

ESG Pyrotech Fire Resistant Glass Technical Data Sheet

System Type	TIMBER DOORS		TIMBER SCREENS	STEEL SCREENS		TIMBER DOORS & SCREENS	
Fire Glass	ESG Pyrotech 630		ESG Pyrotech 630	ESG Pyrotech 630	ESG Pyrotech 660	ESG Pyrotech 630	
Glass Type & Thickness	6mm Modified Tempered		6mm Modified Tempered	6mm Modified Tempered	6mm Modified Tempered	22mm DGU	
Fire Resistance	E30/Ew15		E30/Ew15	E30/Ew15	E60/Ew15	E30/Ew15	
Profile view							
Coverage Detail	Halspan Prima 30 Pacific Rim Flamebreak 30 Falcon Products Strebord 44 Baillargeon Blankfort 30 Any other CERTIFIRE Approved FD30 Door.		CERTIFIRE Approved FD30 44mm thick with 6mm hardwood liner with density 640kg/m ³ .	Minimum 90x90mm hardwood framing sections, with density of 640kg/m ³ .	Wrightstyle Stop bar system 5050T. Schüco, Jansen & Forster systems (Glass to be installed into a previously tested framing system which is covered appropriately by test or assessment evidence using pressure plate glazing. Screw-fixed or clip-on retaining beads).	Wrightstyle Stop bar system 5050T. Schüco, Jansen & Forster systems (Glass to be installed into a previously tested framing system which is covered appropriately by test or assessment evidence using pressure plate glazing. Screw-fixed or clip-on retaining beads).	CERTIFIRE Approved FD30 44mm thick with 6mm hardwood liner with density 640kg/m ³ .
Bead Detail	Softwood, MDF, Hardwood beads minimum 15mm high, by 22mm wide, with a 5x5mm bolection return, with a 15° Chamfer, minimum density 510 kg/m ³ .		Hardwood beads 26 high by 22 wide including 5x5 bolection return, chamfered by 18°, minimum density 640kg/m ³ . Fixed using 50mm long x 2mm thick steel pins at 150 centres and 50 from corners 35° to glass.	Hardwood beads 21 high by 22mm wide, chamfered by 18°, minimum density 640kg/m ³ . Fixed using 50mm long x 2mm steel pins at 150mm centres and 50 from corners 35° to glass.	20mm high by 35mm deep 1.25mm thick profiled galvanised steel Wrightstyle clip on beading Ref. GL35.	20mm high by 35mm deep 1.25mm thick profiled galvanised steel Wrightstyle clip on beading Ref. GL35.	Hardwood beads 19 high by 14 wide including 5x5 bolection return, chamfered by 16°, minimum density 640kg/m ³ . Fixed using 50mm long x 2mm thick steel pins at 150 centres and 50 from corners 35° to glass.
Sealant Detail	Hodgeson Fire Strip 30 Lorient 36/6 Lorient Flexible Figure 1 Sealmaster Fireglaze ISL Therm-A-Seal Pyroplex 8193 U-Channel Pyroplex 30049 Pyroplex 30054 Mann McGowan Pyroglaze Mann McGowan Pyrostrip 30 Mann McGowan Pyroglaze Channel		5x3mm ceramic fibre based glazing tape. Non-combustible setting blocks and 10x1 interdens liner to all edges.	15x3mm ceramic fibre based glazing tape, with a 10x1mm interdens liner to all edges.	15 x 3mm thick ceramic tape fitted between the framing stop bar and exposed face of the glass. 15 x 3 thick ceramic tape fitted between the beading and unexposed face of the glass. Glass placed on 4 x 20mm wide non combustible blocks.	Same as E30 in steel screens but for E60 classification Autostic Ceramic Alkaline adhesive (CF8) applied between ceramic tape and glass, and between ceramic tape and the beads on both exposed and unexposed faces at the head of each pane only.	15x3mm ceramic fibre based glazing tape, with a 10x1mm interdens liner to all edges.
Tests/Assessment	Tested by Exova Warrington based on Full Scale test of two doors: Ref WF184813 on 14/7/09, to BS476 Pt 22 : 1987, achieving 36 mins and 38 mins.		Tested by Chiltern Ref: RF08169 on 22/11/08, to BS EN 1634-1 : 2000, achieving 34 mins.	Tested by Chiltern Ref: RF08169 on 22/11/08, to BS EN 1634-1 : 2000, achieving 34 mins.	Tested by Chiltern Ref. Chilt/RF07129 to BS476 Pt22 : 1987 on 26/9/07 which achieved 36 mins,	Tested by Exova Warrington and Chiltern Ref. Chilt/RF07162 to BS EN 1364-1 : 1999 achieving 67 mins, and test by Warrington Ref: WF182714 to BS EN 1363-1 achieving 72 mins.	Tested by Chiltern Ref: IF08060A on 17/10/08, to BS EN 1363-1 : 2000, achieving 31 mins.
Max Tested Size	1400 x 450		1711 x 703	1984 x 931	2890 x 1415	2860 x 1171	786 x 632
Max Area Allowed	0.78m ² for Lorient Flexible Figure 1, and 0.76m ² for all other listed sealants.		1.36m ²	2.08m ²	4.90m ²	3.85m ²	0.50m ²
(dB) Rating (For Glass Only)	31		31	31	31	31	34
Third Part Approval							



