Rainscreen support system for ventilated facade

Designed for architects built for installers

Essential to architects and installers. We ensure that our rainscreen support solutions make the life of the architect and the installer easier and more time efficient. We have been involved in reinscreen uppert systems for more than twenty years. We are focused on staying ahead of the curve and invest in anticipating " what next". We listen to our architectural and installation costumers.

Ansvarsfraskrivelse
Opplysningene er funnet i forsøk og/eller beregninger, og er derfor ikke bindende og er ingen garantier eller sikre egenskaper for ikke-spesifisert bruk. Før utførelse skal derfor samtlige beregninger kontrolleres og godkjennes av den ansvarlige planleggeren. Brukeren er ansvarlig for at evt. lokale eller nasjonale lovlige forskrifter følges. Så fremt loven tillater det, er ytelsene som er oppført i denne funksjons-garantierklæringen avsluttende. SFS gir ingen videre tilståelser angående ytterligere garantikrav som for eksempel angående lovbrudd eller bruksdugeligheten til produktet, verken uttrykkelig eller underforstått. Alle andre garantier eller tilståelser er herved utelukket. SFS overtar uttrykkelig ingen ansvar for anbefalinger eller merknader med tanke på bruken av produktet.Kjøperen foretar handlinger baserende på slike anbefalinger eller merknader fra SFS på egen risiko.

NVELOPE Brackets, Rails and Systems.

Structurally developed from high specification alloys - suitable for supporting even the most demanding façade materials.

- HPL
- Timber / Weatherboard
- Terracotta / Brickslip
- Fibre cement
- Fibre concrete
- Metals - Copper, Zinc, Steel
- ACM
- Render
- Ceramic / Thin stone
- Photovolatic

We hold extensive stocks of our standard façade support systems including brackets, components, extrusions and accessories in all configurations. In-stock items are available for immediate delivery. Project specific, cut profile lengths and bespoke systems solutions are available to order. We turn things around super-fast.

Design

We ensure that our rainscreen brackets and grid systems are safe and optimised with our design support service. We add to the design process with an almost infinite range of façade appearance and layout options.

Our pedigree

NVELOPE support sytems have British Board of Agrément (BBA) certification and are manufactured to ISO 9001 quality management standards. We simplify the complexity of façades. Our systems are able to support almost any type of façade.Concealed fix (mechanical and structural bonding) and visible fix solutions are available. The systems selector will assist in matching the NVELOPE system to the chosen façade materials for your scheme.

System object and static analysis

The structural requirements of the system can be calculated to ensure the integrity of the installation. Project material quantities can be accurately estimated and potential cost savings identified with straightforward access provided via completion of our Project Builder.

Eurocode 9

Implemented to national annex BS EN1999

NVELOPE Rainscreen Cladding bracket support systems and associated fixings have been designed in accordance with the new Eurocode 9 (EC9) and are implemented to National Annex BS EN1999.

35 YEARS DURABILITY

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 09/4678

NV1	NV1 is the NVELOPE back frame – vertical cladding applications.
NV2	NV2 is suitable for concealed fix cladding applications – structural bond (Sika sikatack panel system).
NV3	NV3 is the NVELOPE system for concealed fix / mechanically fixed applications.
NV3/ Wood	NV3 Wood is the Nvelope system for concealed fix/ mechanically fixed applications-wood construction
NH3	NH3 is the Nvelope horizontal rail system suited for face fixed narrow vertical panels.

Generic - Cladding types	NV1	NV2	NV3	NV6	NV7	NVF2F	NH3
ACM	Ok	Ok			Ok	Ok	Ok
Aluminium	Ok	Ok			Ok	Ok	Ok
Brick slip	Ok					Ok	Ok
Ceramic	Ok	Ok	Ok			Ok	Ok
Copper				Ok			
Fibre cement	Ok	Ok	Ok			Ok	Ok
Fibre concrete	Ok	Ok	Ok			Ok	Ok
GRC	Ok	Ok	Ok			Ok	Ok
GRP	Ok	Ok	Ok			Ok	Ok
Glass (non-vision)	Ok	Ok				Ok	Ok
HPL - high pressure laminate	Ok	Ok	Ok			Ok	Ok
Photovoltaic	Ok				Ok	Ok	Ok
Render	Ok			Ok		Ok	Ok
Stainless steel	Ok	Ok		Ok	Ok	Ok	Ok
Terracotta	Ok					Ok	Ok
Timber	Ok		Ok	Ok		Ok	Ok
Timber laminate	Ok	Ok				Ok	Ok
Thin stone	Ok	Ok	Ok			Ok	Ok
Weatherboarding	Ok			Ok		Ok	Ok
Zinc	Ok			Ok	Ok	Ok	Ok

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

Sustainability - our green credentials

Bridging the thermal gap

The 2010 revision to part 'L' places specific emphasis on the performance of the building details and the additional losses through linear thermal bridging.

Thermal bridges cause increased flow of heat and should be taken into consideration when designing a façade / façade system. Since the fixing of ventilated cladding must go through the thermal insulation into the substrate, it cannot be avoided.

Thermal decoupling of the substructure from the ventilated façade is achieved through thermal separation layers.

NVELOPE NV and NH brackets are pre-assembled with thermal isolators – isolators help reduce thermal bridging. In addition, NVELOPE isolators prevent a chemical reaction occurring between aluminium brackets and lime in concrete frames and bimetallic corrosion between steel and aluminium.

The thermal value of NVELOPE brackets / isolators has been calculated – you then go to our Project Builder.

The additional heat loss for each M² is known as the PSI value and this additional heat loss is dependant upon the type of detail, the thermal conductivity of the cladding materials and the quality of the detail design and installation.

Aluminium

Our sustainable brackets

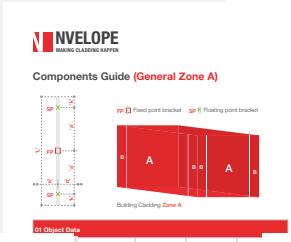
NVELOPE brackets (and profiles) are manufactured in the UK to EN7559 production and EN12020-2 alloy and quality standards. ■

For more: www.nvelope.com/for-architects-quality-safety-economy-choice.html

Project Builder

Project builder is used for quantity calculation of the right type of brackets, rails and fasteners according to criteria such as:

Local wind load, the height of the facade, types of substructure, weight of facade product etc.
By filling in the form with information and facade drawings, we can give a proposal on the drainage system, including attachments and budget price per M2.
If necessary, a term calculation can be taken out for a better U value.


