM EW INTERFLAM EW	EW 45 PF 3/4	DG DG	6 / 8 / 6	1200 x 1800
					6 / 8 / 6	1200 x 1800
					6 / 8 / 33.2	1200 x 1800
					6 / 8 / 44.2	1200 x 1800
PV 01-V-030	Hard wood	INTERFLAM EW	PF 3/4	Single	6	1200 x 1800
PV 01-V-135	Forster Presto, Norm	INTERFLAM E	PF 1/2	Single	10	1770 x 3150
					8	1600 x 2850
					12	1770 x 3150
PV 01-V-197	Forster Presto, Norm	INTERFLAM EW	PF 1/2 PF 3/4	Single	6	1770 x 3150
					6	1600 x 2850
PV 01-A-303	Jansen Economy	INTERFLAM EW	PF 1 PF 3/4	DG DG	6 / >6 / div.	1000 x 1710
					6 / >6 / div.	1100 x 1900

# FRANCE

CTICM, F-Metz

Arrêté du 22.03.2004 / EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
PV 01-V-330	Jansen Economy	INTERFLAM EW shapes	PF 1	DG	6 />6 /div.	1668 x 1122
			PF 3/4			1835 x 1235
PV 02-A-077	Forster Door 1 leaf	INTERFLAM E	PF 1/2	Single	5, 8, 10, 12	880 x 2010
PV 02-A-078	Forster Door 2 leaf	INTERFLAM E	PF 1/2	Single	5, 8, 10, 12	1090 x 2010
PV 02-A-075	Forster Door 1 leaf	INTERFLAM EW	PF 1	Single	6	1000 x 2010
PV 02-A-076	Forster Door 2 leaf	INTERFLAM EW	PF 1	Single	6	1000 x 2010
PV 02-A-137	Jansen Door 1 leaf	INTERFLAM EW	PF 1/2	Single	6	1199 x 2123
PV 02-A-138	Jansen Door 2 leaf	INTERFLAM EW	PF 1/2	Single	6	1199 x 2123
PV 02-A-312	Forster façade	INTERFLAM EW / E	PF 1/2	DG	6 / 12 / 10	675 x 1600
PV 02-V-025	Smoke screen	INTERFLAM E	PF 1/4	Single	6	850 x 2200
PV 02-V-136	Hard wood	INTERFLAM EW shapes	PF 1/2	Single	6	1535 x 3135 3135 x 1535
				Laminated	> 9	
				DG	6 />6 /div.	
PV 02-V-444	Forster Presto, Norm	INTERFLAM E with screen print	PF 1/2	Single	6	1980 x 1430
				Laminated	2 x 6	1610 x 1610
PV 03-V-100	Hard wood	INTERFLAM EW	PF 3/4	DG	6 / 12 / 6	1676 x 2190
			PF 1/2	DG	6 / 12 / 6	1844 x 2409
PV 03-V-139	Bieber Window (Hard wood)	INTERFLAM EW	PF 1/2	DG	6 / 8 / 6	790 x 1980 790 x 560
PV 03-V-308	Jansen façade	INTERFLAM EW	PF 1/2	DG	6/ 8/ 55.2	1230 x 1985
PV 03-V-346	Jansen façade	INTERFLAM EW	PF 1/2	DG	6/ 8/ 55.2	1120 x 1805
PV 03-G-381	Forster Presto Norm	INTERFLAM E	PF 1/2	Single	10	3090 x 1050
		INTERFLAM EW	PF 1/2	Laminated	2 x 6	1500 x 2590
PV 03-V-417	Forster	INTERFIRE EI	CF 1/2	Single 16-2	16	1200 x 2200
PV 04-V-091	Forster Door 1 leaf	INTERFLAM E	PF 1/2	Single	6	1160 x 1780
PV 04-V-099	Forster Door 1 leaf	INTERFLAM E	PF 1/2	Single	6	1160 x 1260
RE 04-V-100	Forster Door 1 leaf	INTERFLAM E	PF 1/2	Single	6	1260 x 2415
RE 04-V-126	Forster Door 1 leaf	INTERFLAM E	PF 1/2	Single	6	1260 x 2915
PV 04-V-225	RP-Technik Door 2 leaf	INTERFLAM EW	E 45	Single 13-2	13	1200 x 2200
PV 04-V-227	Hard wood	INTERFIRE EI	EI 45	Single 16-2	16	1200 x 2200
PV 04-V-234	Forster - Presto, Norm	INTERFLAM EW	E 90	Single 13-2	13	1200 x 2200
PV 04-V-235	Hard wood	INTERFLAM EW	E 90	Single 13-2	13	1200 x 2200
PV 04-V-247	Forster Door 2 leaf	INTERFLAM E	PF 1/2	Single	8	1280 x 1869
PV 04-V-251	Forster Door 2 leaf	INTERFLAM E	PF 1/2	Single	6	1045 x 567
				Single	8	2084 x 917
PV 04-G-273	Forster Door 2 leaf	INTERFLAM E	PF 1/2	Single	8	1280 x 1870
PV 04-V-278	Forster - Fuego	INTERFIRE EI	CF 1/2	Single 16-2	16	1200 x 2200
PV 04-A-301	Bieber (Hardwood)	INTERFLAM EW	PF 1/2	Single	6	1535 x 3135
PV 04-V-312	Forster - Fuego	INTERFIRE EI	CF 1/2	Single 16-2	16	1500 x 2500
PV 05-V-008	Hard wood	INTERFIRE EI	CF 1/1	Single 15-3	24	1200 x 2200
PV 05-V-038	Forster Door 2 leaf	INTERFLAM EW	E 60	Single 13-2	13	1010 x 2078
						2830 x 633
PV 05-V-067	Forster Door 1 leaf	INTERFLAM E	E 30	Single	8	1304 x 2364
RE 05-V-158	Presta Metal	INTERFLAM EW	E 120	Single 13-2	13	2840 x 1409

