













Essential to architects and installers

NVELOPE

Thermally broken cladding support systems

There are many characteristics that any cladding support system must have to meet today's building requirements. Demanding energy standards and building codes that need to be met create design problems to overcome.

With Nvelope thermally broken cladding support systems:

- Structurally sound
- Thermally predictable
- Safe in a fire
- Suitable for most cladding types
- Easy to install / adjust
- Cost effective
- Wide range of cavity depths







Sustainability Our green credentials

Bridging the thermal gap

Emphasis on the performance of the building details and additional losses through linear thermal bridging is paramount. Thermal bridging is the coupling of wall elements that work to transfer valuable energy into and out of the system. Since the attachment of ventilated cladding must go through the thermal insulation into the substrate, this cannot be avoided. Nvelope NV and NH brackets provide for the thermal decoupling of the substructure from the ventilated facade through thermal separation layers. The brackets are pre-assembled with thermal isolators which help reduce thermal bridging. In addition, Nvelope isolators prevent a chemical reaction from occurring between the aluminum brackets and the lime in the concrete frame as well as bimetallic corrosion between steel and aluminum.



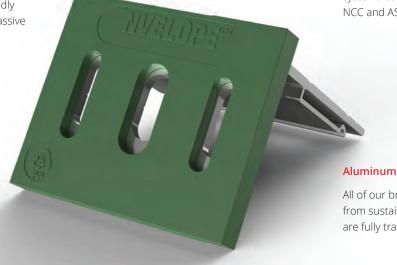
- · Featured as standard on all Nvelope brackets
- · Pre-fastened isolators enable quick bracket assembly
- · Flame retardant polypropylene copolymer
- · Recyclable/ecologically friendly

· Low thermal conductivity passive house application



brackets and rails are made of non-combustible, sustainable aluminum, which does not burn.

Nvelope cladding attachment systems comply to all relevant NCC and AS/NZS standards.



All of our brackets are produced from sustainable aluminum and are fully traceable.

Red List Free

Nvelope thermally broken cladding support system is Red List Free. Visit the International Living Future Institute (ILFI), for the complete Nvelope Declare label details.



NVELOPE systems

NV1 - Face fastening system

Adjustable aluminium sub-framing system for mechanically face fastened cladding applications.



NV3 - Concealed fixing system

Adjustable aluminium subframing system for mechanically concealed fastened cladding applications.



NV9 - Top hat face fastening system

The NV9 Omega & Z profiles for mechanical face fastened panels. Can be used in C5 corrosive zones like all other Nvelope models.



NH3 - Face fastening system

Adjustable aluminium sub-framing system to support mechanically face fastened narrow vertical panel applications.



NVF2F - Face fastening system

Adjustable aluminium subframing system for floor to floor cladding applications.



Brackets

the system's backbone

Nvelope® vertical brackets are the backbone of all Nvelope® cladding systems. Available in standard height dimensions of 40 - 300mm, there are two size categories single and double. Single brackets allow the facade to "float" on the subconstruction by absorbing wind load and allowing for expansion and contraction. Double brackets support both vertical weight loads and horizontal wind loads. Brackets are specifically designed for attachment to steel, masonry or timber substructures.



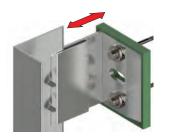


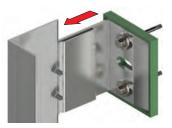
Bracket Features

Adjustability

Bracket "helping hand" allows for rail insertion depth up to 40mm max, which ensures that facade panels are plumb and true, thus eliminating the need for shims.



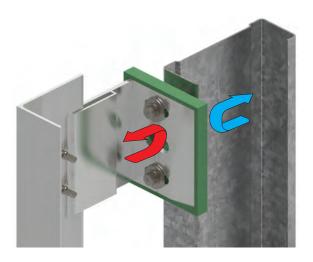






Fast & Easy to Install

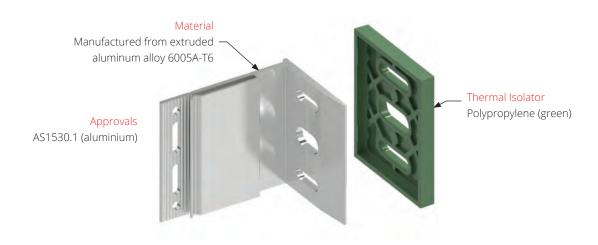
The "helping hand" bracket holds the rail in place to allow up to 50 % faster install.



Thermal Efficient

Thermal isolator provides thermal break to reduce energy loss through wall assembly.

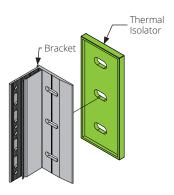
Basic Specs



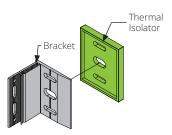


NVELOPE NV1 NV1 NV2 NV2 NV3 Bracket Range

The base sub-framing for the Nvelope® NV1, NV2 and NV3 systems. Nvelope® 'T' and 'L' profiles are fixed using the support brackets, fixed through a series of fixed and sliding points.

