BELGARD®
PAVES THE WAY™

INSTALLATION GUIDE

OMNI CONNECTOR

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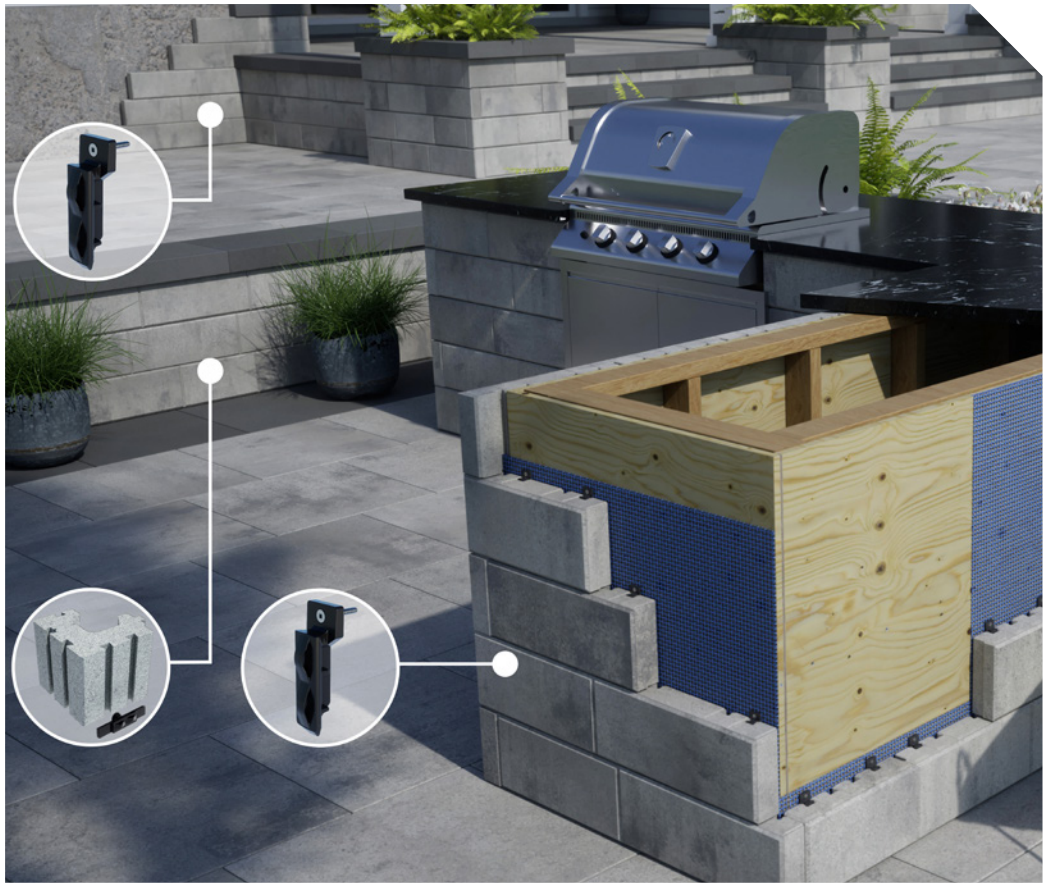
SYSTEM OVERVIEW



INTRODUCTION

Polypropylene Connector compatible with Tandem® veneer units to cover new or existing outdoor living structures (outdoor kitchen, walls, stairs, etc.)

The Omni Connector can be used with all Tandem veneer units.

SYSTEM FEATURES AND BENEFITS:

- ☑ Can be Easily installed to all types of STRUCTURES: for new construction and renovation projects.
- ☑ Does not require any special corners.
- ☑ Creates a gap between the wall and the CONCRETE VENEER for drainage and ventilation.
- ☑ Mechanically SECURED to the STRUCTURE USING anchors/screws.
- ☑ Can be installed in all weather conditions.

TERMS & CONDITIONS

IMPORTANT:

For all complementary appliances/accessories to the Tandem® system, follow manufacturer's instructions/guidelines.

Consult qualified services person/experts to validate installations, repairs, safety recommendations and any other related topics.

MAXIMUM HEIGHT OF 48" for outdoor living structure. Any higher structure must be designed by an engineer.

Hardware (screws/anchors) is not included.

Belgard® is not responsible for any issue regarding other materials, accessories, hardware, etc.

We recommend consulting an expert/engineer to determine the design limitations of the SYSTEM based on wind loads.

Contact experts/engineers for QUALIFYING THE INTEGRITY of existing structures/surfaces.

APPLICATIONS

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COMPONENTS

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SYSTEM COMPONENTS

Plastic Connector

***Tandem Veneers**

SMALL
180 x 67 x 335 (mm)
7 1⁄16 x 2 5⁄8 x 13 3⁄16 (in)

MEDIUM
180 x 67 x 402 (mm)
7 1⁄16 x 2 5⁄8 x 15 13⁄16 (in)

LARGE
180 x 67 x 469 (mm)
7 1⁄16 x 2 5⁄8 x 18 1⁄2 (in)

*The plastic connector can be used with all Tandem® face styles (Melville, Ashlar, Lamina)

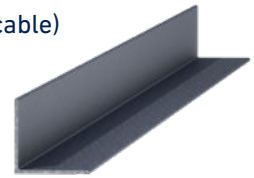
COMPLEMENTARY COMPONENTS (NOT INCLUDED)

Treated Wood Screw
#8 x 1 ¼"

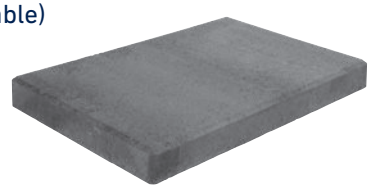
Flat Head Concrete Anchor (Tapcon®)
#8 x 1 ¼"

Rainscreen Mesh
(if applicable)

***Angle bar** (if applicable)
(2 ½" x 2 ½" x ⅛")



Coping
(if applicable)



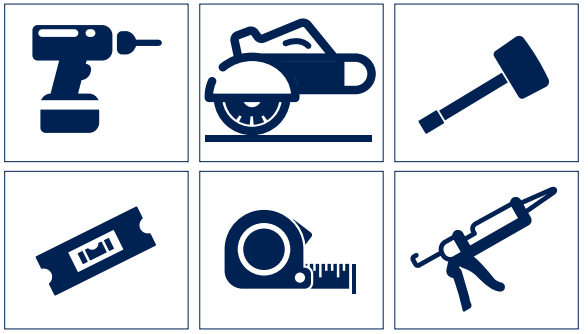
*We recommend consulting an expert/engineer to determine the type and dimensions of angle bar.

SPECIFIC TOOLS

Drill

Drill Bit

OTHER TOOLS



SAFETY EQUIPMENT

CONNECTOR PACKAGING

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BOX CONTENT

1 Box of Connectors
(6 BAGS OF 30 CONNECTORS = TOTAL OF 180 CONNECTORS)

1 Bag of Connectors
(30 CONNECTORS)

Connector

EQUIVALENCE

1 Box of Connectors
(6 BAGS OF 30 CONNECTORS = TOTAL OF 180 CONNECTORS)

=

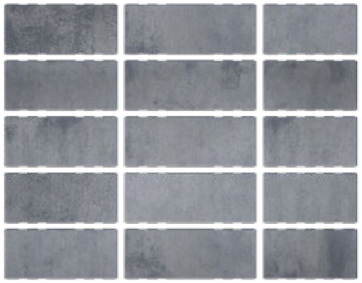
1 Pallet of Tandem Veneers
(6 LAYERS)

EQUIVALENCE

1 Bag of Connectors
(30 CONNECTORS)

=

1 Layer of Tandem Veneers
(15 UNITS)



ESTIMATION OF THE NUMBER OF CONNECTORS

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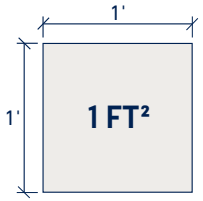
180 MM VENEERS

1 VENEER = 2 CONNECTORS

1 CONNECTOR = 0.39 FT²

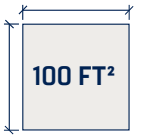


1 FT² = 2.6 CONNECTORS

EXAMPLE:

100 FT² OF WALL :

FORMULA TO ESTIMATE NUMBER OF CONNECTORS:



x  2.6 CONNECTORS/FT² =  260 CONNECTORS

FORMULA TO ESTIMATE NUMBER OF BOXES:

 260 CONNECTORS /  144 CONNECTORS/BOX =  1.8 BOXES

TANDEM MODULARITY

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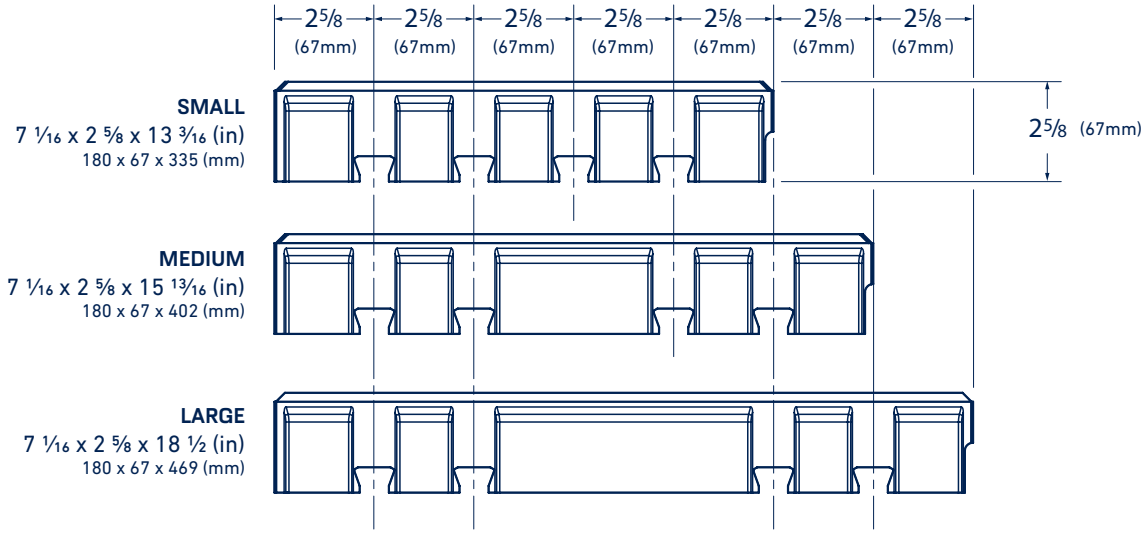
VENEERS MODULARITY

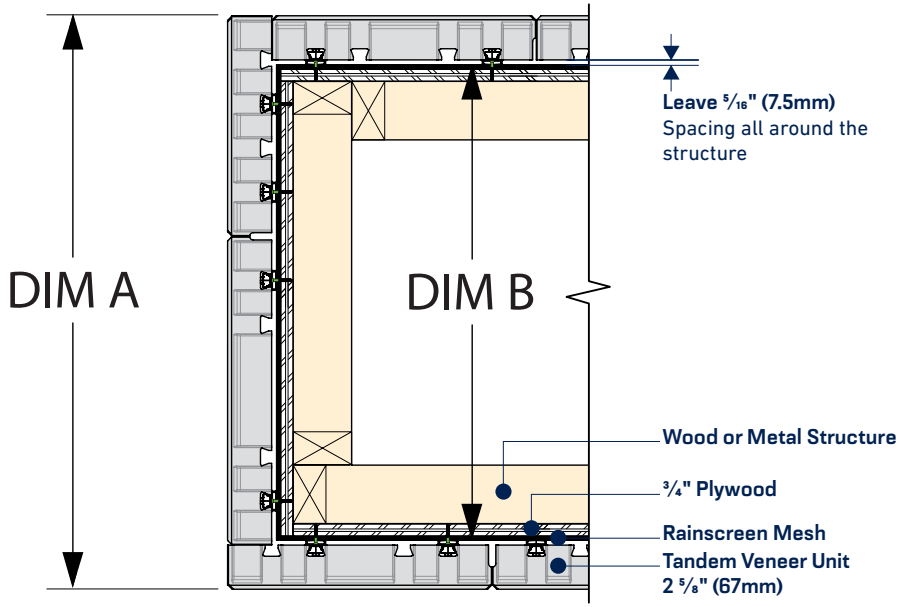


SMALL
7 1/16 x 2 5/8 x 13 3/16 (in)
180 x 67 x 335 (mm)

MEDIUM
7 1/16 x 2 5/8 x 15 13/16 (in)
180 x 67 x 402 (mm)

LARGE
7 1/16 x 2 5/8 x 18 1/2 (in)
180 x 67 x 469 (mm)

TYPICAL STRUCTURE - PLAN VIEW



CALCULATION METHOD

DIM A - 2 5/8" - 2 5/8" - 5/16" - 5/16" = DIM B (in)

DIM A - 67mm - 67mm - 7.5mm - 7.5mm = DIM B (mm)

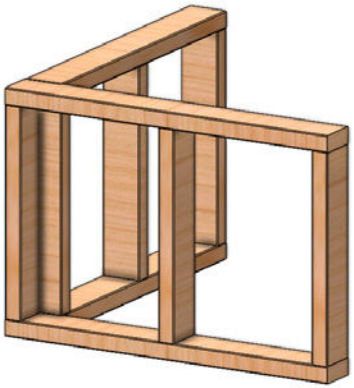
Example:

DIM A (in)	DIM A (MM)	DIM B (IN)	DIM B (MM)
15 13/16"	402	10"	253
18 7/16"	469	12 5/8"	320
21"	536	15 1/4"	387

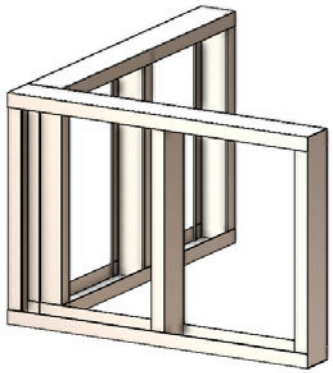
PREPARATION OF THE STRUCTURE

- ☑ Tandem veneer units can be installed on **new** or **existing** structure.
- ☑ **Ensure integrity of the structure** before covering with Tandem veneer units.
  Contact experts/engineers for qualifying the integrity of existing structures/surfaces.
- ☑ Choose the correct screw/anchor depending on the type of structure (see page 12 for more details).