NVELOPE
MAKING CLADDING HAPPEN

Components Guide (General Zone A)

FP Fixed point bracket SP Floating point bracket

Building Cladding Zone A

01 Object Data

	h	6	m
	'L'	2.5	m
type	Type	60	mm
primary fixings	'a'	1.1	m
- end of profile (max.)	'e'	0.15	m
between profiles	'b'	0.6	m
loads			
	g	0.15	kN/m2
	v	45	60
	q	1.241	60
f pressure (CPe 1.2)	wd	2.234	60
- pressure (CPi 1.2)	ws	2.234	60
gth (steel stud)	$F_{v,Rd}$	3.6	60

ctors according to Eurocode
2005 + A1:2010 and BS 6399-3.


NVELOPE
MAKING CLADDING HAPPEN

NVELOPE Project Spec (NVW1046)

For your reference, please find below your project requirements:	
Project name:	NVELOPE Demo
Location:	Welwyn
Building height:	6m
Storey height:	2.5m
Facade type:	aluminium
Facade brand:	-
Facade weight:	15kg/m2
Cladding zone:	90mm
Substrate type:	steel stud
NVELOPE system:	NV2


NVELOPE
MAKING CLADDING HAPPEN

NV2 System Details

Features

NV2 is the NVELOPE system for secret fix/structural bonding applications, vertical cladding applications. NVELOPE T and L profiles are fixed using NVELOPE support brackets, fixed through a series of fixed and flexible points. NVELOPE flexible point brackets absorb wind loading and allow for expansion and contraction. NVELOPE fixed point brackets absorb both vertical dead loads. NVELOPE bracket spacing is determined by cladding options such as the dimensions and weight of the facade cladding, local wind loads.

Usage

NV2 is suitable for secret fix cladding applications, structural bond (silka skeiack panel system), elements to (e.g. fibre cement, high pressure laminate (HPL), ACM and metal rainscreen panels.

An NVELOPE cladding solution

Unlock your cladding scheme by completing and submitting the NVELOPE Project Builder (ideally accompanied with elevation and plan AutoCAD drawings) indicating your proposed cladding requirements.

This will allow us to prepare a project specific NVELOPE cladding solution that includes indicative M² rates, static calculations and setting out information for the support system.

Static Calculations

Supporting the load

A static calculation assesses dynamic forces e.g. wind load and dead loads (weight of the cladding) under project circumstances.

In engineering, static systems do not move or change state – therefore a static calculation ensures that under a given set of circumstances the system (mix of brackets and components) will not move and it will support the load that it's intended to support. ■

For more: www.nvelope.com/cladding-project-checklist-static-thermal-calculations.html

Our Brackets Vertical.

It all starts with an NVELOPE bracket

NVELOPE vertical brackets in standard lengths from 40-300mm adjustment.
Bracket (40mm) has 20 mm adjustment

The bracket is adjusted with grooves in the "helping hand" which holds the rail in place during adjustment.

All NVELOPE brackets are made of aluminum 6005A T6

VB Single Vertical Bracket	Size (mm)	6.5mm For steel / timber frame	11mm For concrete block
	40	VB40S-6.5	VB40S-11
	60	VB60S-6.5	VB60S-11
	90	VB90S-6.5	VB90S-11
	120	VB120S-6.5	VB120S-11
	150	VB150S-6.5	VB150S-11
	180	VB180S-6.5	VB180S-11
	210	VB210S-6.5	VB210S-11
	240	VB240S-6.5	VB240S-11
	270	VB270S-6.5	VB270S-11
	300	VB300S-6.5	VB300S-11

VB Double Vertical Bracket	Size (mm)	6.5mm For steel / timber frame	11mm For concrete block
	40	VB40D-6.5	VB40D-11
	60	VB60D-6.5	VB60D-11
	90	VB90D-6.5	VB90D-11
	120	VB120D-6.5	VB120D-11
	150	VB150D-6.5	VB150D-11
	180	VB180D-6.5	VB180D-11
	210	VB210D-6.5	VB210D-11
	240	VB240D-6.5	VB240D-11
	270	VB270D-6.5	VB270D-11
	300	VB300D-6.5	VB300D-11

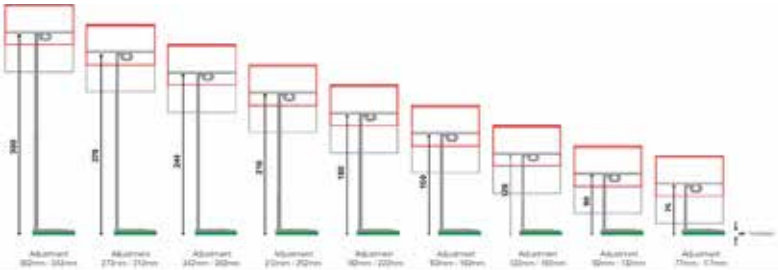
Our Brackets Horizontal


Nygårdskvartalet

It all starts with an NVELOPE bracket

NVELOPE horizontal brackets in standard lengths from 75-300mm adjustment.

All NVELOPE brackets are made of aluminum 6005A T6



NH3 Horizontal brackets for facades		
Size (mm)	**6.5mm For Steel / Timber frame**	**11mm For concrete block**
75	HB075-6,5	HB075-11
90	HB090-6,5	HB090-11
120	HB120-6,5	HB120-11
150	HB150-6,5	HB150-11
180	HB180-6,5	HB180-11
210	HB210-6,5	HB210-11
240	HB240-6,5	HB240-11
270	HB270-6,5	HB270-11
300	HB300-6,5	HB300-11

SFS rails & fixiing

Nvelope Isolator

Standard for NV and NH

- Featured as standard on all NVELOPE brackets
- Pre-fixed isolators enable quick bracket assembly
- Flame retardant polypropylene copolymer
- Recyclable / ecologically friendly
- Low thermal conductivity passive house application

Add NVELOPE rail/s and fixings

The relationship between the façade material and the cladding support system in the context of expansion must be considered.