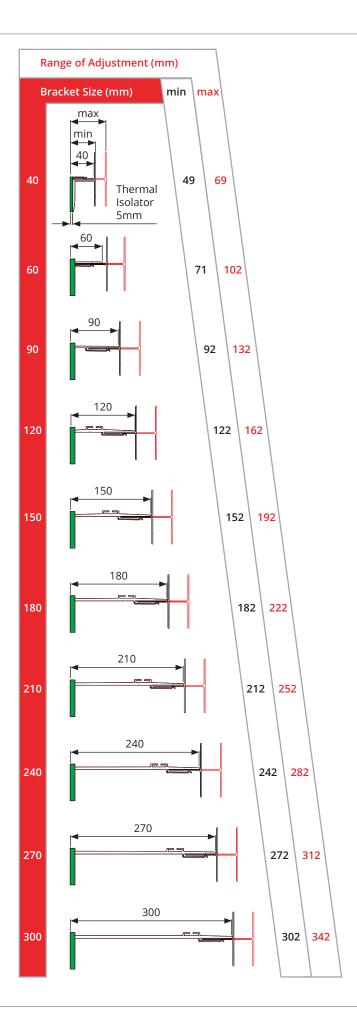


Fixed point double bracket



Sliding point single bracket

Isolators are included as standard. If isolators are not required, reduce dimensions by 5mm

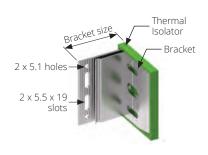


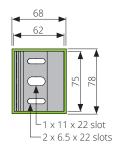


Single Bracket - Universal

For steel, timber, concrete or filled CMU substrate 2×6.5 mm slot, 1×11 mm slot

Product Code	Size
Product Code	(mm)
01/VB040S-11/6.5	40
01/VB060S-11/6.5	60
01/VB090S-11/6.5	90
01/VB120S-11/6.5	120
*01/VB150S/11-6.5	150
*01/VB180S/11-6.5	180
*01/VB210S/11-6.5	210
*01/VB240S/11-6.5	240
*01/VB270S/11-6.5	270
*01/VB300S/11-6.5	300

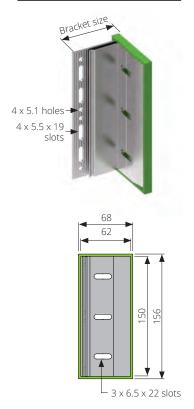




Double Bracket - 6.5

For steel and timber substrates 3 x 6.5 mm slot

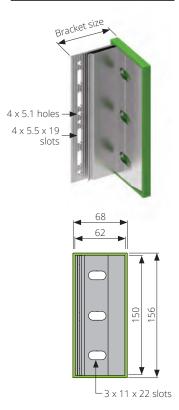
Product Code	Size
Froduct Code	(mm)
01/VB040D-6.5	40
01/VB060D-6.5	60
01/VB090D-6.5	90
01/VB120D-6.5	120
*01/VB150S-6.5	150
*01/VB180D-6.5	180
*01/VB210D-6.5	210
*01/VB240D-6.5	240
*01/VB270D-6.5	270
*01/VB300D-6.5	300



Double Bracket - 11

For concrete or filled CMU substrate 3 x 11mm slot

Product Code	Size
Product Code	(mm)
01/VB040D-11	40
01/VB060D-11	60
01/VB090D-11	90
01/VB120D-11	120
*01/VB150D-11	150
*01/VB180D-11	180
*01/VB210D-11	210
*01/VB240D-11	240
*01/VB270D-11	270
*01/VB300D-11	300



Bracket Extensions

Product Code	Description
01/EX-PC-75	Bracket Extension piece single
01/EX-PC-150	Bracket Extension piece double



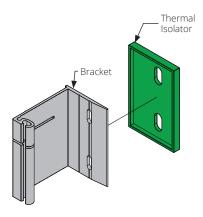


^{*} Brackets subject to availability. Contact DC Tech for further details

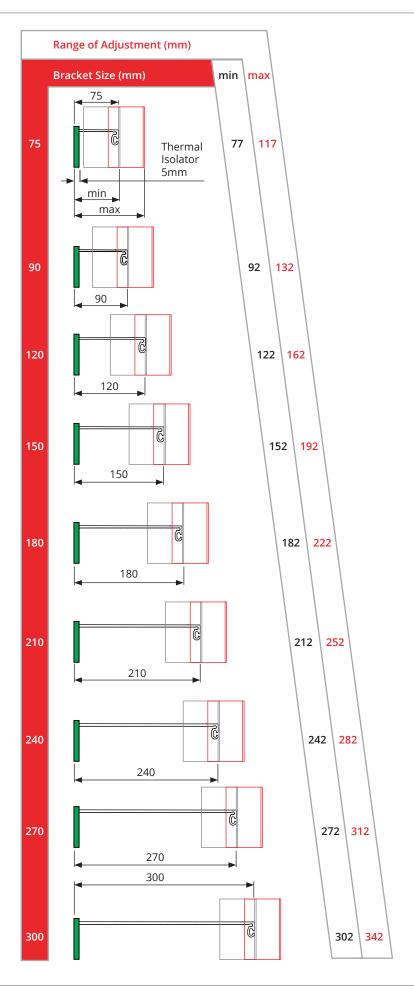


NVELOPE NH3 Bracket Range

NH3 is the Nvelope® horizontal bracket system suited for face fixed narrow vertical panels.



Isolators are included as standard. If isolators are not required, reduce dimensions by 5mm



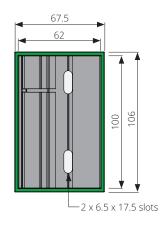


Bracket - 6.5

For steel and timber substrates 2 x 6.5 mm slot

2 X 0.5 11111 5100	
Duadinat Cada	Size
Product Code	(mm)
*01/NH3-075-6.5	75
*01/NH3-090-6.5	90
*01/NH3-120-6.5	120
*01/NH3-150-6.5	150
*01/NH3-180-6.5	180
*01/NH3-210-6.5	210
*01/NH3-240-6.5	240
*01/NH3-270-6.5	270
*01/NH3-300-6.5	300



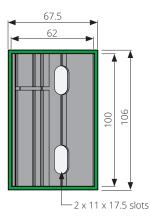


Bracket - 11

For concrete or filled CMU substrate 2 x 11mm slot

Product Code	Size
	(mm)
*01/NH3-075-11	75
*01/NH3-090-11	90
*01/NH3-120-11	120
*01/NH3-150-11	150
*01/NH3-180-11	180
*01/NH3-210-11	210
*01/NH3-240-11	240
*01/NH3-270-11	270
*01/NH3-300-11	300





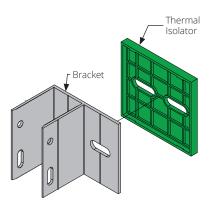
^{*} Brackets subject to availability. Contact DC Tech for further details



NVELOPE NVF2F

Bracket Range

NVF2F is the subframe system suitable for vertical floor to floor cladding applications. NVF2F can support the NV3 system.



