

NH3 Installation guide

Component guide

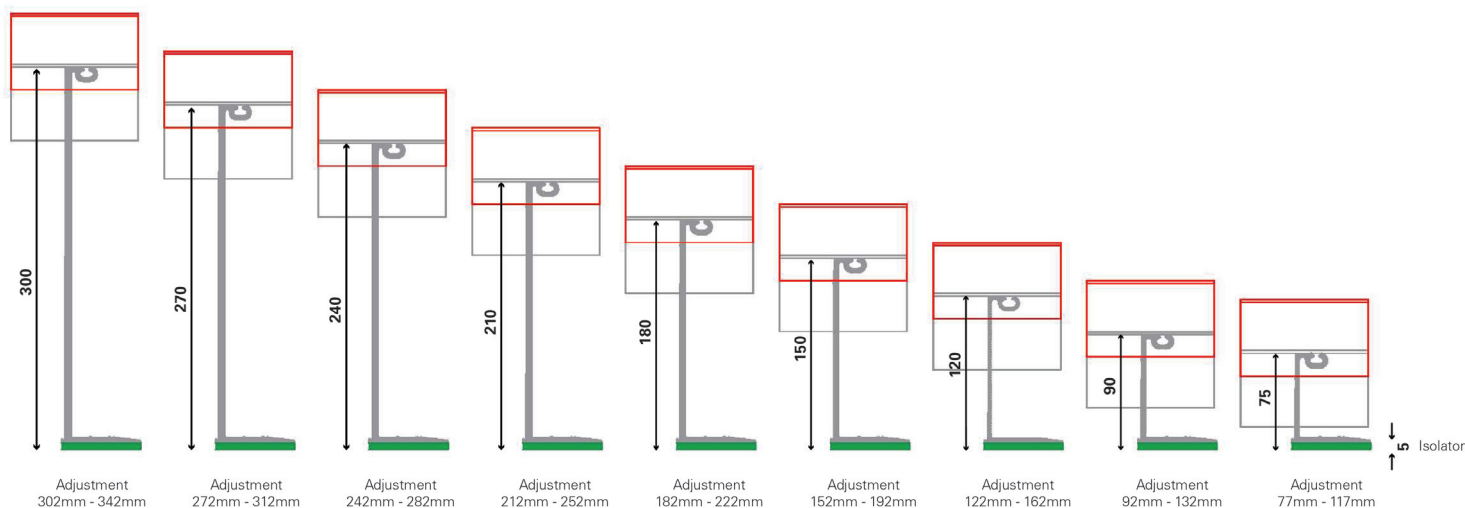
NVELOPE® rainscreen cladding brackets and framework simplify the complexity of installing façades. The NVELOPE® NH3 system is designed to provide a horizontal support for most façade types. NVELOPE® purpose-designed brackets allow for final alignment and adjustment.

Brackets

The substrate slot variations on NVELOPE® NH3 brackets are to suit a wide range of substrate materials. For steel and timber substrates 6.5mm slots are used; for brick, block and concrete, the 11mm slots are used.

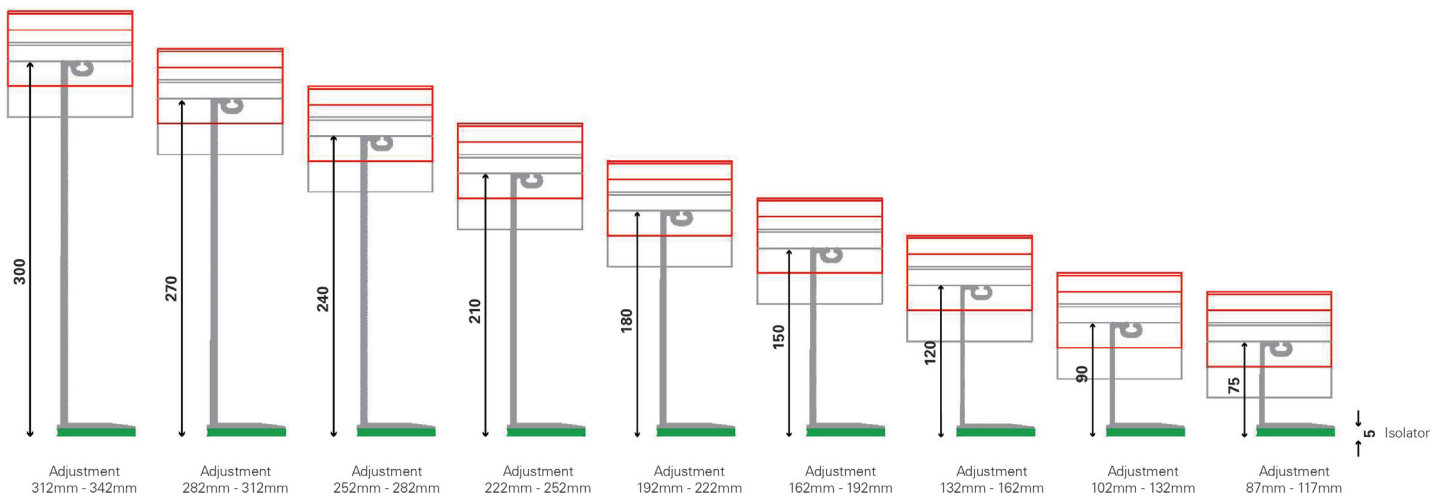
Bracket Size	Adjustment: 60 x 40 x 2.2		Adjustment: 60 x 40 x 2.5		6.5mm	11mm
	Min	Max	Min	Max		
75	77	117	87	117	1602052	1602050
90	92	132	102	132	1602054	1602053
120	122	162	132	162	1602057	1602056
150	152	192	162	192	1602059	1602058
180	182	222	192	222	1602062	1602061
210	212	252	222	252	1602064	1602063
240	242	282	252	282	1602066	1602065
270	272	312	282	312	1602068	1602067
300	302	342	312	342	1602070	1602069

