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

Product Applications

Commercial

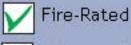


Conservation / Historic only



Domestic

Light Commercial



Enhanced Security

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	Cl.4	300	CI.C5	2000

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.

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





Sloping clip-on aluminium bead



Rectangular / square clip-on steel bead

See "Typical details" for full details.

Type



(SMW/W20)



Double





Triple

(W40)



Thickness

6-11 mm

20 mm



Side

✓ Inside

Technology

Tape & Cap (Special detailing)

(W207W40)

Outside

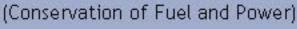
(SMW/W20/W40)

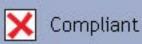


Drained / ventilated

Thermal Insulation

Building Regulations Document L





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.

