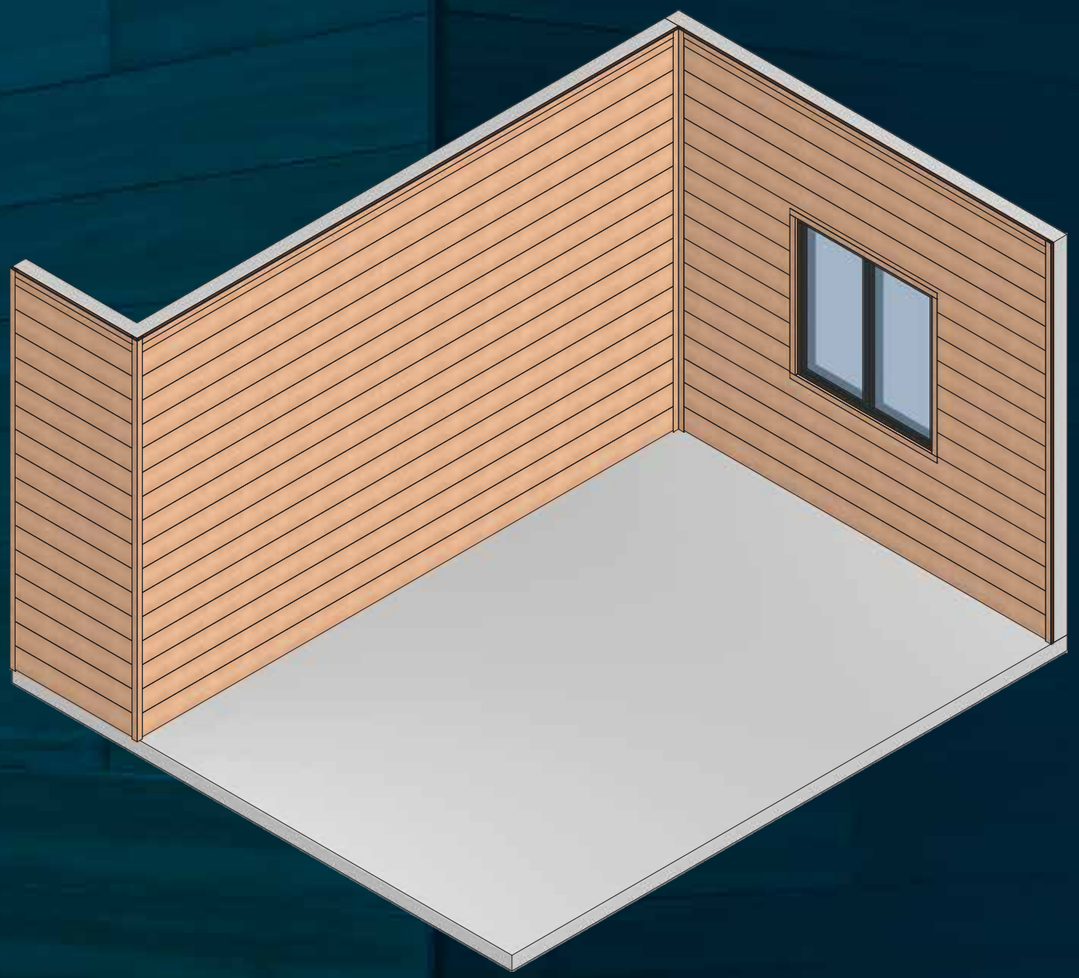
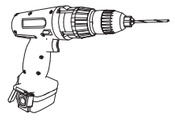
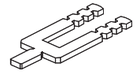
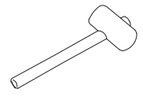
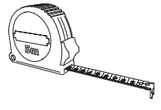
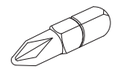
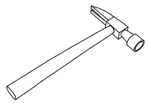
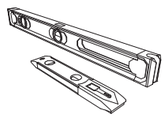
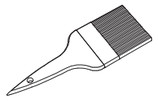
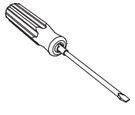
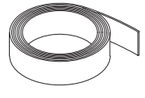