The rails are clipped into the brackets and, after adjustment for line and level, are fixed to them using self-drilling stainless steel screws.

We hold extensive stocks of our standard cladding support systems rails in all configurations, available for immediate delivery. Project specific, cut profile lengths and bespoke systems solutions are also available. We turn things around super-fast.

Fixings		
Fixing	**Reference**	**Detail**
SDA5	**3,5-6-H13-S4-5,5x20**	Rail to bracket
SDA5	**3,5-6-H13-S4-5,5x20**	Rail to rail
SX5		Metsec steel frame with no cement board or omega
SW3		Rail to timber batten
HT-FH-FT-6x50 (40 og 70)		Brackets to timber
Multi Monti		Concrete substrate

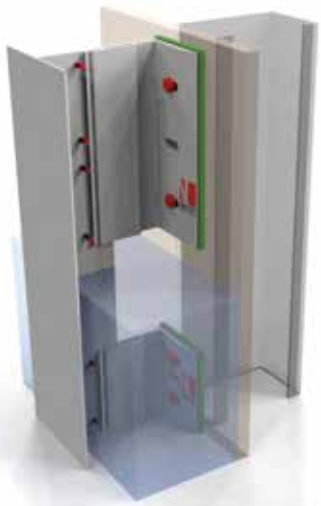
NVELOPE Rails		
L60-40-2.2-3000		60 x 40 x 2.2mm L 3000 = 3 metre length (also comes in 6 metre and 4.85 metre)
T60-80-2.2-3000		60 x 80 x 2.2mm T 3000 = 3 metre length (also comes in 6 metre)
T60-100-2.2-3000		60 x 100 x 2.2mm T 3000 = 3 metre length (also comes in 6 metre and 4.85 metre)
T40-100-2.2-3000		40 x 100 x 2.2mm T 3000 = 3 metre length (also comes in 6 metre and 4.85 metre)
T60-120-2.2-3000		60 x 120 x 2.2mm T 3000 = 3 metre length (also comes in 6 metre and 4.85 metre)
T60-140-2.2-3000		60 x 140 x 2.2mm T 3000 = 3 metre length (also comes in 6 metre)
OM25-120-2.4-3000		25mm Omega 3000 = 3 metre length (also comes in 6 metre)
OM25-140-2.4-3000		40mm Omega 3000 = 3 metre length (also comes in 6 metre)
Z25-45-30-2.4-3000		25mm Zed 3000 = 3 metre length (also comes in 6 metre)
Z40-45-55-2.4-3000		40mm Zed 3000 = 3 metre length (also comes in 6 metre)
NH3 solar rails		
NV3 rails		

NV1.
The Back Frame.

NV1 is the NVELOPE back frame – vertical cladding applications.

Suitable as a back frame system – NV1 is suitable for face fixing / rivet fixing cladding elements to e.g. fibre cement, high-pressure laminate (HPL), ACM and metal rainscreen panels.

NV1 is the basis of all NVELOPE support systems.



Features

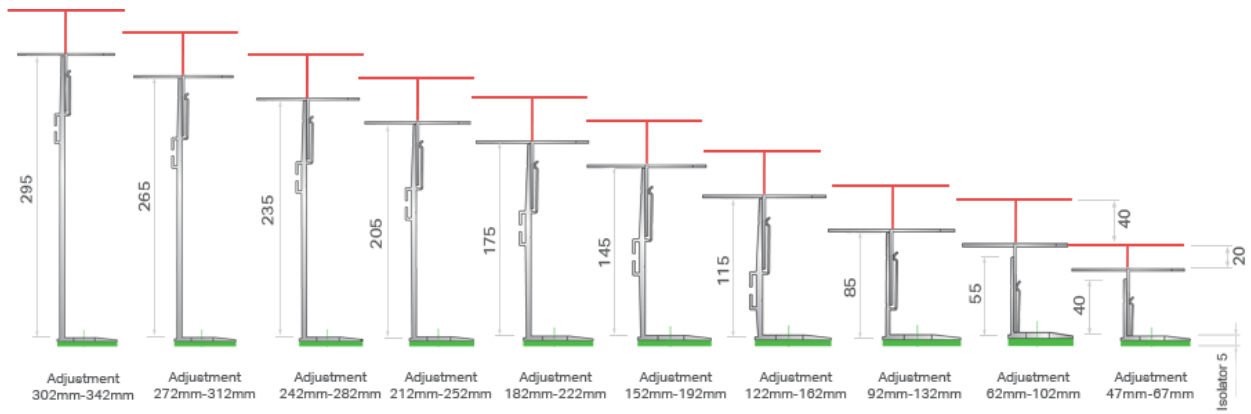
NV1 is the NVELOPE back frame – vertical cladding applications.

NVELOPE 'T' and 'L' profiles are fixed using NVELOPE support brackets, fixed through a series of fixed and flexible points.

NVELOPE flexible point brackets absorb wind loading and allow for expansion and contraction.

NVELOPE fixed point brackets absorb both vertical dead loads.

NVELOPE Bracket spacing is determined by cladding options such as the dimensions and weight of the façade cladding, local wind loads and cladding zone.



Range of Adjustment (Single / Double - 6.5mm / 11mm)		
Size (mm)	**Min (mm)**	**Max (mm)**
NVELOPE 40	47	67
NVELOPE 60	62	102
NVELOPE 90	92	132
NVELOPE 120	122	162
NVELOPE 150	152	192
NVELOPE 180	182	222
NVELOPE 210	212	252
NVELOPE 240	242	282
NVELOPE 270	272	312
NVELOPE 300	302	342
6.5mm holes (suitable for steel and / or timber substrates) / 11mm holes (suitable for block / concrete substrates) NVELOPE isolators: Included as standard - if isolator not required reduce dimensions by 5mm		

Skøyen atrium

More about NV1

Material:

Manufactured from extruded aluminium alloys conforming to EN 573-3 (material) and EN 755 production standards.

