

DCT NVELOPE NV3 & TUx Project Checklist



Before installing NVELOPE

Ensure that all components have been kept undercover in dry conditions, protected from weather and potential influence from other trades.

Aluminium rails and carrier profiles are to be protected from the rain and must not get wet prior to installation. Any building contamination may effect the long term durability of any surface finish applied or material itself.

DC TECH recommends the use of personal protective equipment (PPE) when installing the Nvelope system.

Due to the versatility of the Nvelope system working with multiple cladding materials. The cladding manufacturers installation guidelines must be adhered to. Refer to cladding manufacturer for further details.

The following checks is by no means exhaustive. It needs to be used in conjunction with other relevant Nvelope technical documents.

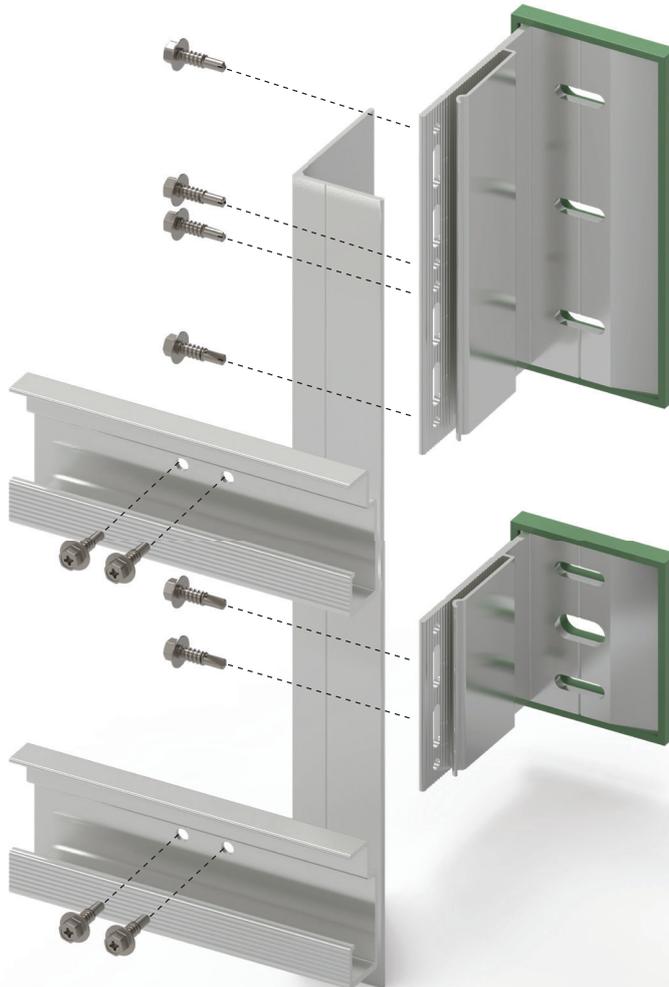
Disclaimer

The noted checks expressed in this project checklist does not relieve the responsibility of builders and installers to provide a comprehensive site specific inspection of the cladding and external walls for each individual building that the Nvelope cladding fixing system is used on.

The information in this document is correct at the time of issuing. However, due to our committed program of continuous development we reserve the right to amend alter the information contained in this document without prior notice. Please contact DC Tech or visit www.dctech.com.au to ensure you have the most current version.

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Project Checklist

The following checks is by no means exhaustive. It needs to be used in conjunction with other relevant Nvelope technical documents. Information below is to be filled in and "red boxes" to be ticked accordingly.

Project Name

Project Address

State/ Region

Building substrate type

Stud centres/ Bracket centres

Cladding Type

Cladding Brand

Cladding weight

Cladding zone

Facade ultimate wind loading for general areas (kPa):

Facade ultimate wind loading for corner areas (kPa):

Nvelope System: NV3 NV93

Other (please specify): _____

Fixing used (if none of the below fixing is used, please note in "other" - testing and certification is to be provided for suitability):

