

Specification and technical information

Üni_Slide
Panoramic
Sliding Door



“Space and light and order. Those are the things that men need just as much as they need bread or a place to sleep.”
Le Corbusier



Specification

Aluminium:

Aluminium profiles are manufactured under an ISO 9001 quality management system.

Tolerances on dimensions and form comply with BS EN 755-9 & BS EN 12020-2.

Mechanical properties comply with BS EN 755-2.

Chemical composition limits are in accordance with BS EN 573-3.

Colours:

Available in any RAL colour and special colours upon request.

Dual colours (inside and out) are possible.

Coating:

Powder coated to BS EN 12206:2004 Part 1 under an ISO 9001 quality management system.

Maximum sizes:

Each sliding panel up to 2.2m wide x 3.0 m high in a limitless run (subject to survey).

Maximum weight:

320kg per sliding panel

U value:

Typically 1.4 W/m²K, depending on size and configuration.

g value:

Typically 0.74 depending on glass specification.

Weathertightness:

Water tightness: Class 5A in accordance with BS EN 12208.

Air permeability: Class 3 in accordance with BS EN 12207.

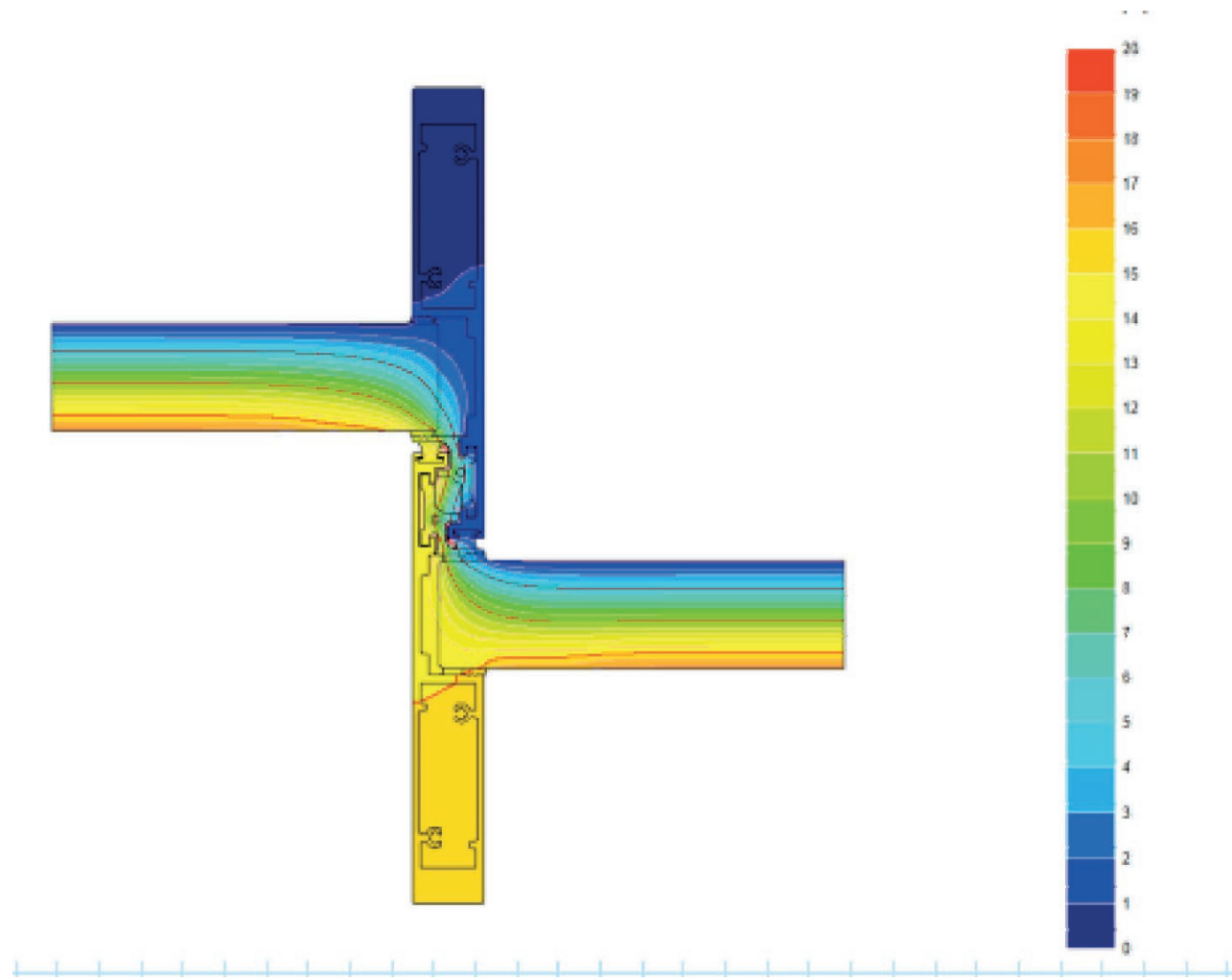
Wind resistance: Class A4 in accordance with BS EN 12210.