# FRANCE

CTICM, F-Metz

Arrêté du 22.03.2004 / EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
RE 05-V-170	DG glass Door 1 leaf	INTERFLAM EW	E 45	Single 13-2	13	448 x 2458 693 x 1306
RE 05-V-189	Hard wood Door 1 leaf	INTERFLAM EW	E 30/60	Single 13-2	13	710 x 2280
RE 05-V-287	Presta Metal Door 2 leaf	INTERFLAM EW	E 45	Single 13-2	13	855 x 2752 1999 x 337
PV 06-V-037	Forster Window	INTERFLAM EW	E90/EW6	Single 13-2	13	1443 x 1240
PV 06-V-197	Presta Metal Door 2 leaf	INTERFLAM EW	EW 30	Single 13-2	13	828 x 2753
PV 06-V-057	Presta Metal Door 1 leaf	INTERFLAM EW	EW 60	Single 13-2	13	778 x 2753
PV 06-E-114	Clestra	INTERFLAM EW	EW 60	Single 13-2	13	1312 x 2874
PV 06-V-137	Forster Door 2 leaf	INTERFLAM EW	EW 60	Single 13-2	13	1240 x 2790
PV 06-V-236	Forster Door 1 leaf	INTERFLAM EW	EW 60	Single 13-2	13	1104 x 2536
PV 07-V-027	Secco Door 1 leaf	INTERFLAM EW	E 90	Single 13-2	13	1334 x 2429
PV 07-V-148	Holz Door 2 leaf	INTERFLAM EW	E	Single 13-2	13	
PV 07-V-186	Forster Door 2 leaf	INTERFLAM EW	E 120	Single 13-2	13	2380 x 2563
PV 07-A-214	Forster Doors	INTERFLAM EW	EW 60	Single 13-2	13	1579 x 2850
			EW 60	DG	13/ 8 / 5	1480 x 2830
PV 07-A-215	Forster Doors	INTERFLAM EW	EW 60	Single 13-2	13	
			EW 60	DG	13/ 8 / 5	
PV 07-V-299	Forster Presto, Norm	INTERFLAM E	E 30	Single	8	1350 x 2830
PV 08-V-049	Smoke screen	INTERFLAM E	PF 1/1	Single	8	2500 x 1200
PV 08-V-101	Forster Presto	INTERFLAM EW	EW 90	Single 13-2	13	2585 x 2835
			E 120	Single 13-2	13	2585 x 2835
PV 08-V-295	Wood	INTERFIRE SWS butt joint	EI 60	Single	40	1830 x 2900
PV 08-V-437	RP-Technik Iso feu	INTERFIRE EI	EI 120	Single	47	1300 x 2825 1457 x 1378
PV 09-A-061	Wood	INTERFIRE EI	EI 60	Single	26	1835 x 1985 1385 x 2835
PV 09-V-209	Forster Presto	INTERFLAM EW	EW 60	Laminated	2 x 6	1385 x 2835
PV 09-V-233	Wood integrated blinds	INTERFLAM EW/13	EW 30	DG	13 / 29 / 5	2285 x 1585
PV 09-V-234	RP-Technik	INTERFIRE EI	EI 60	DG	24 / 10 / 5	1415 x 2820
PV 09-V-241	Wood	INTERFIRE SWS Butt Joint	EI 30	Single	32	1830 x 2900
PV 09-V-310	Forster Presto	INTERFLAM EW	EW 60	Laminated	2 x 6	2835 x 1385
PV 09-V-481	Wood	INTERFIRE EI 30	EI 30	DG	18 / 8 / 4	2585 x 1485

