

### Hermetically sealed partitions and windows to meet the demanding needs of commercial and healthcare environments



The standard partition system for the 60 mm basic depth offers an extensive range of solutions for a variety of building envelope requirements.

It is based on the functional and design properties of the aluminium system: perfectly tailored components combine benefits such as narrow face widths and concealed, standard manual or electromechanical fittings for inward and outward-opening windows.

The high level of flexibility of the system ensures a variety of uses as a punched opening, ribbon window or façade insert unit, as well as in combination with our other door systems.

An additional benefit for specifiers and architects is the wide range of opening types such as side-hung and turn/tilt vents, bottom-hung toplights or barrier-free window doors.

An outward-opening window design with centre gasket is also available as a double-vent window with burglar resistance in accordance with test procedure PAS 24.

The window system offers a wide range of profiles, including corner mullions, structural mullions, symmetrical and asymmetrical mullions, as well as several design variations and additional combination options, such as sun shading and ventilation systems.

TGS-PA20 thereby sets standards in terms of planning flexibility and offers attractive window solutions specifically for meeting the requirements of healthcare and commercial markets.

### Product Details

<p>Manufacturer</p>	<ul style="list-style-type: none"> <li>• Teknoglass Limited, PO Box 293, Waterlooville, Hampshire, PO7 9AA</li> <li>• Phone number 02392 571122</li> <li>• Robert Hudson, Technical Director, Teknoglass Limited. Tel 07897 977379549, email b.hudson@teknoglass.co.uk</li> <li>• Website: www.teknoglass.co.uk</li> <li>• Fabricated and installed by an Teknoglass Limited.</li> <li>• Teknoglass door frame for flush fitted door leaf.</li> </ul>
<p>Performance</p>	<ul style="list-style-type: none"> <li>• Overall average 'U' value calculated in accordance with BS EN ISO 10077 shall achieve 1.2 w/m<sup>2</sup>K.</li> <li>• System to achieve 46 dB reduction.</li> <li>• Exposure category to BS EN 14351-1/ Design wind load: N/A.</li> </ul>
<p>Finish as delivered</p>	<ul style="list-style-type: none"> <li>• All aluminium polyester powder coated as shown on architects drawings / schedules.</li> </ul>

	<ul style="list-style-type: none"> <li>Standard PPC minimum 40-70 Microns depending upon project requirement as Z31 Powder Coatings. Colour - RAL. Finish - matt.</li> </ul>
Glazing details	<ul style="list-style-type: none"> <li>Panels to be fitted with internal square glazing bead glazed with EPDM gaskets.</li> <li>Options include <ul style="list-style-type: none"> <li><b>Fire Rated</b> - fixed frames for 30, 60 or 90 minute protection</li> <li><b>Acoustic glass</b> - to provide 41dB(A) as standard with options up to 54dB(A)</li> <li><b>Radiation shielding</b> - glass and infills to protect the most extreme applications</li> <li><b>Teknoglass Switchable Glass</b> - to allow instant switching from clear to opaque for patient dignity</li> <li><b>Antibacterial coating</b> - to extruded frames and infill panels (glass or solid) for Infection control</li> </ul> </li> </ul>
Fixing	All Teknoglass Limited products are to be installed in complete accordance with the information published by Teknoglass and exclusively by Teknoglass Limited authorised fabricators.

## Technical Information

Frame Width	60mm
Maximum Length	3500mm
Maximum Height	3500mm
Maximum glass/panel thickness	40mm
Uf value of frame	1.8W/(m <sup>2</sup> .K)
Uw value of window (≥)	1.1 W/(m <sup>2</sup> .K)
Max. sound reduction Rwp	41 dB(A) EN ISO 140-3
Number of tracks	Single track, Double track, Triple track
Track material	Aluminium/Stainless Steel
Surface finishes	Powder coated – BS / RAL colour range
Operating forces	Class 1
Operating type	Manual or automated
Proof of durability	Class 3
Air permeability	Class 4 – 0.30m <sup>3</sup> /hm <sup>2</sup> EN 1026:2016 – 09 EN 12210
Wind load resistance	C5/B5 EN 12211:2016-03 Part 1: Windows
Watertightness	E 900 EN 12208 Class 9A EN 1026:2016 - 03
Electronic monitoring	Yes
CE marking	Yes
Colour-independent	Yes