SIDING INSTALLATION MANUAL

HORIZONTAL

E|S Architectural Cladding Systems

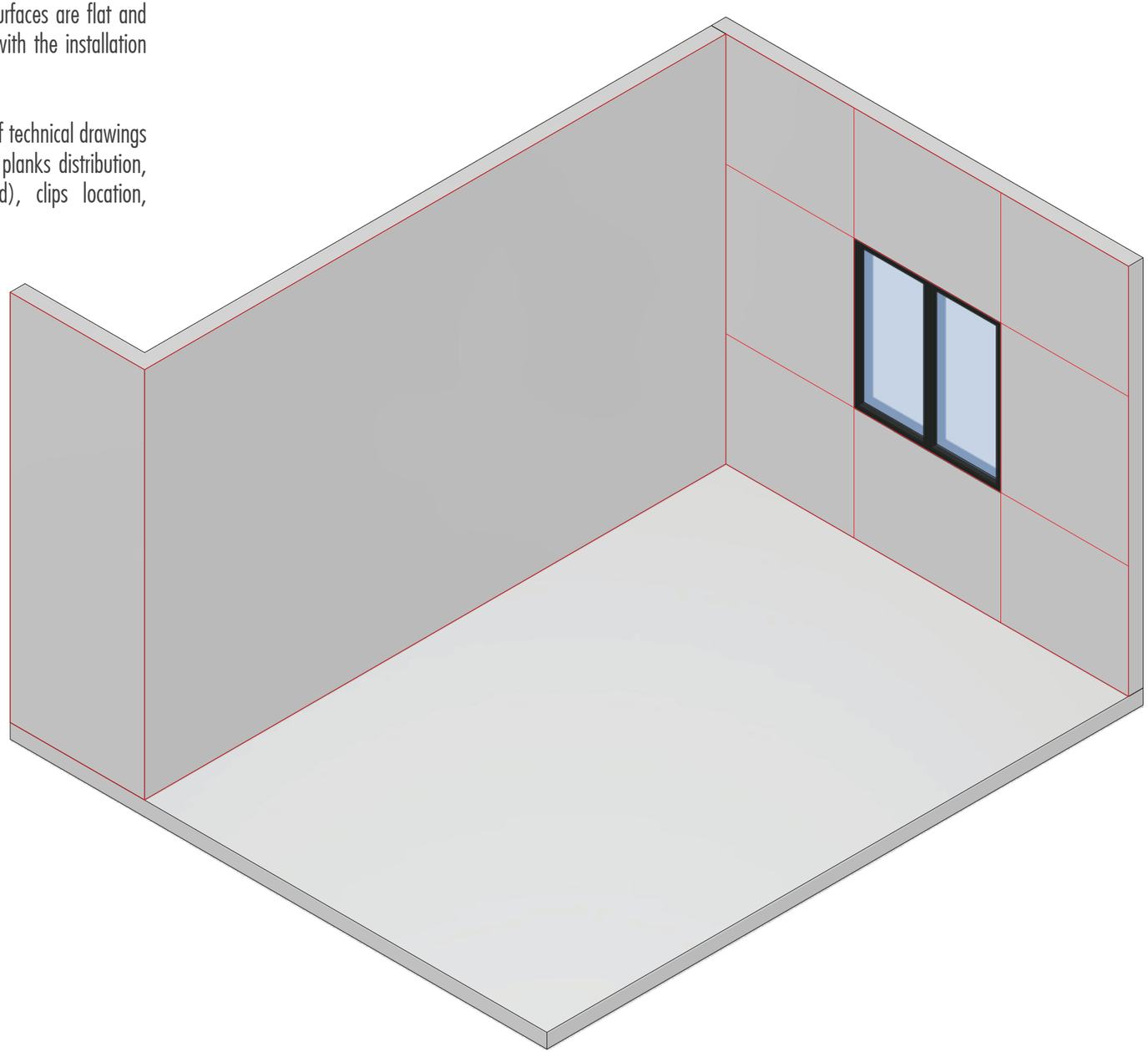
TOOLS & SUPPLIES FOR INSTALLATION

Detail	Description	Detail	Description	Detail	Description
	Drill		Plastic shims		Mallet
	Meassure tape		Plumb		Point
	Hammer		Level		Clean rag
	Phillips screwdriver		Brush		Safety gloves
	Slot screwdriver		Masking tape		Safety glasses

1. SET UP & PREPARATION

Measure the facade and check that the surfaces are flat and without imperfections that may interfere with the installation process.

Make sure to follow a comprehensive set of technical drawings including, but not limited to, dimensions, planks distribution, layout for the substructure (If required), clips location, vertical/horizontal joints and openings.