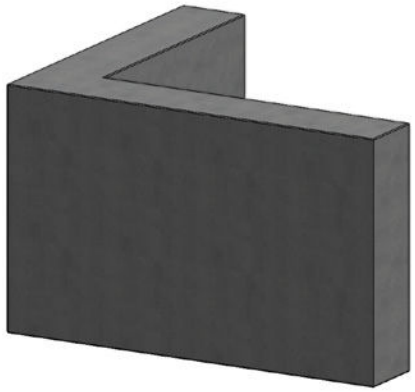
COMMON TYPES OF STRUCTURES



STRUCTURE WITH WOOD STUDS
(see page 17 for more details)



STRUCTURE WITH METAL STUDS
(see page 18 for more details)



CONCRETE STRUCTURE
(see page 19 for more details)

STRUCTURE WITH WOOD STUDS

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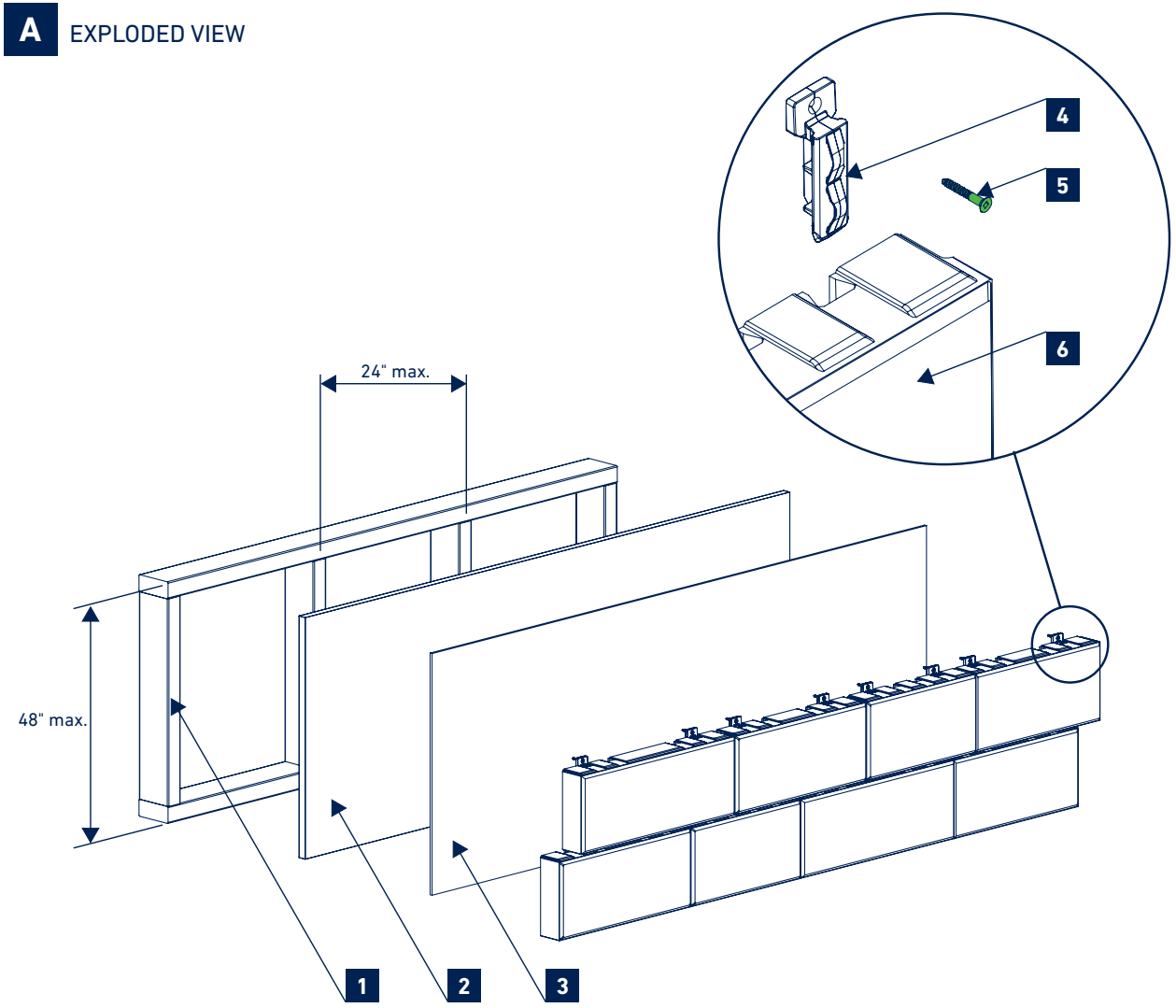
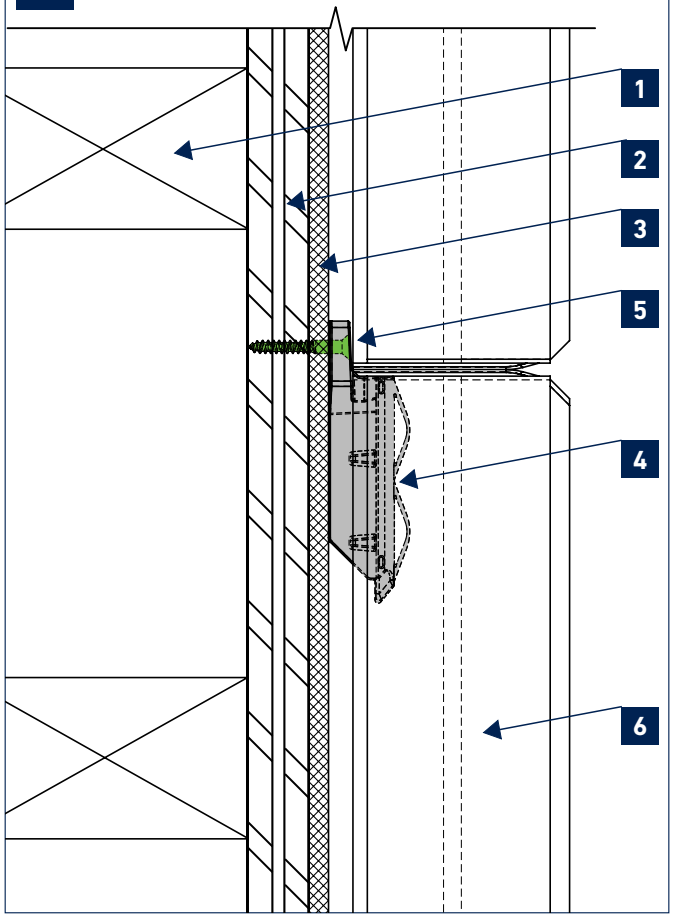
A EXPLODED VIEW



B SECTION DETAIL - **WOOD STUD**



1	NEW OR EXISTING WOOD STRUCTURE
2	¾" PLYWOOD
3	RAINSCREEN MESH
4	PLASTIC TANDEM CONNECTOR
5	8 x 1 ¼" TREATED WOOD SCREW
6	TANDEM VENEER UNIT

STRUCTURE WITH METAL STUDS

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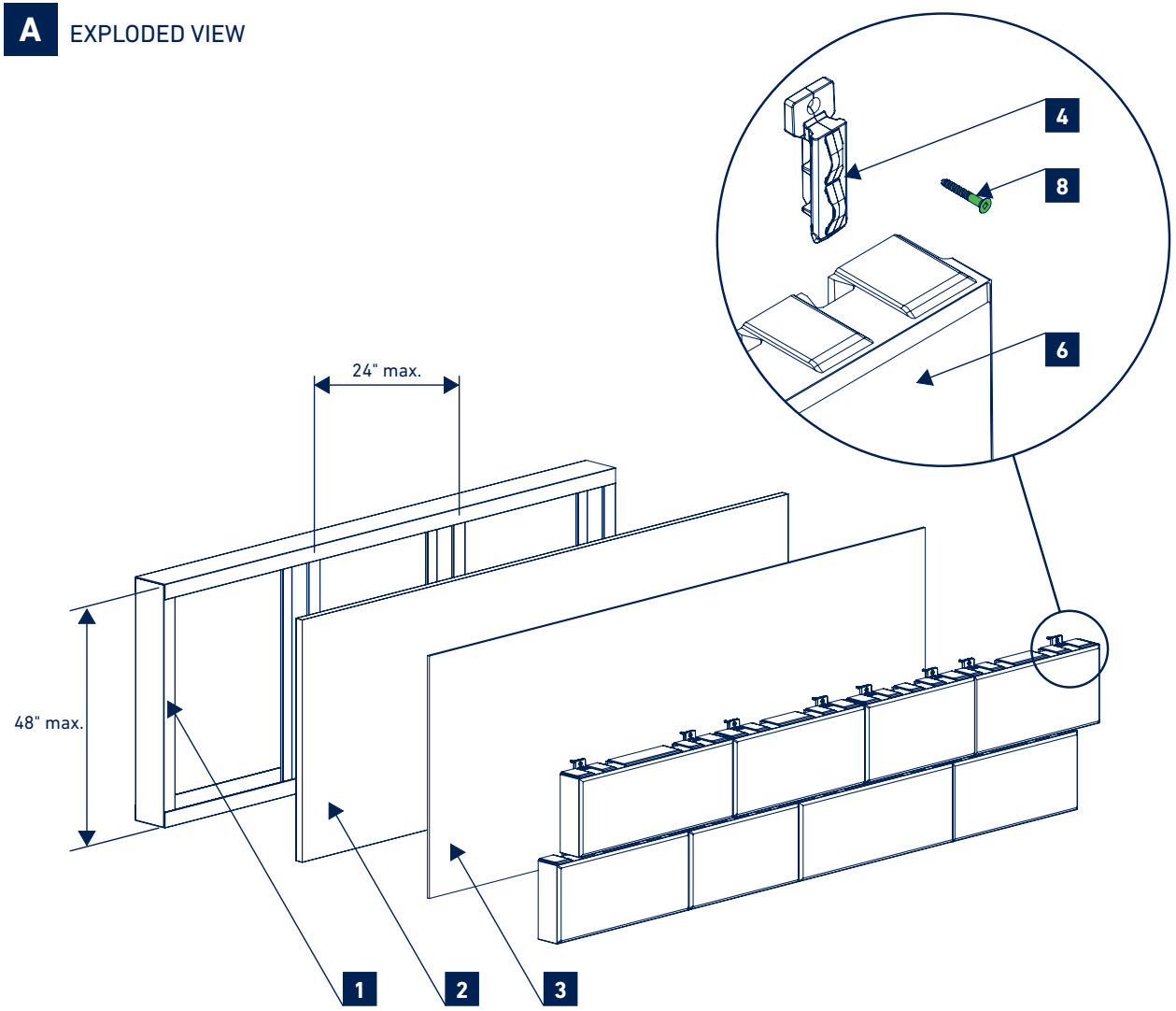
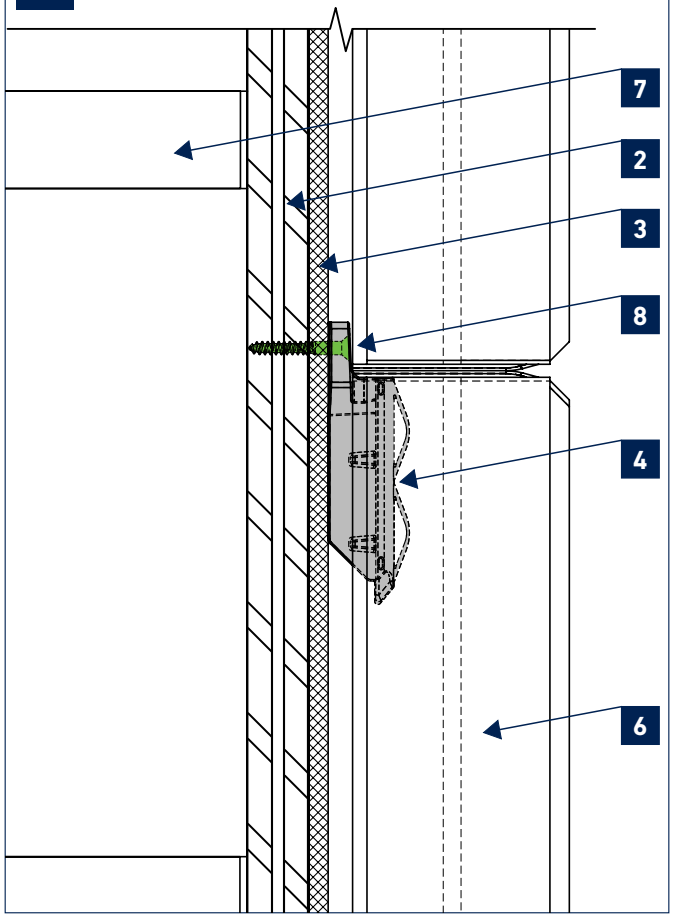
A EXPLODED VIEW