# UNITED KINGDOM

IFC, GB - Buckinghamshire

BS 476, part 22 / BS-EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
IFCA/01173	Steel	INTERFLAM E	E 30	Single	5	1117 x 2419 1522 x 1775
IFCA/01156	Steel	INTERFLAM E	E 30	Single	6	1351 x 2635 1841 x 1934
IFCA/01172	Steel	INTERFLAM E	E 30	Single	8	1443 x 3096 1966 x 2272
				Single	10	1535 x 3556 2092 x 2609
				Single	12	1627 x 3600 2218 x 2946
IFCA /01190	Steel	INTERFLAM E	E 30	Laminated	2 x 5	1061 x 2299 1446 x 1687
IFCA/01174	Steel	INTERFLAM E	E 30	Laminated	2 x 6	1067 x 2541 1545 x 1865
IFCA/01178	Steel	INTERFLAM E	E 30	DG	6 / 8 / 6	1061 x 2069 1446 x 1518
IFCA/01169	Steel	INTERFLAM EW	EW 60	Single	6	1039 x 2476 1416 x 1817
IFCA/01177	Steel	INTERFLAM EW	EW 60	Laminated	2 x 6	1034 x 2465 1410 x 1805
IFCA /01182	Steel	INTERFLAM EW	EW 60	DG	6 / 8 / 6	965 x 2166 1315 x 1590
IFCA/02168		INTERFLAM E Smoke screen	E 25	Single	6	1100 x 2000
IFCA/02150	Hard wood	INTERFLAM EW	EW 30	Single	6	2945 x 1236 1684 x 2161
				DG	6 / 8 / div.	2576 x 1147 1564 x 1890
IFCA /03261	Steel	INTERFLAM EW	EW 30	Single 13-2	13	1488 x 3547 2028 x 2603
			EW 60	Single 13-2	13	1252 x 2983 1706 x 2189
IFCA /04109	Steel	INTERFLAM EW	EW 90	Single 13-2	13	1131 x 2695 1541 x 1978
			EW 120	Single 13-2	13	1200 x 2200
IFCI/493	RP-Technik Door 2 leaf	INTERFLAM EW	EW 120	Single 13-2	13	1200 x 2200
IFCA/04225	RP-Technik Door 2 leaf	INTERFLAM EW	EW 120	Single 13-2	13	1200 x 2200
IFCA /04228	RP-Technik	INTERFLAM EW	EW 120	Single 13-2	13	1080 x 2570
IFCI/504	RP-Technik	INTERFIRE EI	EI 45	Single 14-3	22	1200 x 2200
IFCI/516	RP-Technik	INTERFIRE EI	EI 60	Single 15-3	24	1500 x 2800
IFCI/517	Wright Style	INTERFIRE EI	EI 60	DG 15-3	24 / 8 / 8	1500 x 2854
IFCA/05200	Wright Style	INTERFIRE EI	EI 30	Single 16-2	16	1200 x 2200
IFCI/546	Forster	INTERFLAM EW	NFPA 20	DG	6 / 6 / 8	1400 x 2300