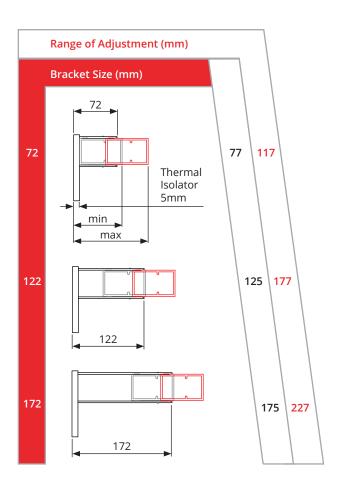
Isolators are included as standard. If isolators are not required, reduce dimensions by 5mm

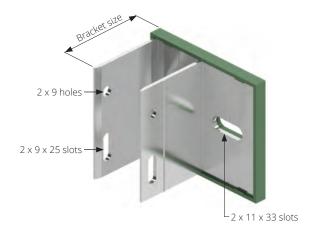
Bracket - 11

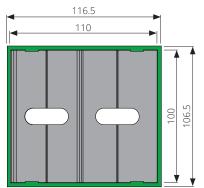
For concrete or filled CMU substrate 2 x 11mm slot

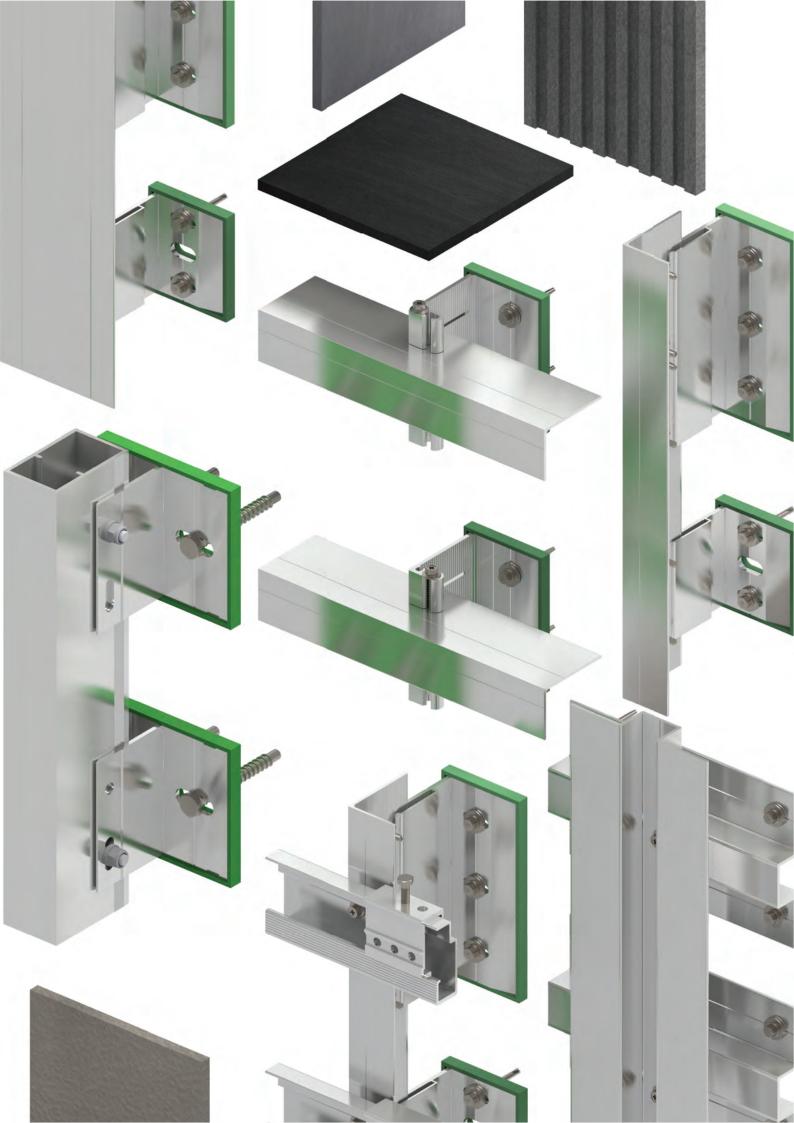
Due do et Ce de	Size
Product Code	(mm)
*01/NVF2F-072	72
*01/NVF2F-122	122
*01/NVF2F-172	172

* Brackets subject to availability. Contact DC Tech for further details











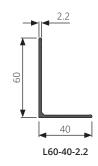
Extrusions and cladding components

Generally, extrusions are cut to lengths that reflect the height of the panels that are going to be fixed to them. Typically storey-height profiles are cut so that the panels are located on one set of vertical profiles and do not 'bridge' the expansion gap between two profiles. These are secured to the bracket using a secondary fixing.

