

Fire Rating

Fire rating	Range	Single glazed glass options	20mm 6-8-6 double glazed
30/0 (int./ins.)	SMW-FR	6mm Pyroshield 7mm Pyroguard	
	W20-FR	6mm Pyroshield 7mm Pyroguard 11mm Pyroguard	
	W40-FR		6mm Pyran-S 8mm steel spacer 6mm toughened
60/0 (int./ins.)	SMW-FR	6mm Pyroshield 6mm Pyran-S	
	W20-FR	6mm Pyroshield 6mm Pyran-S	
	W40-FR		6mm Pyran-S 8mm steel spacer 6mm toughened

Pyroshield is a wired glass and offers a more cost effective solution to the specifier. On double glazing units - fire glass must be glazed to the fire exposed face.

Product Applications

<input checked="" type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Fire-Rated
<input checked="" type="checkbox"/> Light Commercial	<input checked="" type="checkbox"/> Enhanced Security
<input checked="" type="checkbox"/> Domestic	<input checked="" type="checkbox"/> Conservation / Historic only

Window / Door Types



Fixed light

Acoustic Insulation

Sound insulation of weatherstripped windows (approximate values averaged over a frequency range of 100 to 3150Hz):
20 - 28dB reduction (single glass)
28 - 30dB reduction (double glazed)

Weather Performance

Window Type	Air (Pa)	Water (Pa)	Wind (Pa)	Exposure Category (Pa)
SMW-FR Fixed light ¹	600	300	2400	2400
W20-FR Fixed light ¹	600	300	2400	2400
W40-FR Fixed light ²	CL4	300	CL.C5	2000

Tested in accordance with BS 6375-1:1989¹/2009²

Refer to "Weather performance" for full details

Permissible Sizes

Based on test experience, glass pane sizes are subject to the following limitations to ensure integrity under fire:

- maximum pane area: 1.53 m²,
- maximum pane height: 1696 mm (where width < 900 mm)
- maximum pane width: 1450 mm (when height < 1053 mm)
- maximum pane height/width: 1237 mm (square pane)

- no limitation is imposed on the aspect ratio providing the area is not exceeded.

Glazing

Method	Type	Side	Technology
<input checked="" type="checkbox"/> Putty	<input checked="" type="checkbox"/> Single (SMW/W20)	<input checked="" type="checkbox"/> Inside (W20/W40)	<input checked="" type="checkbox"/> Tape & Cap (Special detailing)
<input checked="" type="checkbox"/> Sloping clip-on aluminium bead	<input checked="" type="checkbox"/> Double (W40)	<input checked="" type="checkbox"/> Outside (SMW/W20/W40)	<input checked="" type="checkbox"/> Drained / ventilated
<input checked="" type="checkbox"/> Rectangular / square clip-on steel bead	<input checked="" type="checkbox"/> Triple		
	Thickness		
	<input checked="" type="checkbox"/> 6-11 mm <small>SMW W20</small>		
	<input checked="" type="checkbox"/> 20 mm <small>W40</small>		

See "Typical details" for full details.

Thermal Insulation

Building Regulations Document L
(Conservation of Fuel and Power)

Compliant

Approximately 5.7W/m²K combined frame and glass U values for most window configurations using standard single glazing. Combined frame and glass U values for double glazed W40-FR fixed lights will vary depending on coating used on toughened pane and selected inert gas fill. However, due to the unavoidable smaller cavity fill, the resultant insulation values will generally not meet the requirements of Part L and special permission will be required from the local authority for their use.