## UNITED KINGDOM

IFC, GB - Buckinghamshire

BS 476, part 22 / BS-EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
IFCA/06139	Hard wood	INTERFIRE EI	EI 30	Single	16	1200 x 2200
				Single	16	1200 x 2200
			EI 60	Single	24	1200 x 2200
IFCA/06141	Steel	INTERFIRE EI	EI 30	Single	16	1500 x 2500
				Single	16	1200 x 2200
IFCA/06143	RP-Technik	INTERFIRE EI	EI 45	Single	22	1300 x 2300
			EI 60	Single	24	1500 x 2800
IFCA/06185	RP-Technik	INTERFLAM EW	EW 60	Single	6	1500 x 2250
IFCI / 571	RP-Technik	INTERFIRE EI	EI 120	Single	47	1224 x 2424
IFCI / 576	RP-Technik	INTERFIRE EI	EI 90	Single	33	1250 x 2400
				DG	32 / 6 / 5	1503 x 1079
IFCI / 583	RP-Technik Door 2 leaf	INTERFIRE EI	EI 90	Single	32	1084 x 2380

## NETHERLANDS

TNO, NL - Delft / IFC, GB - Buckinghamshire

NEN 6069, NEN-EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
2000-CVB-R00506 -B00879	Forster Jansen	INTERFLAM EW	EW 30	Laminated	2 x 6	2000 x 2400
			EW 45	Laminated	2 x 6	1700 x 1500
2000-CVB-R00581 -B00880	Forster Jansen	INTERFLAM EW	EW 30	Single	6	3200 x 2000
			EW 45	Single	6	1700 x 1500
2000-CVB-R01531 -B01609 -B02588	Forster Jansen	INTERFLAM EW	EW 30	DG	6 / 8 / 6	3500 x 2500
			EW 45	DG	6 / / 6	2200 x 1900
			EW 60	DG	6 / 8 / 6	1100 x 1900
2000-CVB-R01532 -B01607	Forster Jansen	INTERFLAM EW	EW 30	Single	6	2800 x 2800
			EW 45	Single	6	1700 x 1800
			EW 60	Single	6	1200 x 1600
2002-CVB-R05755 -B06327	Forster Jansen	INTERFLAM EW	EW 30	Laminated	2 x 6	1000 x 1400
			EW 60	Laminated	2 x 6	900 x 1400
2003-CVB-R0283 -B0389	Jansen Janisol 2	INTERFLAM EW	EW 120	Single 13-2	13	1197 x 2197
			EW 90	Single 13-2	13	2200 x 3200
2007-CVB-R0495	Forster Thermfix vario	INTERFLAM EW	E 90	DG	13 / 8 / 5	2928 x 1500
			EW 60			2928 x 1500
			EI 30			2928 x 1500
2007-CVB-R0749	Forster Thermfix vario	INTERFLAM EW	E 120	DG	13 / 8 / 5	2928 x 1500
			EW 120			2928 x 1500
			EI 15			2928 x 1500
2008-efectis-R0818	Forster Presto	INTERFLAM EW	EW 60	Laminated	6.6.2	1285 x 2285 1485 x 1100
2008-efectis-R0819	Forster Presto	INTERFLAM EW	EW 60	DG	6 / 8 / 6	1285 x 2285 1485 x 1100
2009-efectis-R0162	Forster Thermfix vario	INTERFLAM EW	E 120	DG	13 / 8 / 5	2928 x 1500
			EW 90			2928 x 1500