L Rails

Product Code	Description
*02/L60-40-2.2-3000	L Profile 60 x 40 x 2.2 x 3000
02/L60-40-2.2-6000	L Profile 60 x 40 x 2.2 x 6000

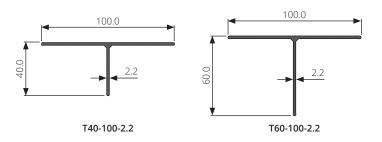
Powder coating or anodising available upon request



T Rails

Product Code	Description
*02/T40-100-2.2-3000	T Profile 40 x 100 x 2.2 x 3000
02/T40-100-2.2-6000	T Profile 60 x 40 x 2.2 x 6000
*02/T60-100-2.2-3000	T Profile 60 x 100 x 2.2 x 3000
02/T60-100-2.2-6000	T Profile 60 x 40 x 2.2 x 6000

Powder coating or anodising available upon request

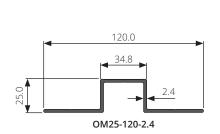


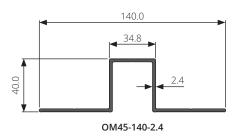
Omega Rails & Trim

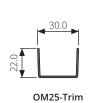
Product Code	Description
02/OM25-120-2.4- 6000	25mm Omega - Mill Finish 6000
*02/OM25-120-2.4-6000-PC	25mm Omega - Powder Coat Finish 6000
*02/OM40-140-2.4-6000	40mm Omega - Mill Finish 6000
*02/OM40-140-2.4-6000-PC	40mm Omega - Powder Coat Finish 6000
02/OM25-Trim-3000	Omega 25 Centre Trim - Mill Finish 30 x 22 x3000
*02/OM25-Trim-3000-PCBK	Omega 25 Centre Trim - Black Powder Coat Finish 30 x 22 x3000
06/T61101-25M	24mm x 1.6mm thick single sided EPDM tape - 25m roll

Powder coating or anodising available upon request

^{*}Available upon request, lead time applies









06/T61101-25M

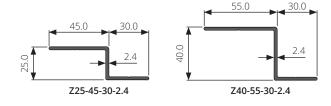
^{*}Available upon request, lead time applies

^{*}Available upon request, lead time applies



Z Rails

Product Code	Description
02/Z25-45-30-2.4-6000	25mm Z - Mill Finish x 6000
*02/Z25-45-30-2.4-6000-PC	25mm Z - Powder Coat Finish x 6000
*02/Z40-55-30-2.4-6000	40mm Z - Mill Finish x 6000
*02/Z40-55-30-2.4-6000-PC	40mm Z - Powder Coat Finish x 6000



Powder coating or anodising available upon request

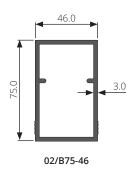
Box Rails

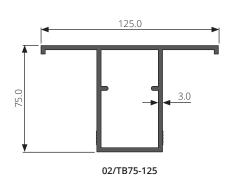
Product Code	Description
02/B75-46-6000	NVF2F Box Profile 46 x 75 x 3.0 x 6000
02/TB75-125-6000	NVF2F T Box Profile 125 x 75 x 3.0 x 6000

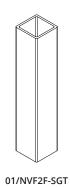
Spigot

Product Code	Description	
01/NVF2F-SGT	NVF2F Joining spigot	

Powder coating or anodising available upon request



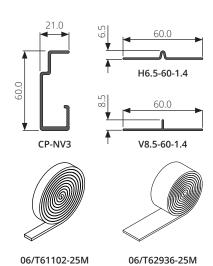




NV3 Rails, Trim

Product Code	Description	
02/CP-NV3-3000	Carrier Profile NV3 System x 3000	
02/CP-NV3-6000	Carrier Profile NV3 System x 6000	
02/V8.5-60-1.4-3000-PCBK	Vertical Express Joint Backing Trim - Black Powder Coat 8.5 x 60 x 3000	
02/H6.5-60-1.4-3000-PCBK	Horizontal Express Joint Backing Trim - Black Powder Coat 6.5 x 60 x 3000	
06/T61102-25M	12mm x 3.2mm thick single sided EPDM tape - 25m roll	
06/T62936-25M	18mm x 1.6mm thick double sided PE foam tape - 25m roll	

Powder coating or anodising available upon request



^{*}Available upon request, lead time applies

^{*}Available upon request, lead time applies



NV3 Hangers

Product Code	Description	
Tergo Plus		
03/NV3-TER-TEC-ADJF	NV3 Fixed/ Levelling Hanger 1 x Tergo plus (Tectiva Round Hole)	
03/NV3-TER-TEC-STAT	NV3 Static Hanger 1 x Tergo plus (Tectiva Round Hole)	
TUF-S		
03/NV3-TUF-S-ADJ-3.5-M6	NV3 Levelling Hanger 3.5mm thick for TUF - Inc adjust screw (3 holes)	
03/NV3-TUF-S-STAT-3.5	NV3 Static Hanger 3.5mm thick for TUF - (3 holes)	
03/NV3-TUF-S-ADJ-5-M6	NV3 Levelling Hanger 5mm thick for TUF - Inc adjust screw (3 holes)	
03/NV3-TUF-S-STAT-5	NV3 Static Hanger 5mm thick for TUF - (3 holes)	





TUF Hanger

Tergo Hanger

Fasteners for cladding attachment

EQUITONE UNI Rivet

Equitone proprietry colour coded UNI Rivet. Refer to EQUITONE ANZ for information, properties and available sizes of UNI Rivet.



TUF-S

EQUITONE may be installed with TUF-S concealed fasteners. TUF-S can be applied to panels without requiring any special tools or CNC machinery.

TUF-S, excluding the mandrel, is made of 316 (A4) stainless steel. The mandrel is carbon steel zinced and is completely removed once TUF-S is applied.