B SECTION DETAIL - **METAL STUD**



7	NEW OR EXISTING METAL STRUCTURE
2	¾" PLYWOOD
3	RAINSCREEN MESH
4	PLASTIC TANDEM CONNECTOR
6	TANDEM VENEER UNIT
8	8 x 1 ¼" FLAT HEAD CONCRETE ANCHOR (TAPCON®)

CONCRETE STRUCTURE

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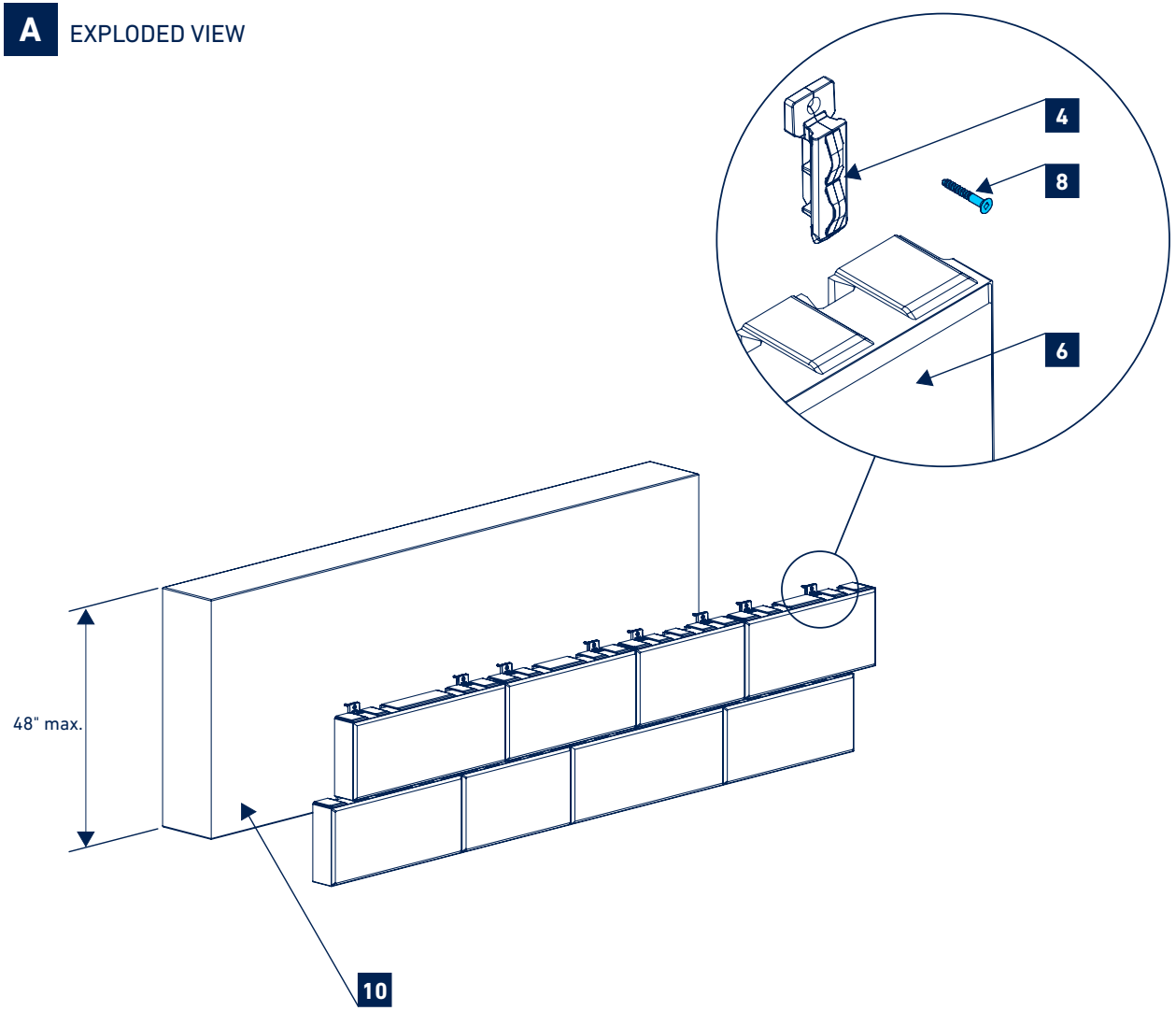
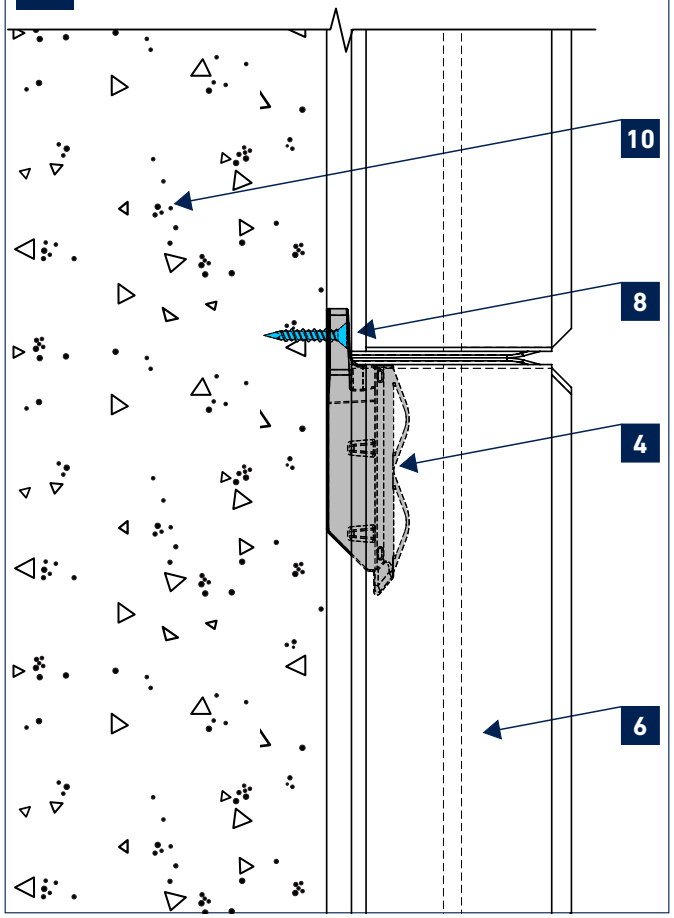
A EXPLODED VIEW



B SECTION DETAIL - **CONCRETE STRUCTURE**



10	NEW OR EXISTING CONCRETE STRUCTURE
4	PLASTIC TANDEM CONNECTOR
6	TANDEM VENEER UNIT
8	8 x 1 ¼" FLAT HEAD CONCRETE ANCHOR (TAPCON®)

COLUMN: 4 X 4" WOOD POSTS

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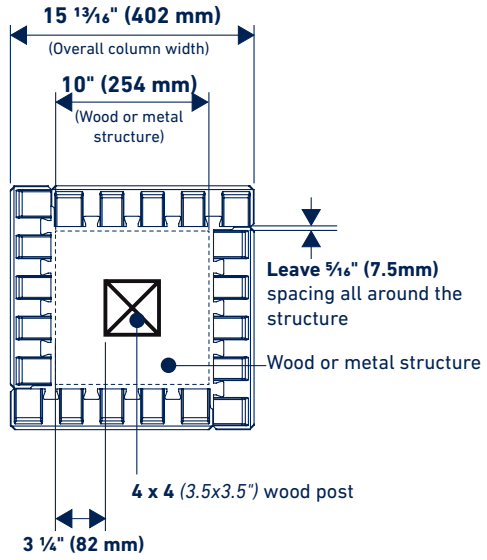