**POLAND**

ITB, POL - Warsaw

EN 1363/134

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
AT15-7399/207	Forster Presto	INTERFLAM E	E 30	Single	6	1260 x 2915
			E 30		8	1304 x 2364
			E 30		10	1600 x 2850
			E 30		12	1600 x 2850
			E 30	Laminated	2 x 5	1200 x 2000
			E 30		2 x 6	1200 x 2200
			E 30	DG	6/8/6	1200 x 1800
			INTERFLAM EW	E 60	Single(EW)	6
	E 60	Single(EW/1		13	1200 x 2200	
	E 60	DG (EW)		6 / 8 / 6	1100 x 1900	
	E 60	DG (EW/13)		13/8/5	1500 x 2928	
	Forster Fuego light	INTERFIRE EI	EI 30	Single	16	1500 x 2500
			EI 30	DG	16 / 8 / 5	2928 x 1500
			EI 60	Single	24	1200 x 2200
EI 60			DG	24 / 8 / 5	1200 x 2200	

**SWEDEN**

SITAC, S - Karlskrona

SS-EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
0657/00	Steel	INTERFLAM E	E 30	Single	5	1200 x 2000
				Single	6	1200 x 2200
				Single	8	1400 x 2100
				Single	10, 12	1350 x 2830
				Laminated	2 x 5	1600 x 2850
				Laminated	2 x 6	1200 x 2200
				DG Combi	6 / >6 / 6	1200 x 2200
1091/00	Steel	INTERFLAM EW	EW 30	Single	6	1200 x 2200
				Laminated	2 x 6	1200 x 2200
				DG Combi	6/>6/6	1100 x 1900
	Hard wood	INTERFLAM EW	EW 30	Single	6	1300 x 1900
				DG Combi	6/>6/6	1200 x 1800
			EW 45	Single	6	1200 x 1800
0003/04	Steel	INTERFLAM EW	EW 120	Single 13-2	13	1200 x 2200
			EI 15			1200 x 2200
0058/05	Steel	INTERFIRE EI	EI 30	Single 16-2	16	1500 x 2500
				Single 26-2	16	1200 x 2200
	Hard wood	INTERFIRE EI	EI 30	Single 16-2	16	1200 x 2200
				Single 26-2	16	1200 x 2200
				EI 60	Single 15-3	24
Alu	INTERFIRE EI	EI 60	Single 15-3	24	1065 x 2084	

<b>AUSTRIA</b>							
Institut für Brandschutztechnik, A-Linz				Ö-Norm B 3800 / Ö-EN 1363/1364			
Certificate	Frame system	Product	Class	Type	Thickness	Dimension	
04032431	Jansen Economy Viss Janisol	INTERFLAM E	G30	Single	5	1200 x 2000	
				Single	6 + 8	1200 x 2200	
				Single	10 + 12	1600 x 2850	
				Laminated	2 x 5	1200 x 2000	
				Laminated	2 x 6	1200 x 2200	
				DG Combi	6 / 8 / 6	1300 x 1800	
		INTERFLAM EW	G30	Laminated	2 x 6	1200 x 2200	
				G60	DG Combi	6 / 8 / 6	1000 x 1400
				G90	Single 13-2	13	1200 x 2200
04032433	Forster Presto, Norm	INTERFLAM E	G30	Single	5	1200 x 2000	
				Single	6 + 8	1200 x 2200	
				Single	10 + 12	1600 x 2850	
				Laminated	2 x 5	1200 x 2000	
				Laminated	2 x 6	1200 x 2200	
				DG Combi	6 / 8 / 6	1300 x 1800	
		INTERFLAM EW	G30	Laminated E	2 x 6	1200 x 2200	
				G60	DG Combi	6 / 8 / 6	1000 x 1400
				G90	Single 13-2	13	1200 x 2200
04032436	Voest-Alpin VA-Form	INTERFLAM E	G30	Single	5	1200 x 2000	
				Single	6 + 8	1200 x 2200	
				Single	10 + 12	1600 x 2850	
				Laminated	2 x 5	1200 x 2000	
				Laminated	2 x 6	1200 x 2200	
				DG Combi	6 / 8 / 6	1300 x 1800	
		INTERFLAM EW	G30	Laminated	2 x 6	1200 x 2200	
				G60	DG Combi	6 / 8 / 6	1000 x 1400
				G90	Single 13-2	13	1200 x 2200