TUF-S Concealed Fastener					
Panel Drill Thickness Depth TUF-S anchor (mm) (mm)		TUF-S anchor			
8	5.5	04/TUF-S-6x09-A4			
10	5.5	04/TUF-S-6x09-A4			
12	8.5	04/TUF-S-6x12-A4			

Fischer Tergo+

Tergo+, a fixing system of Fischer, is an undercut anchor used for concealed fixing for EQUITONE panels. This fixing system requires special equipment or CNC machinery for drilling the undercut holes at the back of EQUITONE panels.

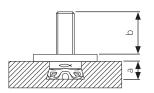
Tergo+ fixing solution is not available for the following materials, EQUITONE [natura], 8mm EQUITONE [natura] PRO, and 8mm EQUITONE [pictura].

Available for EQUITONE [tectiva], EQUITONE [lines] and EQUITONE [lunara] $\,$



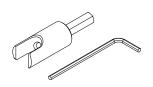


Tergo+ Concealed Fastener Panel Embedment Thread Depth (a) **Thickness** Tergo+ anchor length (b) (mm) (mm) (mm) 8 04/Tergo+ 11X6 13 10 8 13 04/Tergo+ 11X8 12 10 04/Tergo+ 11X10 13





Tools for cladding attachment



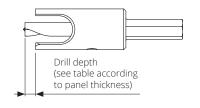
05/TUx-S-UDLUniversal Depth Locator for TU-x-S VHM Drill Bits
(drill bit sold separately)



05/GT-PBPRO-L2GESIPA Powerbird Probattery rivet tool



05/VHM-6,0xBDrill Bit for
TUx-S anchors
(B - see table for length)



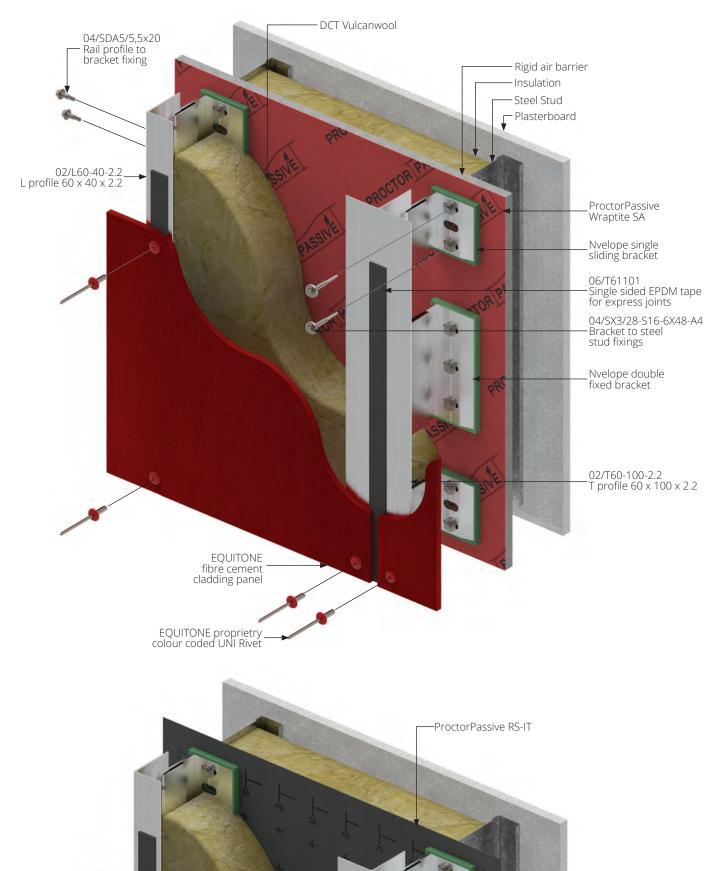
Panel Thickness (mm)	Drill Depth (mm)	Drill Bit
8	5.5	05/VHM-6,0x40.5
10	5.5	05/VHM-6,0x40.5
12	8.5	05/VHM-6,0x43.5

Fasteners for NVELOPE® support systems

04/SDA5/5,5x20	04/SX3/28-S16-6X48-A4	04/TDA-S-S16-6,5X60	04/MULTI-MONTI-S-10X85	04/SXR-10X80-FUS
Bracket to Vertical Rail & Carrier profile to Vertical Rail Fixing	Bracket to Steel Stud fixing A4 (316) stainless steel self drilling fasteners	6.5mm x 60mm Timber Fixing with 16mm Washer	Stainless steel Primary Concrete Structural Anchor	10x80 A4 (316) Anchor with polyamide sleeve Bracket to Concrete/ Brick fixing
Fastener material A4 Stainless Steel with carbon drill tip	Fastener material A4 Stainless Steel with carbon drill tip	Fastener material A4 Stainless Steel with carbon drill tip	Fastener material A4 Stainless Steel bi-metallic	Fastener material A4 Stainless Steel with polyamide sleeve
Diameter 5.5mm	Diameter 6mm	Diameter 6mm	Diameter 10mm	Diameter 10mm
Length 19mm	Length 48mm	Length 64mm	Length 85mm	Length 80mm
Max grip range 8mm	Max grip range 28mm	Max grip range N/A	Max grip range	Max grip range N/A
Drill capacity 8mm	Drill capacity 3mm	Drill capacity N/A	Drill capacity N/A	Drill capacity N/A
Material Aluminium	T	1	Material	Material

