



Installation Guide ExSPACE Outdoor Walk-In



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**** ATTENTION ****

**PLEASE READ BEFORE INSTALLATION
& USE**

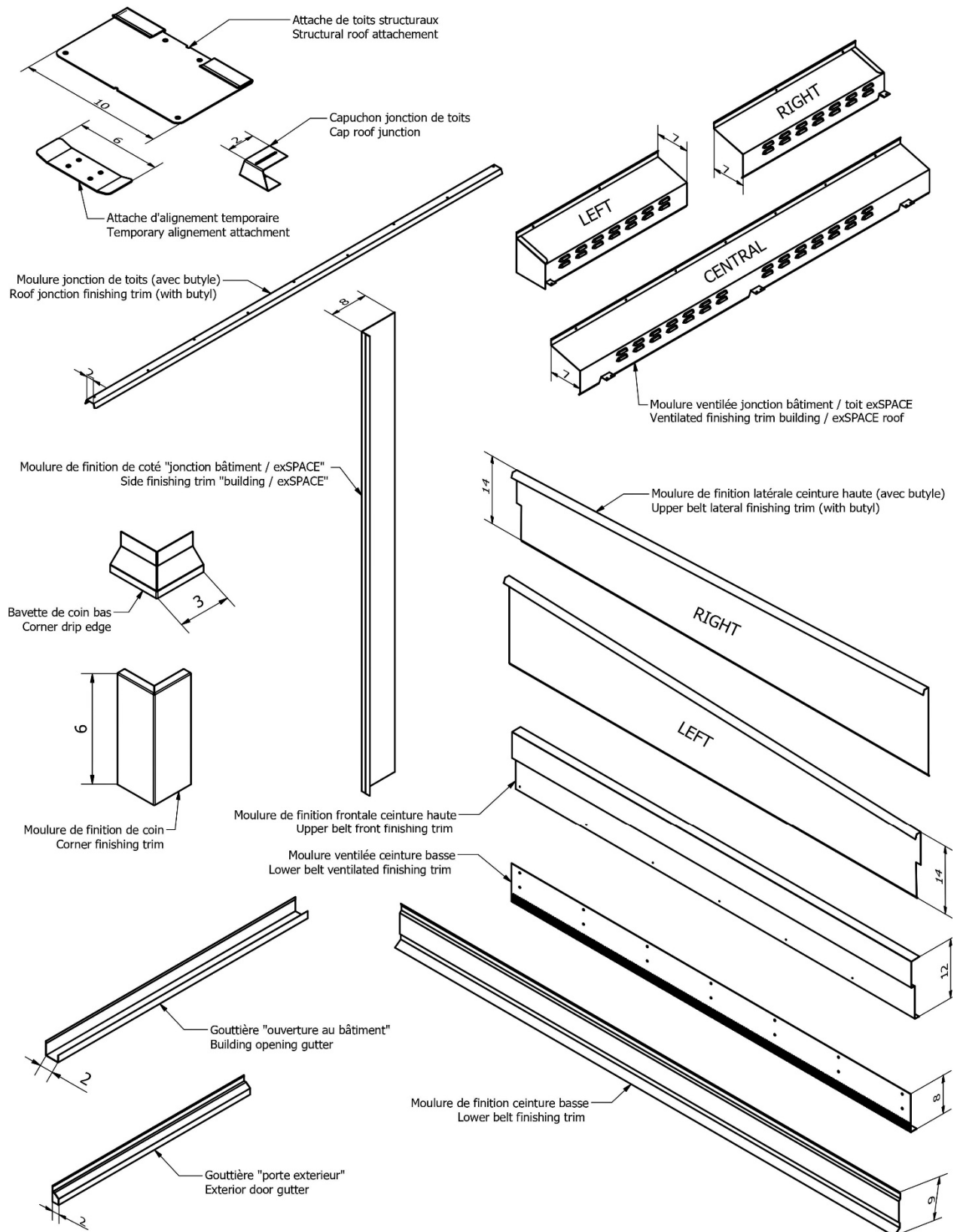
TABLE OF CONTENT

METAL PARTS NOMENCLATURE	3
INSTALLATION STEPS	4
1. Prepare and check the concrete slab :.....	4
2. Walk-in installation :	4
3. Sealing ceiling panels seams :	5
4. Evaporator(s) installation inside the Walk-In :	6
5. «Building Opening» gutter installation :	6
6. Structural roof panels installation preparation:	7
7. Structural roof panels installation :	8
8. «Lower belt ventilated» finishing trim installation :.....	10
9. «Side finishing trim Building / ExSPACE» installation :	10
10. «Lower Belt» finishing trim installation :	11
11. «Upper belt» front finishing trim installation :	11
12. «Roof junctions» finishing trims installation :	12
13. «Upper lateral» finishing trim installation :	13
14. Ventilated finishing trim «Building / ExSPACE installation» :	14
15. «Exterior door» gutter installation (optional) :	16
16. Condensing unit(s) installation :	16
APPENDIX 1 – Finishing trim installation sequence.....	17

NOTE:

This procedure document must be used in conjunction with the INSTALLATION DRAWINGS of the Outdoor Walk-In. All information concerning screws, anchors and products to be used when assembling the Outdoor Walk-In are available in the Installation Drawings. These drawings must be used in priority over the installation guide.

METAL PARTS NOMENCLATURE



INSTALLATION STEPS

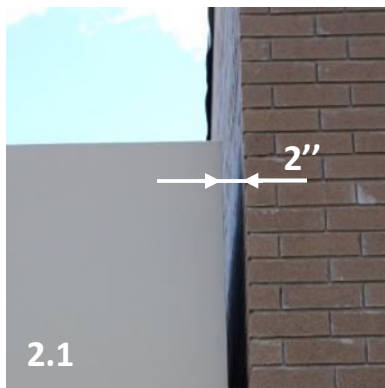
1. Prepare and check the concrete slab :

- A. The slab must respect a flatness of $\pm \frac{1}{4}$ " over the entire surface.
- B. The slab must exceed the size of the walk-in by 6" on the perimeter.