Steel Stud (BMT \geq 1.15)
04/SX3/28-S16-X48-A4

Timber Stud
04/TDA-S16-S16-6,5X60

Masonry
04/SXR-FUS-10X80

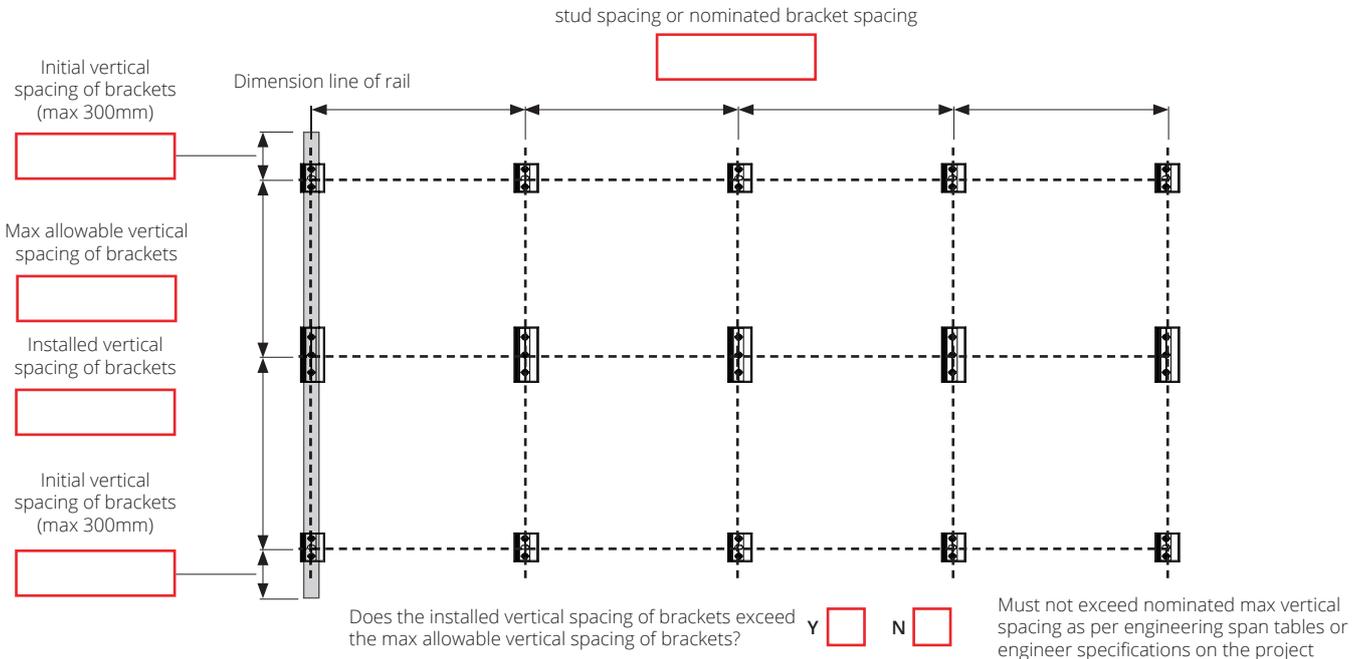
Heavy Duty Masonry
04/MBRK-S4-H18-10X80

Other (Please specify - fixing and substrate) _____

Bracket Installation

Fill in the boxes below:

Take note of the number of sliding and fixed brackets. Refer to installer if there are any that do not adhere to the indicated brackets and their position to the wind loading specified on the project



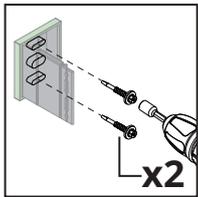
Fixing bracket scenarios - tick which applies to the project

Take note of the number of fixings. Refer to installer if there are any that do not adhere to the indicated number of fixings

Type A:

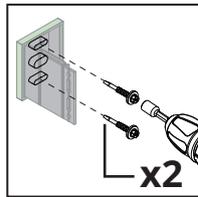
Fixed Point Single Bracket

Steel / Timber fixing



Sliding Point Single brackets

Steel / Timber fixing



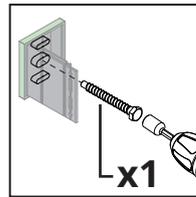
Initial

Tick for approval

Type B:

