



Component guide

NVELOPE rainscreen cladding brackets and framework simplify the complexity of installing facades. NVELOPE systems are designed to provide a vertical support for most facade types. NVELOPE purpose-designed brackets allow for final alignment and adjustment.

Brackets

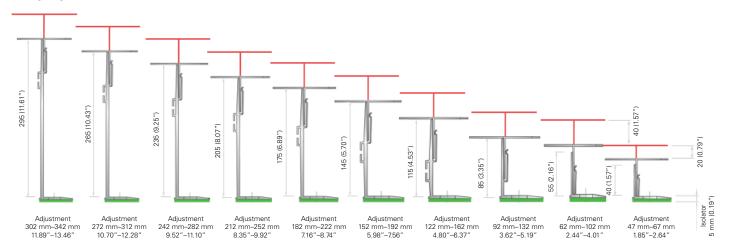
The NVELOPE bracket range includes single and double variations of each bracket size, the difference being the depth of the bracket (75 mm single, 150 mm double). A double bracket is capable of supporting higher cladding loads, and is used in the fixed point location for projects that feature more demanding wind or cladding loads.

The substrate slot variations on NVELOPE brackets are to suit a wide range of substrate materials. For steel and timber substrates 6.5 mm slots are used; for brick, block and concrete, the 11 mm slots are used. The single bracket includes both slot variations so is suitable for all substrates.

Size	Min system		Max system				
	(mm)	(in)	(mm)	(in)	Single (6.5/11 mm slot)	Double (6.5 mm slot)	Double (11 mm slot)
40	47	1.85"	67	2.64"	1582505	1521239	1521238
60	62	2.44"	102	4.01"	1582506	1521247	1521246
90	92	3.62"	132	5.19"	1582508	1521255	1521254
120	122	4.80"	162	6.37"	1582509	1521263	1521262
150	152	5.98"	192	7.56"	1582510	1521273	1521272
180	182	7.16"	222	8.74"	1582511	1521282	1521281
210	212	8.35"	252	9.92"	1582512	1521291	1521290
240	242	9.52"	282	11.10"	1582514	1521300	1521299
270	272	10.70"	312	12.28"	1582517	1521309	1521308
300	302	11.89"	342	13.46"	1582520	1521317	1521316
270 (+extension)*	332	13.07"	372	14.65"	1582517 (+1521188)	1521309 (+1521187)	1521308 (+1521187)
300 (+extension)*	362	14.25"	402	15.83"	1582520 (+1521188)	1521317 (+1521187)	1521316 (+1521187)

^{*}Example to show largest possible cladding zones. Extension piece is compatible with all bracket sizes, and is available as single (1521188) or double (1521187).

Cavity depths



Component guide

Profiles

Generally, profiles are cut to lengths that reflect the height of the panels that are going to be attached to them. Typically storyheight 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 fastener.

SFS is able to offer an optimized solution, minimizing wastage on site by cutting profiles to length in our factory and delivering precut ready to install directly to the project.





Туре	Dimensions	Material number	
L Profile	60 x 40 x 2.2 x 3000 mm (118.11")	1521357	
L Profile	60 x 40 x 2.2 x 6000 mm (236.22")	1521375	
T Profile	40 x 100 x 2.2 x 3000 mm (118.11")	1521413	
T Profile	40 x 100 x 2.2 x 6000 mm (236.22")	1521417	
T Profile	60 x 80 x 2.2 x 3000 mm (118.11")	1521418	
T Profile	60 x 80 x 2.2 x 6000 mm (236.22")	1521422	
T Profile	60 x 100 x 2.2 x 3000 mm (118.11")	1521423	
T Profile	60 x 100 x 2.2 x 6000 mm (236.22")	1521434	
T Profile	60 x 120 x 2.2 x 3000 mm (118.11")	1521440	
T Profile	60 x 120 x 2.2 x 6000 mm (236.22")	1521444	
T Profile	60 x 140 x 2.2 x 3000 mm (118.11")	1521445	
T Profile	60 x 140 x 2.2 x 6000 mm (236.22")	1521447	

Primary fasteners	Secondary fasteners			
BMSD2-#14x2 1673590	SXW-S16-6,5x52 1123138	TCS-3/8x3"-304SS 1677827	MMS-Plus-SS-10x80 1204995	SDA5/5.5x22 1507572

Installation guide

1. Secure NVELOPE brackets to substrate

- **1.1** Position the brackets as per the approved shop drawings.
- **1.2** Secure using the recommended primary fastener.

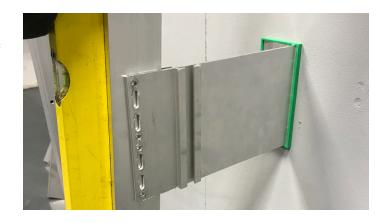
Note: Recommended primary fasteners vary dependent on the wall type. Please contact us for recommendations.

We recommend pull-out tests are carried out for attachment into blockwork and brick.



2. Insert profiles into brackets

- **2.1** Once the NVELOPE brackets are aligned in correct positions, fit the cut length profiles into the helping hand of the bracket, following the shop drawings.
- **2.2** Push the profile into the bracket's helping hand and adjust for line and level.
- **2.3** Check for line and level, ensuring a 1/2" (10-12 mm) gap between the ends of rails to allow for expansion.



3. Attach the profiles to the brackets

3.1 Secure the profiles in the correct location using the SDA5/5.5x22 stainless steel fastener. Observe the correct number and attachment location as advised on the shop drawings.

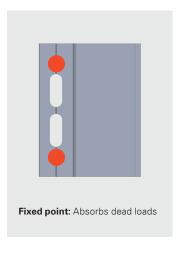
Note: Only one bracket per profile should have fasteners in the fixed points (round holes); all subsequent brackets should have fasteners in the sliding points (slots). See Figure 1.

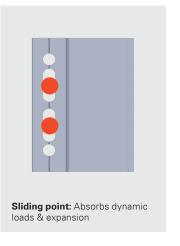


Get in touch for project specific engineering services

Installation guide

Figure 1







4. Check over

- **4.1** Once all brackets and profiles are installed to an area of cladding, final checks should be carried out:
 - On the primary anchor torque settings
 - To the line and level of the profiles in relation to each other
 - To the number of fasteners and their position in each bracket



5. Install panels

- **5.1** Check profile positions in relation to actual panel positions and joints.
- **5.2** Raise the panel and support in horizontal position.
- **5.3** Adjust level and height of panel before fitting next panel above.
- 5.4 Repeat on next panels.

5.5 Panel joints should follow the manufacturer's recommendations on horizontal and vertical joint gaps.

Note: Typically, profiles are cut so that the panel(s) are located on one set of vertical profiles and do not bridge an expansion gap between two profiles.

Notes

Fasteners

Suitable primary anchors are designed to attach the brackets to a pre-determined grid to suit the cladding panel layout. Stainless steel fasteners also assist in preventing bimetallic corrosion.

The size and type of primary fastener for the connectors will always be determined by the dynamic and dead loads they have to resist. Please get in touch if you need further details.

Insulation

Where insulation is specified, it should be cut and tightly butted around the brackets and secured with the appropriate fasteners. Sufficient insulation fasteners should be provided to ensure that the insulation cannot block the ventilated cavity.