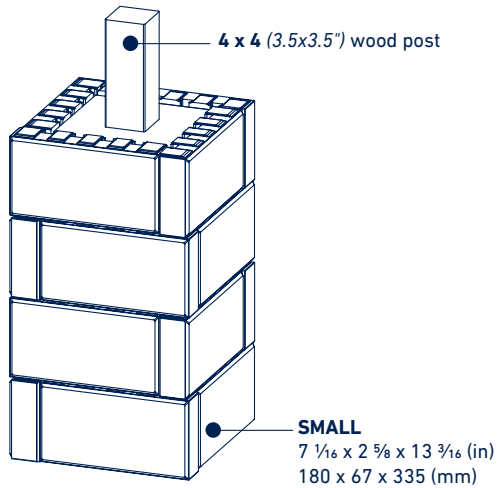

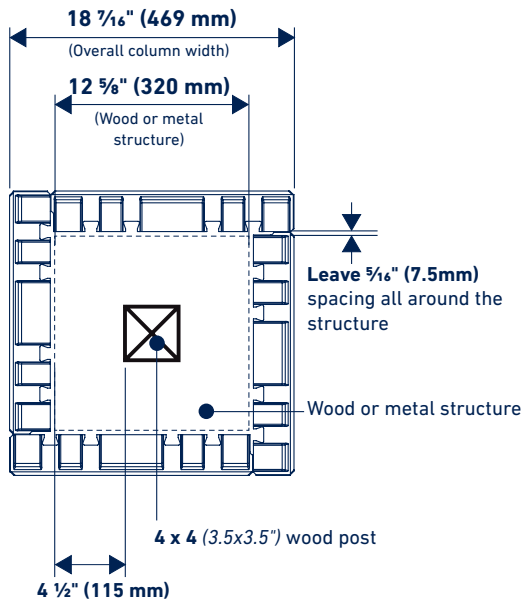

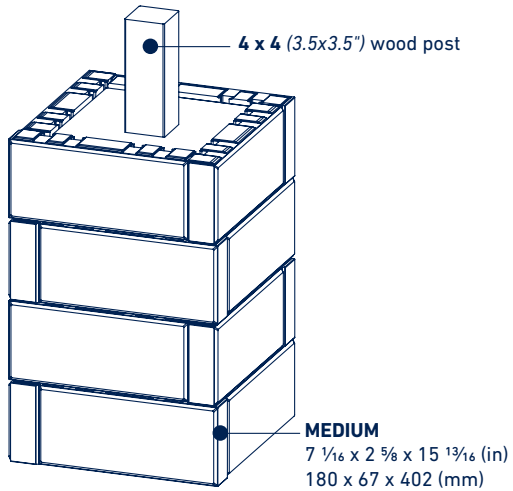

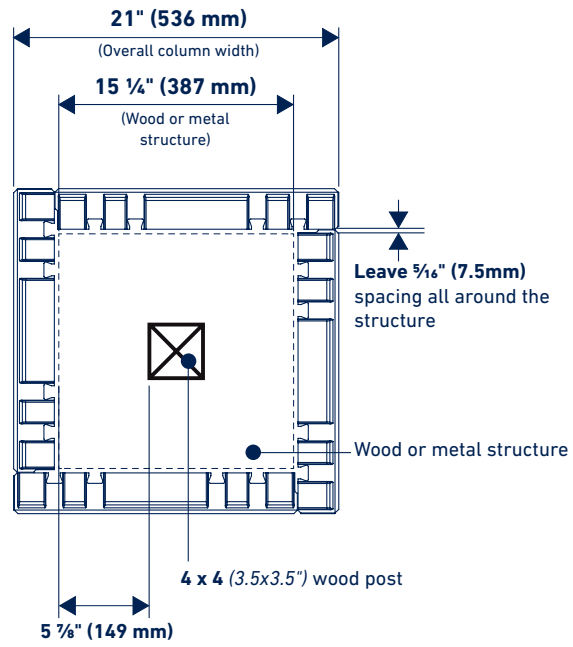

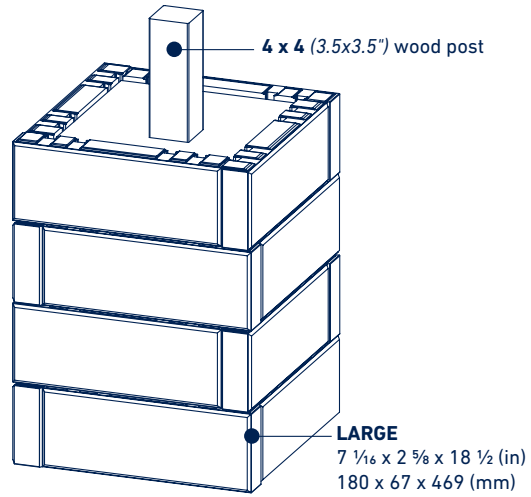

COLUMN: 6 X 6" WOOD POSTS

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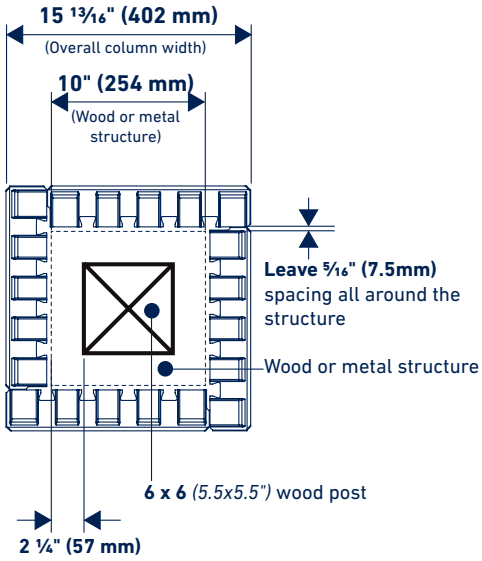
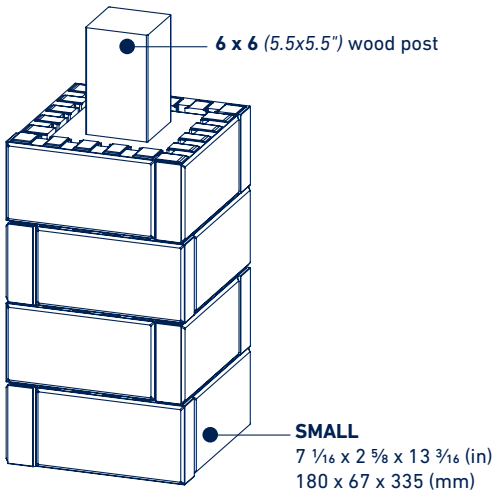
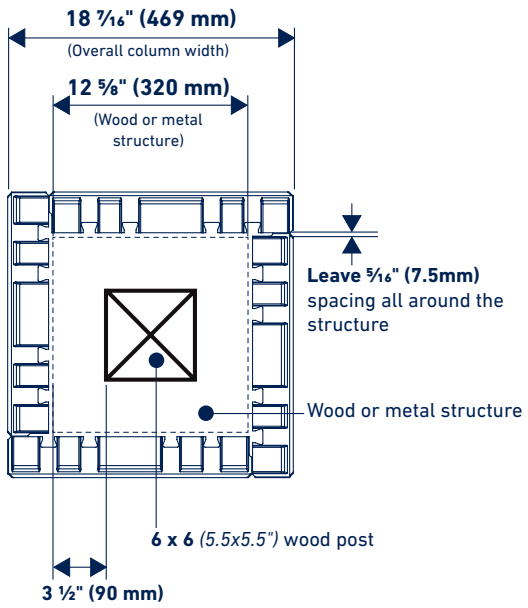
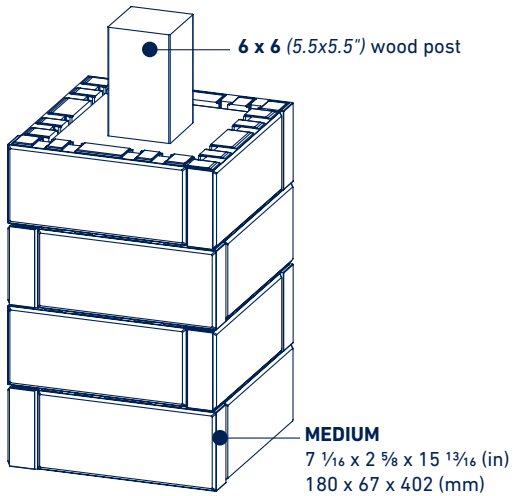
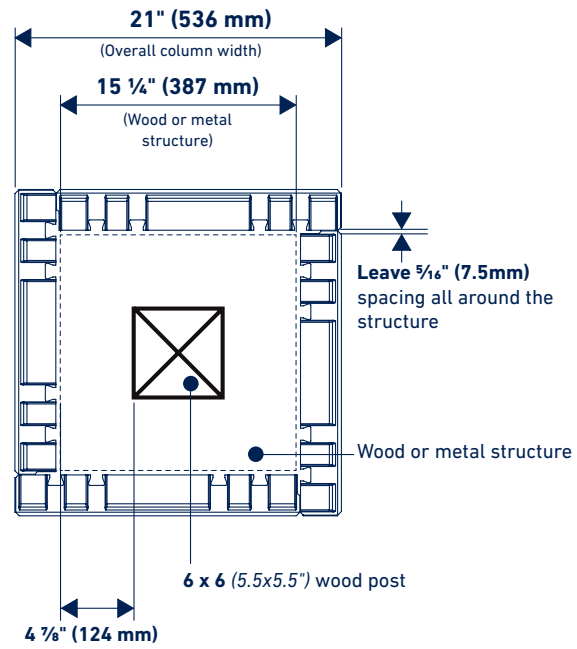
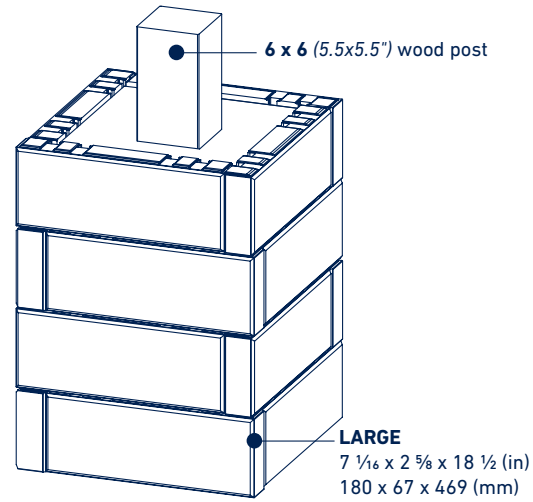






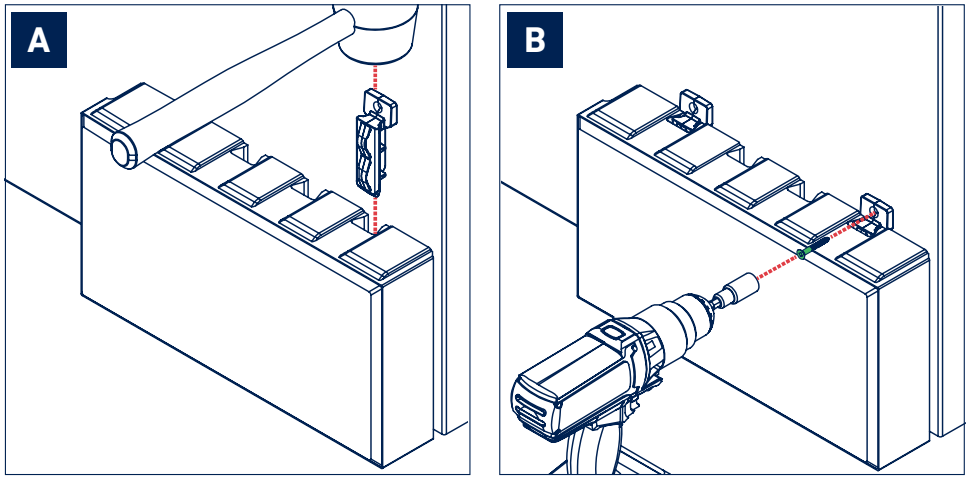




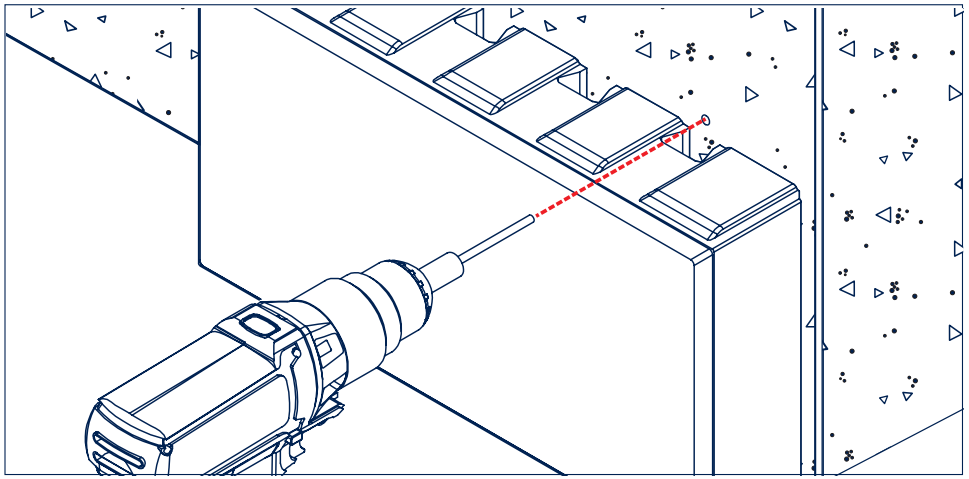


INSTALLATION DETAILS

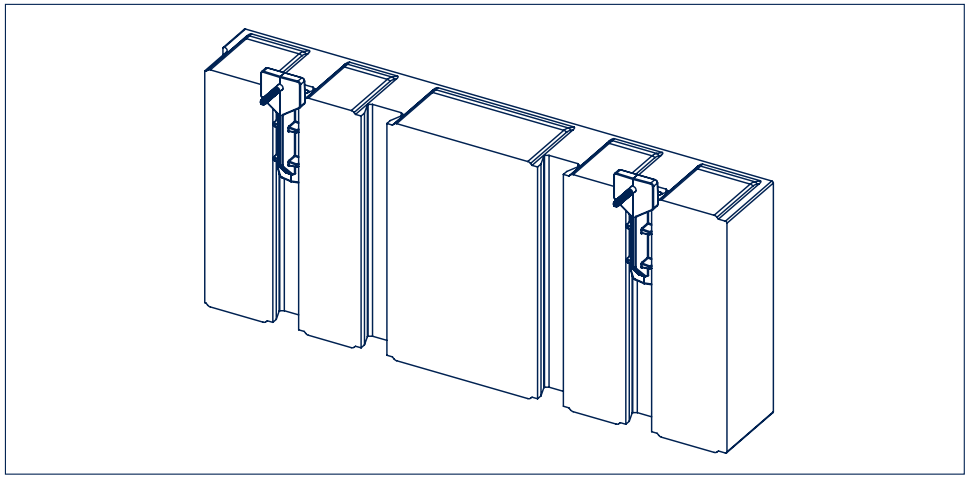
[General]: INSERT THE TANDEM CONNECTOR INTO DOVETAIL **(image A)** AND SECURE THE CONNECTOR BY USING THE APPROPRIATE SCREWS **(image B)** DEPENDING ON THE TYPE OF STRUCTURE.