- C. The compressive strength of the concrete shall be of 28 MPA.

2. Walk-In installation :

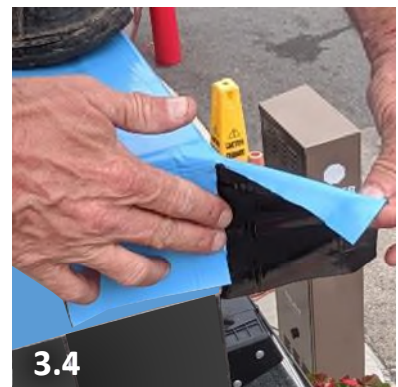
- A. Assemble the standard Walk-In ensuring a 2" air gap between the main building wall and the rear wall of the Outdoor Walk-In. (*Photo 2.1*)
- B. Partially remove the protective film on the wall seams before applying silicone sealant. *Panels will thus remain protected during primer application needed for installing the Blueskin membrane over ceiling panels.*
- C. Apply silicone sealant in all exposed exterior wall seams of the Walk-In. Color must match that of the panels. (*Photo 2.2*)

For non-accessible exterior seams (facing another wall), exterior ceiling seams and interior seams, a PVC foam gasket is pre-installed in factory. Therefore, it is not necessary to apply silicone sealant over those. A repair kit is supplied when missing or damaged.



3. Sealing ceiling panels seams :

- A. Completely remove the protective film on all ceiling panels.
- B. Over a clean and dry surface, apply aerosol primer at every panel seam (approx. 9'' wide) taking care of protecting the surrounding exposed metal.
Protect using cardboard or by partially removing the protective film over the upper part of the wall panels onto which the membrane will then be applied. (Photo 3.1)
- C. Install Blueskin membrane over primer.
Never apply membrane over the panels protective film!
- D. Apply pressure with a smoothing roller (supplied with panels) over the membrane to ensure a proper seal. (Photo 3.2)
- E. Repeat previous steps around the entire perimeter taking care of covering the wall to roof seams. Apply more pressure on areas where membranes overlap.



