



TerraClad™

*Installation Guide*

Baguette/Louver Screen Wall

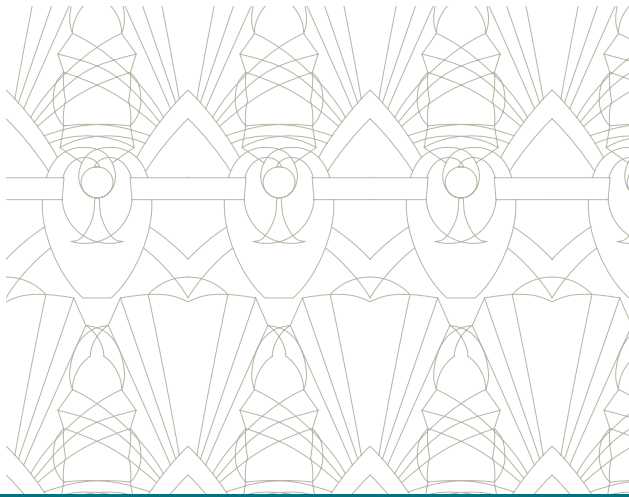


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# TABLE OF CONTENTS



Introduction	4
<i>RECOMMENDED INSTALLATION TOOLS</i>	
<i>HANDLING ON SITE</i>	
<i>FIELD CUTTING</i>	
<i>CLEANING</i>	
<i>COLOR RANGE &amp; TOLERANCES</i>	
<i>TECHNICAL INFORMATION</i>	
Installation Preparation	6
<i>CHECKING SUBSTRATE</i>	
<i>BAGUETTE/LOUVER SPLINE &amp; GASKET ASSEMBLY</i>	
Installation of the Baguette/Louver Assembly	7
Installation of Baguettes/Louvers with Removable Brackets	9

# Introduction

## Recommended Installation Tools

The necessary installation tools will vary based upon the engineered attachment method of the TerraClad™ baguette/louver screen wall. This guide is for installing the baguettes/louvers to vertical aluminum fin plates that attach back to the building structure using aluminum clip angles. Please note that the baguette/louver screen wall is engineered on a per project basis.

- Tape Measure
- Laser for Level and Plumb
- Drill
- Clamps
- Vice Grips
- Plumb Line
- Screwdriver
- High Impact Plastic Shims
- Spray bottle with watered down dish detergent

## Field Cutting

When sizing in the field, use caution to ensure that cuttings do not remain on exposed surfaces. Cut edges should be sharp, without spalling.

Cutting should be performed with a diamond tipped wet saw. We recommend a granite bond diamond blade, segmented tooth, to be used with water. Without water on the blade, the diamond tends to harden causing the blade to bounce around. It is best to wear a new blade in with a few cuts on a scrap piece first. This helps prevent chipping of the cut edge from a new blade. Make sure blades are installed with correct direction of rotation as indicated on the blade. The diamonds are bonded with a directional preference to cut properly.

## Cleaning

Once installation is complete, soiled surfaces should be cleaned using materials that will not harm terra cotta or adjacent materials. Use non-metallic tools for cleaning. Remove any excess sealant compounds, dirt, or other foreign substances. With watered down dish detergent and a natural bristle brush, clean working from the top of building to the bottom. When using a pressure washer, the psi should not exceed 1200 psi.

## Color Range & Tolerances

Terra cotta will exhibit a color range upon firing as it is a natural material made of products mined from the earth. A natural color range is to be expected with all clay materials. During installation it is important to be sure the baguettes/louvers are well blended throughout the elevation to ensure the color range is varied and to eliminate any noticeable hot spots.

## Handling on Site

- Protect system components from adverse job conditions prior to installation.
- Protect system components from other trades after installation.
- Storage:
  - 1) Store system components on platforms or pallets, covered with tarpaulins or other suitable weather-tight ventilated covering. Store components so that any water accumulation will drain freely.
  - 2) Terra cotta should not be stored in contact with other materials. This may cause staining, surface damage, or other harmful effects.
  - 3) Platforms or pallets cannot be stacked on top of one another.

Terra cotta is a porous material and will darken when wet and may not be fully dry when shipped to the site.

Baguettes/louvers will display slight variations in size due to shrinkage during the drying and firing processes. These allowable standard tolerances are outlined on our technical data sheet.