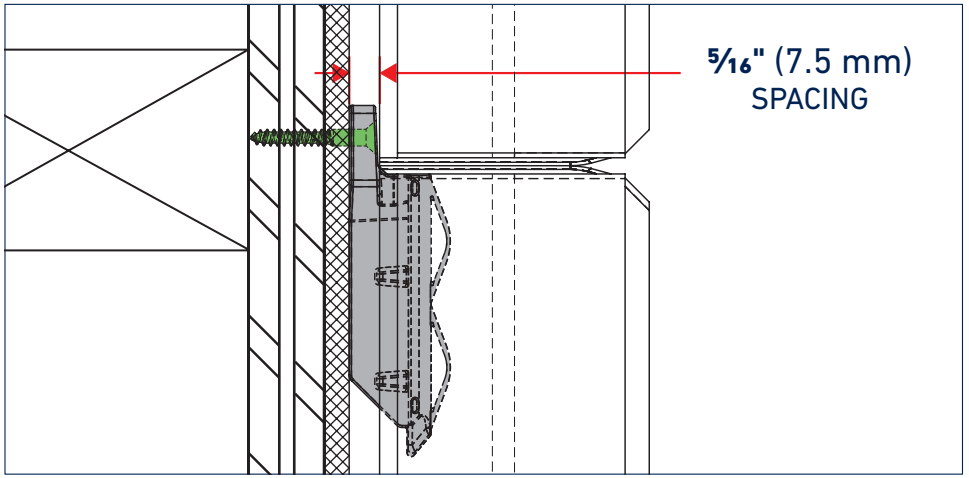
[General]: FOR CONCRETE STRUCTURE *PRE-DRILL* USING APPROPRIATE DRILL BIT.



[General]: ALWAYS USE 2 CONNECTORS PER VENEER UNIT, EVEN IF THE UNIT HAS BEEN CUT.

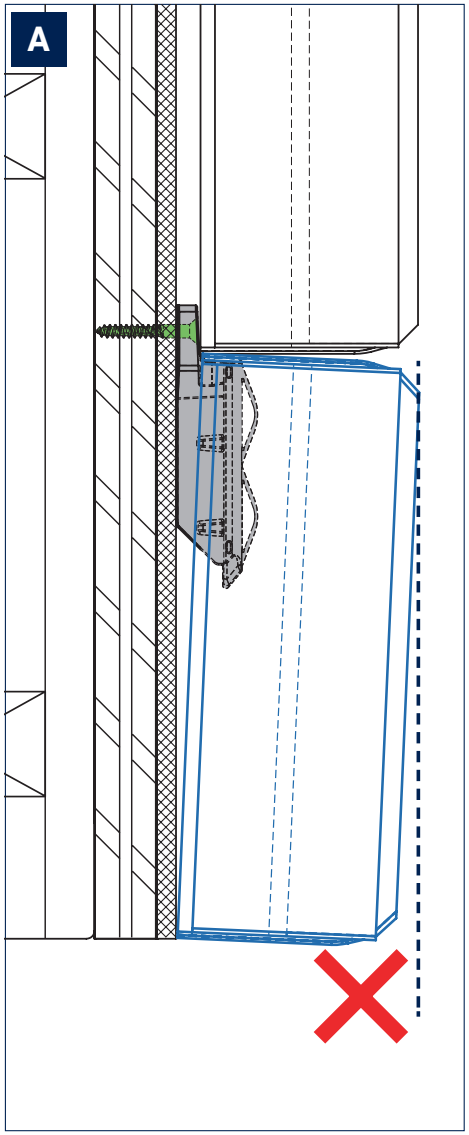


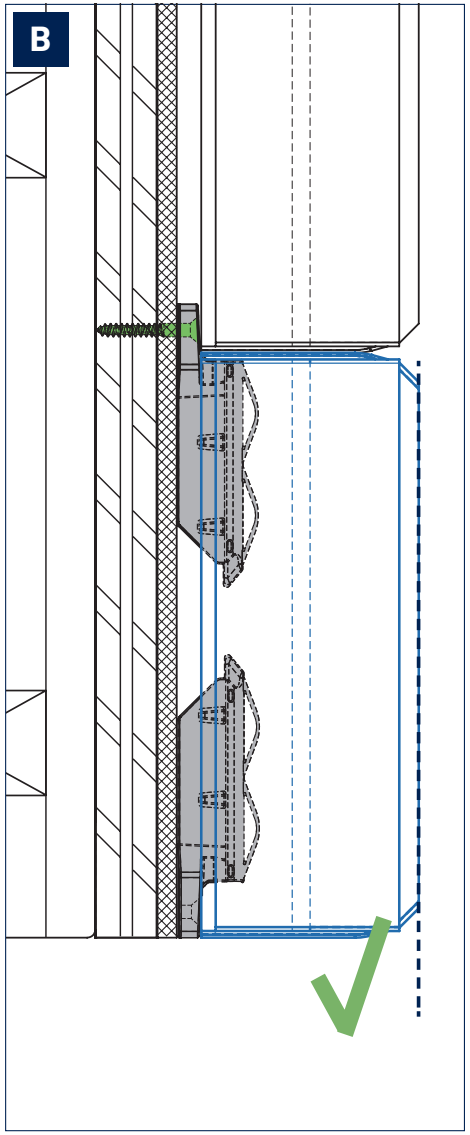
[General]: ONCE INSTALLED, A SPACING OF **5/16" (7.5 mm)** IS CREATED BETWEEN THE CONCRETE UNIT AND THE WALL.



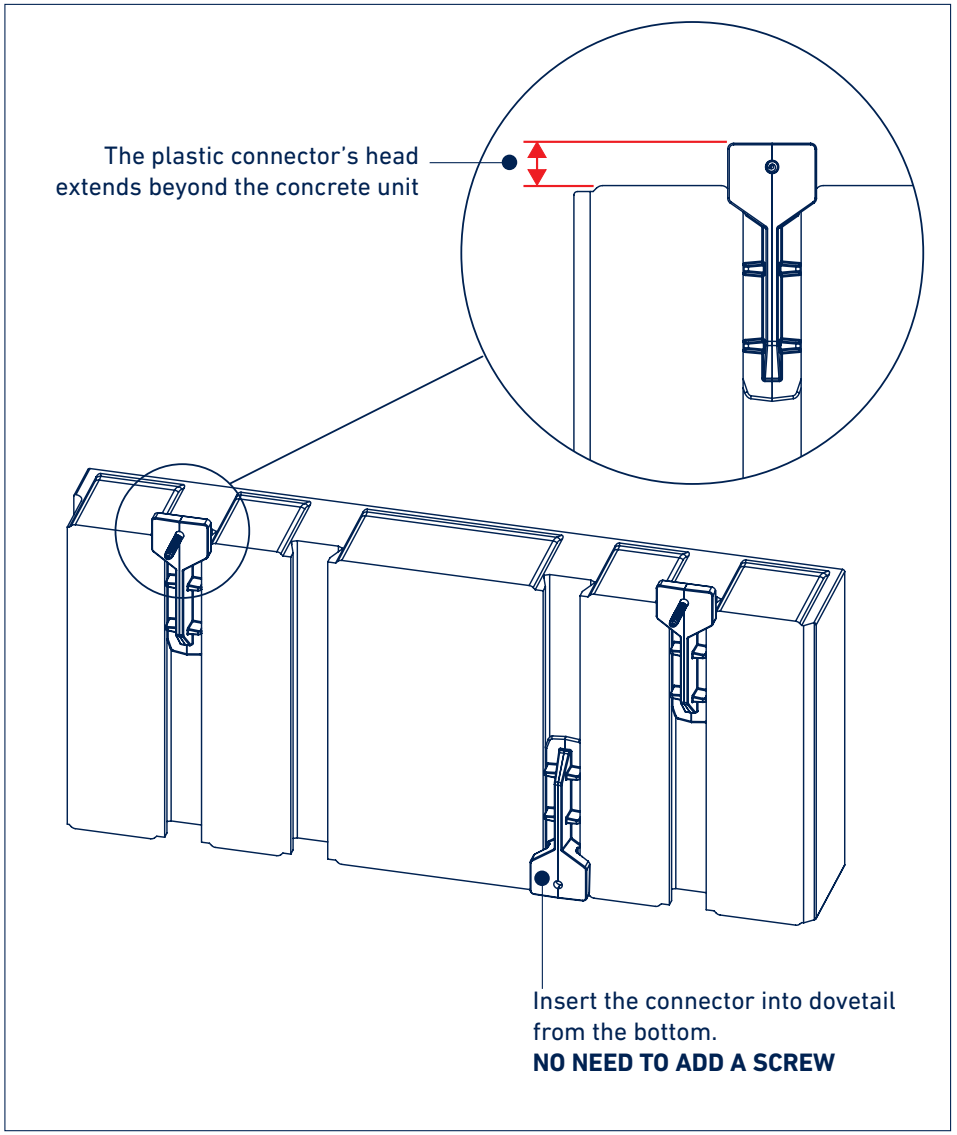
INSTALLATION DETAILS

[General]: ONLY FOR THE FIRST ROW, IT IS RECOMMENDED TO INSERT A CONNECTOR AT THE BOTTOM OF THE VENEER **(image B)** TO AVOID ANGLED UNITS **(image A).**



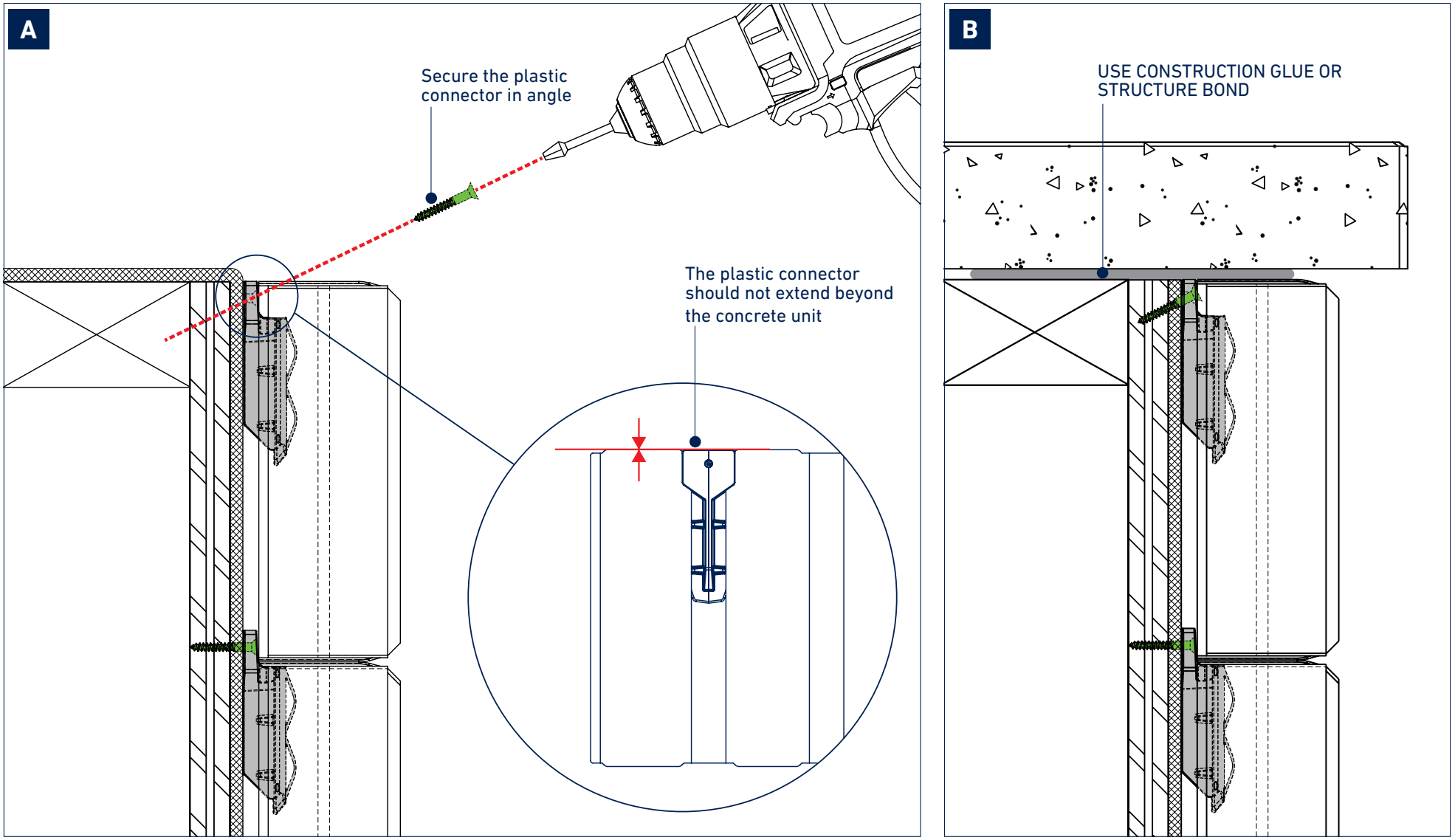


[First row]: ONLY FOR THE FIRST ROW, USE 3 CONNECTORS PER VENEER.