Approvals:

British Board of Agrément (BBA) - 09 / 4678

Options:

NVELOPE brackets (V): allows adjustment between the face of the primary support to outer face of vertical profile. Thermal isolators: hard PVC isolator assembled as standard (located between the NVELOPE bracket and the primary structural support system).

For more visit: no.sfs.com

NV2.
Fix / Structural Bonding.

NV2 is the NVELOPE system for concealed fix / structural bonding applications.

NV2 is suitable for concealed fix cladding applications – structural bond (Sika sikatack panel system).

Features

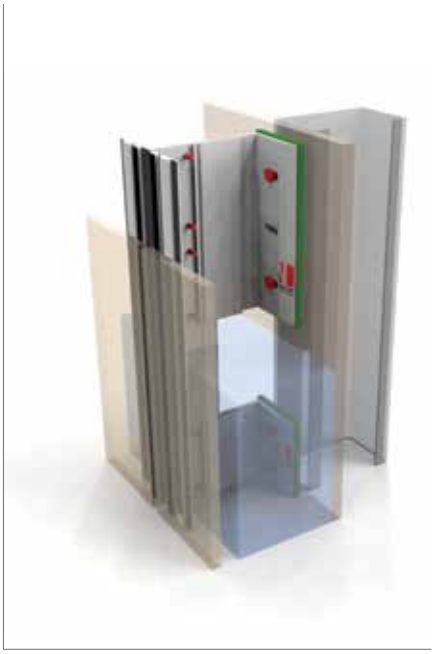
NV2 is the NVELOPE system for secret fix / structural bonding applications – vertical cladding applications.

NVELOPE 'T' and 'L' profiles are fixed using NVELOPE support brackets, fixed through a series of fixed and flexible points.

NVELOPE flexible point brackets absorb wind loading and allow for expansion and contraction.

NVELOPE fixed point brackets absorb both vertical dead loads.

NVELOPE bracket spacing is determined by cladding options such as the dimensions and weight of the facade cladding and local wind loads.



More about NV2

Material:
Manufactured from extruded aluminium alloys conforming to EN 573-3 (material) and EN 755 production standards.

Approvals:
British Board of Agrément (BBA) - 09 / 4678

Options:
NVELOPE brackets (V): allows adjustment between the face of the primary support to outer face of vertical profile. Thermal isolators: hard PVC isolator assembled as standard (located between the NVELOPE bracket and the primary structural support system).

For more visit: www.nvelope.com/cladding-systems-NV2-vertical-cladding.html ■


Nygårdskvartalet

NV2	NV2 = NV1 + Structural adhesive		
	Select NV1 components (bracket and rail) - then - select NV2 structural adhesive requirements		
	Component	**Reference**	**Detail**
	Sika	nor.sika.com	
	Adhesive - 600cc 'sausage'	STS-600	600cc = 13 metre coverage
	Adhesive - 600cc 'sausage' (Tectiva Only)	STP-50-600	600cc = 13 metre coverage
	Adhesive - 300cc 'cartridge'	STC-300	300cc = 6 metre coverage
	Tape (33m)	STT-33M	33m coverage
	Activator 205	STA-205-1LTR	285m coverage (50mm wide)
	Primer 1ltr	STPP-1LTR	125m coverage (50mm wide)
	Primer 1ltr (Tectiva board only)	STPP-210-1LTR	125m coverage (50mm wide)

Range of Adjustment (Single / Double - 6.5mm / 11mm)		
Size (mm)	**Min (mm)**	**Max (mm)**
NVELOPE 40	50	70
NVELOPE 60	65	105
NVELOPE 90	95	135
NVELOPE 120	125	165
NVELOPE 150	155	195
NVELOPE 180	185	225
NVELOPE 210	215	255
NVELOPE 240	245	285
NVELOPE 270	275	315
NVELOPE 300	305	345

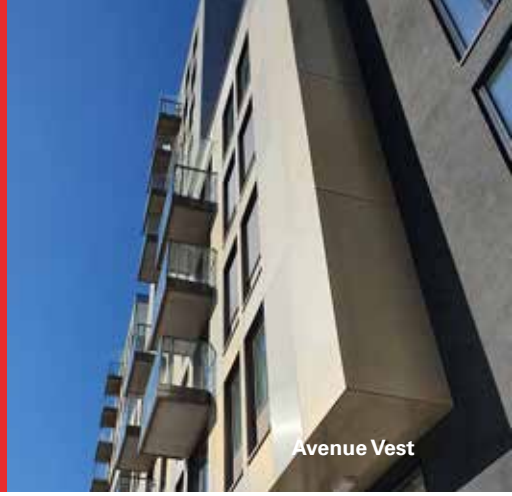
6.5mm holes (suitable for steel and / or timber substrates) / 11mm holes (suitable for block / concrete substrates)
NVELOPE isolators: Included as standard - if isolator not required reduce dimensions by 5mm

Range of Adjustment (Single / Double - 6.5mm / 11mm)

(L) 60 x 40mm

(T) 40 x 100 / 60 x 80 / 60 x 100 / 60 x 120 / 60 x 140mm

NV3.
Fix / Mechanically.



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

NV3 elements – fibre cement, high-pressure laminate (HPL), ceramic, thin stone etc. Horizontal NVELOPE channel profiles are fixed to the vertical profiles. Rainscreen panels are hung from and secured with hangers.

Features

NV3 is the NVELOPE system for secret fix / mechanically fixed applications – vertical cladding applications.

Secured using hangers and undercut stud anchors or screws to provide a concealed fixing.

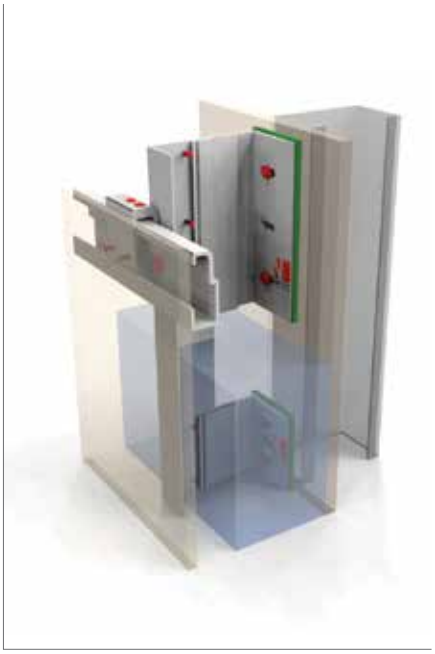
Horizontal NVELOPE channel profiles are fixed to the vertical profiles. Rainscreen panels are hung from and secured to the horizontal profiles with hangers and adjustable hangers.

