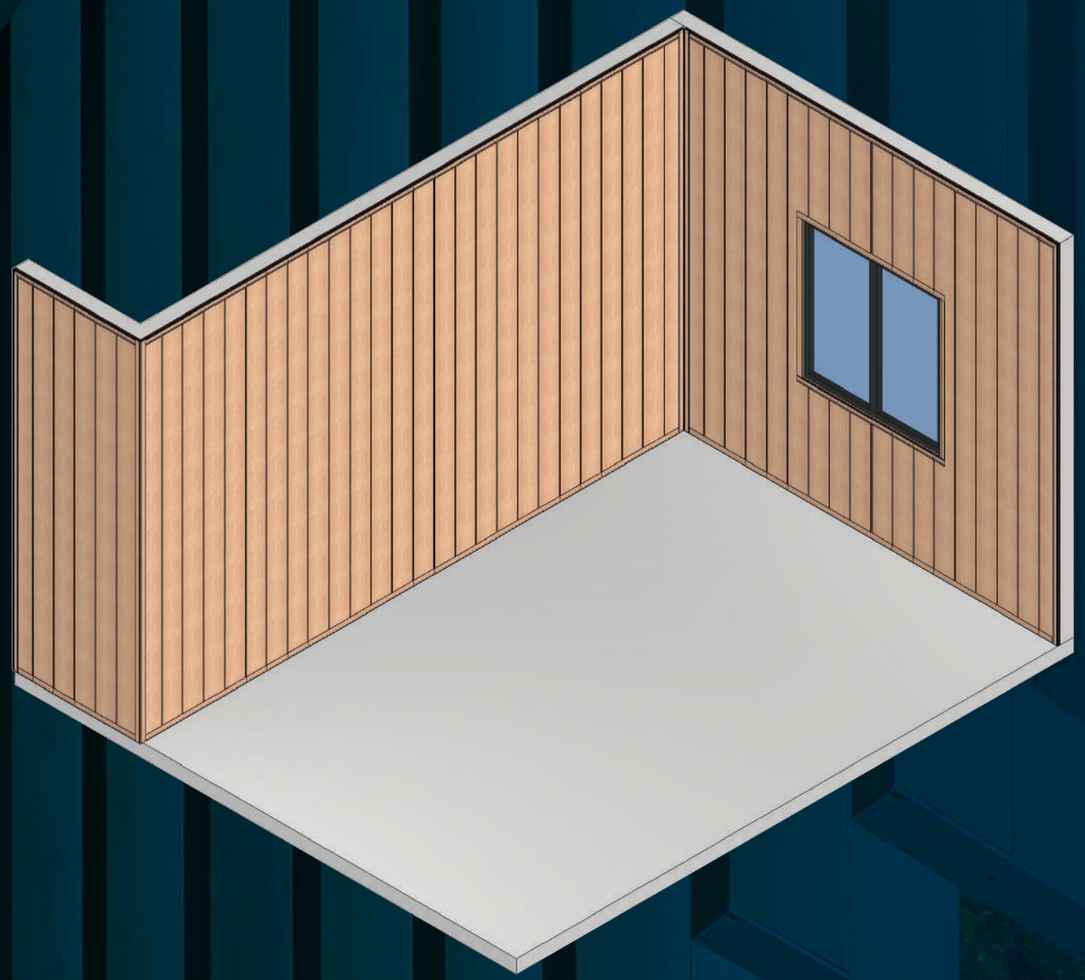
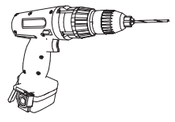
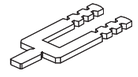
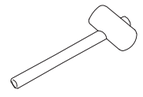
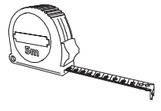
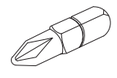
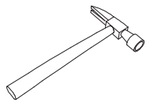
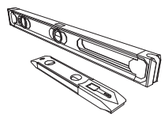
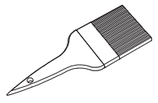
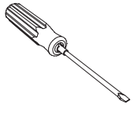