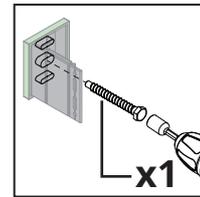
Fixed Point Single Bracket

Masonry / Concrete



Sliding Point Single brackets

Masonry / Concrete



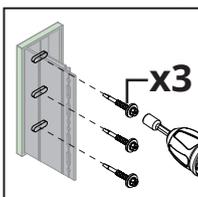
Initial

Tick for approval

Type C:

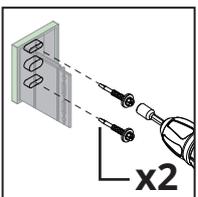
Fixed Point Double Bracket

Steel / Timber fixing



Sliding Points (S)

Steel / Timber fixing



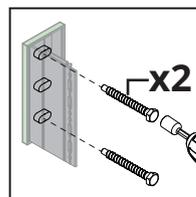
Initial

Tick for approval

Type D:

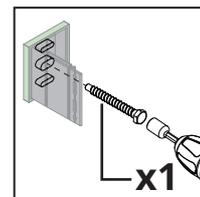
Fixed Point Double Bracket

Masonry / Concrete



Sliding Points (S)

Masonry / Concrete



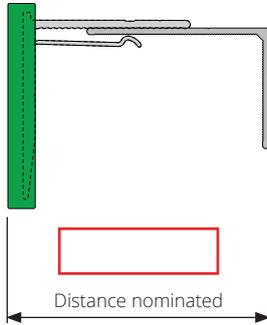
Initial

Tick for approval

Comments

Rail Installation

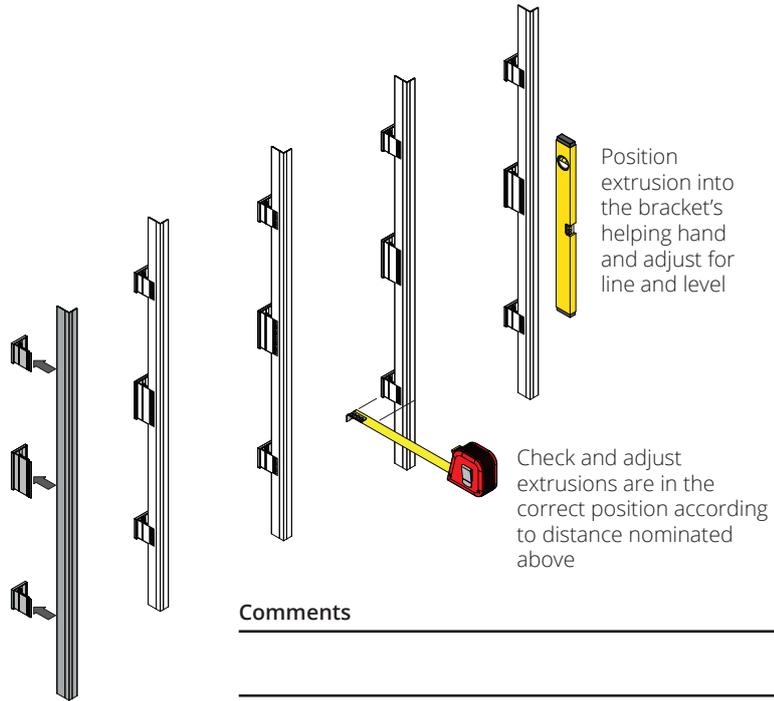
Bracket to rail placement



Note: L60 x 40 L profile shown, also applies with T60 x 100 T Profile

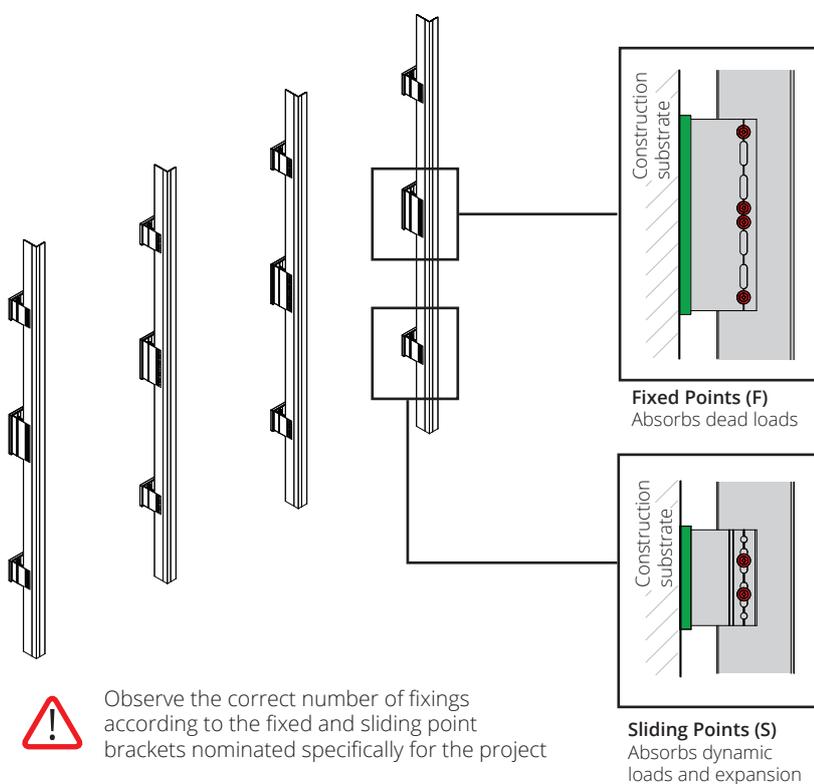
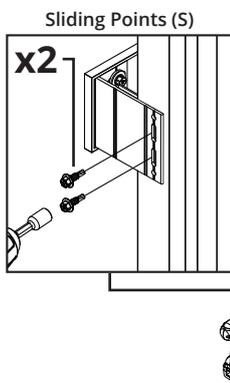
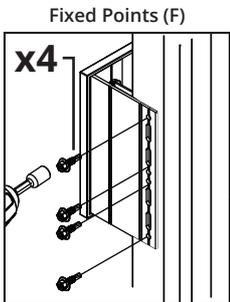
Tick for approval

Initial



Comments

Bracket to rail fixings



Observe the correct number of fixings according to the fixed and sliding point brackets nominated specifically for the project