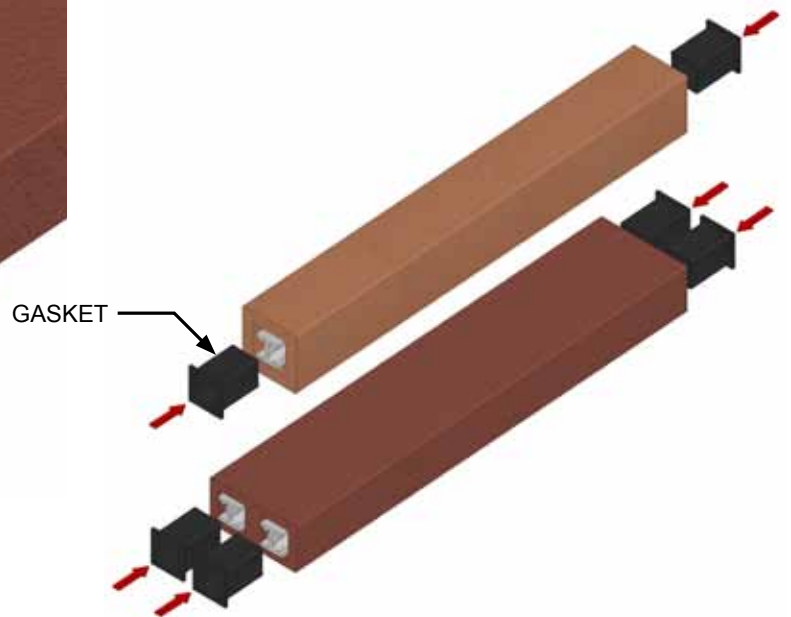
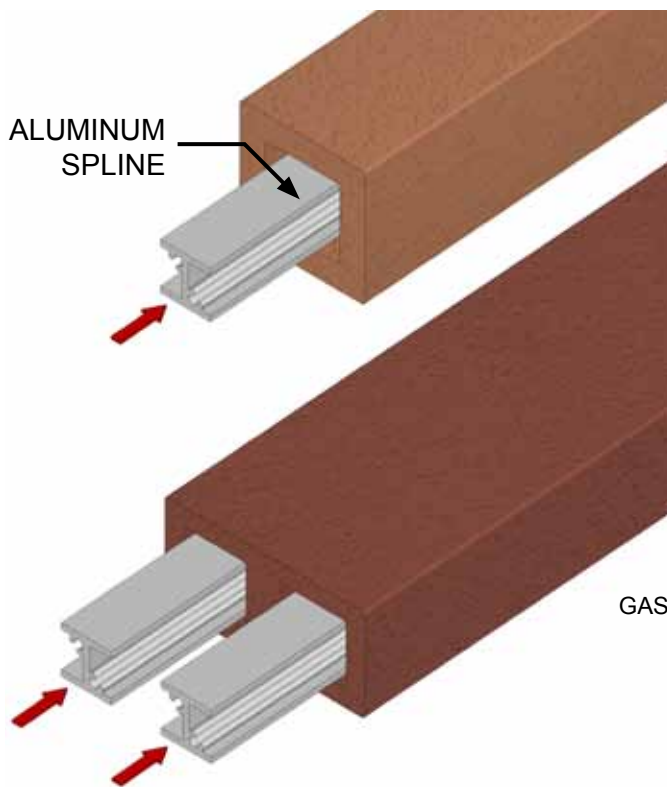
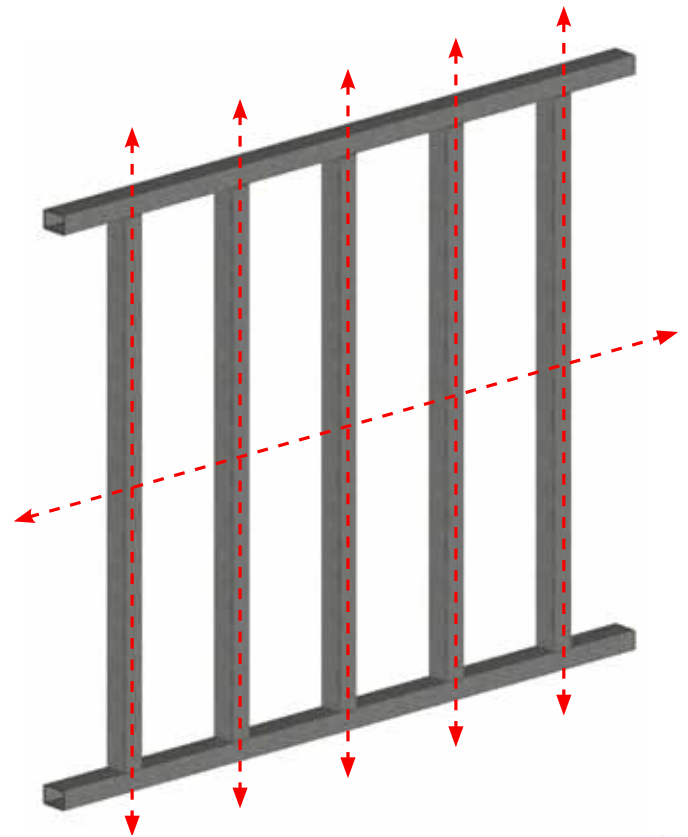
<b>Technical Data Sheet for TerraClad™</b>		
<b>Property/Characteristic</b>		<b>VALUE/CRITERIA</b>
Absorption		<b>ASTM C67-02C</b>   4.2–6.5%
Modulus of Rupture (depending on color selected)		<b>ASTM C99</b>   2231–3717 lbs/in <sup>2</sup>
Flexural Strength (depending on color selected)		<b>ASTM C880</b>   2280–3457 lbs/in <sup>2</sup>
<b>Dimensions and Tolerances</b>		
Width (center, parallel to core)	.039" for any cut length up to 60"	± 1.0 mm for any cut length up to 1524 mm
Height:	± .0625" up to 10"	± 1.58 mm up to 254 mm
	± .09375" up to 15"	± 2.38 mm up to 381 mm
	± .125" up to 20"	± 3.17 mm up to 508 mm
	± .15625" up to 24"	± 3.96 mm up to 609.6 mm
Thickness: (cross section of panel)	± .0625"	± 1.58 mm
Straightness: ("sweep")		± 0.25% of length
Diagonal Flatness:		± 0.25% of diagonal
Vertical Flatness:		± 1.0% of height
Torsion:		± 0.25% of diagonal
<b>Weight per Unit Area</b>		<b>ASTM C67-02C</b>   130-135 lbs/ft <sup>3</sup>
<b>Linear Coefficient of Thermal Expansion</b>		3.5 x 10 <sup>-4</sup> percent (0.00035%)
<b>Freeze and Thaw</b>		<b>ASTM C67-02C</b>   300 cycles passed
<b>Hardness Resistance Mohs Scale</b>		Various Standard Colors 7-9
<b>Efflorescence</b>		<b>ASTM C67-02C</b>   No efflorescence
<b>Chemical Resistance</b>		<b>ASTM C126-99</b> No Change in Color or Texture