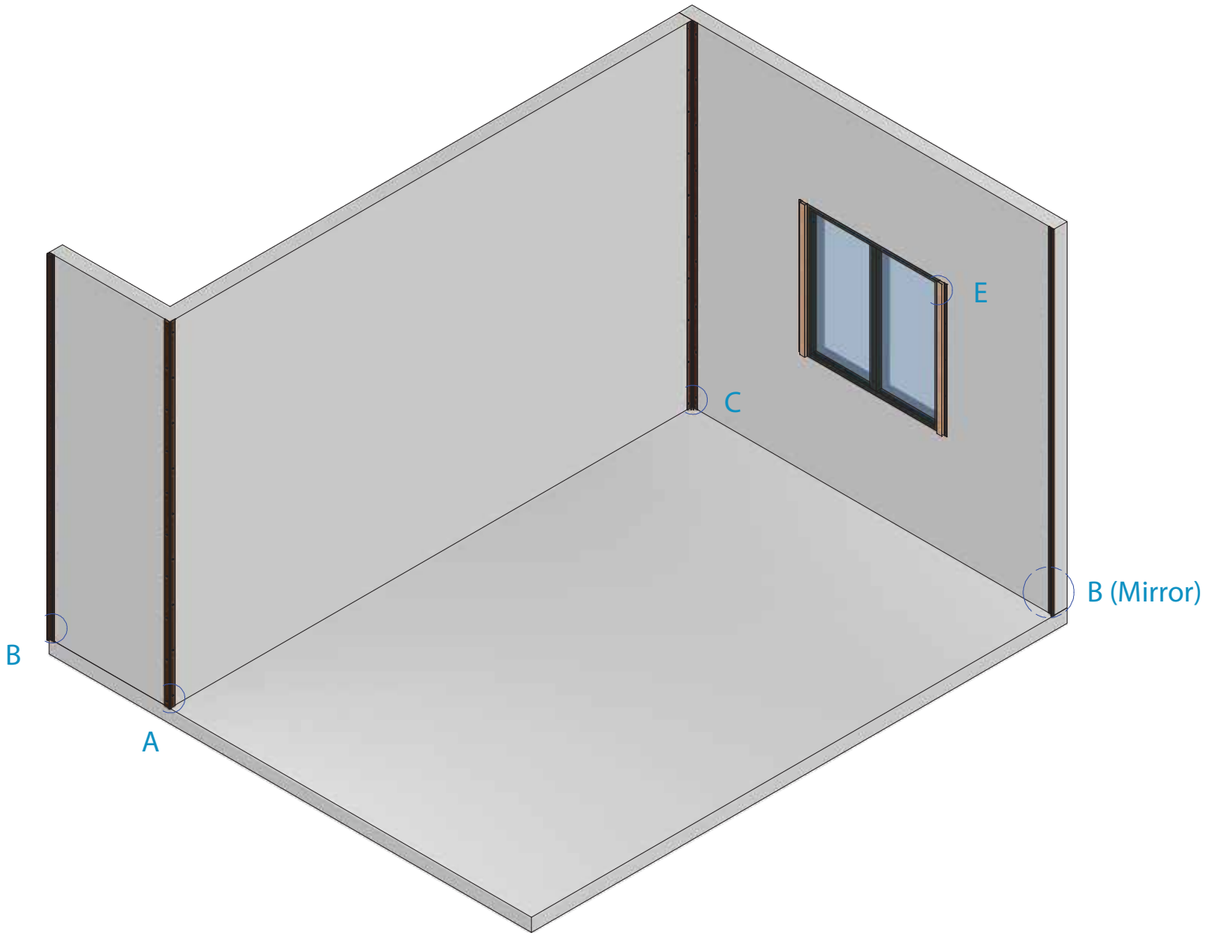
2. INSTALL VERTICAL PROFILES

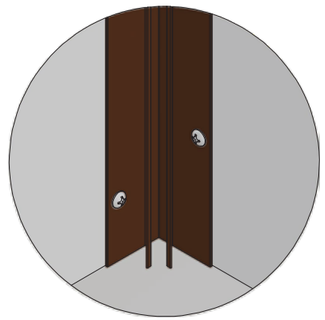
Make sure that vertical profiles are straight and cut to size before installation. Vertical profiles, at the perimeter of the facade, should run from bottom to top, containing horizontal profiles.

Vertical/horizontal profiles distribution may differ depending planks orientation and trims used.

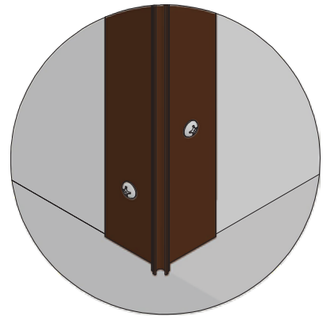
Use proper screws, as defined depending of the substrate, and secure the profiles directly to the surface using shims (if needed for leveling).

Screws spacing to be defined based on Wind Loads.

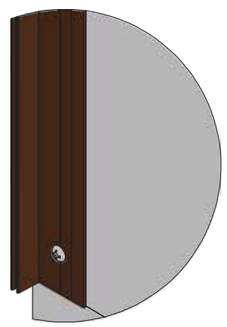




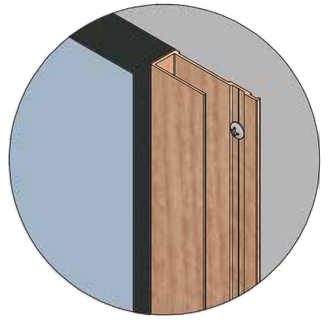
DETAIL C
SCALE 4" = 1'-0"



DETAIL A
SCALE 4" = 1'-0"



DETAIL B
SCALE 4" = 1'-0"



DETAIL E
SCALE 4" = 1'-0"

3. INSTALL HORIZONTAL PROFILES

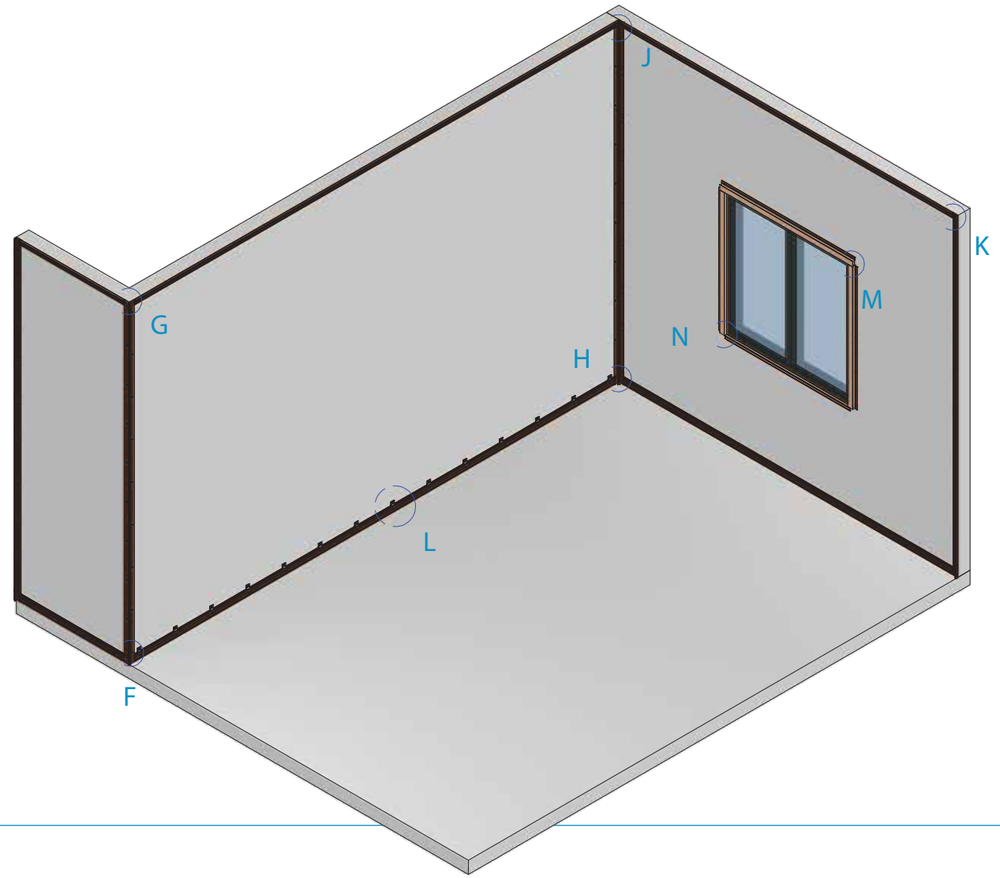
Make sure that horizontal profiles are straight and cut to size before installation. Horizontal profiles, at the perimeter of the facade, should be contained in between vertical profiles.