Fixed points screwed through round holes

Correct number of fixings applied

Sliding points screwed through slotted holes

Correct number of fixings applied

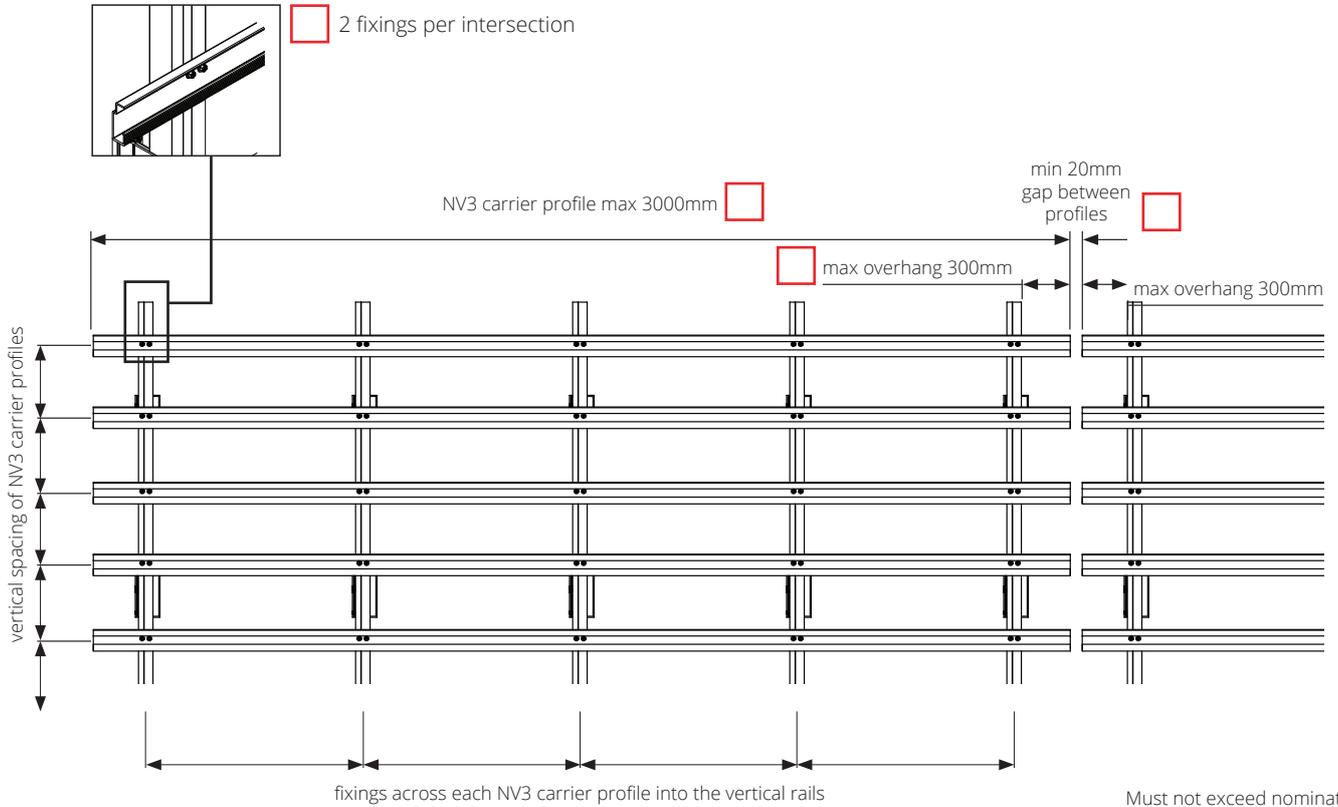
Tick for approval

Initial

NV3 carrier profile Installation

Tick boxes for approval:

Refer to installer if anything is not as per indicated below



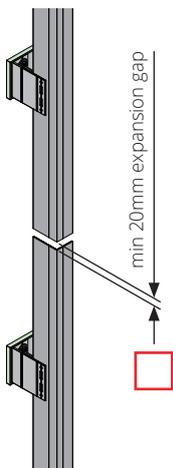
Max allowable vertical spacing of carrier profile

Installed vertical spacing of carrier profile

Does the installed vertical spacing exceed the max allowable spacing? Y
N

Must not exceed nominated max vertical spacing as per engineering span tables or engineer specifications on the project

Expansion Joint

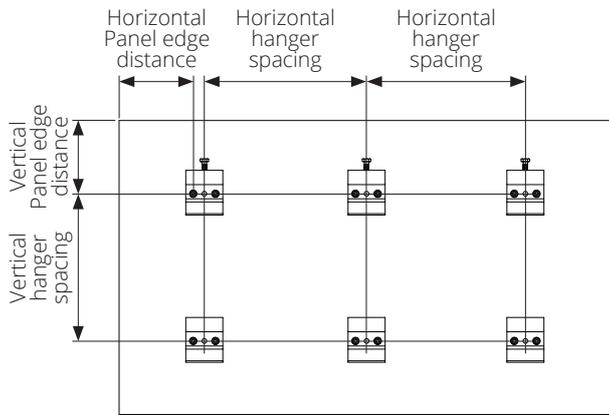


Take note if project requires express joint closers. Please follow methods outlined in the application guide for the vertical express joint trim. **DO NOT** hang panels until this part has been installed

Comments

Ensure a 20mm minimum gap between the ends of the rails to allow for expansion. These joints shall coincide with panel horizontal joint i.e. panel shall not bridge over this gap