<b>SHIP Glazing</b>							
Diverse				IMO 754 / IMO MSC/Circ. 1120			
Certificate	Frame system	Product	Class	Type	Thickness	Dimension	
P904103	Skandi-bo	Door 2 leaf	INTERFIRE A60	B30 door	Single	24	1008 x 2163
P904113	Skandi-bo	Door 1 leaf	INTERFIRE A60	A60 door	Single	24	1008 x 2163
PG 12052	Skandi-bo		INTERFIRE A60	B30/A60	Single	24	1070 x 2260
PG 12078	Skandi-bo		INTERFIRE A60	B30/A60	Single	24	1070 x 2260

## HONG KONG

IFC, GB - Buckinghamshire

BS 476, part 22 / BS-EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
IFCA/01173	Forster, Jansen, RP-Technik	INTERFLAM E	E 30	Single	5	1117 x 2419 1522 x 1775
IFCA/01156	Forster, Jansen, RP-Technik	INTERFLAM E	E 30	Single	6	1351 x 2635 1841 x 1934
IFCA/01172	Forster Jansen RP-Technik	INTERFLAM E	E 30	Single	8	1443 x 3096 1966 x 2272
				Single	10	1535 x 3556 2092 x 2609
				Single	12	1627 x 3600 2218 x 2946
IFCA /01190	Forster, Jansen, RP-Technik	INTERFLAM E	E 30	Laminated	2 x 5	1061 x 2299 1446 x 1687
IFCA/01174	Forster, Jansen, RP-Technik	INTERFLAM E	E 30	Laminated	2 x 6	1067 x 2541 1545 x 1865
IFCA/01178	Forster, Jansen, RP-Technik	INTERFLAM E	E 30	DG	6 / 8 / 6	1061 x 2069 1446 x 1518
IFCA/01169	Forster, Jansen, RP-Technik	INTERFLAM EW	EW 60	Single	6	1039 x 2476 1416 x 1817
IFCA/01177	Forster, Jansen, RP-Technik	INTERFLAM EW	EW 60	Laminated	2 x 6	1034 x 2465 1410 x 1805
IFCA /01182	Forster, Jansen, RP-Technik	INTERFLAM EW	EW 60	DG	6 / 8 / 6	965 x 2166 1315 x 1590
IFCA/02168		INTERFLAM E Rauchschürze	E 25	Single	6	1100 x 2000
IFCA/02150	Hard wood	INTERFLAM EW	EW 30	Single	6	1684 x 2161
				DG	6 / 8 / div.	2576 x 1147 1564 x 1890

## SINGAPORE

IFC, GB - Buckinghamshire

BS 476, part 22 / BS-EN 1363/1364

Certificate	Frame system	Product	Class	Type	Thickness	Dimension
IFCA/01169	Forster Jansen	INTERFLAM EW	EW 60	Single	6	1039 x 2476 1416 x 1817
IFCA/01177	Forster Jansen	INTERFLAM EW	EW 60	Laminated	2 x 6	1034 x 2465 1410 x 1805
IFCA /03261	Jansen Janisol 2	INTERFLAM EW	EW 30	Single 13-2	13	1488 x 3547 2028 x 2603
			EW 60	Single 13-2	13	1252 x 2983 1706 x 2189
IFCA /04109	Jansen Janisol 2	INTERFLAM EW	EW 90	Single 13-2	13	1131 x 2695 1541 x 1978
			EW 120	Single 13-2	13	1200 x 2200

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