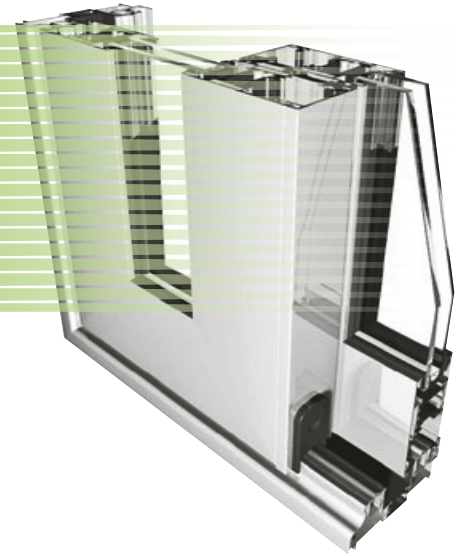


**THERMAL™**

# System 25Hi+ Lift and Slide Door



The Metal Technology System 25Hi+ Lift and Slide Door has been designed to offer the specifier a sliding opener with pleasing sight lines and all the benefits of weather performance, thermal enhancement and security.



## Specification Overview

### Introduction

Metal Technology's new high performance System 25Hi / Hi+ offers a unique thermal solution to sliding doors. By introducing a polyamide thermal barrier across the frame, longitudinal thermal losses are reduced. Because the line of the thermal break in the frame changes planes to match the sashes, there is no thermal short circuit. As with all Metal Technology systems, the Lift and Slide Door System has been designed and engineered to exacting standards creating a high performance product, offering slim sight lines and low U values that will deliver many years of trouble-free operation.

### Scope

This specification defines materials, construction, finishes, glazing, security and size limits for the System 25Hi+ Lift and Slide Door

### Thermal Performance

Metal Technology's **THERMAL** range in conjunction with the correct glass specification is designed to meet and exceed the latest thermal requirements of the current Building Regulations. The System 25Hi+ uses a completely unique thermal break system in conjunction with high performance foam inserts to achieve U values as low as 1.5W/m<sup>2</sup>K

### Weather

Metal Technology's Lift and Slide Door provides high levels of air and water resistance by the use of compression gaskets, innovative seals on the central extrusions and high drainage capacity.

Air infiltration is minimized by the same components that provide water resistance.

The system has been designed to achieve

Air Infiltration: Class A4

Wind Resistance: E2400

Water Resistance: 600Pa

### Materials

Aluminium profiles are extruded from aluminium alloy 6060T6, T5 or T4 complying with the recommendations of BS EN 12020-2/BS EN 755-Parts 1 to 9. Polyamide thermal breaks are produced from glass reinforced nylon sections designed to withstand temperatures in excess of 200°C, allowing the sections to be powder coated after thermal breaking.

### Finishes

The range of sections can be provided in either of the following range of finishes:

1. Anodised to BS EN 12373-1 or BS 3987
2. Powder organic coated to BS 6496 or BS EN 12206-1

The System 25 Hi+ Lift and Slide Door can accommodate a different colour/finish internally to that used externally.

### Glazing

The system can accommodate glazing units from 28mm to 32mm. Glass is set against a captive gasket in the wrap around sash frame with a co-extruded wedge fitted internally. Special bridging setting / location blocks are provided to fit into the sections.

### Size Limitations

Door Sash	Door Sash Height	Door Sash Width
Lift & Slide	2800mm max.	1800mm max.
	750mm min.	760mm min.

Note that maximum height and maximum width cannot be achieved simultaneously. For complete details of maximum / minimum sizes see fabrication manual limitation charts. Max Weight Lift and Slide 200kg.

### Security

The System 25Hi+ Lift and Slide Door has passed PAS 24 "Specification for Enhanced Security Performance for Doorsets" as generally accepted on Secure by Design projects.