Panel Preparation

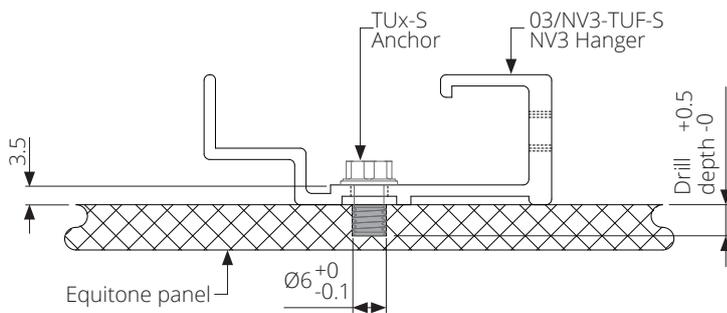


Project details - max hanger spacing

Vertical - Panel edge distance	<input type="text"/>	Horizontal - Panel edge distance	<input type="text"/>
Max allowable vertical spacing	<input type="text"/>	Max allowable horizontal spacing	<input type="text"/>
Installed vertical spacing	<input type="text"/>	Installed horizontal spacing	<input type="text"/>
Is the installed less than the max allowable?	Y <input type="checkbox"/> N <input type="checkbox"/>	Is the installed less than the max allowable?	Y <input type="checkbox"/> N <input type="checkbox"/>

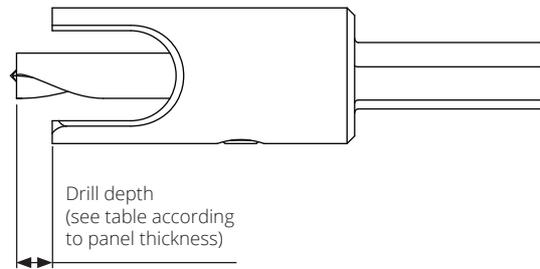


Ensure all panels adhere to the maximum vertical and horizontal edge and centre distances



Every 100 holes check the accuracy of the depth locator as wear and tear causes the reference dimension to increase.

Panel Thickness (mm)	Drill Depth (mm)	Tolerance		Drill Bit
		Min	Max	
8	5.5	5.5	6.0	05/VHM-6,0x40.5
10	5.5	5.5	6.0	05/VHM-6,0x40.5
12	8.5	8.5	9.0	05/VHM-6,0x43.5



Drill Bit

Prior to drilling panel, check the following:



Use only the prescribed SFS VHM blind-hole drill bit according to the depth of the anchor / panel thickness.

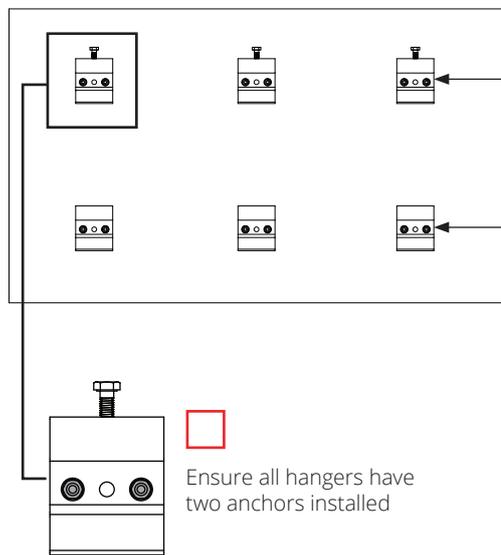


Check for signs of wear. Do not use a worn-out drill bit. Life expectancy for SFS VHM drill bits is approximately 500 holes

Check the quality of the EQUITONE panels for any visual defects or damage prior to installation. DO NOT install any panels or components which are damaged or not aligned with the project requirements and specifications

Panel Preparation

Hanger positions

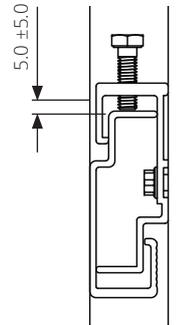


Adjustable Hanger
Positioned along top row of every cladding panel.

Static Hanger
Positioned below the adjustable hangers (number of hangers dependent on size of panel and wind loading).

Ensure all hangers have two anchors installed

Hanger Setting



Initial setting of the panel is 5mm from the NV3 carrier profile. Allows for adjustability of $\pm 5\text{mm}$



