

# HEALTHCARE WINDOW PRODUCTS

Specialist Safety and Security Solutions

**sapa:**  
Architectural **Aluminium** Solutions



### Introduction

Quality of life is contributed to significantly by the provision of fresh air, and the importance of this cannot be over-emphasised.

However, for 'at risk' installations, such as healthcare and mental health units, careful consideration to the configuration and design of opening windows and their associated fittings and fixtures must be given.

With our knowledge and experience within this sector, Sapa offer a range of products to complement your special Healthcare projects.

Sapa also understands that a generic solution may not suit every application, and encourages early participation to assist with, and advise on our product offer along with any additional project specific characteristics. Our goal is to provide the optimum solution for your individual requirements to ensure the comfort, security and welfare of the building users.

### Design Considerations

Different window opening types can address some, or all of the following points:-

**Ligature Resistance** – to provide a product which is, as far as possible, ligature free.

The style of window itself is crucial here. Some opening types are inherently better than others. Another important aspect is if the window is intended to resist ligature in both open and closed positions. Any handles, catches, controls, locks etc, should be designed to minimise the risk of use as a ligature point.

**Self-Harm** – to provide a product that reduces as far as possible the opportunity to use it, or components from it, as a means to self-harm.

The window design selected must minimise the risk of self-harm. Removal of components such as gasket, beading or hardware must be addressed as must the facility to lock a window, open or closed.

**Security** – the installed window must maintain perimeter integrity to restrict access or egress.

**Anti-Contraband** – to provide access to fresh air, whilst restricting the passage of illicit or dangerous materials through the opening.

### Sapa C125 Ligature Resistant Horizontal Sliding Windows



The Sapa C125 Ligature Resistant Horizontal Window is based around our hugely successful and proven C125 range of sliding window and door products.

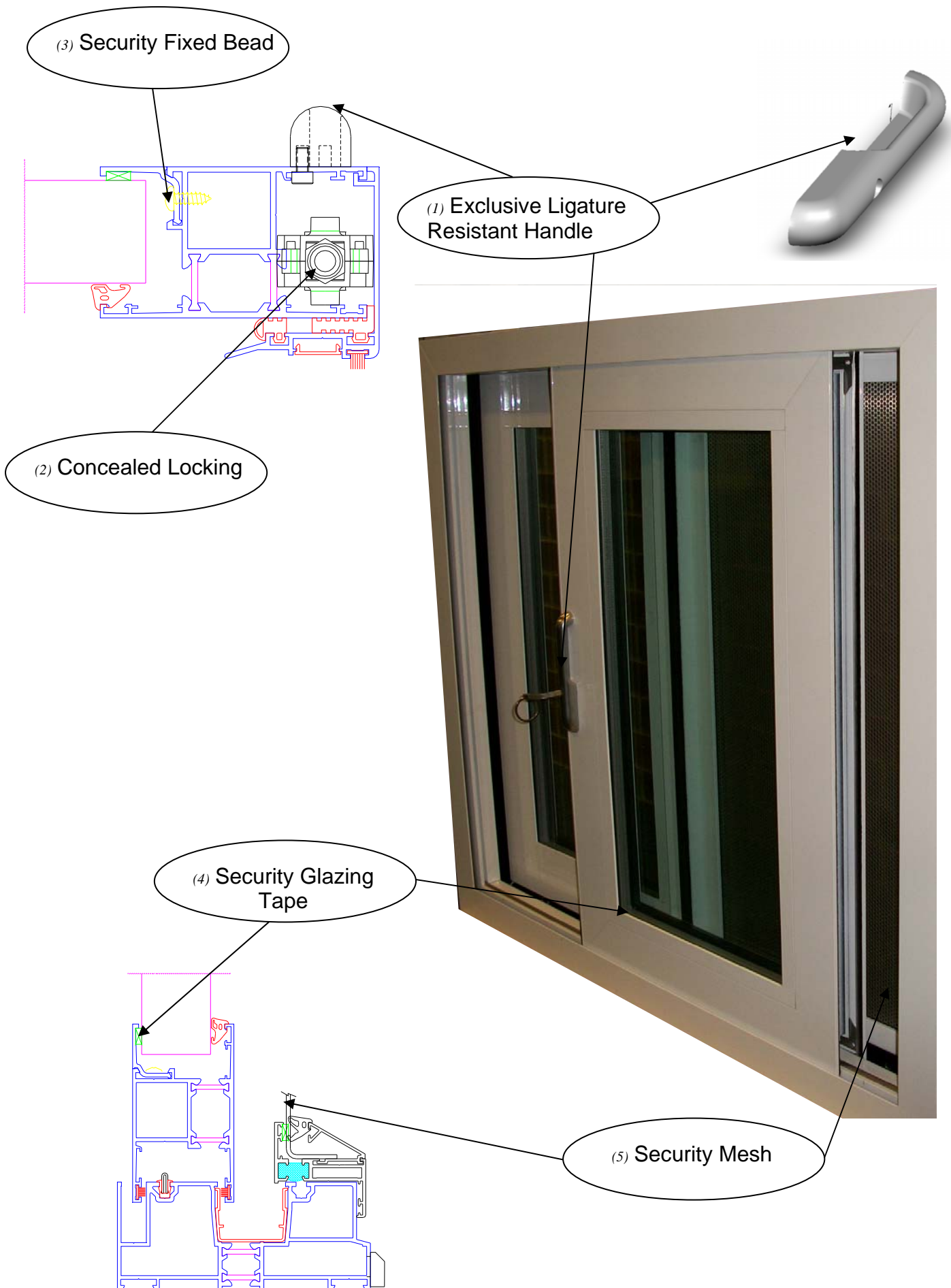
Specialist healthcare features can be incorporated to your specific requirements, from a basic 'hardware free' product, to the additions of handle, locking, integral blinds and anti-contraband grille.