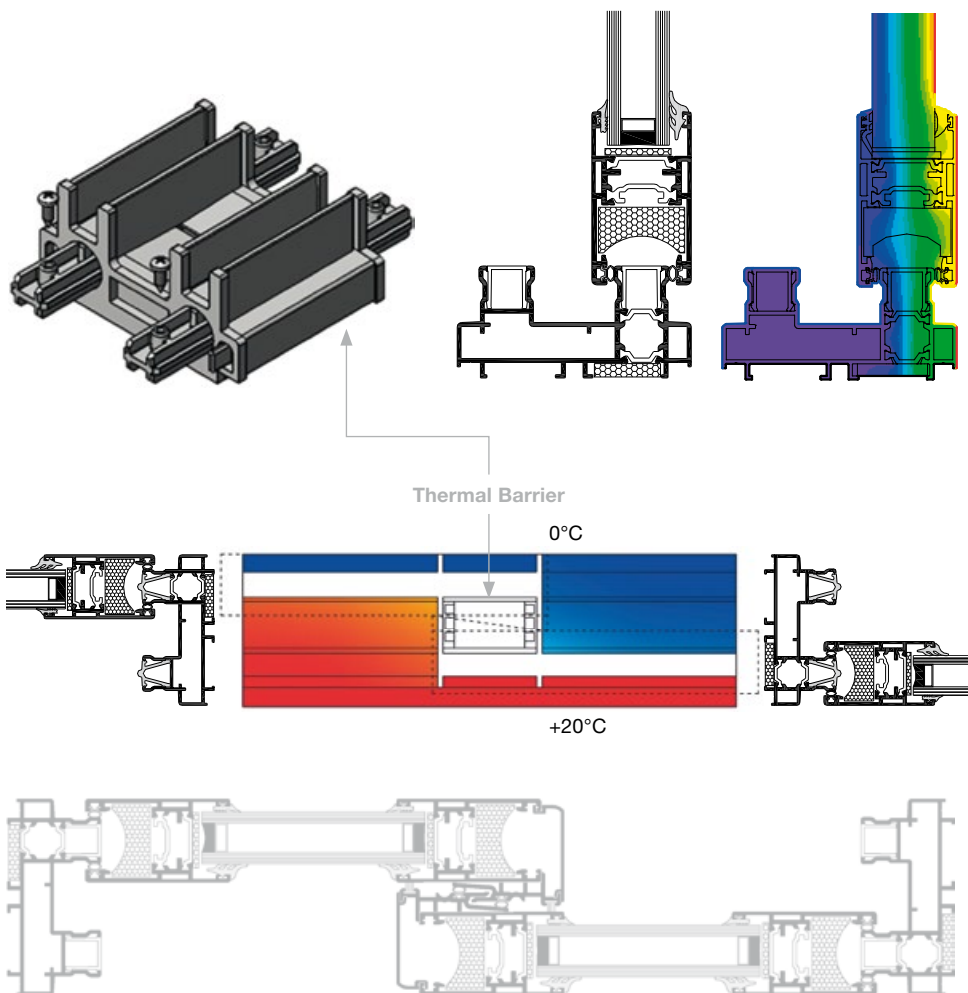
To conform, the door hardware must be in accordance with the tested samples as detailed in Metal Technology's technical literature.

Security products should be labelled by the fabricator in accordance with BS 4873.

### Quality

The reliability of System 25Hi+ fittings is due to the use of high quality materials and rigorous testing of all parts. All Lift and Slide carriages are tested under the terms of the highest specifications of EN 13126-16/2008- (25,000 operating cycles).

All hardware is corrosion resistant using a special treatment which classifies it as Class 4 (highly resistant).



**Metal Technology Limited**  
 Steeple Road Industrial Estate  
 Steeple Road | Antrim  
 Northern Ireland | BT41 1AB

Telephone +44 (0)28 9448 7777  
 sales@metaltechnology.com  
 metaltechnology.com

This document has been printed on 100% recycled paper.