NVELOPE 'T' and 'L' profiles are fixed using NVELOPE support brackets, fixed through a series of fixed and flexible points.

NVELOPE fixed point brackets absorb both vertical dead loads.

NVELOPE bracket spacing is determined by cladding options such as the dimensions and weight of the façade cladding, local wind loads.

NVELOPE flexible point brackets absorb wind loading and allow for expansion and contraction.



More about NV3

Material:
Manufactured from extruded aluminium alloys conforming to EN 573-3 (material) and EN 755 production standards.

Approvals:
British Board of Agrément (BBA) - 09 / 4678

Options:
NVELOPE brackets (V): allows adjustment between the face of the primary support to outer face of vertical profile. Thermal isolators: hard PVC isolator assembled as standard (located between the NVELOPE bracket and the primary structural support system).

For more visit: www.nvelope.com/cladding-systems-NV3-vertical-cladding.html ■

NV3	NV3 = NV1 + NV3 Components (mechanical concealed fix)			
	Select NV1 components (bracket and rail) - then - select NV3 components			
	Component	Reference		Detail
	Main NV3 horizontal rail	CP-NV3-3000		3000 = 3 metre length (can be 6m)
	Adjustable hangers	NV3-ADJF	NV3-KEIL-ADJF	Either / or PTS or KEIL Supplied with an adjusting screw
	Fixed hangers	NV3-STAT	NV3-KEIL-STAT	
	SDA5/3,5-6-H13-S4-5,5x20			Rail to bracket
	TUF-S	On request		Thin stone / ceramic / hlp fibre cement

Range of Adjustment (Single / Double - 6.5mm / 11mm)		
Size (mm)	Min (mm)	Max (mm)
NVELOPE 40	73	93
NVELOPE 60	88	128
NVELOPE 90	118	158
NVELOPE 120	148	188
NVELOPE 150	178	218
NVELOPE 180	208	248
NVELOPE 210	238	278
NVELOPE 240	268	308
NVELOPE 270	298	338
NVELOPE 300	328	368

6.5mm holes (suitable for steel and / or timber substrates) / 11mm holes (suitable for block / concrete substrates)
Includes NV3 rail and hanger (26mm). NVELOPE isolators: Included as standard - if isolator not required reduce dimensions by 5mm

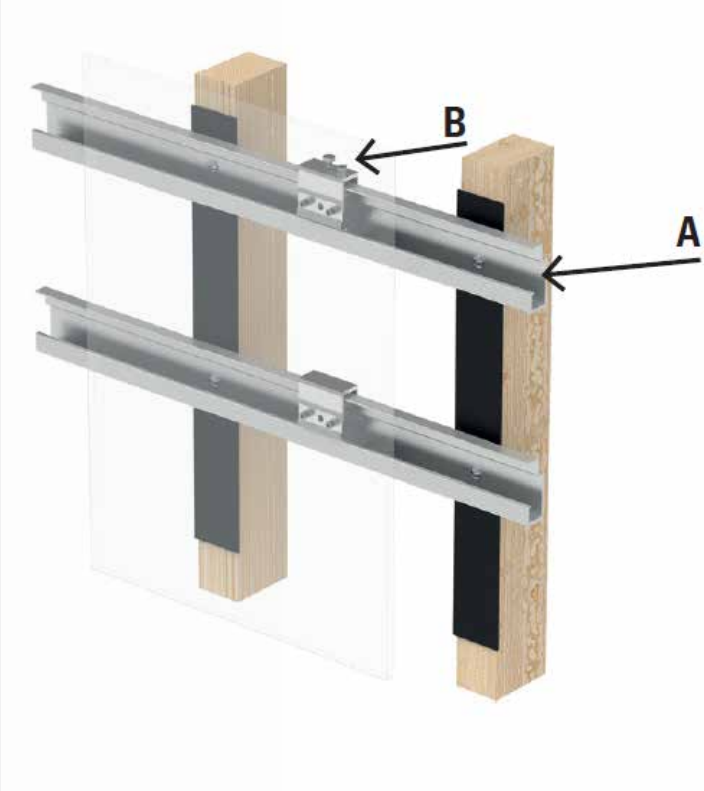
Profiles

(L) 60 x 40mm

NV3.
Wood Construction

NV3 to wood batten is the NVELOPE system for concealed fix / mechanically fixed applications.

NV3 elements –fibre cement, highpressure laminate (HPL), ceramic, thin stone etc. Horizontal Nvelope channel profiles are fixed to the vertical timber batten. Rainscreen are hung from and secured with hangers.



More about NV3

Material:

Manufactured from extruded aluminium alloys conforming to EN 573-3 (material) and EN 755 production standards.

Approvals:

British Board of Agrément (BBA) - 09 / 4678

Options:

NVELOPE brackets (V): allows adjustment between the face of the primary support to outer face of vertical profile. Thermal isolators: hard PVC isolator assembled as standard (located between the NVELOPE bracket and the primary structural support system).

For more visit: www.nvelope.com/cladding-systems-NV4-vertical-cladding.html ■

NH3.
Vertical to Horizontal Adapter.

NH3 is the NVELOPE system used to support vertical elements.

NH3 horizontal rail system suited for face fixed narrow vertical panels.

Features

This product allows horizontal L - T profiles to be directly inserted into the brackets.

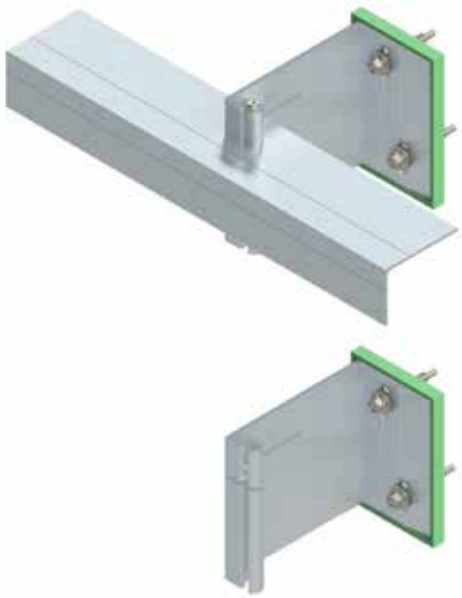
The L and T profile can be adjusted for line and level and secured using fixed and sliding positions to allow for expansion and contraction.