A 3m high door has been safety tested to 2400Pa, equivalent to a wind speed of 141 mph (Hurricane Category 4 out of 5).

Thermal Performance

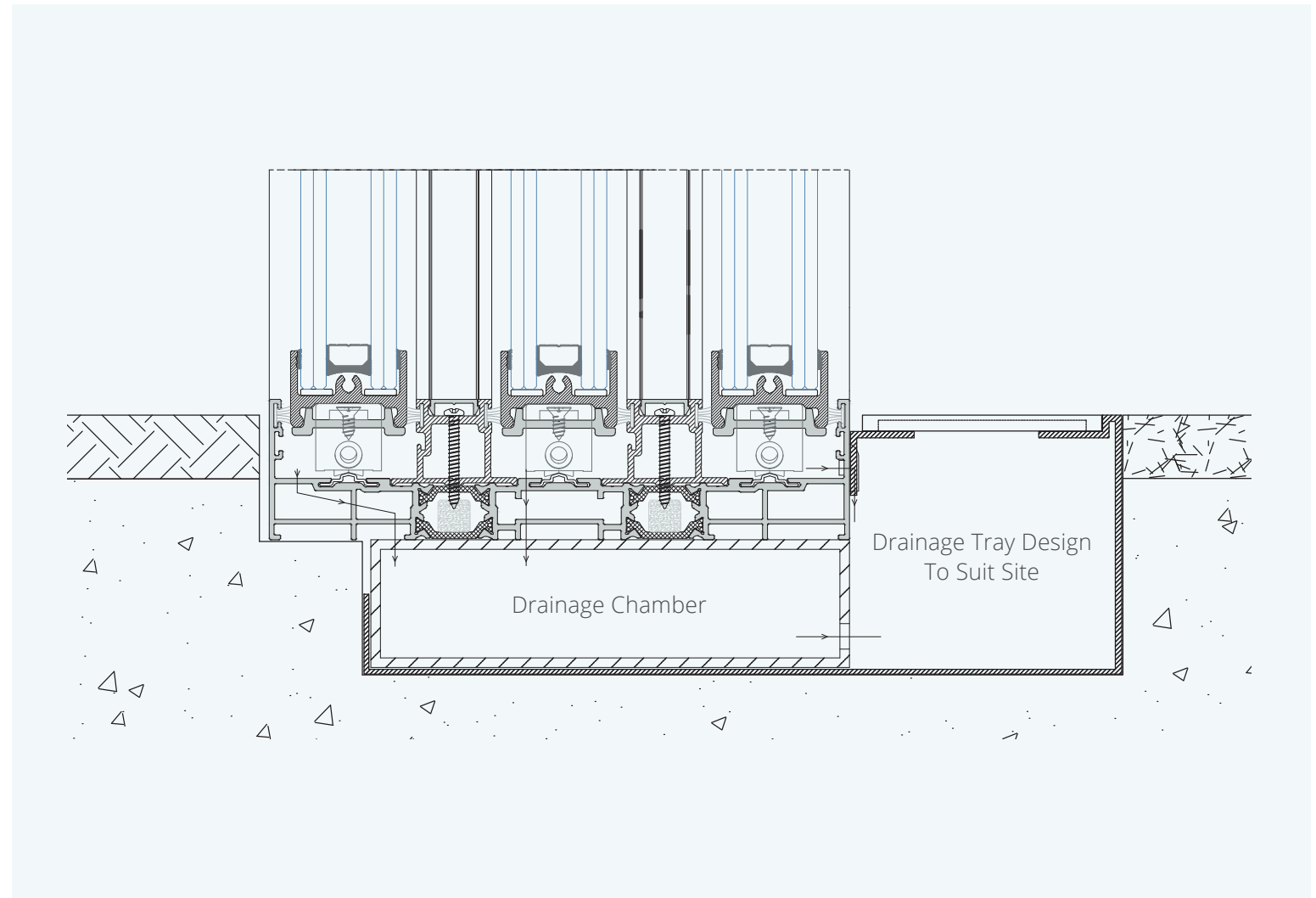
With a highly sophisticated 20mm labyrinth arrangement providing both an industry leading strength together with polyamide thermal separation this is the cornerstone of the ÜniSlide system.