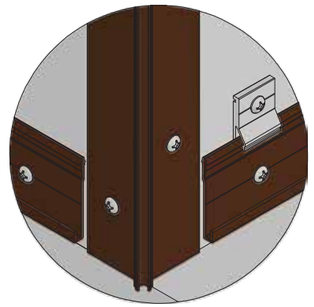
Confirm level/plumb at the Starter before fixing, as it will be the baseline for all planks to be parallel to the floor Secure the starter with a fastener directly to the substrate/substructure using a 3/16" Shim, near the middle of its length. Then proceed using clips to secure the rest of the profile, making sure its weight is evenly distributed.

Use proper screws, as defined depending of the substrate, and secure the profiles directly to the surface using shims (if needed for leveling).

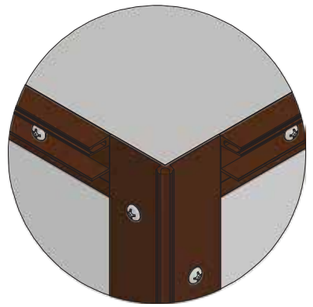
Screws spacing to be defined based on Wind Loads.

At openings, miter cuts are advisable to hide exposed edges. If straight cuts are used, as shown on detail M, make sure to notch the overlapping J Finisher profile to provide clearance for the planks, and use touch-up paint at the exposed edge.





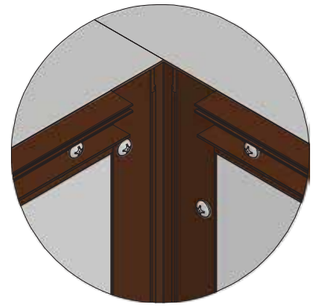
DETAIL F
SCALE 4" = 1'-0"



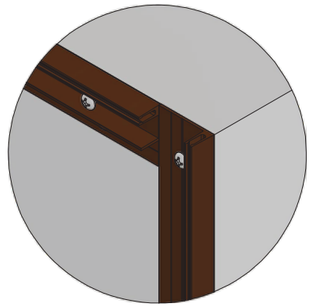
DETAIL G
SCALE 4" = 1'-0"



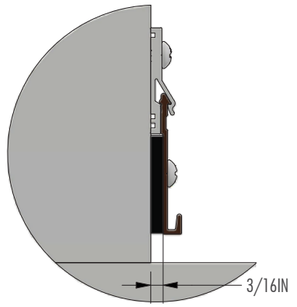
DETAIL H
SCALE 4" = 1'-0"



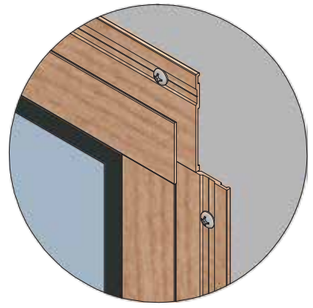
DETAIL J
SCALE 4" = 1'-0"



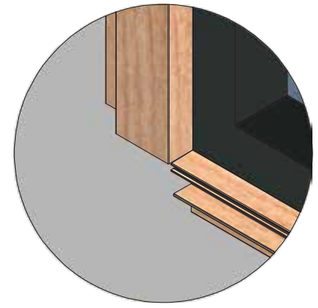
DETAIL K
SCALE 4" = 1'-0"



DETAIL L
SCALE 6" = 1'-0"



DETAIL M
SCALE 4" = 1'-0"



DETAIL N
SCALE 4" = 1'-0"

4. PLACE INITIAL PLANKS

Make sure that planks are straight and cut to size before installation.

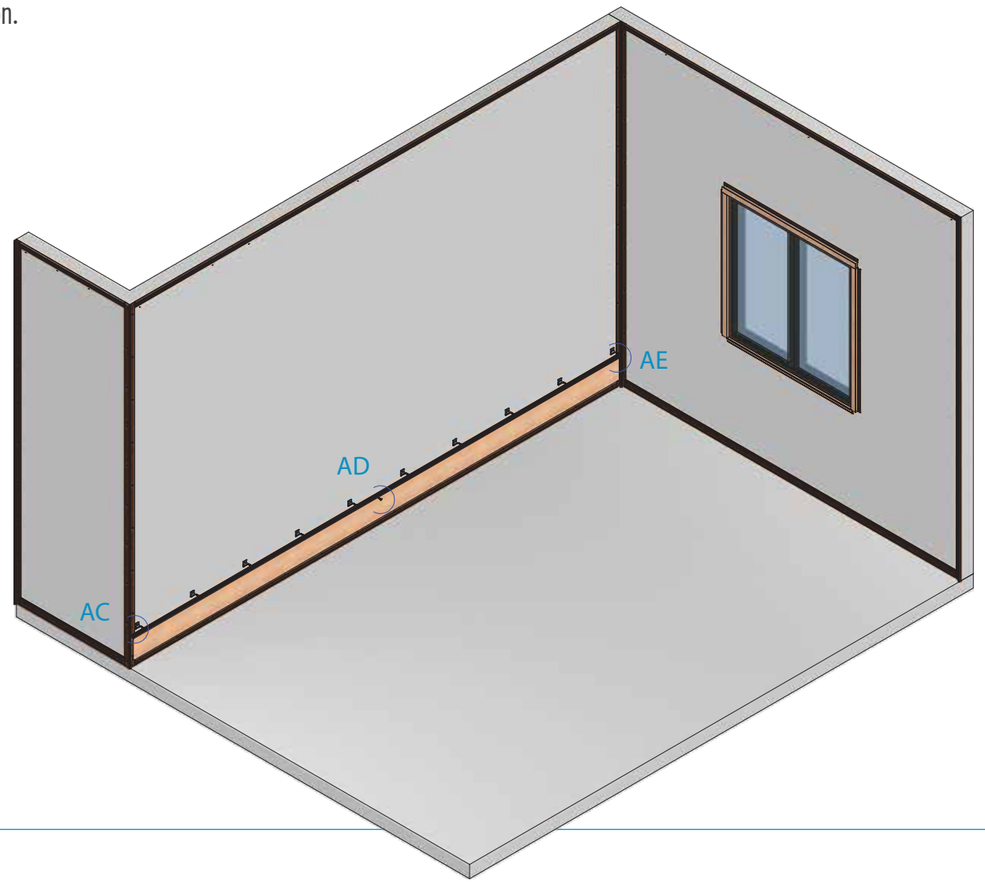
Carefully drop initial plank until it is fully engaged with the Starter, as shown on **detail BA**. Center the plank as required and make sure to leave a 1/4" min. gap in between the ends of the profile and adjacent perimeter trims. For corners, measure a gap of 7/16" min. to provide enough clearance after covers are placed (**Detail BE**).