The suite benefits from full weather performance testing to EN12207, 12210 and 12208 standards, as well as specific Healthcare Trust testing replicating potential threats and usage.

<u>Key Product Features</u>	<u>Benefits</u>
<ul style="list-style-type: none"> <li>Ligature Resistant By Design</li> </ul>	Horizontal sliding windows provide reduced ligature in operation as they have no opening projections
<ul style="list-style-type: none"> <li>Strength</li> </ul>	Robust sections and accessories ensuring high resistance against identified threats and attacks
<ul style="list-style-type: none"> <li>Bespoke Specialist Hardware <sup>(1)</sup></li> </ul>	Aesthetically advanced handle, with concealed fixing, providing tamper and ligature resistant operation
<ul style="list-style-type: none"> <li>Concealed Locking <sup>(2)</sup></li> </ul>	Concealed bi-parting shoot bolt locking, offering ligature resistant closed, open and/or intermediate locking points as required
<ul style="list-style-type: none"> <li>Security Fixed Beading <sup>(3)</sup></li> </ul>	Allows authorised removal of beads providing ease of infill replacement, whilst ensuring no unauthorised removal for purposes of vandalism, escape, use as weapon or self-harm
<ul style="list-style-type: none"> <li>No Internal Gasket <sup>(4)</sup></li> </ul>	Infill set on glazing tape preventing tampering and removal
<ul style="list-style-type: none"> <li>Ligature Resistant External Gasket</li> </ul>	Gasket incorporates low breaking feature to ensure gasket breaks into small pieces under tension
<ul style="list-style-type: none"> <li>High Performance</li> </ul>	Fully tested to perform for the demands of the UK weather
<ul style="list-style-type: none"> <li>Security Mesh Option <sup>(5)</sup></li> </ul>	Ventilation with security – anti-contraband

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## Specific Healthcare Trust Testing

<u>Test</u>	<u>Result</u>
<ul style="list-style-type: none"> <li>Kick From Sitting (1)</li> </ul>	No damage
<ul style="list-style-type: none"> <li>Kick From Standing (2)</li> </ul>	No damage
<ul style="list-style-type: none"> <li>Use Pen To Attack Frame</li> </ul>	No damage
<ul style="list-style-type: none"> <li>Coffee Mug Attack – 3 no. thrown from a distance of approx 2.5m (3)</li> </ul>	First 2 - No damage to window 3 <sup>rd</sup> mug shattered attacked face of both units
<ul style="list-style-type: none"> <li>Chair Leg Attack – continuously hit window in swinging action from close distance (4)</li> </ul>	No damage
<ul style="list-style-type: none"> <li>Fire Extinguisher Attack – repeatedly thrown at window (5)</li> </ul>	No further damage to unit 1 – further shattering to unit 2.
<ul style="list-style-type: none"> <li>Knife Attack 1 - glass</li> </ul>	Small hole in film after prolonged attack
<ul style="list-style-type: none"> <li>Knife Attack 2 – frame (6)</li> </ul>	No damage
<ul style="list-style-type: none"> <li>Hammer Attack</li> </ul>	Further limited damage to glass
<p><b><u>Conclusion</u></b> The test demonstrated that the window frame suffered no damage after the attacks, and was thus acceptable for the projects.</p>	

(1)



(2)



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(3)



(4)



(5)



(6)



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### Example Projects

**PICU  
Elgar Unit  
Newtown Hospital  
Worcester**

Architect:- The Design Buro  
Contractor:- Thomas Vale Construction

Additional Info:-      Integral Blinds  
                                 Concealed Locking  
                                 Security Mesh



**Older Adult In-Patient Day Hospital  
Broomfield  
Chelmsford**

Architect:- The Design Buro  
Contractor:- Kier

Additional Info:-      100mm Permanent Restriction

**Camlet 3  
Chase Farm Hospital,  
Enfield**

Architect:- Devereux Architects  
Contractor:- Simon Construction

Additional Info:-      Concealed Locking  
                                 Security Mesh  
                                 Trickle Ventilation

**Wotton Lawn Hospital  
Psychiatric Intensive Care Unit  
Gloucester**

Architect:- Quattro Design  
Contractor:- Kier Moss

For further details of completed Healthcare projects, or to arrange an appointment with a Specialist Project Consultant, please contact our Marketing Department on 01684 853502