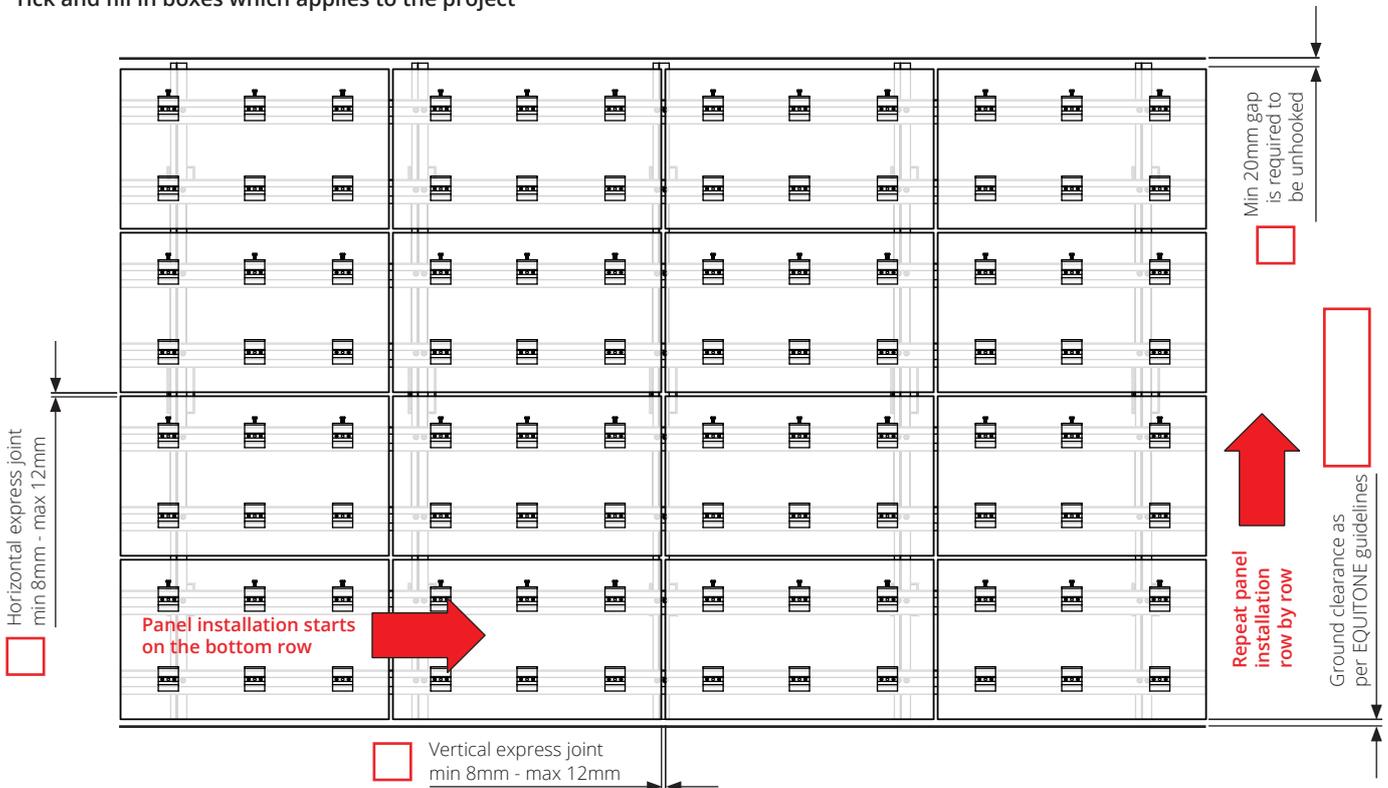
The assembly of hangers to follow application guidelines as well as cladding manufacturers recommendations.



Take note if project requires express joint closers. Please follow methods outlined in the application guide for the horizontal express joint trim. **DO NOT** hang panels until this part has been installed.

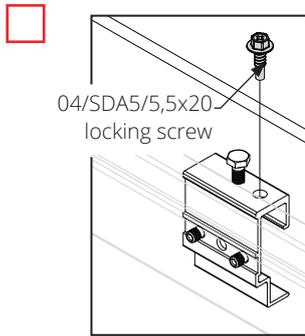
Panel installation

Tick and fill in boxes which applies to the project

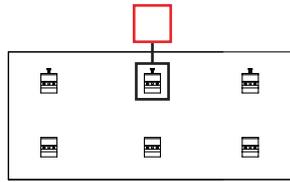


Panel fixing - Option 1

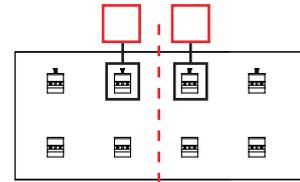
Note: Must be applied to all panels on the project, exception applies to option 2 and 3 (stated below)



Note: For an odd number hangers on a panel, pick the centre of the panel and apply the locking screw.