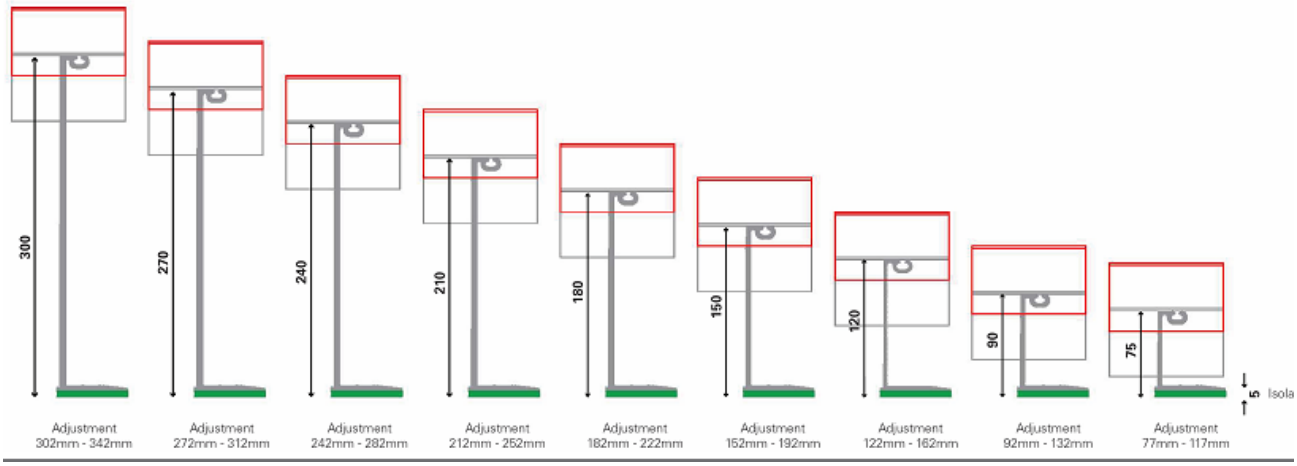
The system are suitable for face fixed applications.

More about NH3

Material:
Manufactured from extruded aluminium alloys conforming to EN 573-3 (material) and EN 755 production standards.

Approvals:
British Board of Agrément (BBA) - 09 / 4678





Range of Adjustment (Single / Double - 6.5mm / 11mm)		
Size (mm)	**Min (mm)**	**Max (mm)**
NVELOPE 75	77	117
NVELOPE 90	92	132
NVELOPE 120	122	162
NVELOPE 150	152	192
NVELOPE 180	182	222
NVELOPE 210	212	252
NVELOPE 240	242	282
NVELOPE 270	272	312
NVELOPE 300	302	342

6.5mm holes (suitable for steel and / or timber substrates) / 11mm holes (suitable for block / concrete substrates)
NVELOPE isolators: Included as standard - if isolator not required reduce dimensions by 5mm

This product allows vertical brackets to receive horizontal L & T rails.

NV6.
Timber Batten / Hybrid.

NV6 is the NVELOPE system for supporting a timber batten.

Suitable for supporting vertical or horizontal timber or cement weatherboarding. Panels may then be attached to support other materials, e.g. copper, zinc, etc.

Supporting timber cladding / weatherboarding and ply.

Features

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

Timber batten can be used to support timber cladding / weatherboarding and ply (used as a substrate for other materials e.g metal).

Concealed fix system, utilising NVELOPE brackets plus NVELOPE carrier.

NVELOPE flexible point brackets absorb wind loading and allow for expansion and contraction.

NVELOPE fixed point brackets absorb both vertical dead loads.

NVELOPE bracket spacing is determined by cladding options such as the dimensions and weight of the facade cladding, local wind loads.

Support

Vertical timber cladding: vertical timber bearers are supported with NVELOPE carriers brackets fixed back to NVELOPE support brackets.

Horizontal timber cladding: vertical timber bearers are supported with NVELOPE carriers fixed back to NVELOPE support brackets, then counter battened.

More about NV6

Material:
Manufactured from extruded aluminium alloys conforming to EN 573-3 (material) and EN 755 production standards.

Approvals:
British Board of Agrément (BBA) - 09 / 4678

Options:
NVELOPE brackets (V): allows adjustment between the face of the primary support to outer face of vertical profile. Thermal isolators: hard PVC isolator assembled as standard (located between the NVELOPE bracket and the primary structural support system).

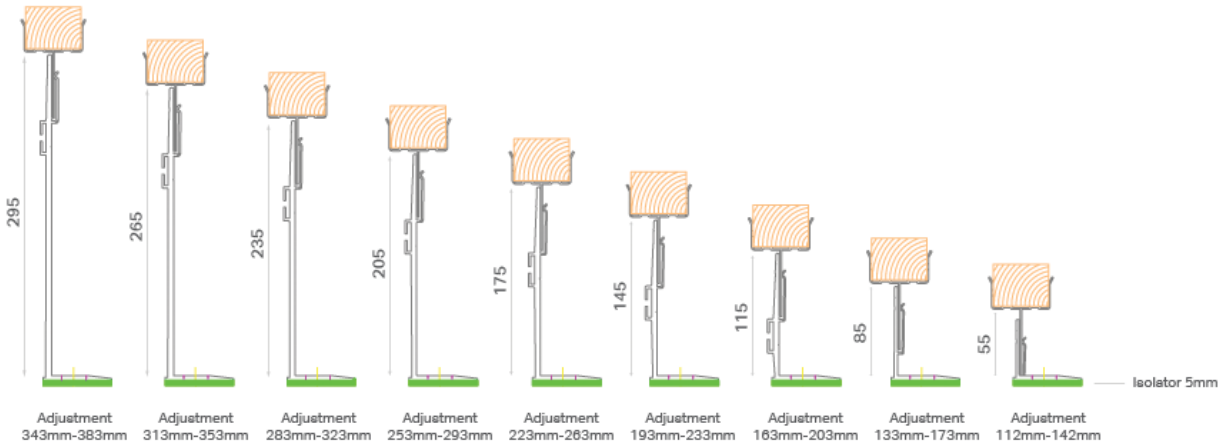
For more visit: www.nvelope.com/cladding-systems-NV6-vertical-cladding.html ■