SIDING INSTALLATION MANUAL

VERTICAL

E|S Architectural Cladding Systems

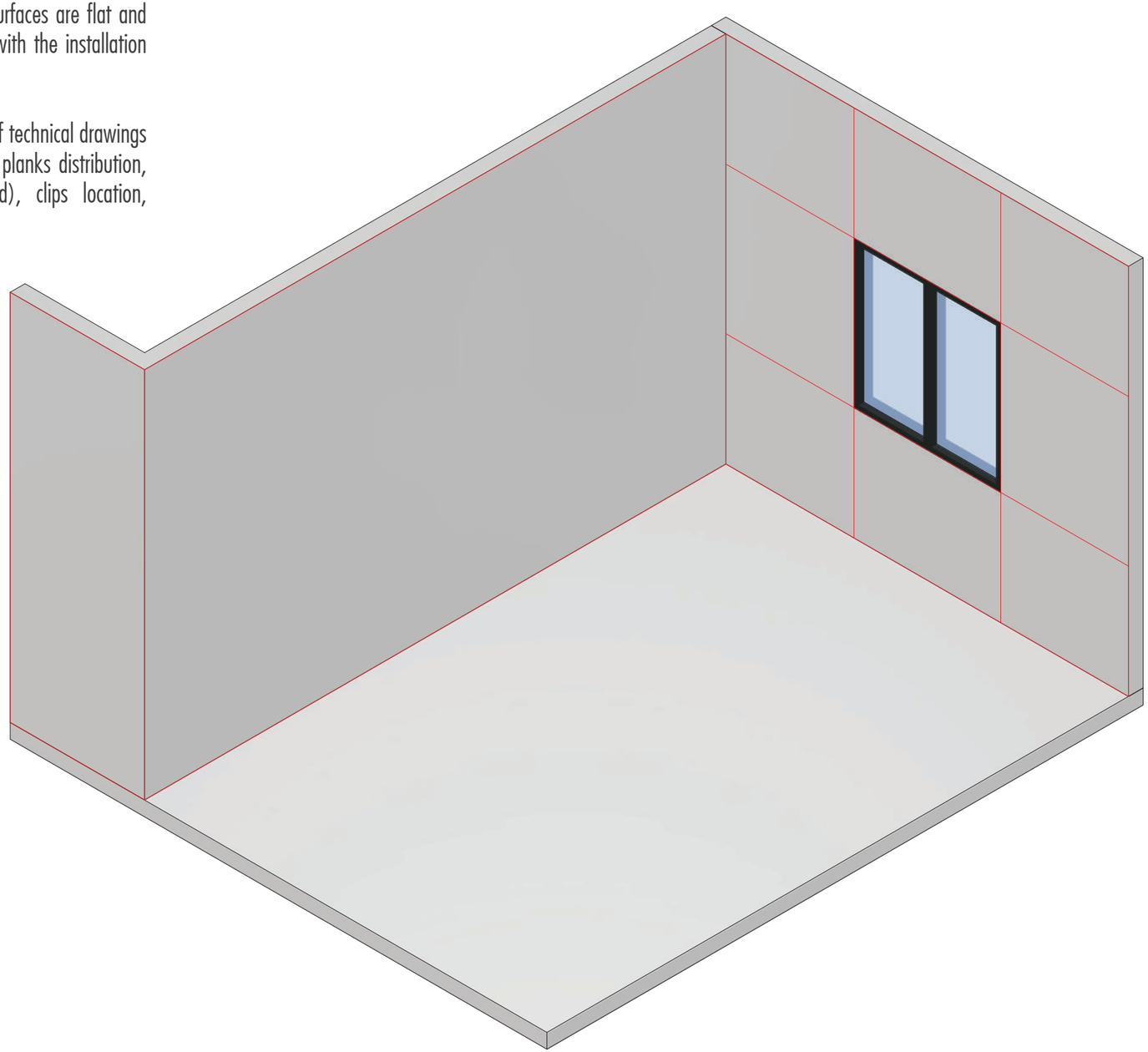
TOOLS & SUPPLIES FOR INSTALLATION

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.

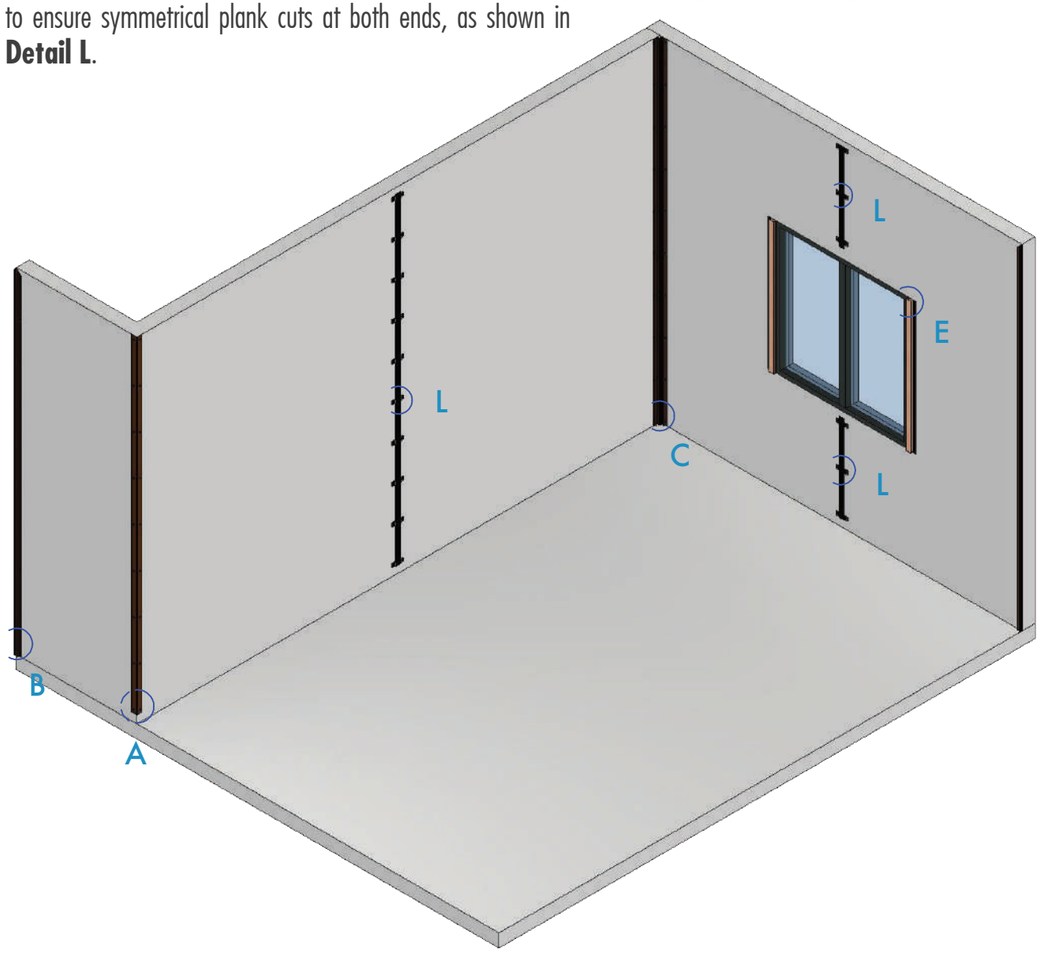
Make sure to follow a comprehensive set of technical drawings including, but not limited to, dimensions, planks distribution, layout for the substructure (If required), clips location, vertical/horizontal joints and openings.