ÜniSlide capitalizes on these advantages offering the highest performance results.



Construction interfaces

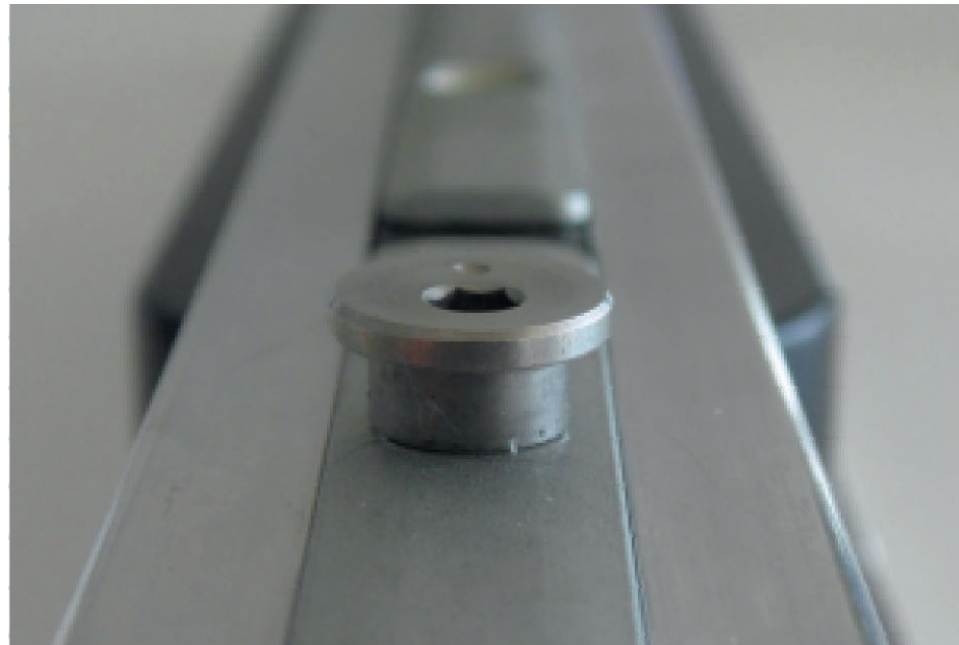
Due to clever design ÜniSlide can be integrated within the building envelope therefore providing a level threshold with integrated drainage system that can easily be bespoke to each project and has proved to offer high standards of water evacuation together with invisible jamb profiles.