INSTALLATION DETAILS

[Last row]: THE CONNECTORS AT THE LAST ROW MUST BE SLIDE COMPLETELY INSIDE THE DOVETAILS **(image A)** TO FACILITATE THE INSTALLATION OF THE COPING **(image B).**
SECURE THE PLASTIC CONNECTOR IN ANGLE.



INSTALLATION DETAILS

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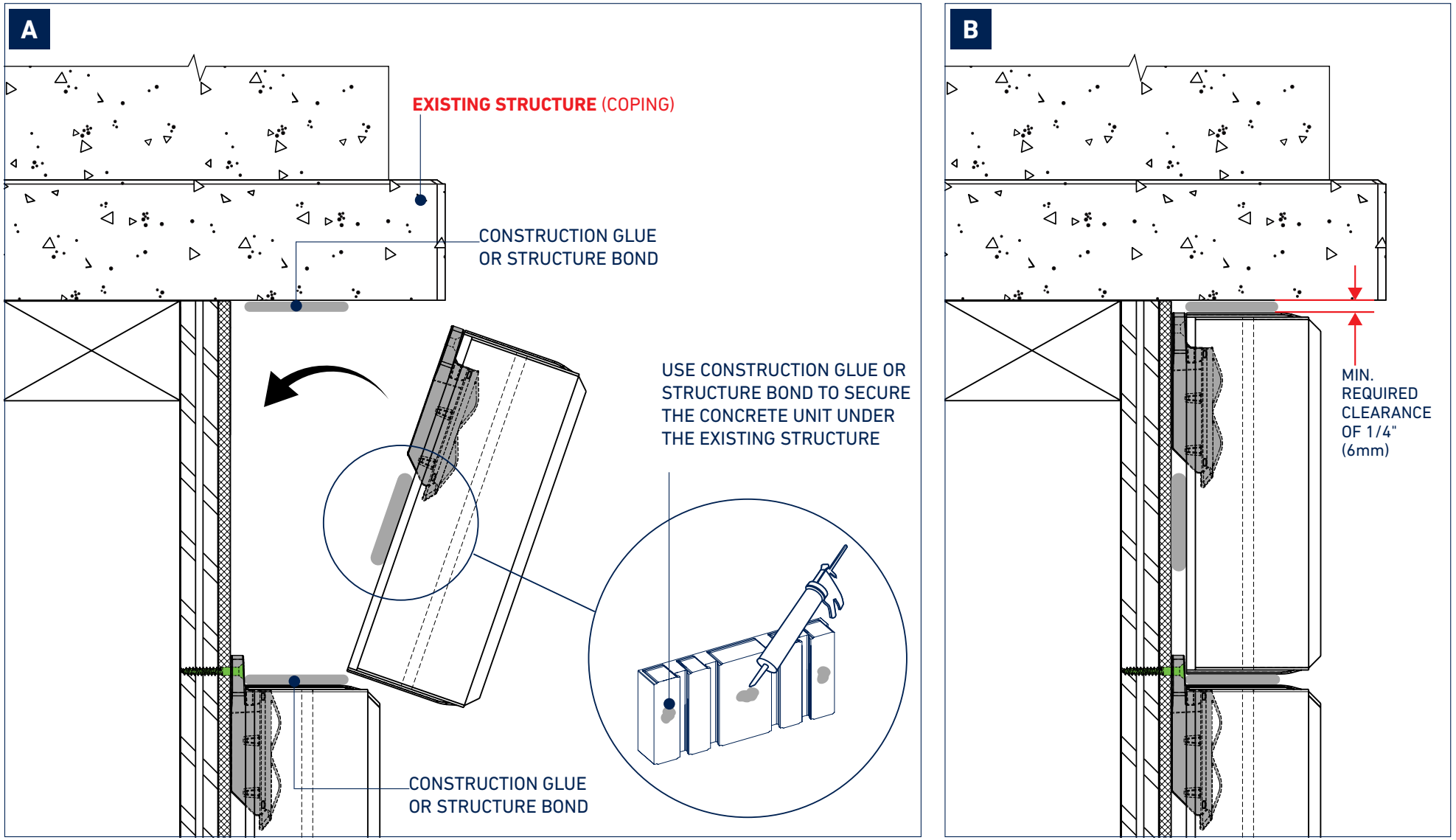
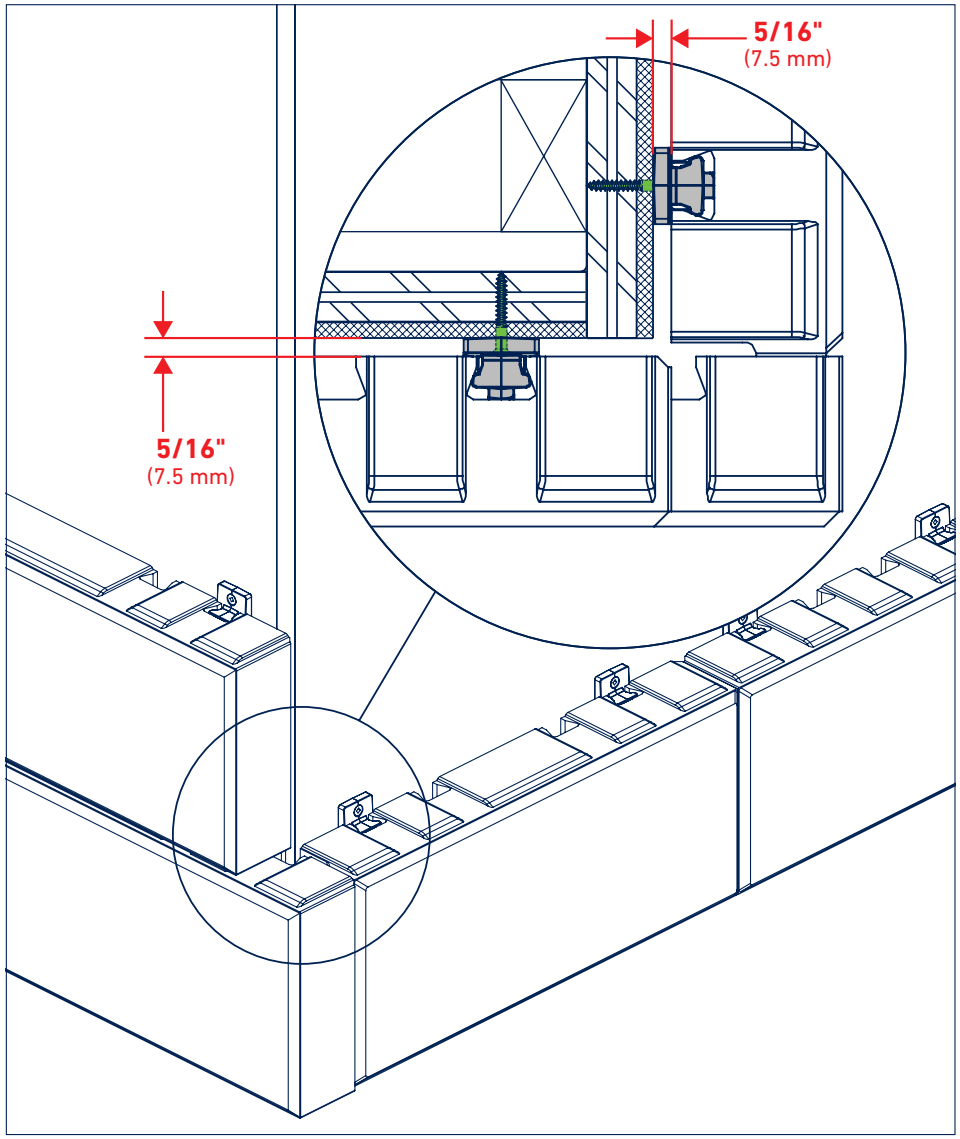
[Last row under existing structure]: TANDEM VENEER UNITS AT THE LAST ROW MUST BE FIXED USING CONSTRUCTION GLUE OR STRUCTURE BOND.



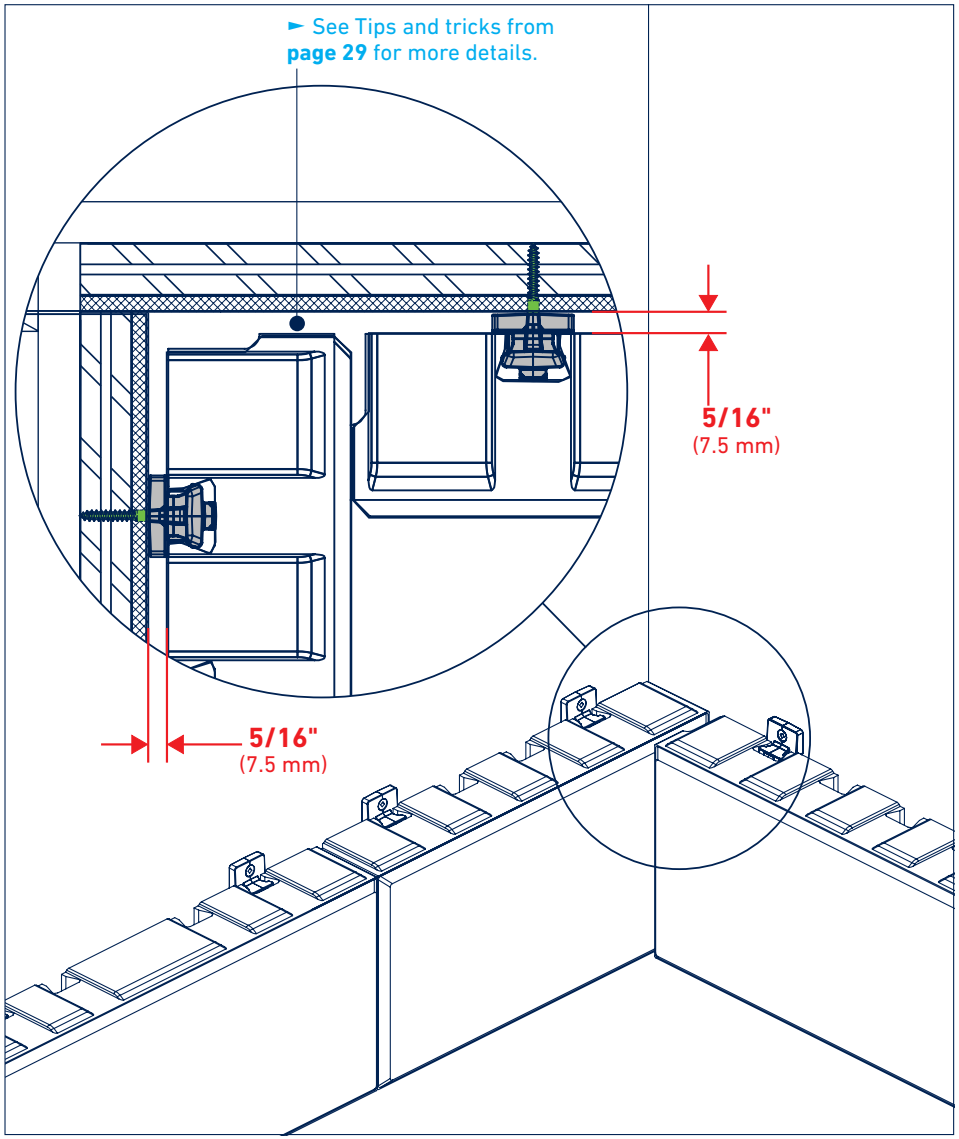
INSTALLATION DETAILS

[Exterior corner]: LEAVE A **5/16" (7.5 mm)** GAP FROM THE STRUCTURE WHEN AN OUTER CORNER IS COVERED WITH TANDEM VENEER UNITS.