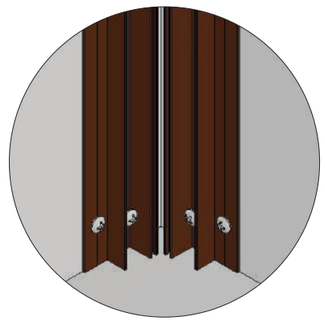


2. INSTALL VERTICAL PROFILES

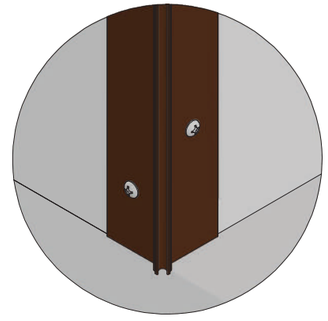
Make sure that vertical profiles are straight and cut to size before installation. Vertical profiles at the perimeter of the façade should run continuously from bottom to top, enclosing the horizontal profiles.In some cases, vertical profiles may be cut shorter to avoid interference with horizontal profiles and to reduce the number of notches required on site. See **Detail A** and **Detail F** (next page).
For inside corners, using two pieces of stop finisher may be more convenient than using a reversed corner set (see **Detail C**).
A mirror starter strip may be used at the center of the opening to ensure symmetrical plank cuts at both ends, as shown in **Detail L**.

The distribution of vertical and horizontal profiles may vary depending on the plank orientation and the type of trims used.
Use the proper screws, as defined according to the substrate, and fasten the profiles directly to the surface, using shims if needed for leveling.
Screw spacing should be defined based on wind load requirements. 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.

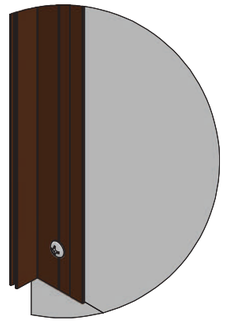




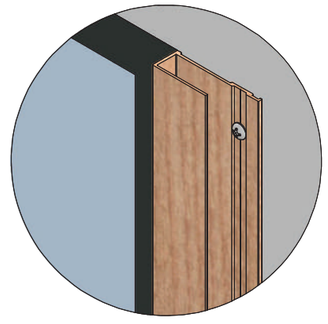
DETAIL C
SCALE 4" = 1'-0"



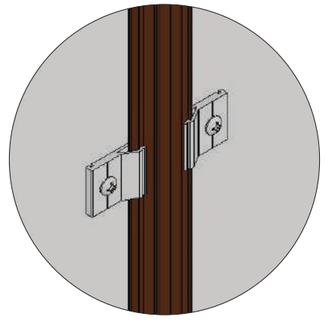
DETAIL A
SCALE 4" = 1'-0"



DETAIL B
SCALE 4" = 1'-0"



DETAIL E
SCALE 4" = 1'-0"



DETAIL C
SCALE 4" = 1'-0"

3. INSTALL HORIZONTAL PROFILES

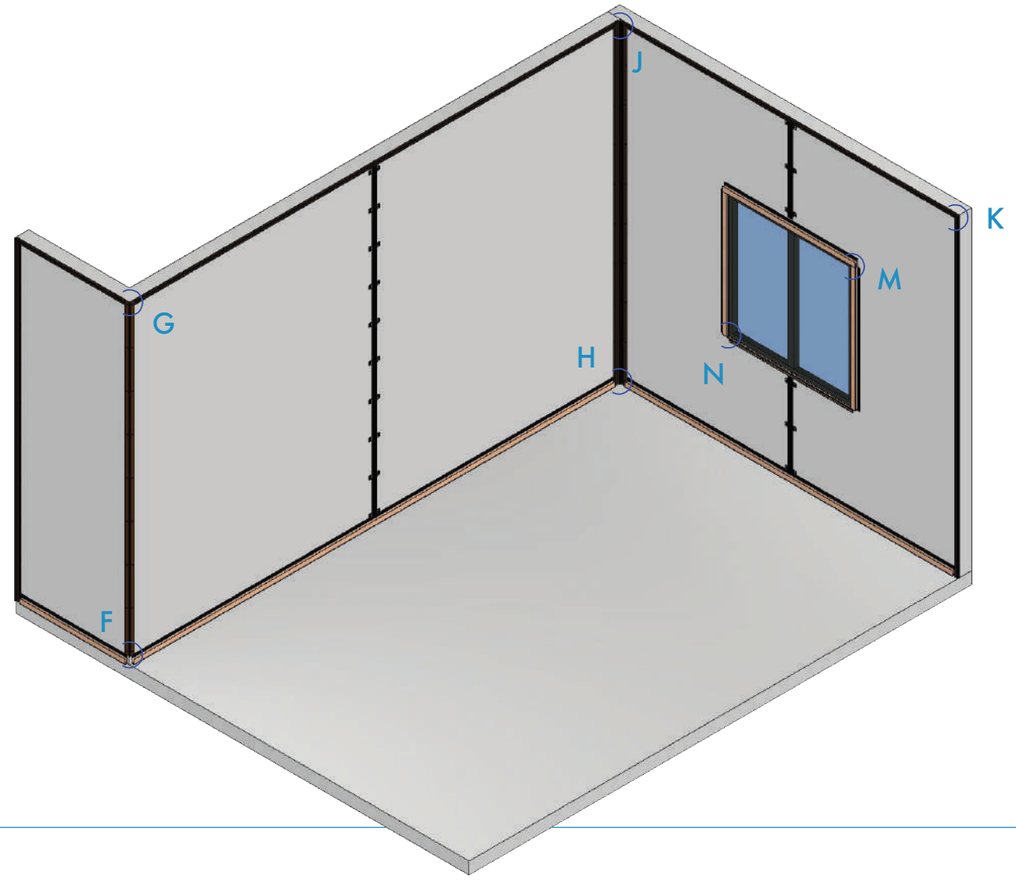
Make sure that horizontal profiles are straight and cut to size before installation. Horizontal profiles, at the perimeter of the facade, should be contained in between vertical profiles.