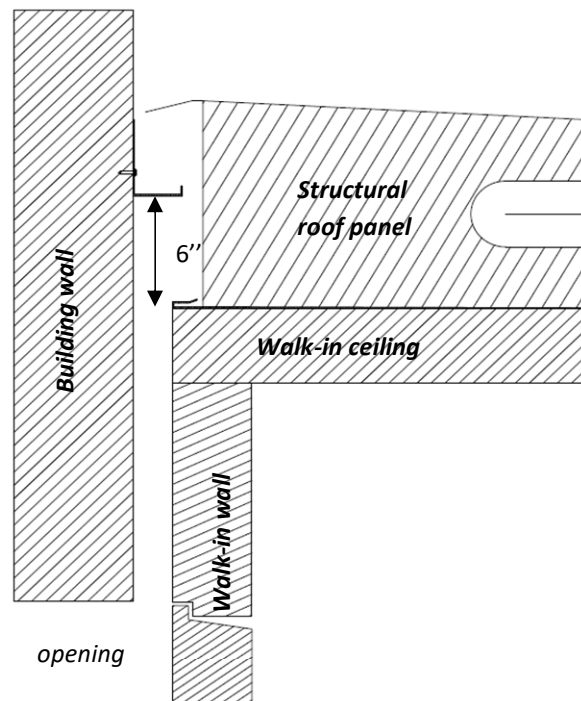
4. Evaporator(s) installation inside the Walk-In :

- A. Secure the evaporator using carriage bolts (not supplied by Norbec).
- B. Patch all penetrations with primer and Blueskin membrane. (*Photo 4.1*)



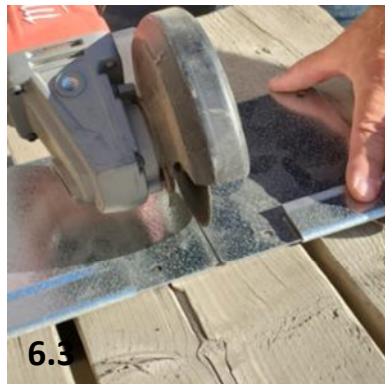
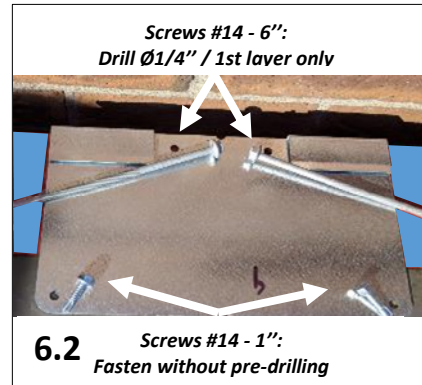
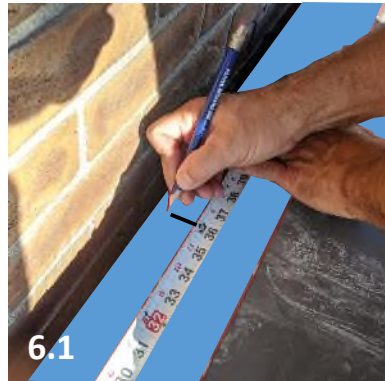
5. « Building Opening » gutter installation :

- A. Position the gutter (centered over the building's door) 6" over the ceiling's top surface.
- B. Secure gutter on the building using appropriate fasteners.



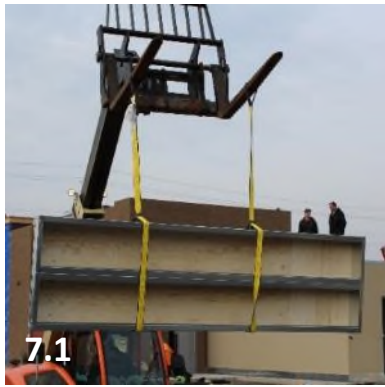
6. Structural roof panels installation preparation:

- A. Refer to the installation drawings and to the “structural roof panel layout” view.
- B. Mark on the ceiling (building side) the structural panels seams position as indicated on the drawing. (Photo 6.1)
- C. Install the structural roof attachments centered on your marks and aligned with the edge of the ceiling using screws #14-6” and #14-1”. (Photo 6.2)
- D. At endings (right/left), use half of an attachment (cut onsite). (Photos 6.3 & 6.4)