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ESG Pyrotech Laminated Fire Resistant Safety Glass Technical Data Sheet

System Type	TIMBER DOORS				TIMBER SCREENS				STEEL SCREENS										
System Type																			
Fire Resistance	E30/Ew15		E30/Ew15		E30/Ew15		E30/Ew15		E30/Ew15		E60/Ew15								
Profile View																			
All dB ratings are for glass only	Safe Range	730L 830L 1030L 1230L	dB 32 34 35 36	Area 0.86m ² 0.86m ² 0.86m ² 0.76m ²	1030L 1230L	dB 35 36	Area 1.36m ² 1.36m ²	1030L 1230L	dB 35 36	Area 2.08m ² 2.08m ²	730L 830L	dB 32 34	Area 0.86m ² 0.86m ²	1030L 1230L	dB 35 36	Area 4.90m ²	1060L 1260L	dB 35 36	Area 3.85m ²
	Acoustic Range	830L Acoustic 1030L Acoustic 1230L Acoustic 1430L Acoustic	dB 36 38 39 41	Area 0.86m ² 0.86m ² 0.76m ² 0.76m ²	1230L Acoustic 1430L Acoustic	dB 39 41	Area 1.36m ² 1.36m ²	1230L Acoustic 1430L Acoustic	dB 39 41	Area 2.08m ² 2.08m ²	830L Acoustic 1030L Acoustic	dB 36 38	Area 0.86m ² 0.86m ²	1230L Acoustic 1430L Acoustic	dB 39 41	Area 4.90m ²	1260L Acoustic 1460L Acoustic	dB 39 41	Area 3.85m ²
	LCD Privacy Range	830L Privacy 1030L Privacy 1230L Privacy 1430L Privacy	dB 32 34 37 39	Area 0.86m ² 0.86m ² 0.76m ² 0.76m ²	1230L Privacy 1430L Privacy	dB 37 39	Area 1.36m ² 1.36m ²	1230L Privacy 1430L Privacy	dB 37 39	Area 2.08m ² 2.08m ²	830L Privacy 1030L Privacy	dB 32 34	Area 0.86m ² 0.86m ²	1230L Privacy 1430L Privacy	dB 37 39	Area 4.90m ²	1260L Privacy 1460L Privacy	dB 37 39	Area 3.85m ²
	Secure Range	730L Secure 1030L Secure 1230L Secure 1430L Secure	EN356 P3A (32dB) P4A (38dB) P4A (39dB) P5A (40dB)	Area 0.86m ² 0.86m ² 0.86m ² 0.76m ²	1230L Secure 1430L Secure	EN356 P4A (39dB) P5A (40dB)	Area 1.36m ² 1.36m ²	1230L Secure 1430L Secure	EN356 P4A (39dB) P5A (40dB)	Area 2.08m ² 2.08m ²	730L Secure 1030L Secure	EN356 P3A (32dB) P4A (38dB)	Area 0.86m ² 0.86m ²	1230L Secure 1430L Secure	EN356 P4A (39dB) P5A (40dB)	Area 4.90m ²	1260L Secure 1460L Secure	EN356 P4A (39dB) P5A (40dB)	Area 3.85m ²
	Ultimate Range	930L Ultimate 1130L Ultimate 1330L Ultimate 1530L Ultimate	EN356 P3A (36dB) P4A (38dB) P4A (39dB) P5A (41dB)	Area 0.86m ² 0.86m ² 0.86m ² 0.76m ²	1330L Ultimate 1530L Ultimate	EN356 P4A (39dB) P5A (41dB)	Area 1.36m ² 1.36m ²	1330L Ultimate 1530L Ultimate	EN356 P4A (39dB) P5A (41dB)	Area 2.08m ² 2.08m ²	930L Ultimate 1130L Ultimate	EN356 P3A (36dB) P4A (38dB)	Area 0.86m ² 0.86m ²	1330L Ultimate 1530L Ultimate	EN356 P4A (39dB) P5A (41dB)	Area 4.90m ²	1360L Ultimate 1560L Ultimate	EN356 P4A (39dB) P5A (41dB)	Area 3.85m ²
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3rd Party Approval	CF628		CF628		CF628		CF628		CF628		CF628								



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