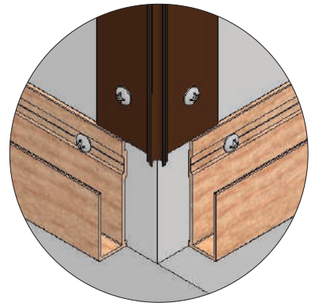
Confirm level/plumb at the Starter before fixing, as it will be the baseline for all planks to be parallel to the floor Secure the starter with a fastener directly to the substrate/substructure using a 3/16" Shim, near the middle of its length. Then proceed using clips to secure the rest of the profile,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

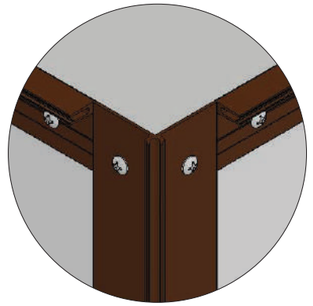
Screws spacing to be defined based on Wind Loads.

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.

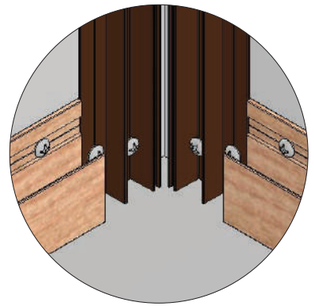




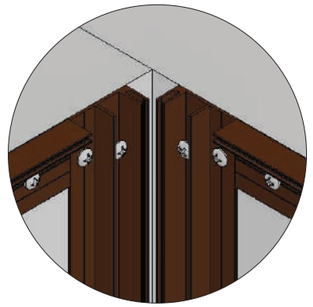
DETAIL F
SCALE 4" = 1'-0"



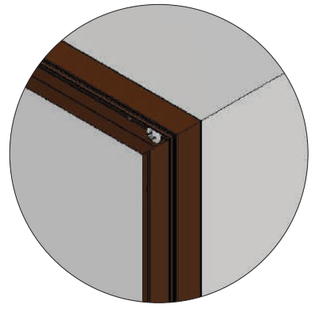
DETAIL G
SCALE 4" = 1'-0"



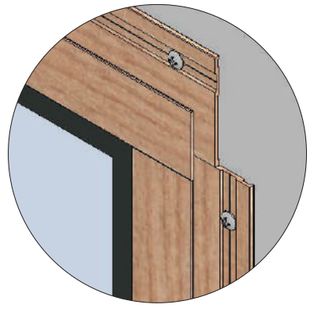
DETAIL H
SCALE 4" = 1'-0"



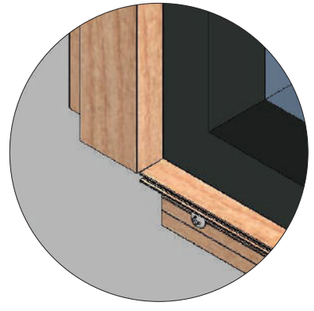
DETAIL J
SCALE 4" = 1'-0"



DETAIL K
SCALE 4" = 1'-0"



DETAIL 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.