7. Structural roof panels installation :

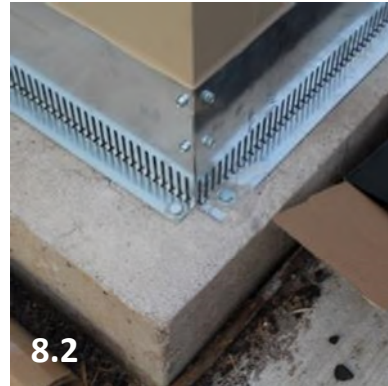
- A. Identify the sequence of installation to finish with the narrowest panel (so that it is easier to handle last)
- B. Lift, using the appropriate equipment (*Photo 7.1*), the 1st structural roof panel (Handle with care so as not to damage the membrane installed on ceiling). Use the grip holes on the sides of panels to handle. (*Photo 7.3*)
- C. Approach the roof panel to the edge of the Walk-In, in the same orientation as the ceiling panels so that its side is flush with Walk-In side wall and push on the panel to insert it into the attachment plate. (*Photo 7.4*)
- D. Temporarily secure the 1st panel with a self-tapping screw on the front in the center of the panel and use a temporary alignment attachment to hold it flush with the side wall. (one screw in the structural roof – one screw in the side wall of the Walk-In) (*Photos 7.5 & 7.6*)
- E. Partially remove the protective film on each side of the roof panels to ease complete removal once roof junctions finishing trims will be in place. (*Photo 7.7*)
- F. Once 50% of roof panels are set, check alignment with wall panels and alignment of roof seams to your marks. Adjust if corrections are needed.
- G. Finish installation with the remaining panels.
- H. Once all panels are laid on ceiling and flush on all sides with Walk-In, fasten with 3 self-tapping screws on each panel's front face. (*Photo 7.8*)
- I. Remove the temporary alignment attachment of the 1st panel and apply a patch with primer & Blueskin to seal the hole.



8. « Lower belt ventilated » finishing trim installation :

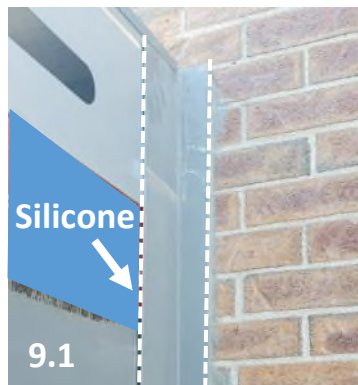
Install and secure the ventilated finishing trim (14 ga.) at the bottom of the Walk-In.

NOTE : A special anchor finishing trim is supplied for installation under outside door, if applicable.



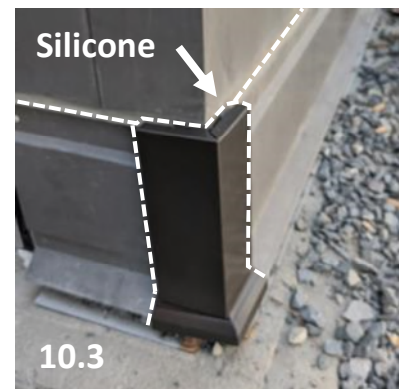
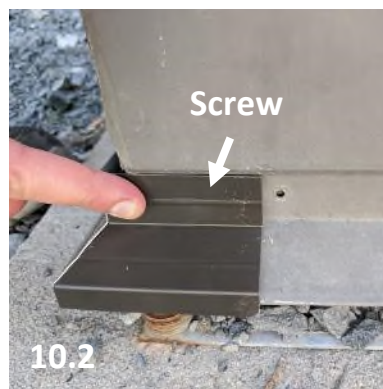
9. « Side finishing trim Building / ExSPACE » installation :

- A. Cut the finishing trim to ensure it starts above the ventilated trim and finishes flush with the structural roof upper profile.
- B. Seal with silicone on all exposed joints.