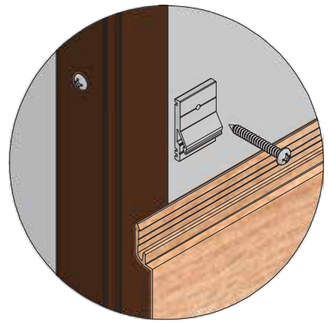
Use only one Extra-Wide Rounded Head Drilling Screw near the middle of the plank (See detail AD), at the top of the profile, to secure it against the substrate/substructure to prevent migration.

For Butt-joints: **detail BF & BG**.
Make sure to join planks next to each other and use the 6.5" butt-joint clip to engage both planks firmly. Fasten the planks as shown, and secure them in place using Extra-Wide Rounded Head Drilling Screw.

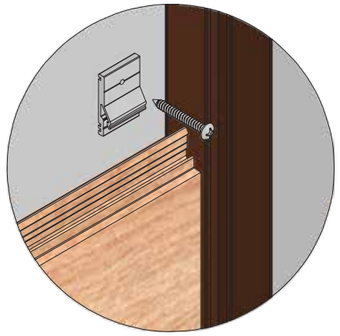
When using Butt-joints, no additional Extra-Wide Rounded Head Drilling Screws should be used at any point of each plank.

Only one butt-joint may be used once for each 40' row of planks.

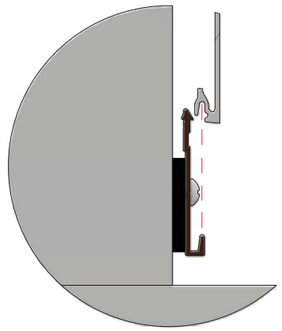




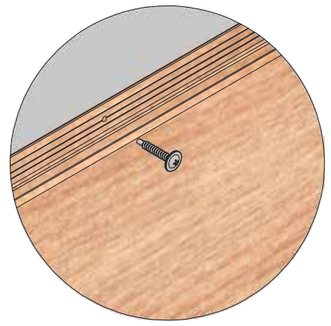
DETAIL AC
SCALE 4" = 1'-0"



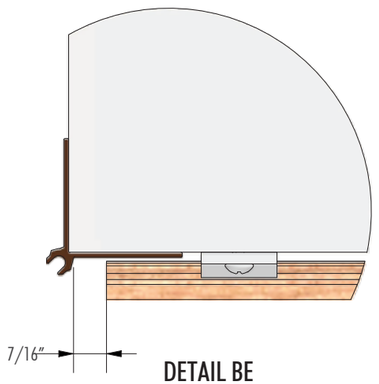
DETAIL AE
SCALE 4" = 1'-0"



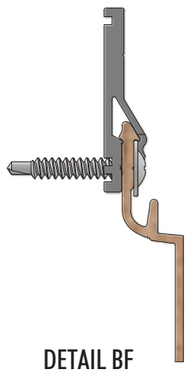
DETAIL BA
SCALE 6" = 1'-0"



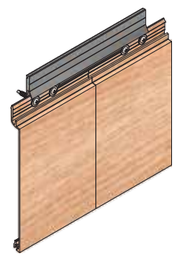
DETAIL AD
SCALE 4" = 1'-0"



DETAIL BE
SCALE 6" = 1'-0"



DETAIL BF
SCALE 10" = 1'-0"



DETAIL BG
SCALE 2" = 1'-0"

5. CONTINUE WITH THE NEXT PLANKS

Make sure that planks are straight and cut to size before installation.