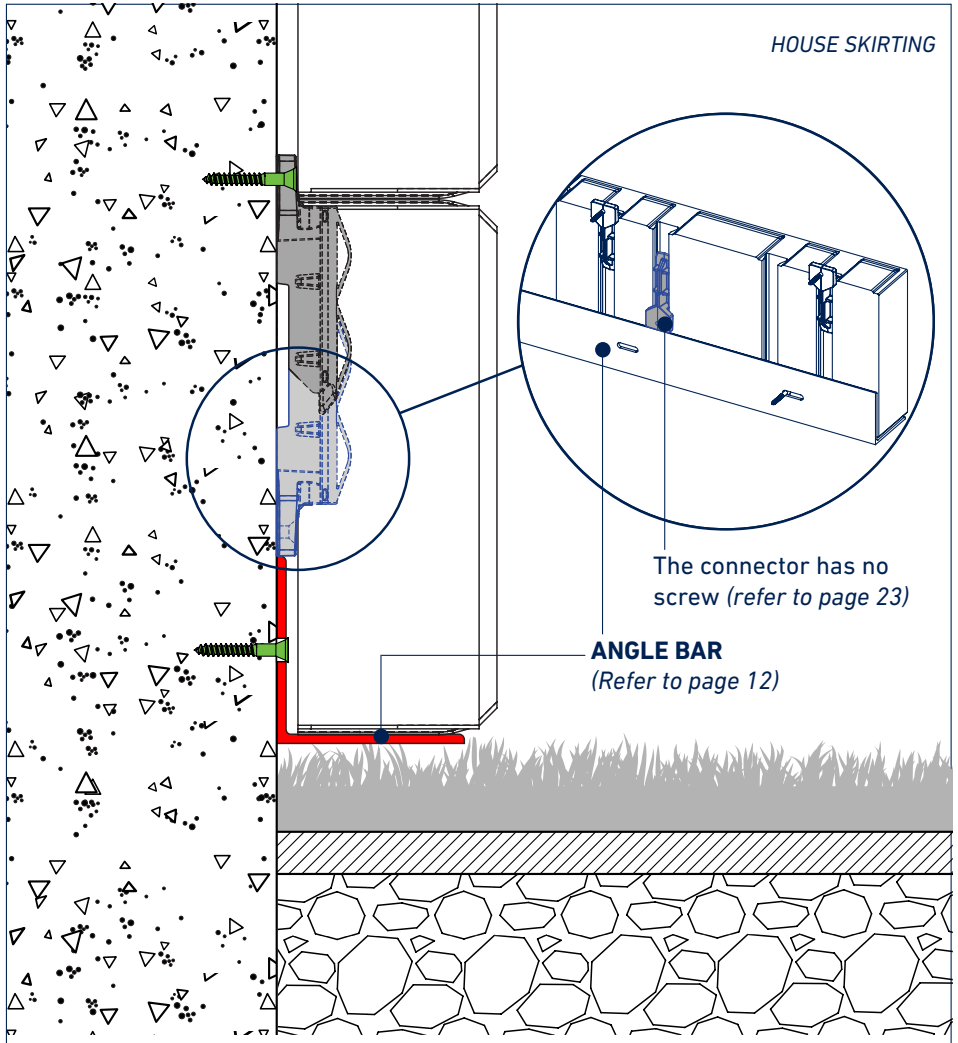
[Interior corner]: LEAVE A **5/16" (7.5 mm)** GAP FROM THE STRUCTURE WHEN AN INNER CORNER IS COVERED WITH TANDEM VENEER UNITS.

► See Tips and tricks from **page 29** for more details.



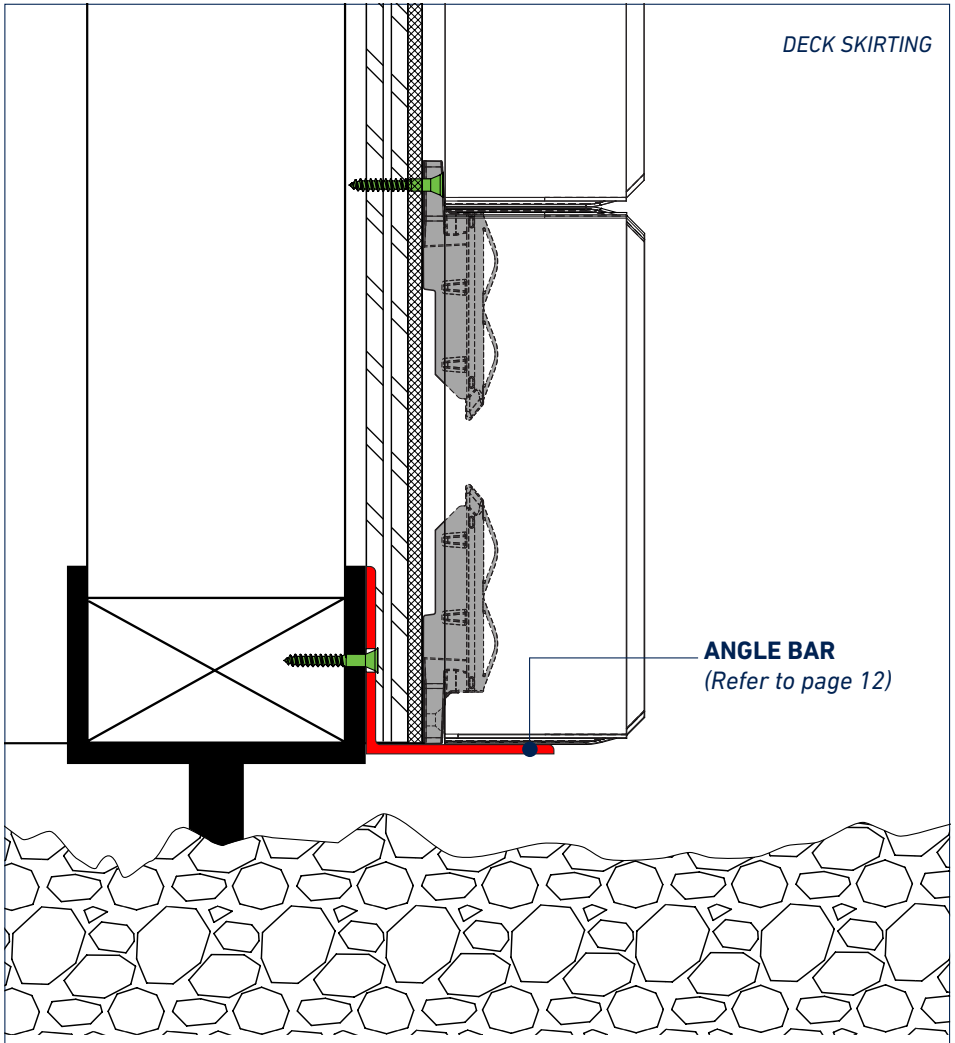
INSTALLATION DETAILS

[The starter strip]: INSTALL AN ANGLE BAR WHEN THE GROUND IS NOT LEVELED *(if applicable).*
(Ex: deck skirting, house skirting, stairs, etc.)



IMPORTANT: We recommend consulting an expert/engineer to determine the type and dimensions of angle bar.

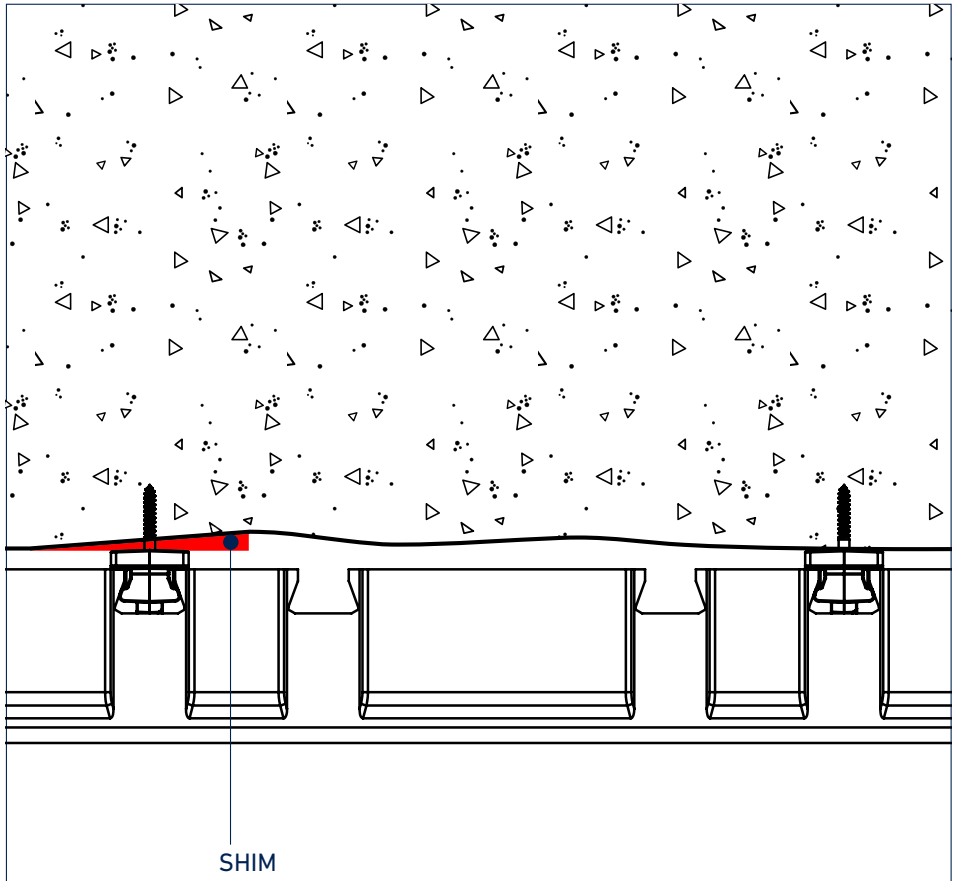
[The starter strip]: INSTALL AN ANGLE BAR WHEN THE GROUND IS NOT LEVELED *(if applicable).*
(Ex: deck skirting, house skirting, stairs, etc.)



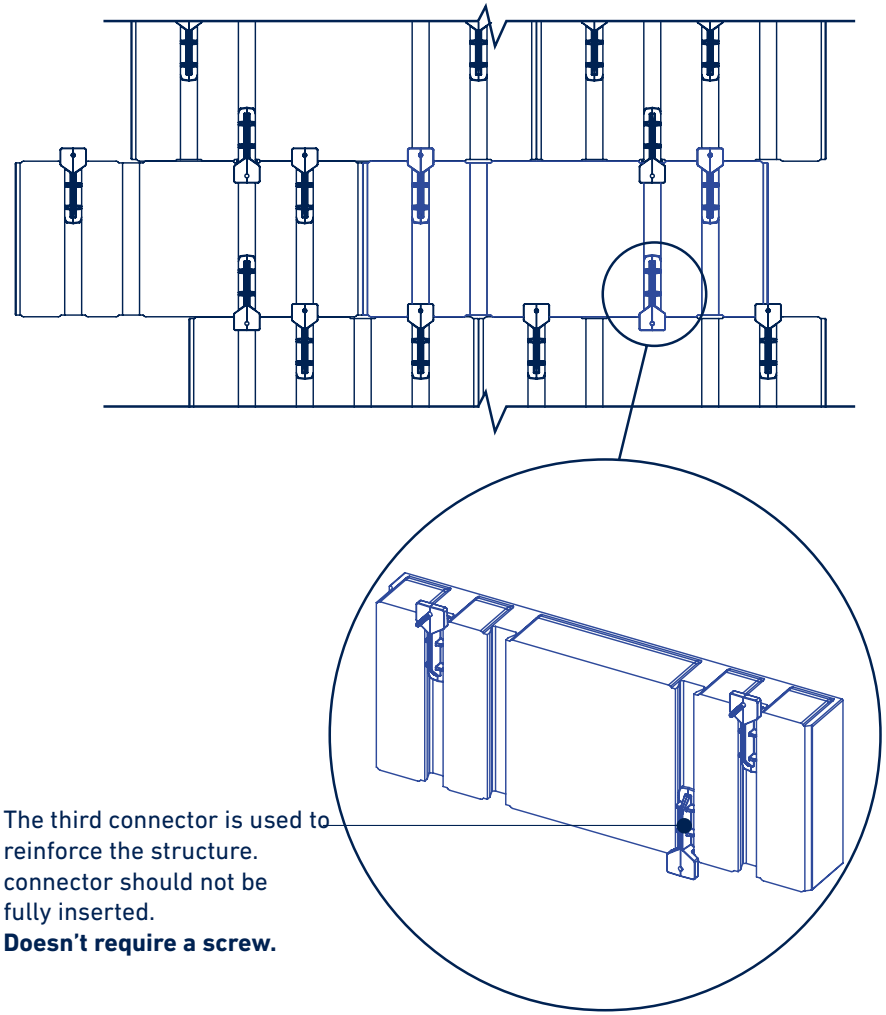
IMPORTANT: We recommend consulting an expert/engineer to determine the type and dimensions of angle bar.