NV6	NV6 = NV1 + NV6 Components (mechanical concealed fix)		
	Select NV1 components (bracket) - then - select NV6 components		
	Component	**Reference**	**Detail**
	NV6 50 wide single	**UC50S**	For a 50 x 38 timber batten
	NV6 50 wide double	**UC50D**	For a 50 x 38 timber batten
	NV6 100 wide single	**UC100S**	For a 100 x 38 timber batten
	NV6 100 wide double	**UC100D**	For a 100 x 38 timber batten
	**Fixings**		
	SDA5	**4.2-16**	NV6 carrier to bracket
	SW3	**4.8-38**	Batten to NV6 carrier

Range of Adjustment (Single / Double - 6.5mm / 11mm)		
Size (mm)	**Min (mm)**	**Max (mm)**
NVELOPE 60	112	142
NVELOPE 90	133	173
NVELOPE 120	163	203
NVELOPE 150	193	233
NVELOPE 180	223	263
NVELOPE 210	253	293
NVELOPE 240	283	323
NVELOPE 270	313	353
NVELOPE 300	343	383

6.5mm holes (suitable for steel and / or timber substrates) / 11mm holes (suitable for block / concrete substrates)
NVELOPE isolators: Included as standard - if isolator not required reduce dimensions by 5mm
For use only in the vertical plane - use counter battens for vertical cladding.

Bracket range:

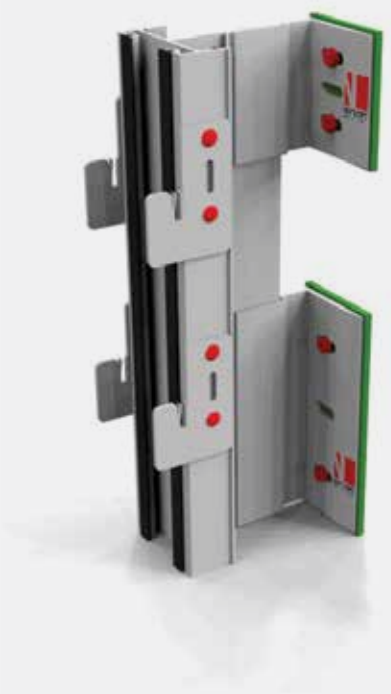


NV7.
Aluminium cassettes.

NV7 is the NVELOPE system for supporting cassettes.

Suitable for supporting ACM / ZCM / Aluminium cassettes.

Speak to our technical team.



Features

NV7 is the NVELOPE system for concealed fix cassette (ACM / zinc / aluminium) – vertical cladding applications.

Secured using cassette hangers to provide a concealed fixing.

NVELOPE 'T' and 'L' profiles are fixed using NVELOPE support brackets, fixed through a series of fixed and flexible points.

NVELOPE fixed point brackets absorb both vertical and dead loads.

NVELOPE bracket spacing is determined by cladding options such as the dimensions and weight of the facade cladding, local wind loads, cladding zone and substrate.

NVELOPE flexible point brackets absorb wind loading and allow for expansion and contraction.

More about NV7

Material:
Manufactured from extruded aluminium alloys conforming to EN 573-3 (material) and EN 755 production standards.

Approvals:
British Board of Agrément (BBA) - 09 / 4678 (Brackets)

Options:
NVELOPE brackets (V): allows adjustment between the face of the primary support to outer face of vertical profile. Thermal isolators: hard PVC isolator assembled as standard (located between the NVELOPE bracket and the primary structural support system).

For more visit: www.nvelope.com/cladding-systems-NV7-vertical-cladding.html ■

NV7

NV7 = NV1 + NV7 Components (brackets) + NVELOPE cassette profile		
Select NV1 components (bracket) - then - select NV7 components		
Rail / Component	**Reference**	**Detail**
NV7 Cassette rail	**NV7-CR-3000**	3000 = 3 metre length
NV7 Anti rattle tape	**12-6-15**	To be applied to all cassette rails (x2)
NV7 Hanger plate	**NV7-H-PLATE**	
Fixings		
SDA5	**4.2-16**	NV7 rail to bracket

Range of Adjustment (Single / Double - 6.5mm / 11mm)

Size (mm)	Min (mm)	Max (mm)
NVELOPE 60	140	180
NVELOPE 90	170	210
NVELOPE 120	200	240
NVELOPE 150	230	270
NVELOPE 180	260	300
NVELOPE 210	290	330
NVELOPE 240	320	360
NVELOPE 270	350	390
NVELOPE 300	380	420

6.5mm holes (suitable for steel and / or timber substrates) / 11mm holes (suitable for block / concrete substrates)
Incorporates a cassette depth of 50mm NVELOPE isolators: Included as standard - if isolator not required reduce dimensions by 5mm

Profiles

(L) Cassette 'T' - 72mm wide x 92mm front to back (78mm 'leg')

NVF2F.
Floor to Floor.

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

Suitable as a back frame system – NVF2F is suitable for face fixing / rivet fixing cladding – elements to e.g. fibre cement, high-pressure laminate (HPL), ACM and metal rainscreen panels. NVF2F can support NV3 / 4 / 5 / 6 / 7 and 8.

Features

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

NVELOPE floor to floor (mullion) box 'T' profiles are fixed using NVELOPE support brackets. NVELOPE brackets absorb wind loading and allow for expansion and contraction and both vertical dead loads.

NVELOPE Bracket spacing is determined by cladding options such as the dimensions and weight of the façade cladding, local wind loads and cladding zone.


Miklagard

More about NVF2F

Material:
Manufactured from extruded aluminium alloys conforming to EN 573-3 (material) and EN 755 production standards.