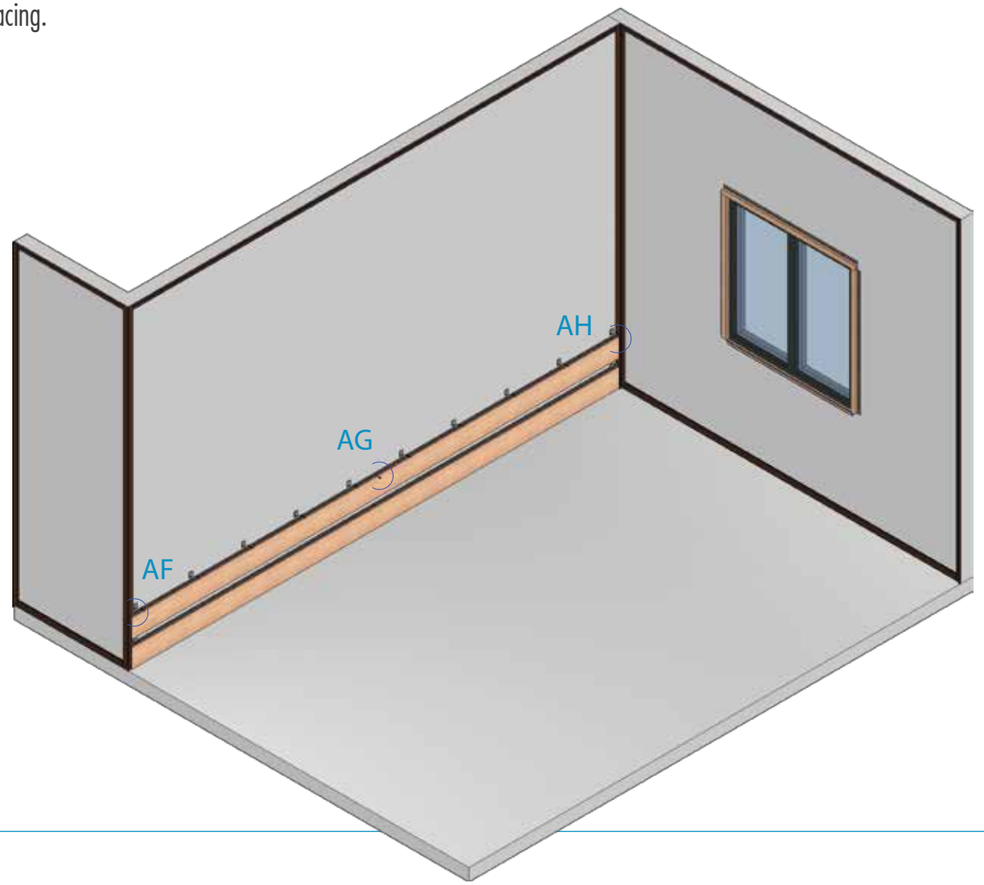
Carefully drop initial plank until it is fully engaged with the Starter, as shown on **detail BA**. Center the plank as required and make sure to leave a 1/4" min. gap in between the ends of the profile and adjacent perimeter trims. For corners, measure a gap of 7/16" min. to provide enough clearance after covers are placed (**Detail BH**).

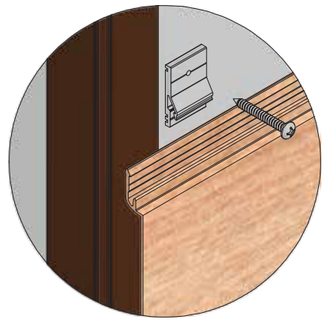
Slide clips from above the plank until they snap in place (**Detail AF & AH**). Use proper screws, as defined depending of the substrate, and secure the clips directly to the surface using shims (if needed for leveling). Structural engineer to define clips spacing.

Use only one Extra-Wide Rounded Head Drilling Screw near the middle of the plank (See Detail AD), at the top of the profile, to secure it against the substrate/substructure to prevent migration.

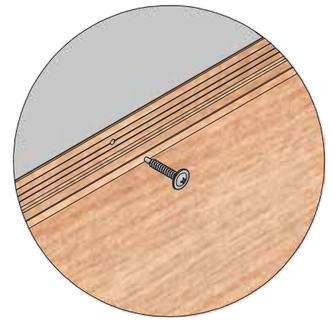
For Butt-joints: **Detail BI & BH**.
Make sure to join planks next to each other and use the 6.5" butt-joint clip to engage both planks firmly. Fasten the planks as shown, and secure them in place using "Extra-Wide Rounded Head Drilling Screw.

When using Butt-joints, no additional Extra-Wide Rounded Head Drilling Screws should be used at any point of each plank.
Only one butt-joint may be used once for each 40' row of planks.

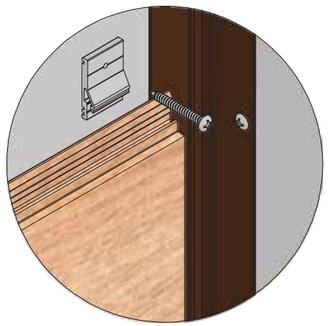




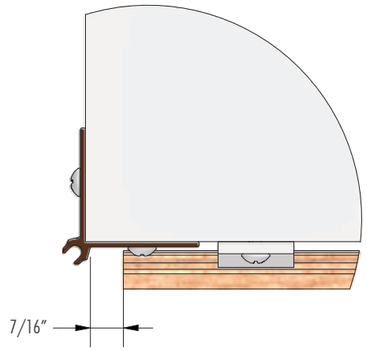
DETAIL AF
SCALE 4" = 1'-0"



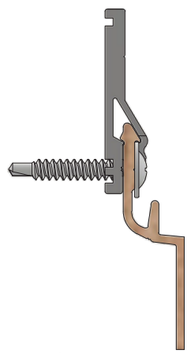
DETAIL AG
SCALE 4" = 1'-0"



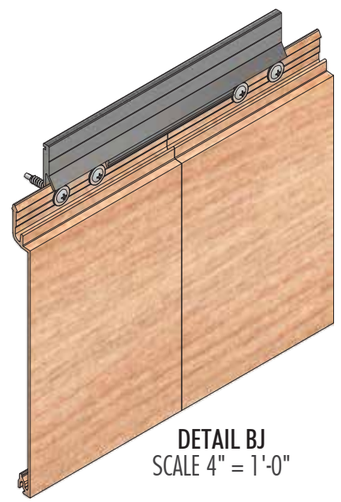
DETAIL AH
SCALE 4" = 1'-0"