TIPS AND TRICKS

#1 [General]: USE SHIMS IF THE SURFACE IS UNEVEN OR HAS IMPERFECTIONS.



#2 [Wind load]: USE 3 CONNECTORS PER VENEER TO REINFORCE THE STRUCTURE, WHEN NECESSARY.



The third connector is used to reinforce the structure. connector should not be fully inserted.
Doesn't require a screw.

IMPORTANT: We recommend consulting an expert/engineer to determine the design limitations of the system based on wind loads.

TIPS AND TRICKS

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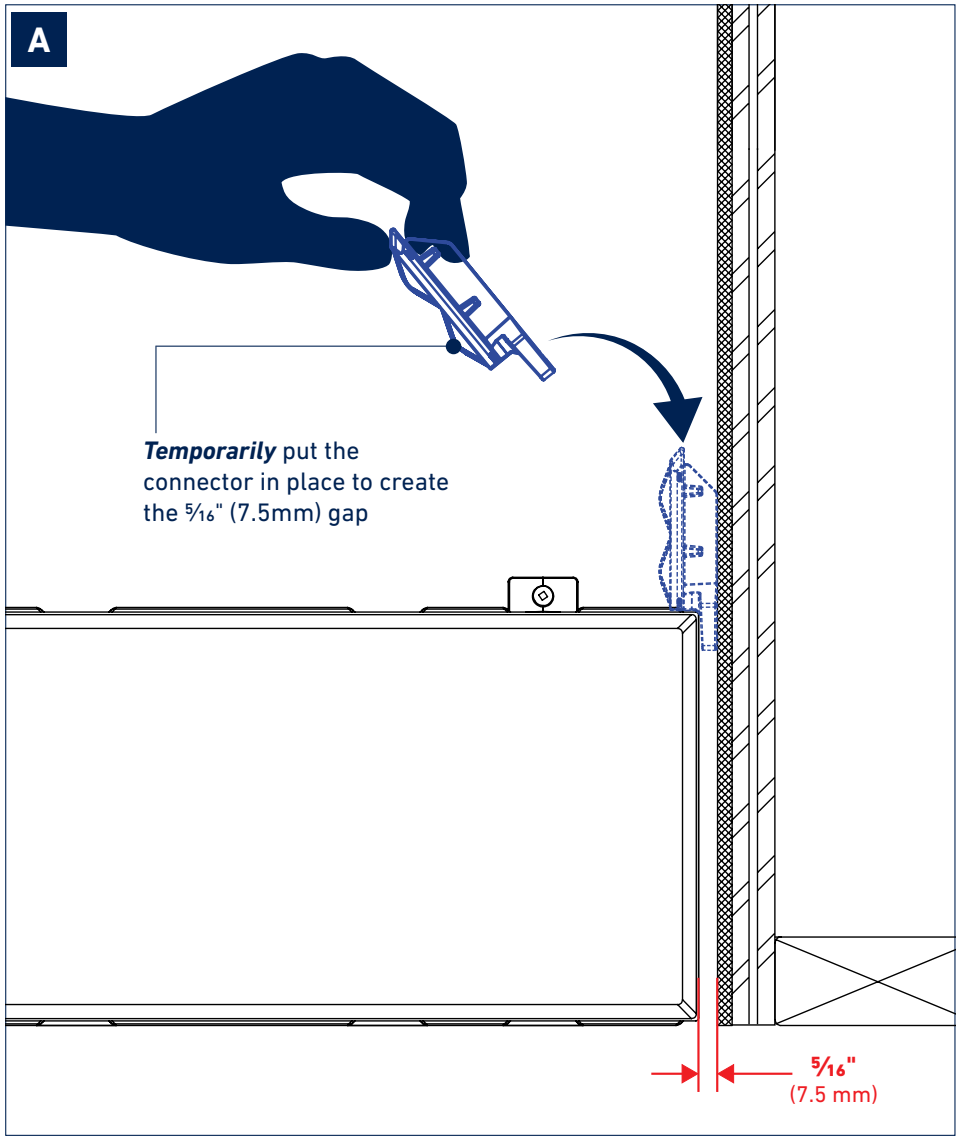
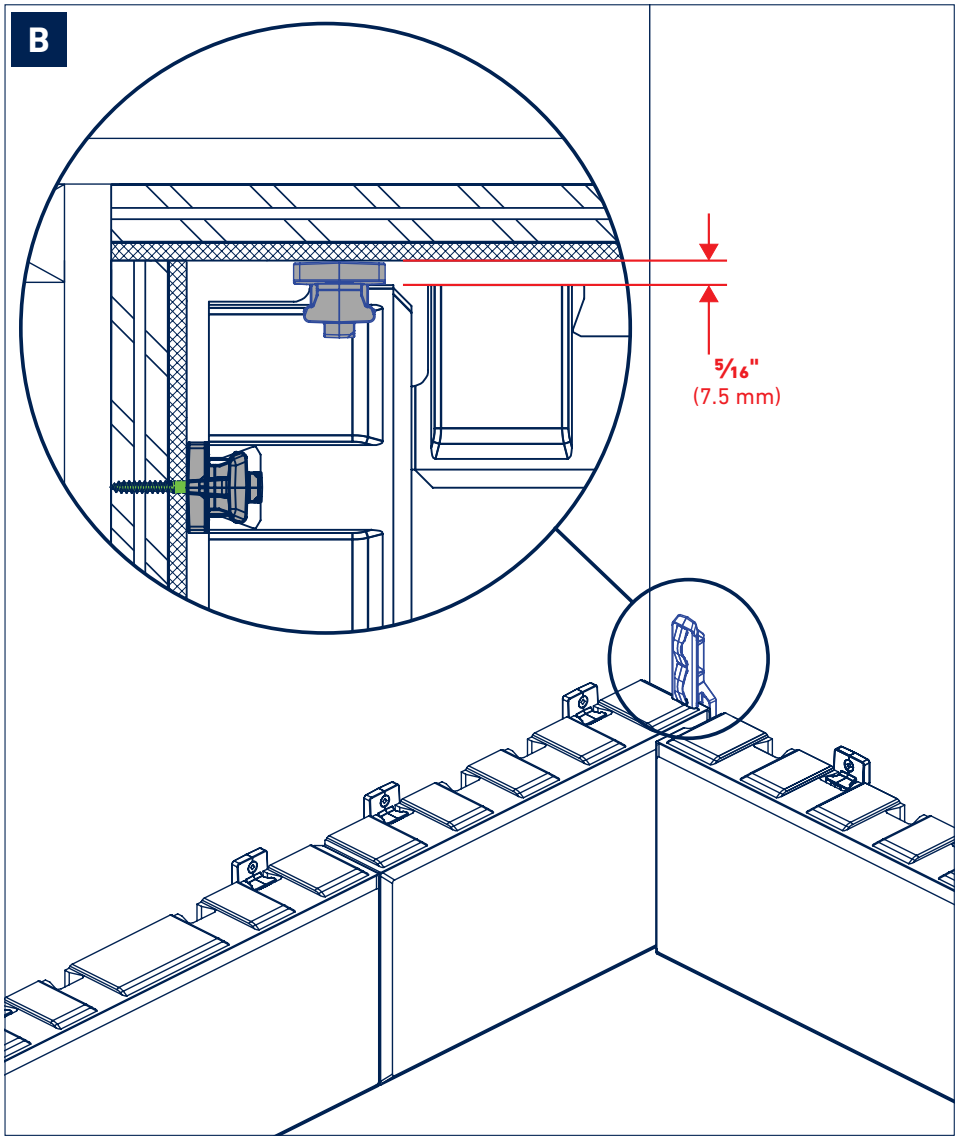
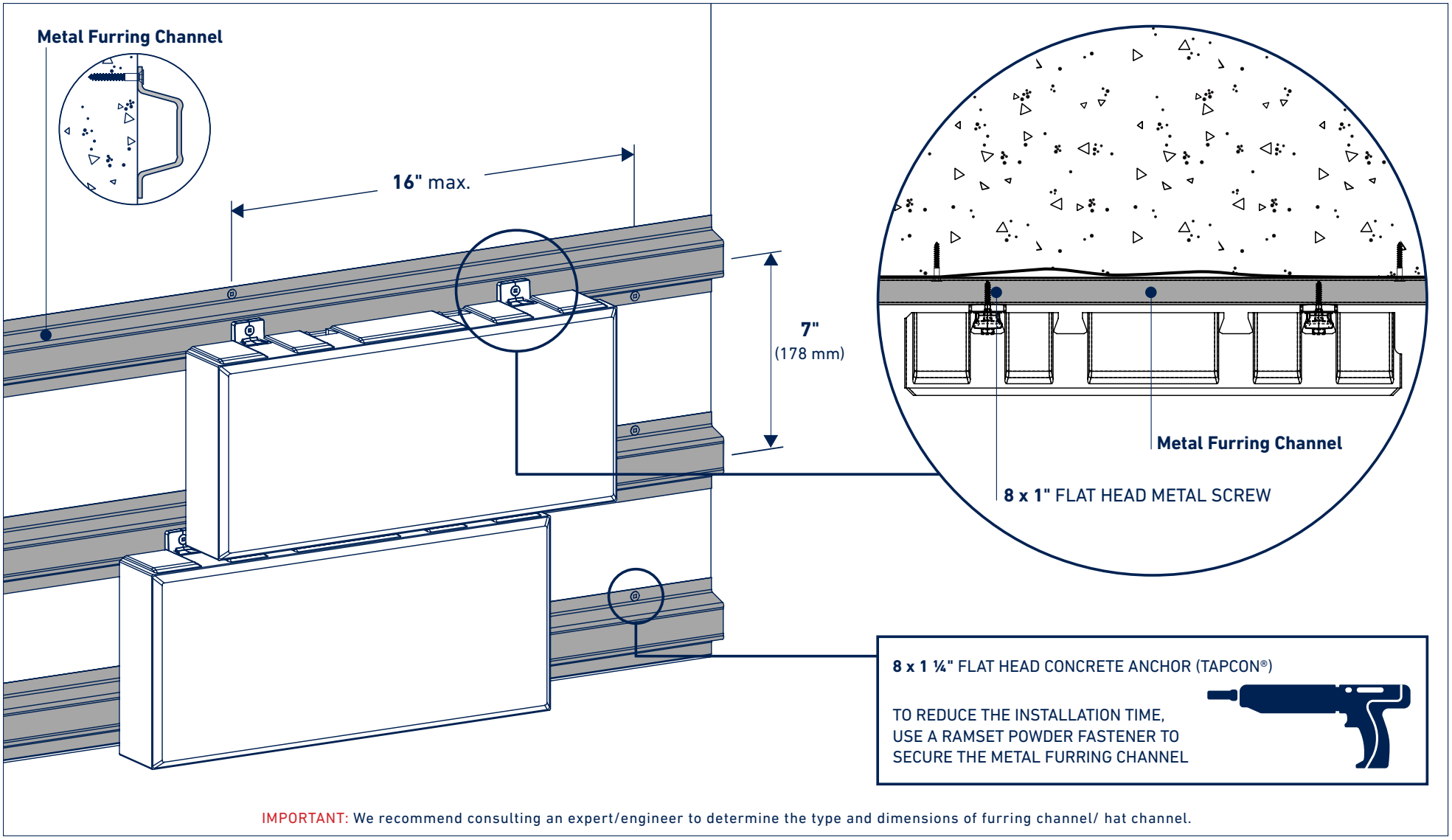
#3 **[General]:** IN CASE OF AN INSIDE CORNER, TEMPORARILY USE A TANDEM CONNECTOR TO ENSURE A 5/16" (7.5 mm) SPACE BETWEEN THE STRUCTURE AND THE VENEER UNIT **(see images A & B)**. ONCE THE CONCRETE VENEERS ARE SECURED REMOVE THE CONNECTOR.





TIPS AND TRICKS

#4 **[General]:** USE FURRING CHANNEL / HAT CHANNEL WHEN THE SURFACE IS UNEVEN OR HAS IMPERFECTIONS.



IMPORTANT: We recommend consulting an expert/engineer to determine the type and dimensions of furring channel/ hat channel.

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