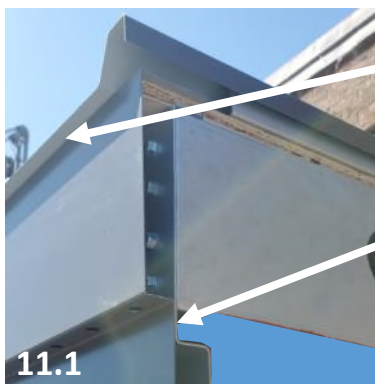
10. « Lower Belt » finishing trim installation :

- A. Place over the ventilated finishing trim.
- B. On inner corners, the lower belt finishing trim overlaps the side finishing trim. *(Photo 10.1)*
- C. Place and secure the corner drip edge. *(Photo 10.2)*
- D. Hook and seal with silicone the corner finishing trim. *(Photo 10.3)*
- E. Seal with silicone the upper edge of the lower belt finishing trim.



11. « Upper belt » front finishing trim installation :

- A. Carefully lift-off the roof's upper metal skin to insert the finishing trim between the plywood and the metal skin. *(Photos 11.1 & 11.2)*
- B. Push the finishing trim to abut against the panel's front face. *(Photo 11.1)*
- C. Secure with two rows of #8 square drive self tapping screws.



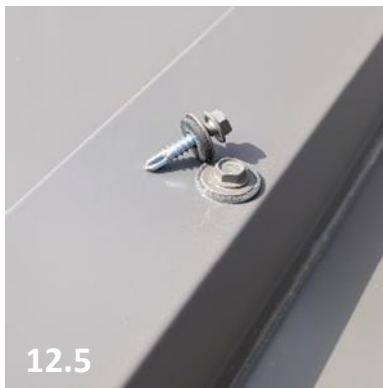
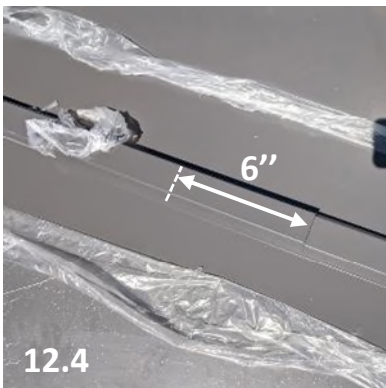
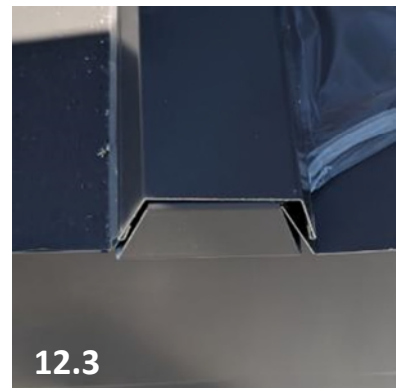
Upper belt front finishing trim inserted under roof's metal skin

Finishing trim is leaned against the panel's front face



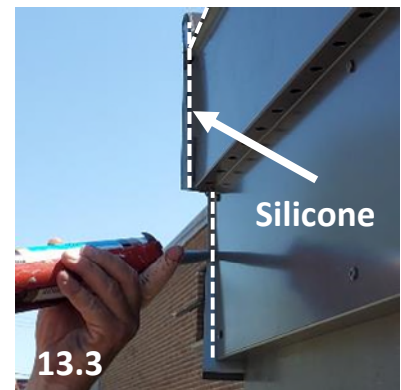
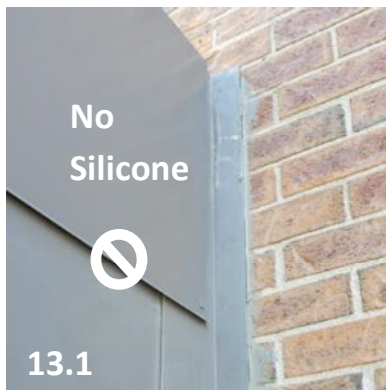
12. « Roof junctions » finishing trims installation :

- A. Insert roof junction caps at each crest opening extremity. *(Photo 12.1)* For side panels, cut a cap in half. *(Photo 12.2)*
- B. Remove the protective film from the butyl pre-installed in factory in the finishing trims.
- C. Lay junction finishing trims between panels *(Photo 12.3)*
- D. In the case where panel length requires installation of 2 finishing trims, start installation with that from the bottom and overlap over 6" with the top one. *(Photo 12.4)*
- E. Secure all trims with pre-painted roofing screws pre-assembled with a sealing washer. *(Photo 12.5)*
- F. Seal with silicone all around the upper belt front finishing trim. *(Photo 12.6)*