DETAIL BH
SCALE 6" = 1'-0"



DETAIL BI
SCALE 10" = 1'-0"



DETAIL BJ
SCALE 4" = 1'-0"

6. MEASURE THE LAST PLANK TO BE CUT TO SIZE

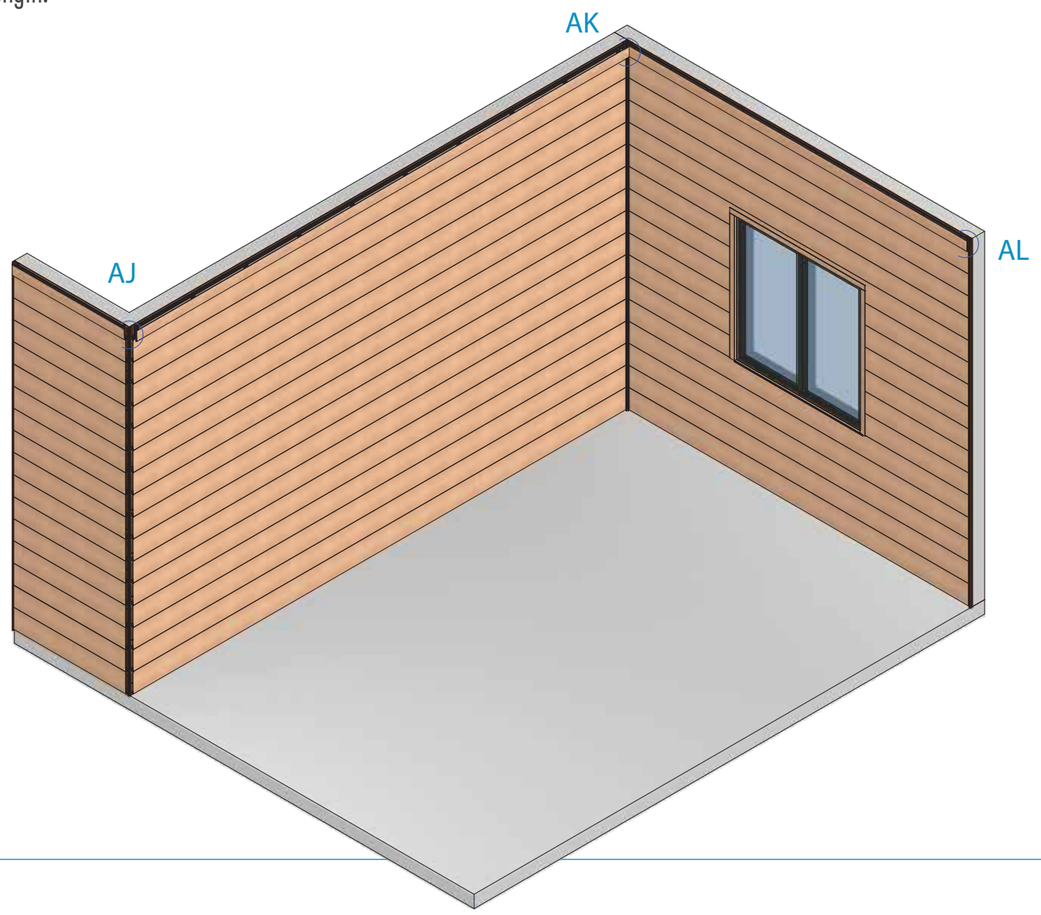
Make sure that planks are straight and cut to size before installation.

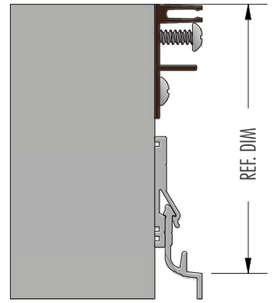
Measure from reference point shown on detail to top edge of the upper Base Stop Trim.

Take the measured dimension and subtract 5/8" to calculate the required height for the top plank. Measure the desired height from bottom of the plank (From reference point shown on detail) and cut the upper portion of the profile along its entire length.

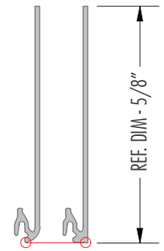
Carefully drop the last plank until it is fully engaged with the plank below.

Install screws to serve as a stop, to prevent Up & Down movement. Make sure that the head of the
screw is flushed with the exterior surface of the plank to prevent clashing with the cap (**Detail BL**).

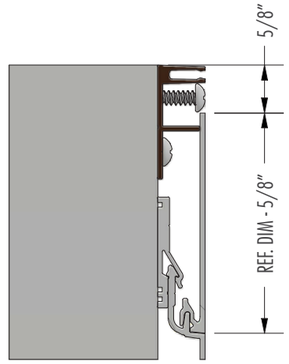




DETAIL BL
SCALE 6" = 1'-0"



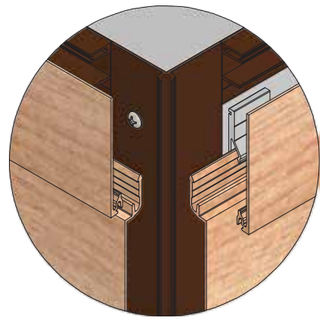
DETAIL BN
SCALE 6" = 1'-0"



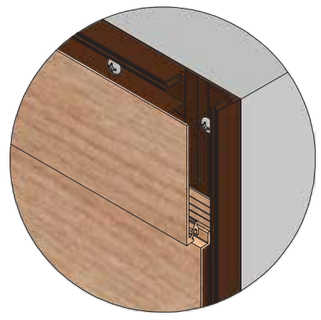
DETAIL BM
SCALE 6" = 1'-0"



DETAIL AK
SCALE 4" = 1'-0"



DETAIL AJ
SCALE 4" = 1'-0"