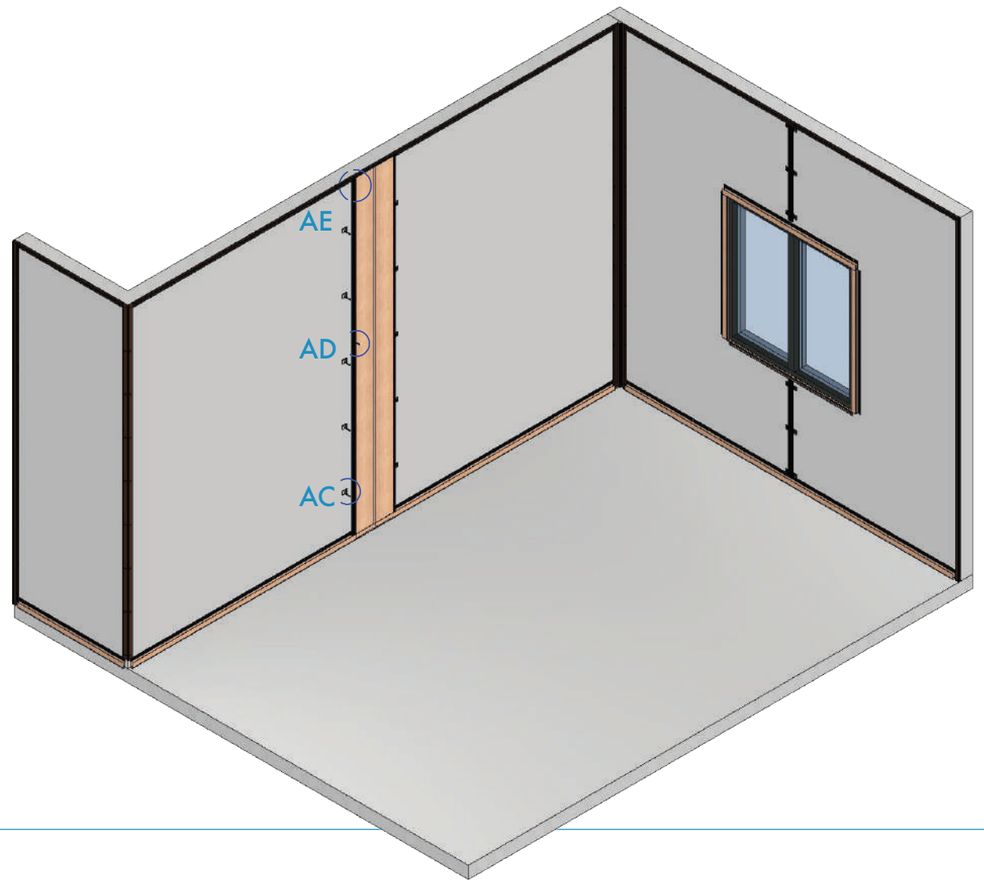
Carefully drop initial planks until it is fully engaged with the Starter, as shown on **detail BA**. Center the plank as required and make sure to leave a 1/4" min. gap in between the ends of the profile and adjacent perimeter trims (See **detail AE**).

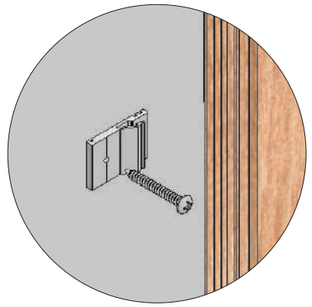
Use only one Extra-Wide Rounded Head Drilling Screw near the middle of the plank (See **detail AD**), at the top of the profile, to secure it against the substrate/substructure to prevent migration.

For Butt-joints: **detail BF & BG**.

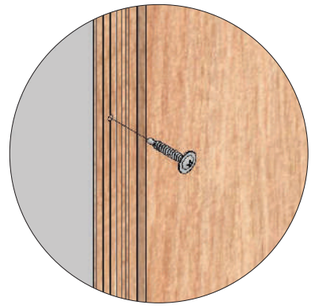
Make sure to join planks next to each other and use the 6.5" butt-joint clip to engage both planks firmly. Fasten the planks as shown, and secure them in place using Extra-Wide Rounded Head Drilling Screw.

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.

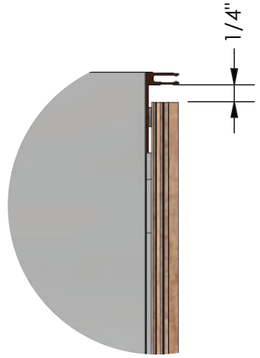




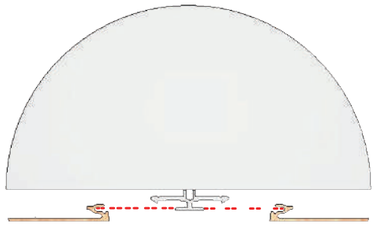
DETAIL AC
SCALE 4" = 1'-0"



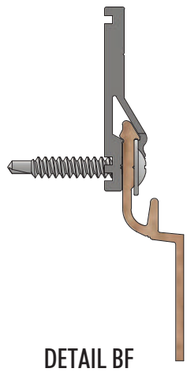
DETAIL AD
SCALE 4" = 1'-0"



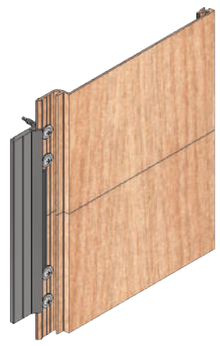
DETAIL AE
SCALE 6" = 1'-0"



DETAIL BA
SCALE 4" = 1'-0"



DETAIL BF
SCALE 10" = 1'-0"



DETAIL BG
SCALE 2" = 1'-0"