Operation and security

ÜniSlide operates with an ease and a reliability expected from the world's highest quality composition of materials and fabrication techniques.

With a fully functional euro cylinder lock located within the deceit handle and multi point stainless steel security cams you can be assured of the highest security.



Weather tests

ÜniSlide can provide a complete, frameless closure of the building envelope in a seamless, limitless width and up to 3000mm floor to ceiling height, thus providing a high tech interface between the internal comforts and all that the outside elements can muster from the depth of winter to the height of summer.

Weather testing is crucial to ensuring the high tech performance of ÜniSlide and testing is carried out on a 3000mm full-height ÜniSlide door, supervised by an independent CE approved Notified Body. ÜniSlide is tested to achieve the specific British weather performance as required in the British Standard BS 6375-1, not to a generic performance requirement from continental Europe.



Weather test on ÜniSlide door

The specification of windows and doors in the UK should be carried out in accordance with BS 6375 Part 1 "Performance of windows and doors Part 1: Classification for weathertightness and guidance on selection and specification".

This Standard is used to design windows for weathertightness by firstly obtaining the design wind loading for the site. This can be calculated from the British Standard for wind loading of buildings or from an abbreviated version of this method, which is contained in BS 6375-1. BS 6375-1 then gives the appropriate classes of air permeability and watertightness necessary for the calculated design wind load, and the windows or doors to be supplied should meet these performance classes.

For most of England and Wales, the design wind load is usually in the range 800 Pa to 1600 Pa.

Weather tests on the ÜniSlide door demonstrate that it meets the 1600 Pa level at a size of 4.4m wide x 3.0m high, and it is therefore appropriate for most of England & Wales. Greater widths are allowable by specifying multiple sliding leaves, as long as each leaf is a maximum of 2.2m wide.

The wind resistance test included a safety test to 2400Pa, which is equivalent to a wind speed of 141 mph (Hurricane Category 4).

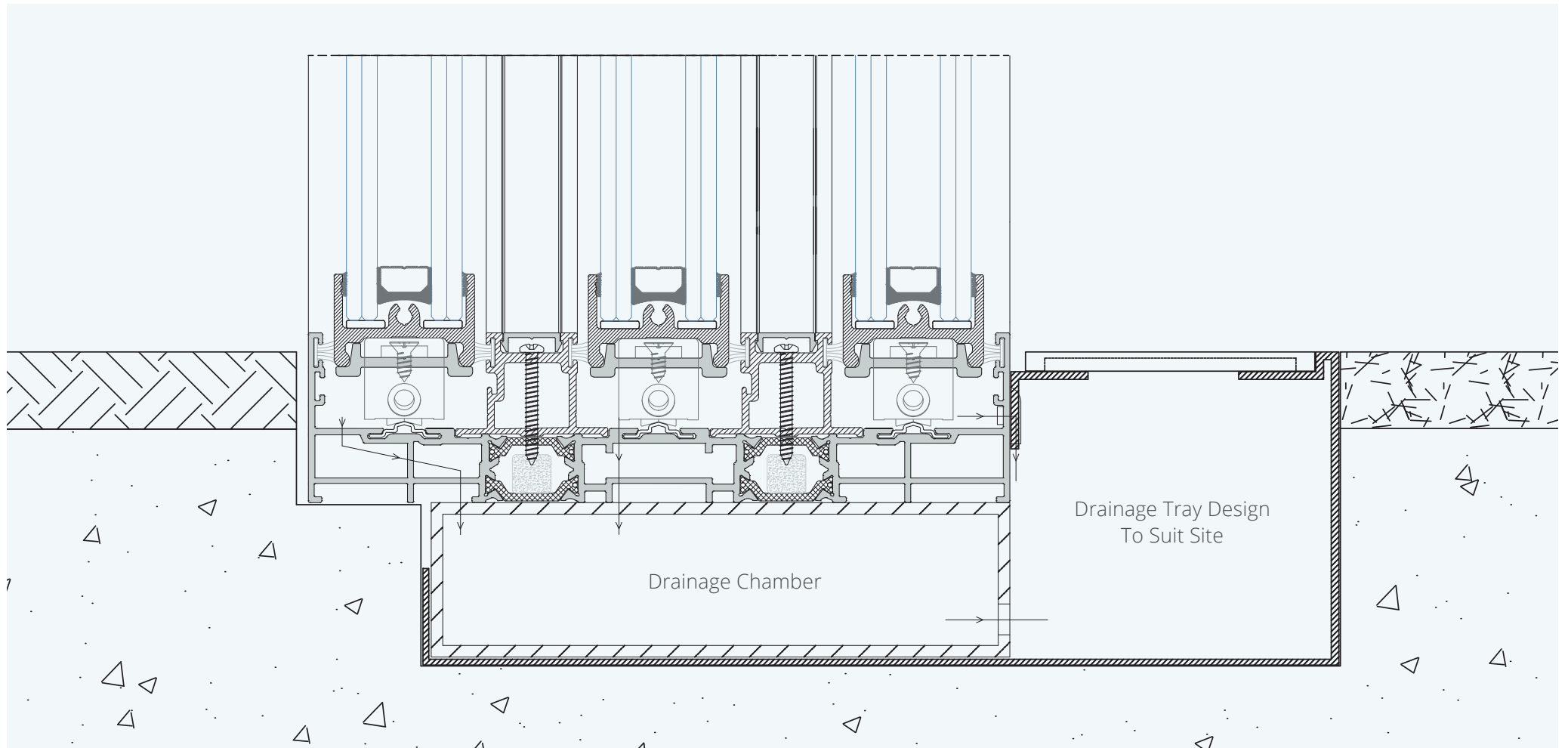
The dynamic pressure of wind is described by the equation:-