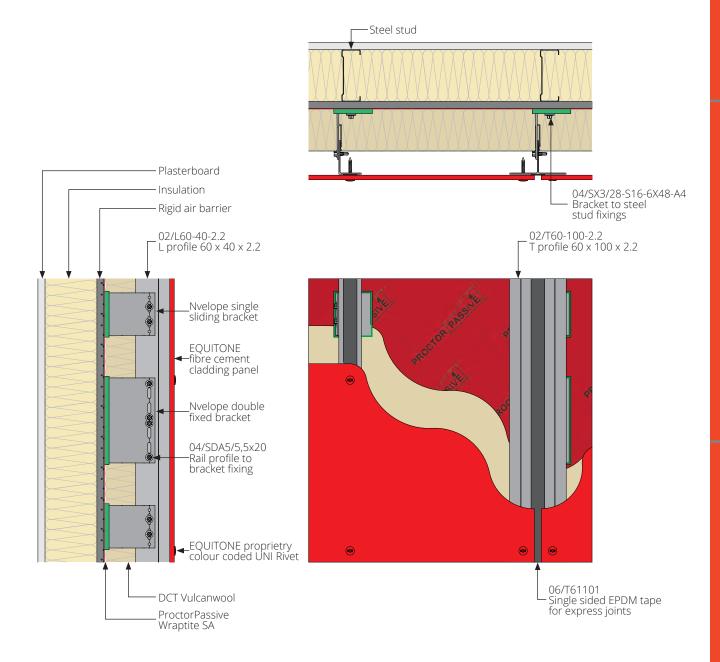


NVELOPE® NV1 System Steel stud construction

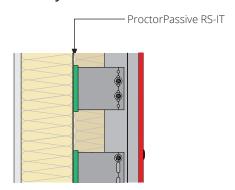




NVELOPE® NV1 system with Rigid air barrier with ProctorPassive Wraptite SA

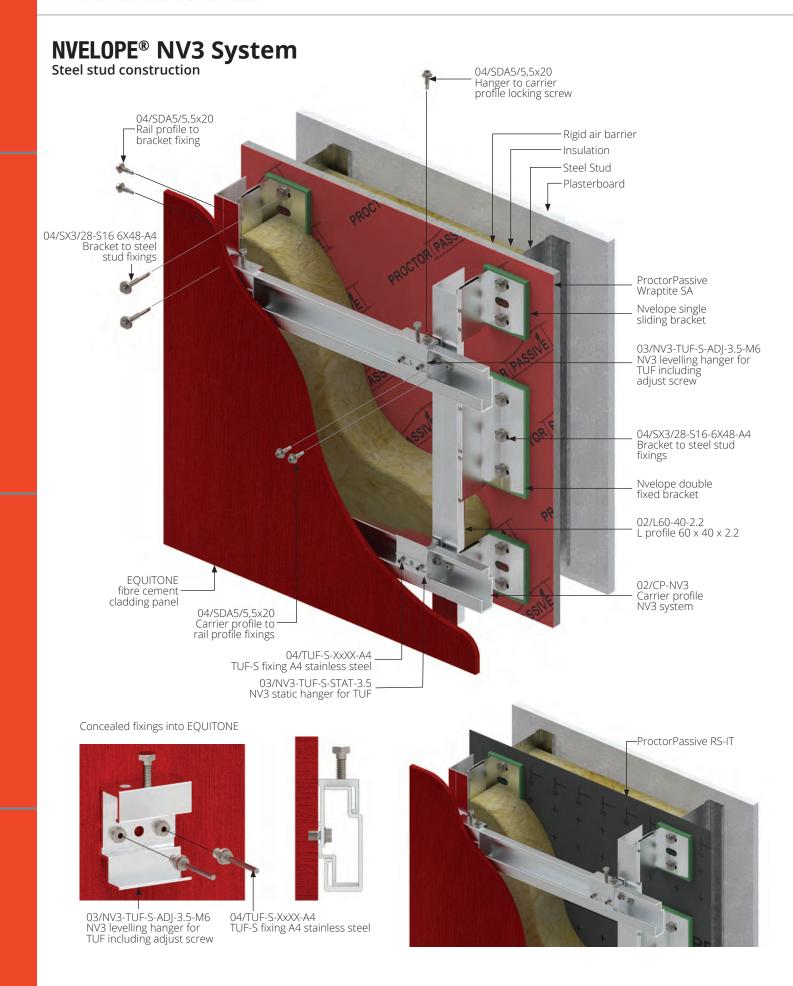


NVELOPE® NV1 system with ProctorPassive RS-IT



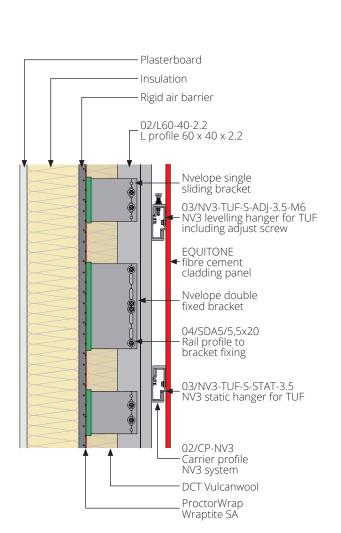


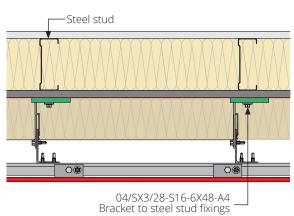


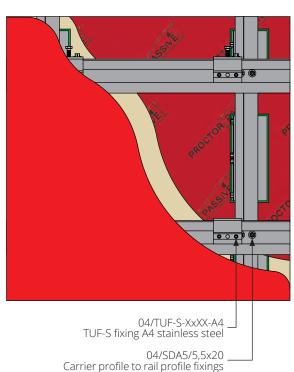




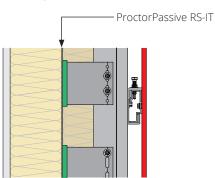
NVELOPE® NV3 system with Rigid air barrier with ProctorPassive Wraptite SA