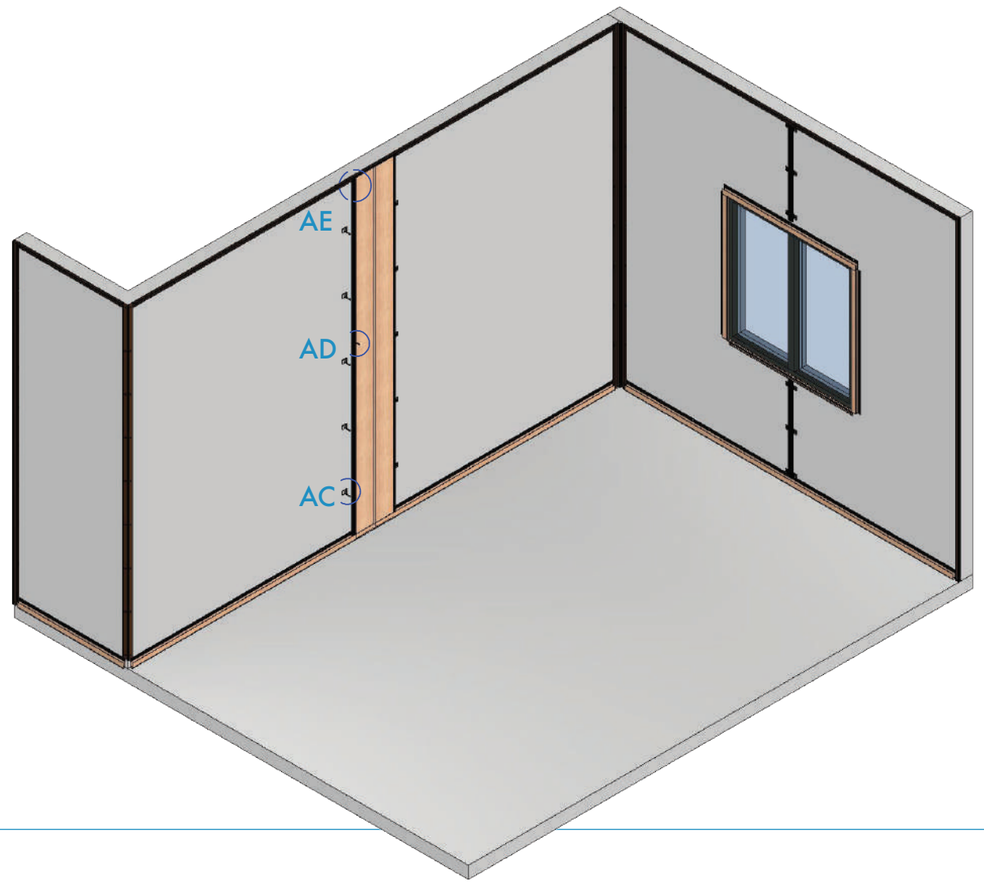
5. CONTINUE WITH THE NEXT PLANKS

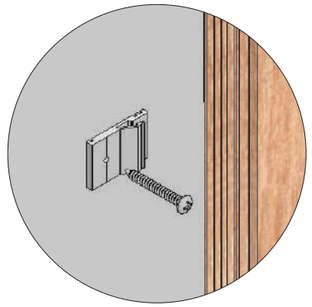
Make sure that planks are straight and cut to size before installation.

Carefully drop next plank until it is fully engaged with the previous, as shown on **detail BX**. 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(**Detail AE**).

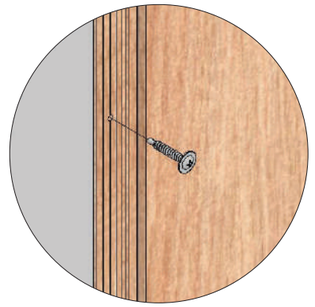
Slide clips from above the plank until they snap in place (**Detail BU**). Use proper screws, as defined depending of the substrate, and secure the clips directly to the surface using shims (if needed for leveling). Structural engineer to define clips spacing.

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 & BJ**.
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.

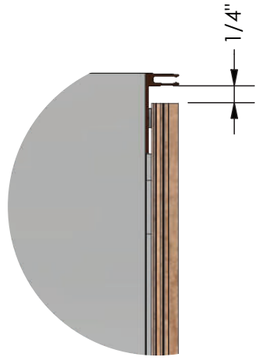




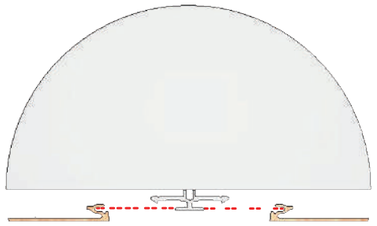
DETAIL BU
SCALE 4" = 1'-0"



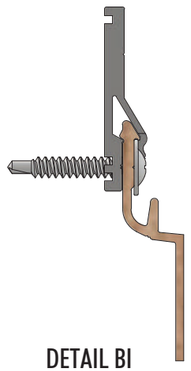
DETAIL AD
SCALE 4" = 1'-0"



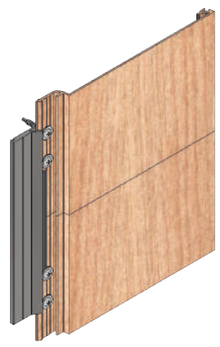
DETAIL AE
SCALE 6" = 1'-0"



DETAIL BX
SCALE 4" = 1'-0"



DETAIL BI
SCALE 10" = 1'-0"



DETAIL BJ
SCALE 2" = 1'-0"