Options:
NVELOPE brackets (V): allows adjustment between the face of the primary support to outer face of vertical profile. Thermal isolators: hard PVC isolator assembled as standard (located between the NVELOPE bracket and the primary structural support system) are available.

For more visit: www.nvelope.com/cladding-systems-NVF2F-vertical-cladding.html ■

NVF2F	Component	Bracket height (mm)	Bracket width (mm)	Reference
	Bracket - Floor to Floor	100	100	01/BF2F100
	Bracket - Floor to Floor	120	100	01/BF2F120
	Bracket - Floor to Floor	200	100	01/BF2F200
	Off set bracket - Floor to Floor	100	100	01/OSBF2F100
	Off set bracket - Floor to Floor	120	100	01/OSBF2F120
	Off set bracket - Floor to Floor	200	100	01/OSBF2F200
	Floor to Floor (Mullion) box 'T' Rail - 120 x 90mm			02/T120F2F-3100
	Box (Transom) Rail - 60 x 47mm			02/B60-47-300
	Transom hanger			03/F2Fhanger
	Spigot 200mm - 60 x 47mm			02/B60-47-200

Range of Adjustment (Single / Double - 6.5mm / 11mm)		
Size (mm)	Min (mm)	Max (mm)
100	105	150
120	125	170
200	205	250

REFERANSER

Miklagard Kløfta Lily Country Club

System
NV1 system for vertikal utlekting.
Utlektet på stål container isolert 200mm og kledd med tre panel.

Entreprenør
Bjørn Bygg

Arkitekt
Reine & Halvorsen

Størrelse
ca 1700 m2

Nygårdskvartalet Oslo

System
NH3 horisontalt system

Entreprenør
Hovedentreprenør Veidekke og plate leverandør Vink

Arkitekt
Spor Arkitekter

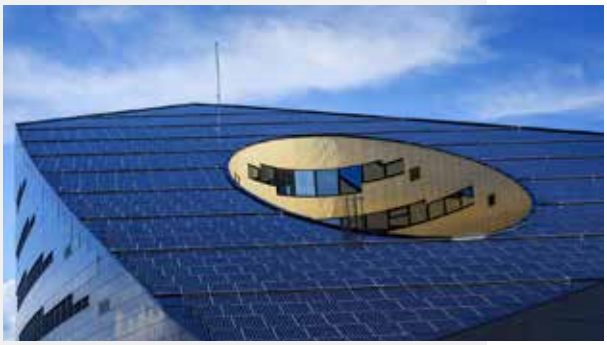
Størrelse
7300 m2

Tuneveien 89 Sarpsborg

System
NV3 system er levert i samarbeid med Vink
for skjult innfesting av Trespa plater.

Arkitekt
Vink

Størrelse
Ca 1200 m2



Powerhouse Trondheim

System
For Entra er det montert NV3 system for skjult innfesting av solcelle panel.
Solcelle panel på tak er montert på Soter base plate fra SFS.

Entreprenør
Systemet er montert av Solcellespesialisten og Skanska som Hoved entreprenør.

Arkitekt
Snøhetta

Størrelse
Ca 3000 m2

Powerhouse Trondheim

Avenue Vest Lillestrøm

System
NH3 montert for horisontal innfesting av fasade plater

Entreprenør
A Hansen Gruppen AS

Arkitekt
Dark arkitekter

Skøyen Atrium Oslo

System
NH3 montert for horisontal innfesting av fasade plater

Entreprenør

Arkitekt
Lund og Slaatto

Kranen Bergen

System
For BOB er det levert NH3 horisontaltsystem for utlekting av fasade plater og glass fasade

Entreprenør

Arkitekt
Artec arkitekter

Størrelse
Ca 1700 m2

Munchmuseet Oslo

System
NV3 system for skjult innfesting av innvendig fasadevegg.

Entreprenør
Hent, montert av Byggimpuls.

Arkitekt
Estudio Herreros / LPO

Størrelse
Ca 1500 m2

PRODUKTER

SX3/15-D12-5.5x30

SX3-S16-6x29A2/A4
SX3-S16-6x50 A2
SX5-S16-6,5x31A2

SX3-D10-4,8x25
SX5-D12-5,5x35
SX5/15-D12-5,5x30

SCFW-S-D12K-A12-5x42

SDA5
SW3-D11/R-4,8x38
SLA3/6-S-D12-4,8x19
TW-S-D12-4,8x38

Multi Monti
MMS-S-7,5x75
MMS-S-10x85

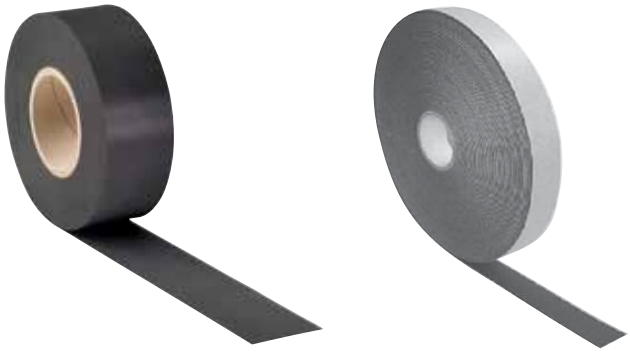
MMS-pluss SS 7,5x60
MMS pluss SS 10x70

HT-S-FH-FT
6x40 , 6x50, 6x60,6x70

Bulb Tite
Bulb-Tite, vanntett
Aluminiumnagler
med Aluminiumsplint

Peel Rivet
TPR-Peel Rivet, splitnagler i
Aluminium-magnesium
med stålsplint

Tettebånd EPDM 0,75x60 og 0,75 x 100



PowerBird® Pro Nagleverktøy, ett batteri

Se utvidet sortiment i vår RC katalog

SFS GROUP NORWAY AS
Fjellboveien 3
NO-2016 Frogner
T: +47 67 92 14 40
www.no.sfs.com
no.sfs.com

All informasjon er uforpliktende og uten garanti. Før produktet tas i bruk, må all informasjon og beregninger kontrolleres av en fagperson, og lokale forskrifter må overholdes. Dette dokumentet er underlagt revisjon. Med forbehold om tekniske endringer.-

www.nvelope.com