NVELOPE® Systems

The NVELOPE® range is made up of brackets and rails in various configurations to suit Pura Facades® panel applications. All systems are available in aluminium, and all systems can be supplied with the insulation pad for enhanced thermal performance. Most systems are also available with stainless steel brackets to improve thermal capabilities even further.

NV1 is the NVELOPE® back frame – vertical cladding applications.

A SS

NV2 is suitable for concealed fix cladding applications – structural bond (ie. Sika Sikatack Panel System)

A SS

NV3 is the NVELOPE® system for concealed fix/ mechanically fixed applications.

A SS

NV6 is the NVELOPE® system for supporting a timber batten – vertical cladding applications (to support vertical and/or horizontal cladding elements).

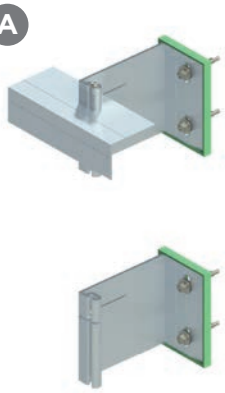
A SS

NVF2F is the NVELOPE® back frame – vertical floor to floor cladding applications.

A

NH3 is the NVELOPE® system used to support horizontal elements

A



A System available in aluminium SS Brackets available in stainless steel

All NVELOPE® aluminium and stainless-steel brackets are defined as Euroclass A1 Non-Combustible EC Directive – 94/611/EC and the Thermal Pad has an A2 Non-Combustible Euroclassification. As with al SFS products NVELOPE® offer an industry leading warranty

Aluminium brackets are manufactured from extruded 6005A T6 alloys conforming to EN 573-3 materials and EN 755 production standards providing exceptional strength and durability and ideal for good thermal performance. The stainless-steel brackets utilise the superior 316 grade of material which provides increased resistance to localised corrosion such as in marine or polluted environments. The stainless-steel brackets also provide superior thermal performance. The Thermal options incorporate the options incorporate the addition of thermal insulant in the form of a bonded non-compressible insulating pad to enable exceptional thermal performance to be achieved.

Types of Fixing System

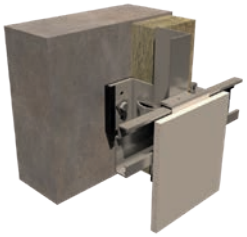
Face Fix

The simplest and least expensive method of fixing cladding is by screw or rivet, directly onto a timber batten or aluminium vertical rail which itself has been fixed to the substructure. Vandal resistant torx screws can be powder coated to colour match the cladding and are generally used with a neoprene gasket as protection for the timber substrate and to give a shadow line effect.

For a lightweight and low maintenance alternative to timber, cladding can be fixed to an aluminium sub frame using rivets. The system is fully adjustable to accommodate even the most awkward and uneven scenario. It is available with cavity ranges from 50mm to 420mm allowing for consistent smooth lines that façade cladding is known for.

Secret Fix Adhesive

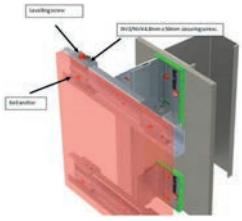
If the required finish is for the fixings not to be seen, a secret fixing using adhesive is a possibility. This gives you clean looking, un-inhibited lines and contours and is often a more cost-effective alternative to a mechanical secret fix option using hangers and rails. You can achieve a seamless appearance using adhesive to either a timber or aluminium substrate. Adhesive can be used within a temperature range of 5 to 35 degrees with air humidity of no more than 75%. A bead of adhesive is usually applied vertically in a strip along the cladding panel, by using a gun. Check fire regulations; not suitable for buildings over 18m high.



Mechanical Secret Fix

A fixing method can be designed using an aluminium frame structure onto which the cladding panel can be hung using a variety of brackets, appropriate screws and hanger systems. A clip or hanger can be fitted to the rear of the panel using an undercut anchor and bolt fixing. This fixing system is often referred to as 'concealed fix'. Architects favour the seamless panel surface visual achieved using this fixing method.

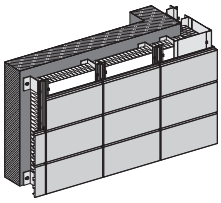
Specialist Manufacturer Framing Systems



GRC Mechanical Secret Fix

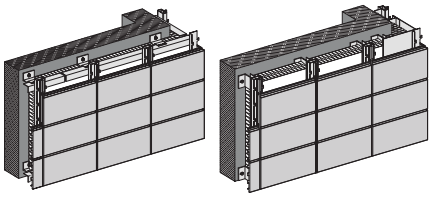
This secret fix system is suited to panels with a minimum thickness of 13mm when using Keil anchors. Hangers are fixed to the rear of the cladding panel, with the hangers hooking onto horizontal rails. This in turn is then fixed to a vertical rail which is itself fixed back to a wall bracket.

The use of brackets with pre-fitted thermopads and 'teeth' enables the vertical rail to be held in place whilst the installer adjusts it 'in and out' and 'up and down' prior to locking down.



TONALITY® Base Clinch Rail System (BAS)

This can be fixed to a vertical primary substructure of wall brackets and T-sections. Joint and support profiles come pre connected and each joint profile enables additional design possibilities. Available as an external corner solution is the TONALITY 90° external corner profile for mitred corners as well as the TONALITY 30 x 30 mm external corner profile for open corners. Reveal and lintel profiles are available for fixation of tiles in window and door areas. The system components are complemented by the universally applicable BAS Flex holder.



The TONALITY® Adaptive System (ADS)

This can be attached to a horizontal or vertical primary substructure. The TONALITY ADS vertical profiles are available in system depths of 46 mm, 56 mm and 66 mm. The TONALITY adaptive vertical profiles accept either joint profiles with closed, fine or open joints or end profiles without joints. Left and right-hand external corner profiles are available for mitred corners. The TONALITY 30 x 30 mm external corner profile is used for open corners with profiles of 56- and 66-mm system depths. Reveal and lintel profiles are available for fixing tiles in window and door areas.