6. MEASURE THE LAST PLANK TO BE CUT TO SIZE

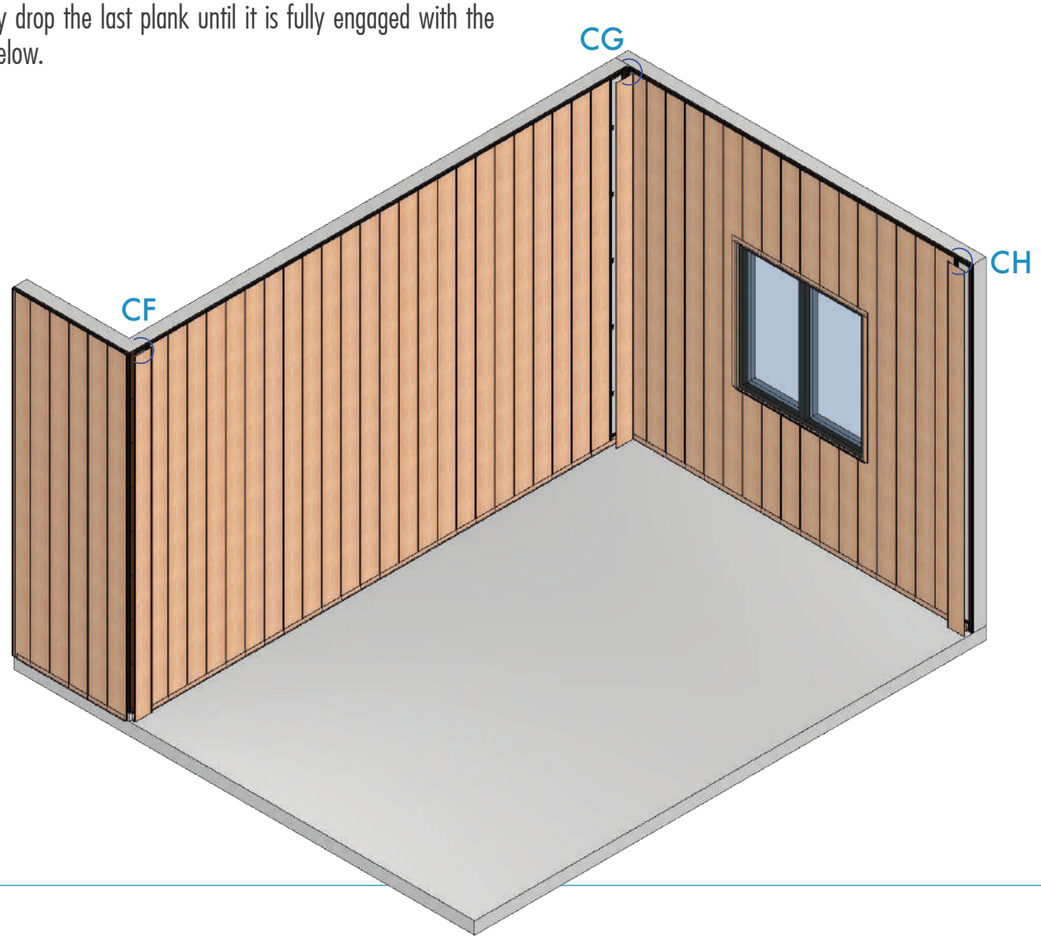
Make sure that planks are straight and cut to size before installation.

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.

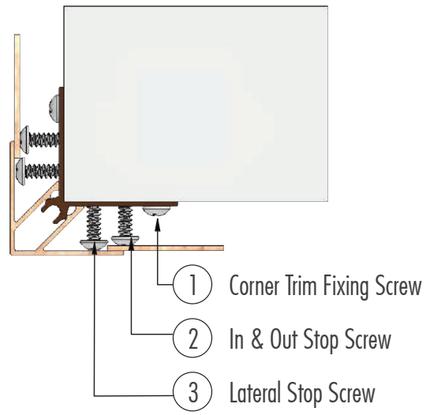
Install screws to serve as a stop, to prevent Up & Down movement. Make sure that the head of the screw is flushed with the exterior surface of the plank to prevent clashing with the cap (**Detail BL**).

When finishing at corners (**Detail CF**), make sure to add screws to stop undesired movement, as shown on **Detail CI**.

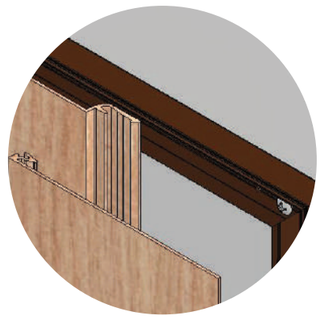




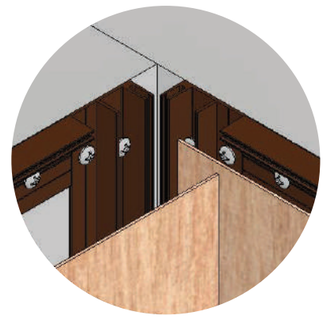
DETAIL CF
SCALE 4" = 1'-0"



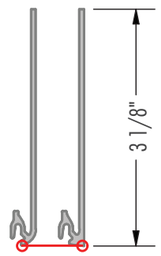
DETAIL CL
SCALE 4" = 1'-0"



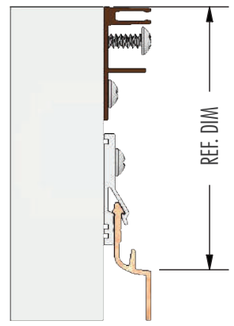
DETAIL CH
SCALE 4" = 1'-0"



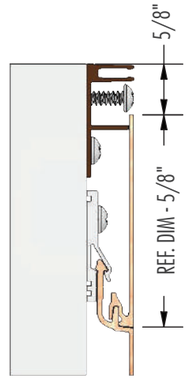
DETAIL CG
SCALE 4" = 1'-0"



DETAIL BN
SCALE 6" = 1'-0"