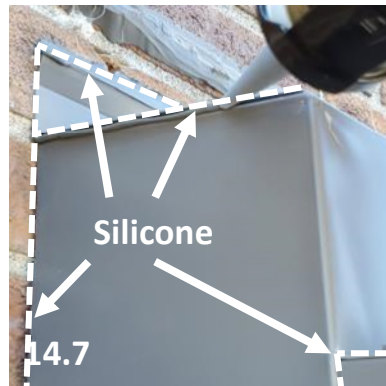
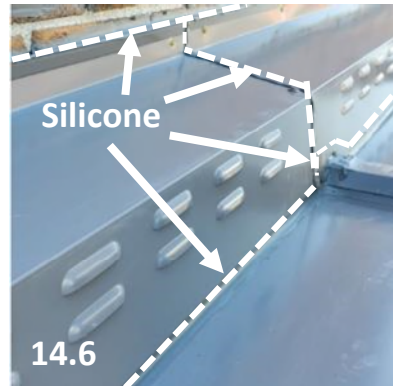
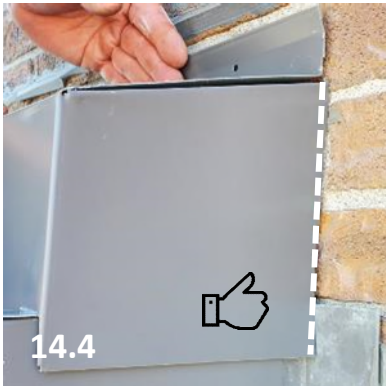
13. « Upper lateral » finishing trim installation :

- A. Remove the protective film from the butyl pre-installed in factory in the finishing trims and install considering the roof angle when more than 1 piece are needed on the sides.
- B. Cut the end of the trim so that it is flush with the building wall. (*Photo 13.1*)
- C. In the case where panel length requires installation of 2 finishing trims, start installation with that from the bottom and overlap over 6" with the top one.
- D. Secure on sides with pre-painted square drive self-tapping screws.
- E. Seal with silicone at all interfaces with upper belt front finishing trim. (Photos 13.2 & 13.3)



14. Ventilated finishing trim « Building / ExSPACE installation » :

- A. Remove panel protective film on areas where the finishing trim will be set and installed.
- B. Mark with a chalkline the screws position on the roof junction finishing trims so that it ensures an 8'' distance from the building. (*Photo 14.1*)
- C. Select a central ventilated finishing trim (different with those with closed corners) and position it over the 1st roof panel junction on the left.
- D. If needed, make a cut in the openings to allow a better fit on the roof. (*Photo 14.2*)
- E. Overlap towards right with another central finishing trim (by design there should be a 12'' overlap). Mark the overlap and apply silicone on the surface of the previous trim before installing the next one on top. (*Photo 14.3*)
- F. Adjust if needed the width of the ventilated corner finishing trim to avoid interference with roof junction trim. Mark the overlap and apply silicone on the surface of the previous trim before installing the next one on top.
- G. Apply silicone bead on interfaces with building and structural roof. (*Photos 14.6 & 14.7*)
- H. Once all these steps are completed, remove the remaining protective film of the roof & wall panels.



15. « Exterior door » gutter installation (optional) :

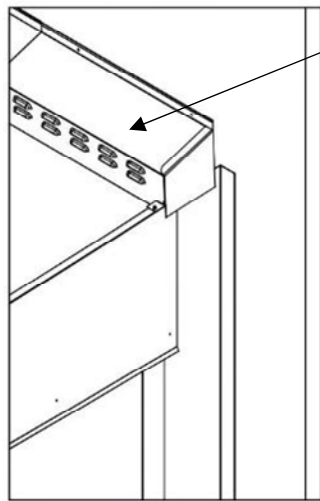
- A. Install the gutter centered above the door as low as possible as not to interfere with door opening.
- B. Apply silicone bead on top edges.