$$q_b = \frac{1}{2} \cdot \rho \cdot v_b^2$$

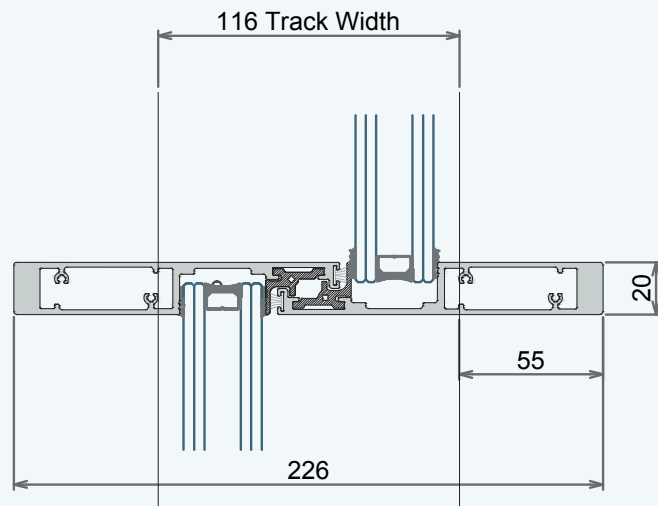
where q_b is the wind pressure, ρ is a constant equal to the density of air, usually taken as 1.25 kg/m³ and v_b is the velocity of the wind.

Air Permeability	Class3
Water Tightness	Class 5A
Resistance to wind load	Class A4