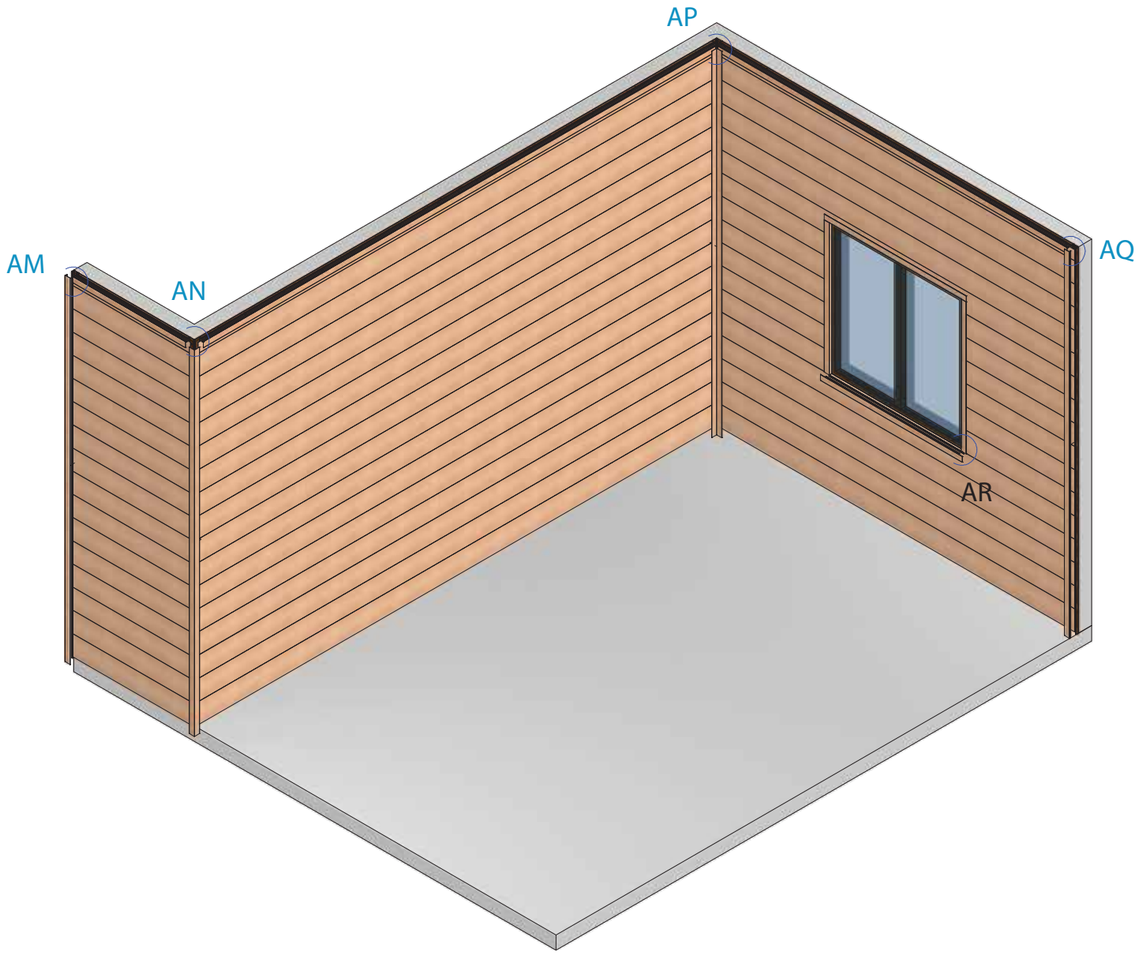


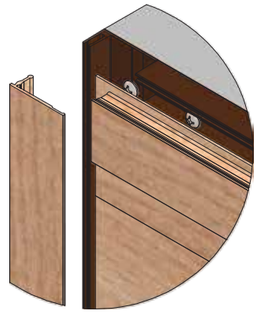
DETAIL AL
SCALE 4" = 1'-0"

7. INSTALL THE COVER PROFILES

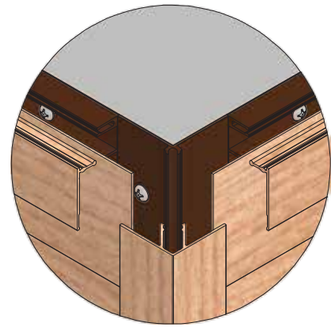
Where two piece trims are used, install the required covers using a rubber mallet or hammer and wood block to avoid damaging the finish.

Clean as required.

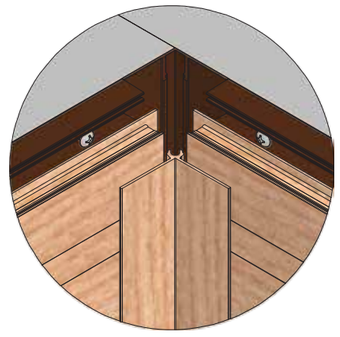




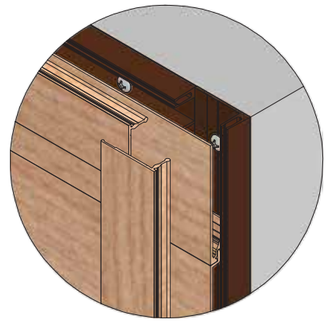
DETAIL AM
SCALE 4" = 1'-0"



DETAIL AN
SCALE 4" = 1'-0"



DETAIL AP
SCALE 4" = 1'-0"



DETAIL AQ
SCALE 4" = 1'-0"



DETAIL AR
SCALE 4" = 1'-0"

E|S Architectural Cladding Systems

For further information regarding our systems, refer to our website:
es-metals.com
contact@es-metals.com