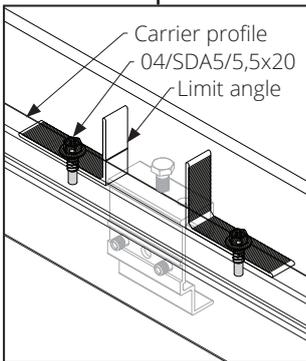
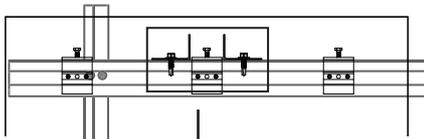
Note: For an even number hangers on a panel, pick one left or right of the centre of the panel and apply the locking screw the same side of the remaining panels.



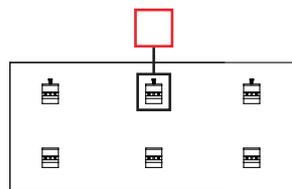
Tick boxes which applies to the project

TOP ROW of panels only where accessibility to fix the locking screw is limited, please indicate the fixing method to prevent side ways movement

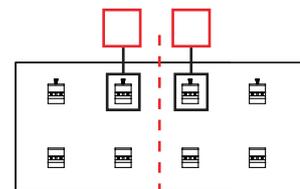
Panel fixing - Option 2 - ground floor or indoors only



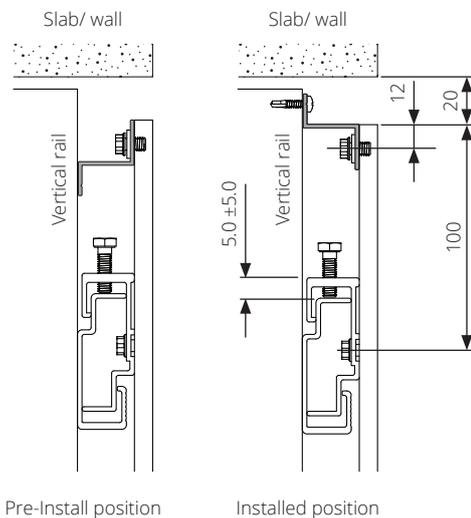
Note: For an odd number hangers on a panel, pick the centre of the panel and apply the locking screw.



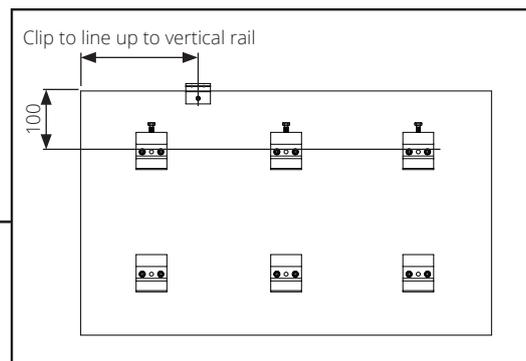
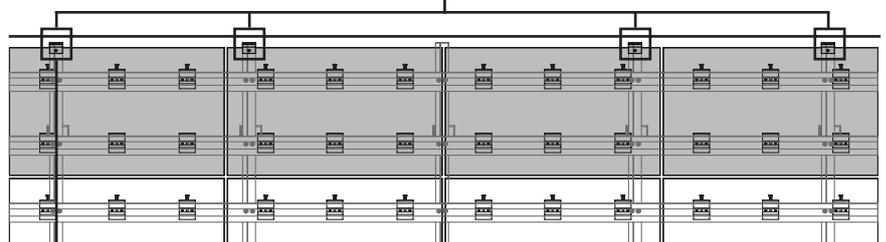
Note: For an even number hangers on a panel, pick one left or right of the centre of the panel and apply the locking screw the same side of the remaining panels.

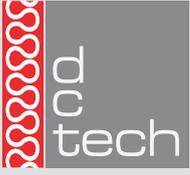


Panel fixing - Option 3



Clips to line up with vertical rails, top row of panels only





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