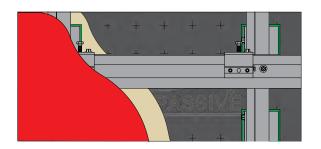






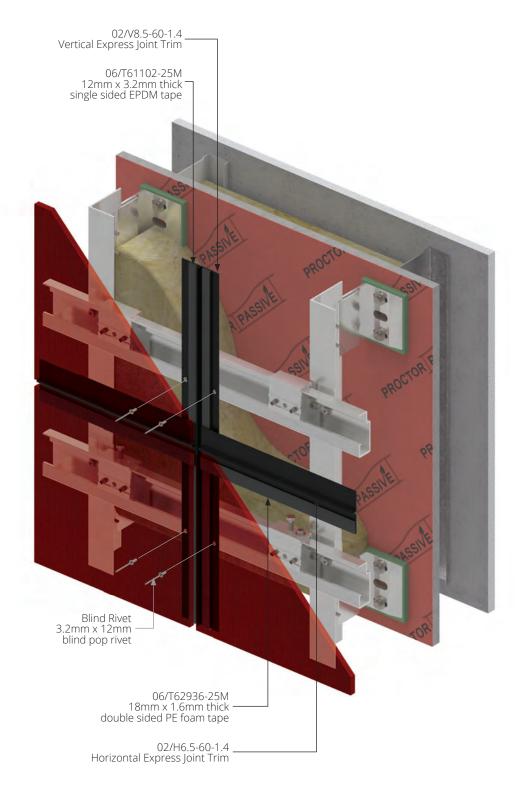
$\mbox{NVELOPE}^{\mbox{\tiny \$}}$ NV3 system with ProctorPassive RS-IT



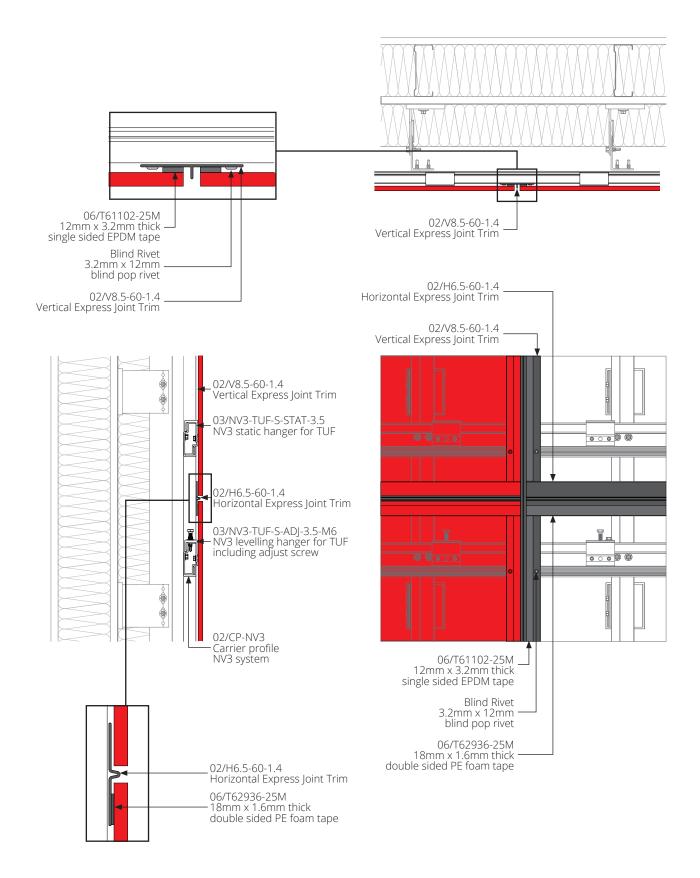




NVELOPE® NV3 System Express Joint Closer

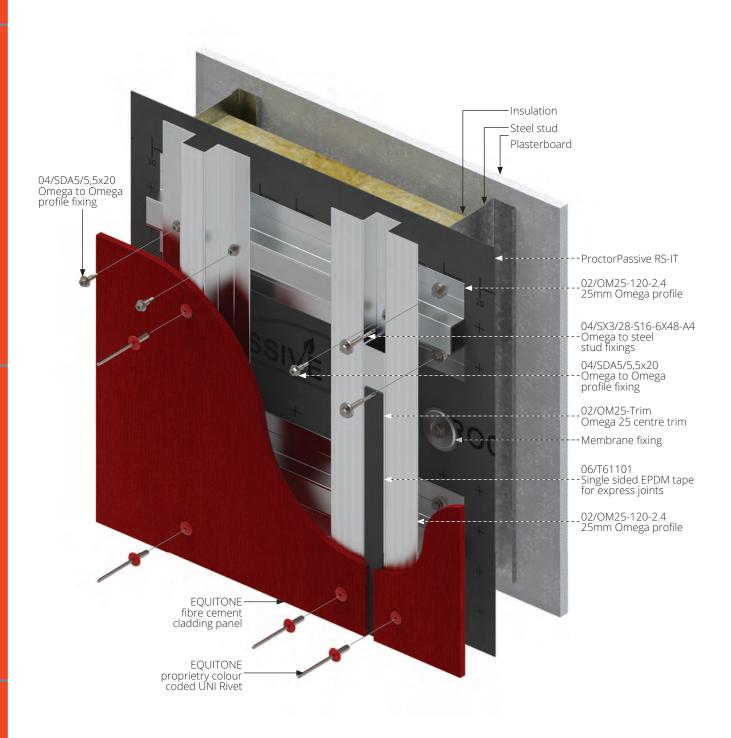






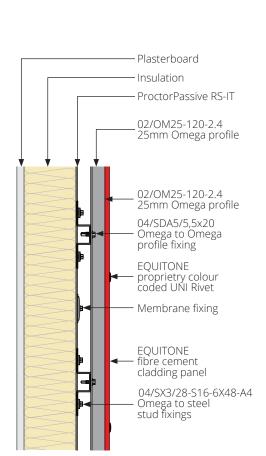


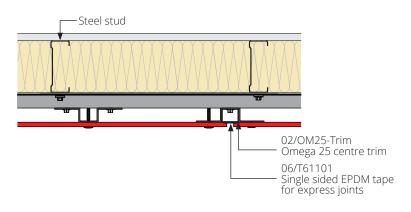
NVELOPE® NV9 System Steel stud construction