Cavity depths: 60 x 40 x 2.2



Component guide

Cavity depths: 60 x 40 x 2.5

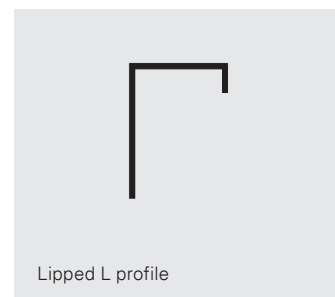
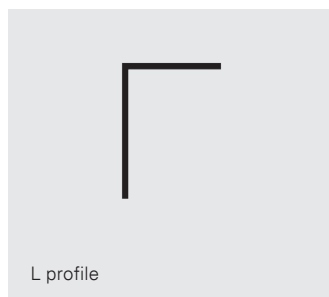


Profiles

Generally, profiles are cut to lengths that reflect the width of the panels that are going to be fixed to them. Typically profiles are cut so that the panels are located on one set of horizontal profiles and do not 'bridge' the expansion gap between two profiles.

These are secured to the bracket using a secondary fixing.

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



Type	Dimensions	Material number
L Profile	60 x 40 x 2.2 x 3000	1521357
L Profile	60 x 40 x 2.2 x 3600	1521365
L Profile	60 x 40 x 2.2 x 4850	1521370
L Profile	60 x 40 x 2.2 x 6000	1521375
Lipped L Profile	60 x 40 x 2.5 x 3000	1521346
Lipped L Profile	60 x 40 x 2.5 x 6000	1521347

Component guide

Primary fixings

SX3/28-S16-6.0x48
1575777



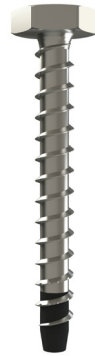
TDA-S-S16-6.5x60
1526326



SXR-10-80-FUS-A
1551174



MMS-S-10x85-A4
1480024



Secondary fixings

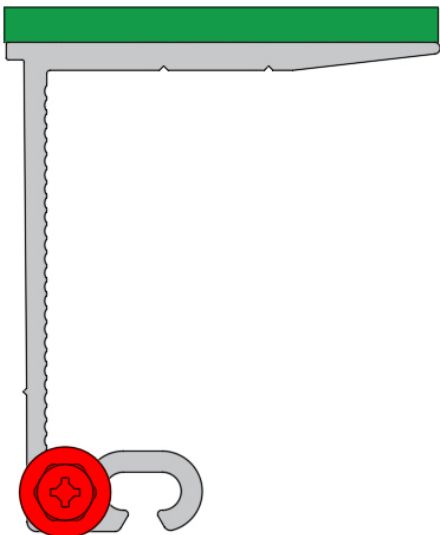
SDA5/5.5x45
1645134



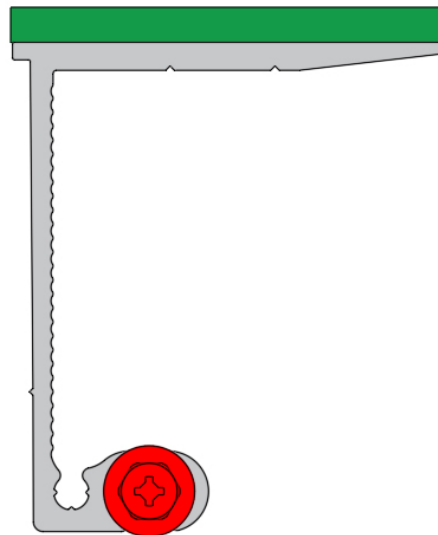
*fixing images not to scale

Fixed and sliding point guide

Fixed point



Sliding point



Installation guide

1. Orient the bracket correctly

Ensure you have the correct bracket slot sizes to suit your substrate, the NH3 bracket is available with 6.5mm or 11mm slots. The bracket should be installed with the rail slot towards the top of the bracket, take care to ensure the bracket is the correct way up before fixing to the substrate. The NH3 bracket should only be used this way up.



2. Install substrate fixings

Install substrate fixings ensuring both slots are used, by locating the fixings in the centre of the slots, this allows the bracket to be adjusted for line and level before the rail is installed.



3. Select the correct profile

The NH3 system is compatible with both the 60 x 40 x 2.2 L profile and the lipped 60 x 40 x 2.5 L profile. Before selecting either profile, check the adjustment range tables, as different zones are achievable based on which profile is used.



Installation guide

4. Insert profile

Insert the L profile into the helping hand rail slot and adjust for line and level double checking the correct maximum rail distance from the last bracket.



5. Install secondary fixing

Install the SDA5/5.5x45 rail fixing closely observing the correct fixed and sliding locations. For further information please refer to the Fixed and sliding point guide (page 4), or contact our technical team.



**Contact our
technical team:
01707 333396**

Forest Gate Community School, London
Using the NVELOPE NH3 Horizontal Bracket





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