DETAIL BL
SCALE 6" = 1'-0"

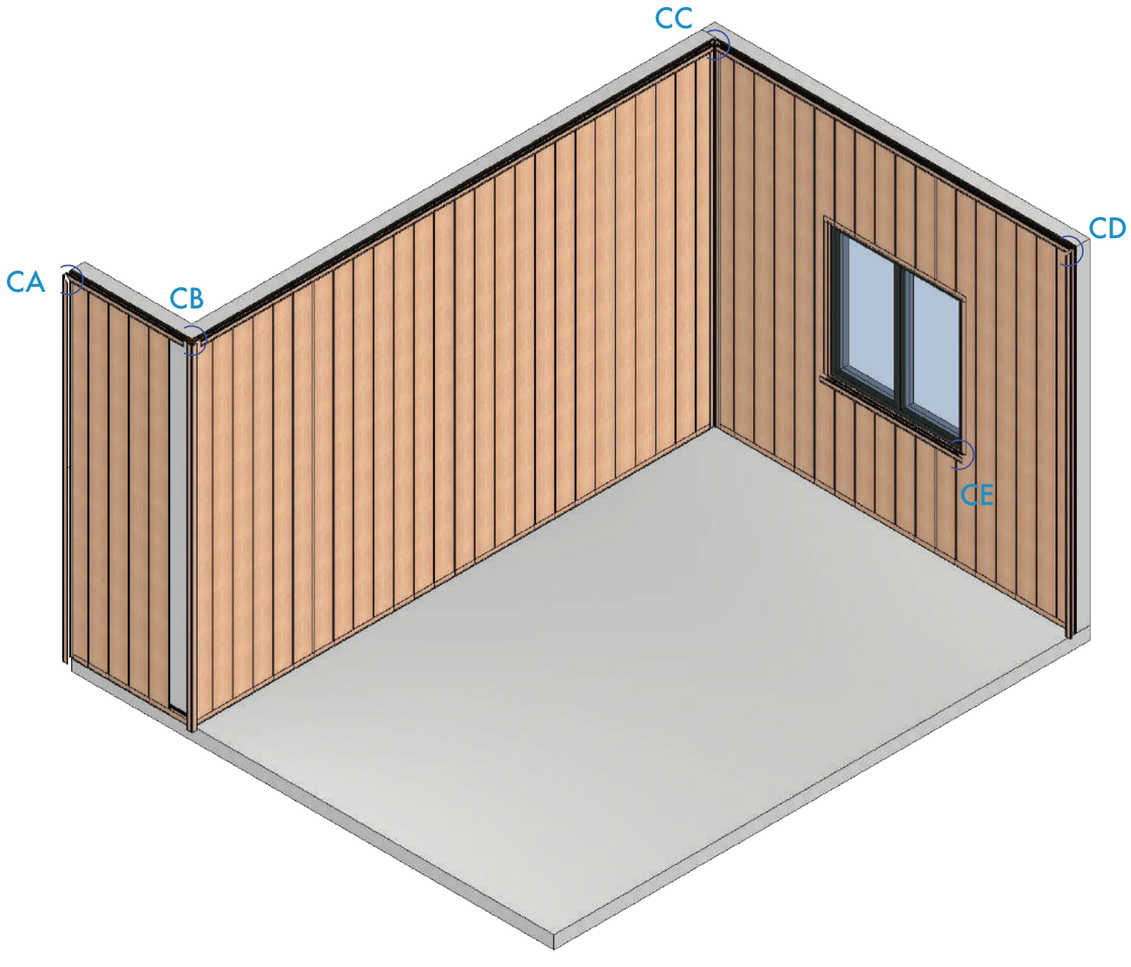


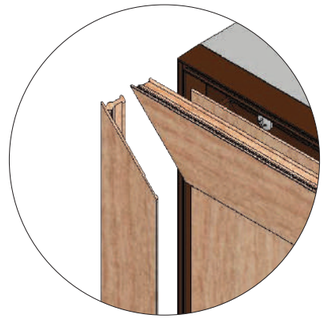
DETAIL BM
SCALE 6" = 1'-0"

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.

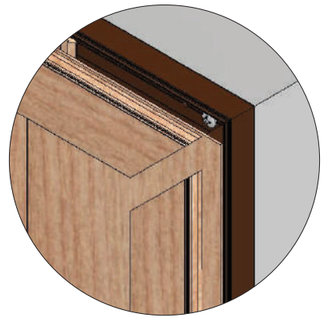




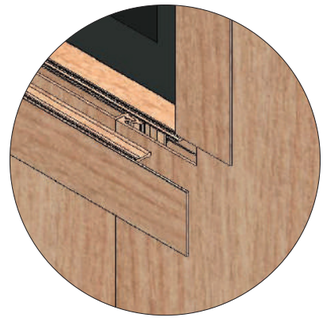
DETAIL CA
SCALE 4" = 1'-0"



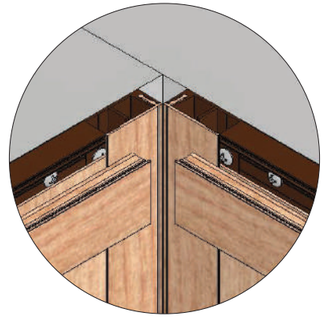
DETAIL CB
SCALE 4" = 1'-0"



DETAIL CD
SCALE 4" = 1'-0"



DETAIL CE
SCALE 4" = 1'-0"



DETAIL CC
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