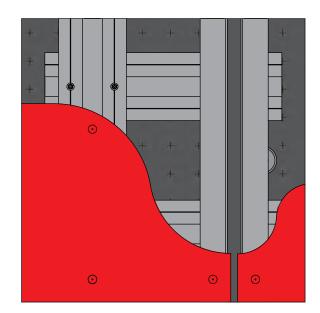




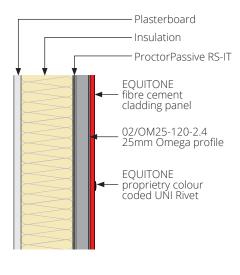
NVELOPE® NV9 (Dual Layer - Omega to Omega) system with ProctorPassive RS-IT

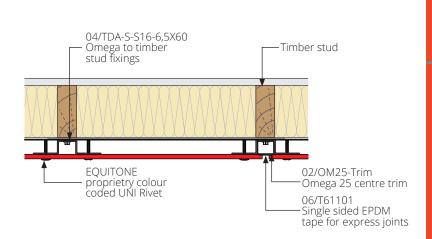






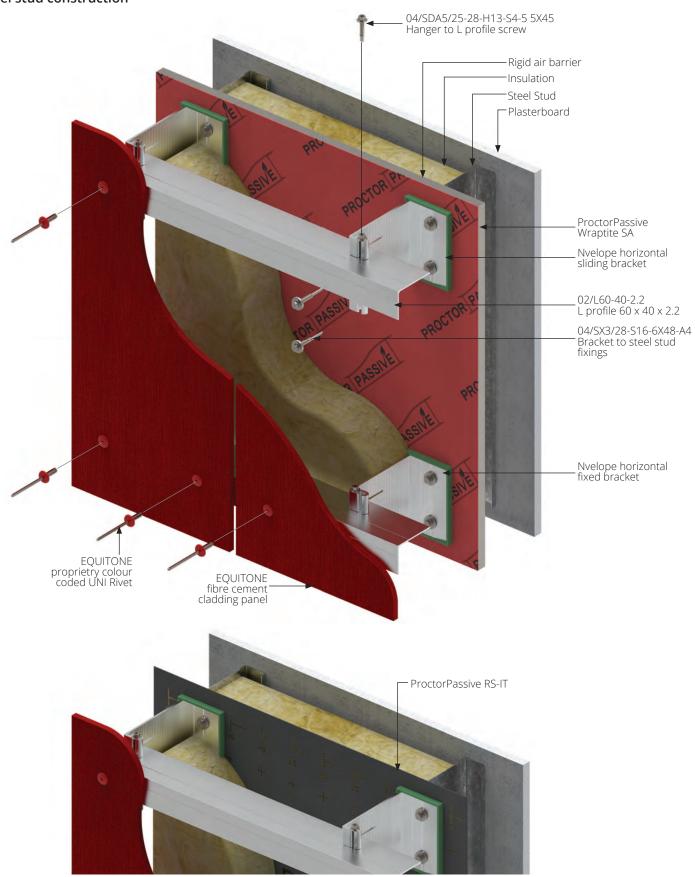
NVELOPE® NV9 (Single Layer - Omega) system





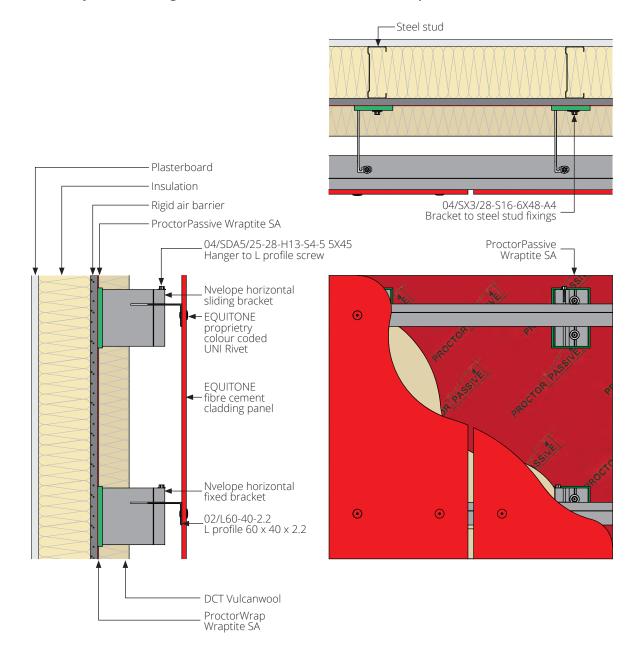


NVELOPE® NH3 System Steel stud construction

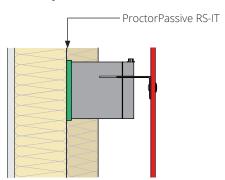


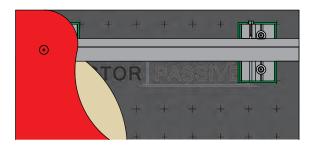


NVELOPE® NH3 system with Rigid air barrier with ProctorPassive Wraptite SA



NVELOPE® NH3 system with ProctorPassive RS-IT







NVELOPE® NVF2F System