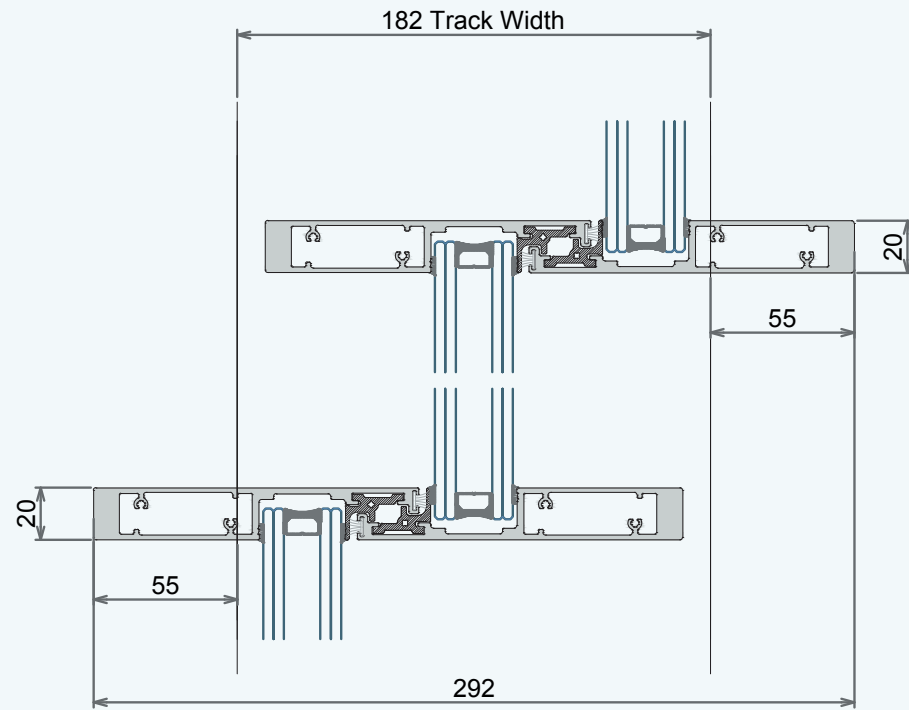
Typical drainage detail



Typical Section Details

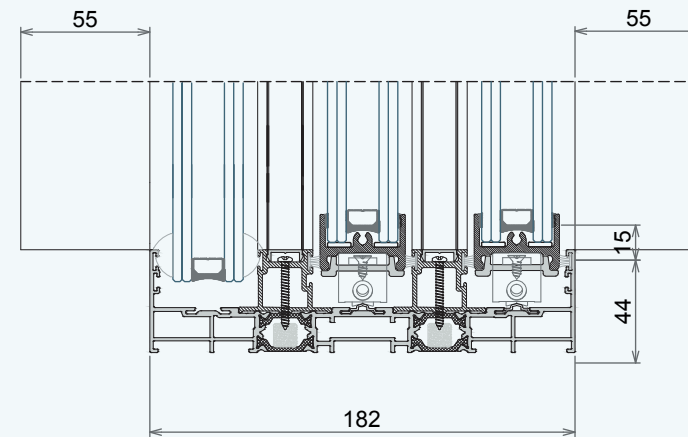
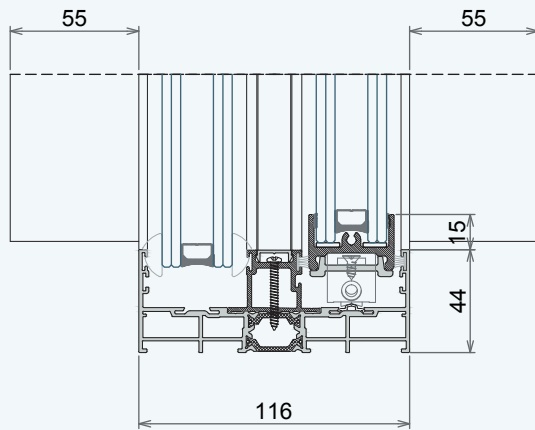
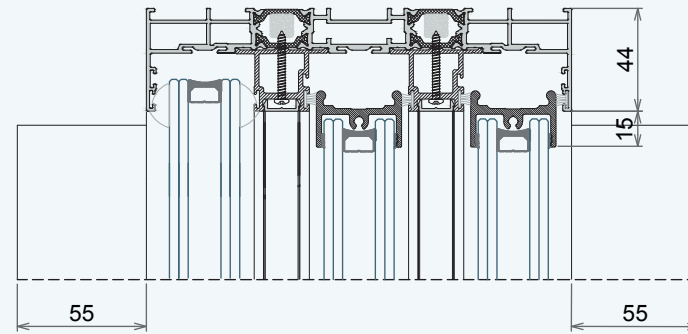
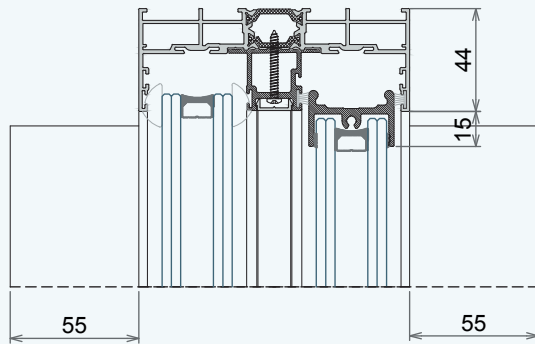