16. Condensing unit(s) installation :

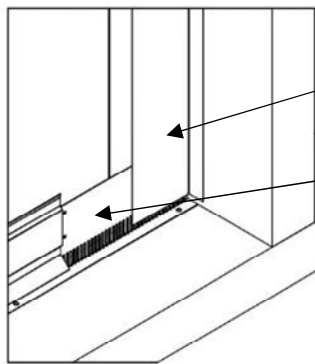
- A. When necessary install condensing units over structural roof using supports designed for this purpose.
- B. Remove protective film from factory pre-installed butyl on supports.
- C. Screw supports to structural roof.
- D. Install and secure condensing units over supports.

APPENDIX 1 – Finishing trim installation sequence



DETAIL A

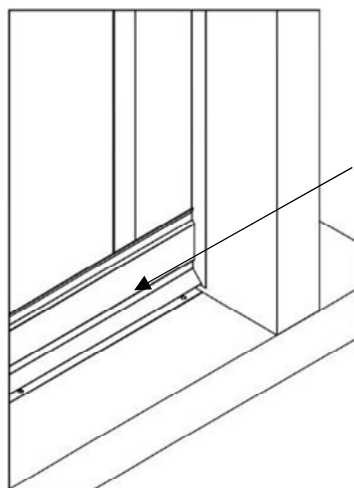
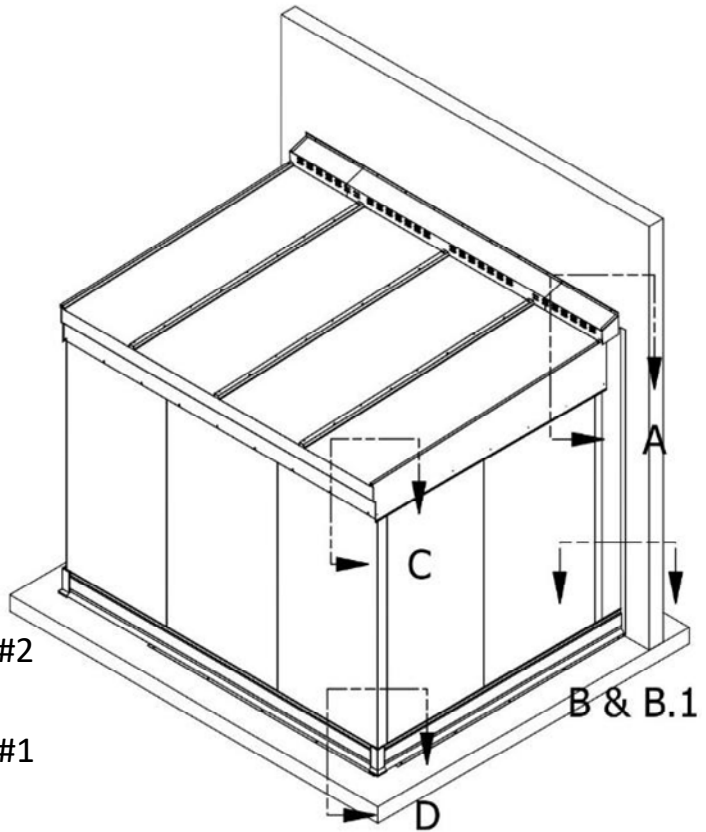
Install #8



DETAIL B

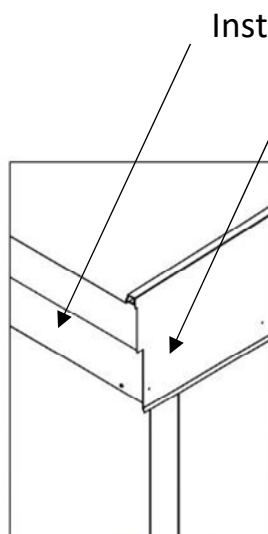
Install #2

Install #1



DETAIL B.1

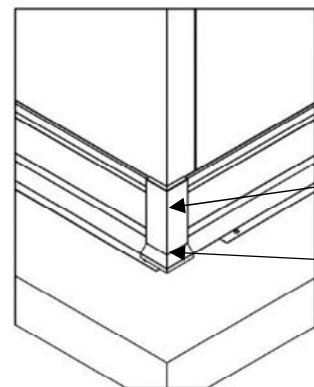
Install #3



DETAIL C

Install #6

Install #7



DETAIL D

Install #5

Install #4