Double Track Interlock Detail

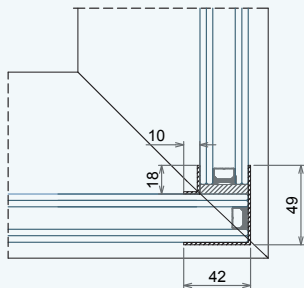


Triple Track Interlock Detail

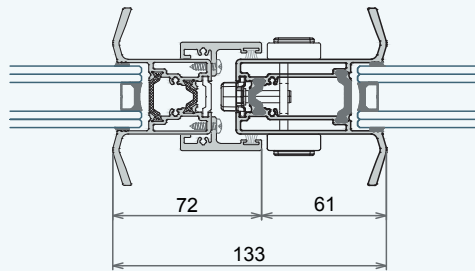
Typical Head and Threshold Details



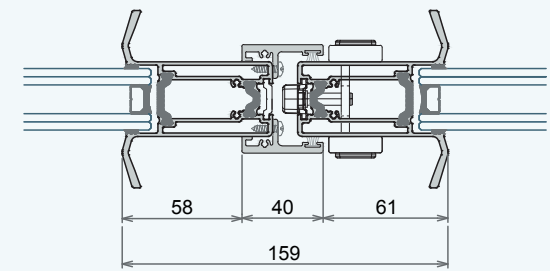
Typical Section Details



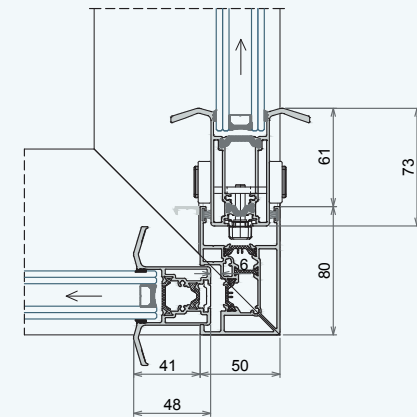
Fixed Corner Glazing Detail



Centre Opening Detail

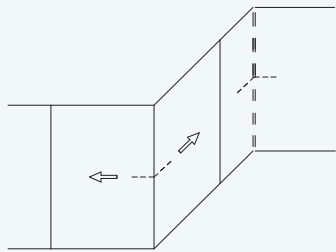


Centre Opening Detail

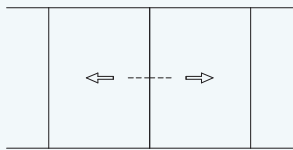


Opening Corner Detail

Typical opening possibilities




Corner Opening



Centre Opening



The logo consists of the letters 'U', 'N', and 'I' in a stylized, outlined font. The 'U' is blue, the 'N' is green, and the 'I' is orange. To the right of the logo, the text 'Üni_Slide Panoramic Sliding Door' is written in a clean, sans-serif font.

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