# Installation Preparation

## Checking Substrate

Examine the building substrate to ensure level, plumb and in tolerance. Any conditions detrimental to the installation of the TerraClad™ baguette/louver screen wall must be corrected.

Installer to report to General Contractor, Architect and BVTC if site conditions exist that are adverse to the installation of the TerraClad™ system.



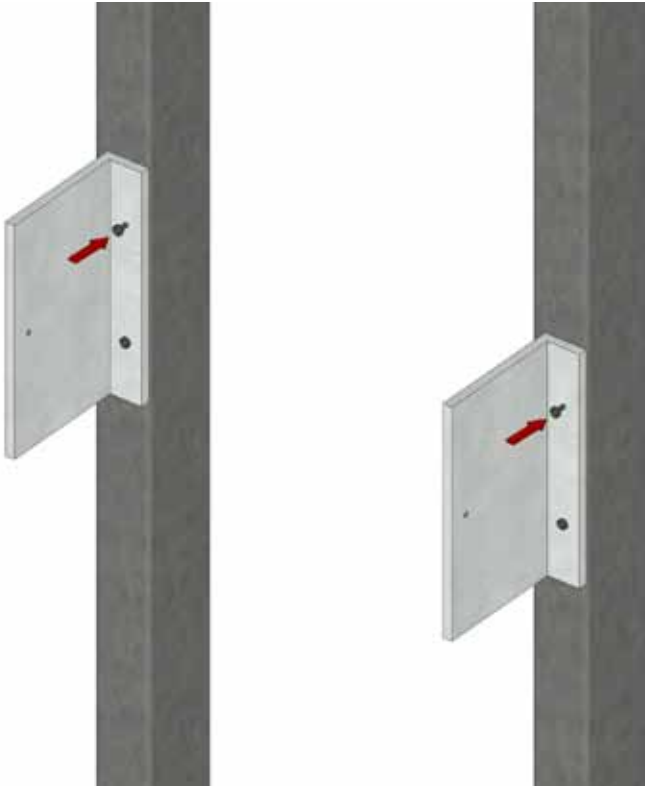
## Baguette/Louver Spline and Gasket Assembly

Insert the aluminum spline(s) into the TerraClad™ baguette/louver core(s). Insert gaskets into each end of baguette/louver and aluminum spline assembly. Gaskets fit in the baguette/louver core and around the aluminum spline to provide a snug assembly and prevent any wind induced rattle. If the gaskets are tough to install, spray with a watered down dish detergent so they slide more easily into the terra cotta cores. The outer end of the gasket(s) provides a separation for the baguette/louver from adjacent support material, in this case the aluminum fin plate.

# Installation of the Baguette/Louver Assembly

Fasten clip angles to the building structure as recommended by the engineer. A coat of bituminous paint can be applied to concealed aluminum surfaces that will be in contact with steel, cementitious, or other dissimilar materials. High-impact plastic shims can be used to separate dissimilar materials and to plumb and level the angles.

The aluminum fin plates are predrilled so that the baguette/louver locations can be easily identified. The aluminum spline has a screw boss to accept the specified fastener(s). Insert fastener(s) through the aluminum fin plate, into the baguette/louver assembly. The fastener will engage the screw boss in the aluminum spline.





Once a complete baguette/louver arrangement is installed within a pair of aluminum fin plates, the entire unitized assembly can be moved into place.

Use caution when lifting assembly into place. Lift the assembly into place and fasten to the aluminum clip angles as recommended by the project engineer. Take care to install the baguette/louver assembly so that it is plumb and level.

Continue this installation sequence until all baguette/louver assemblies have been installed in accordance with the approved drawings and engineering calculations.

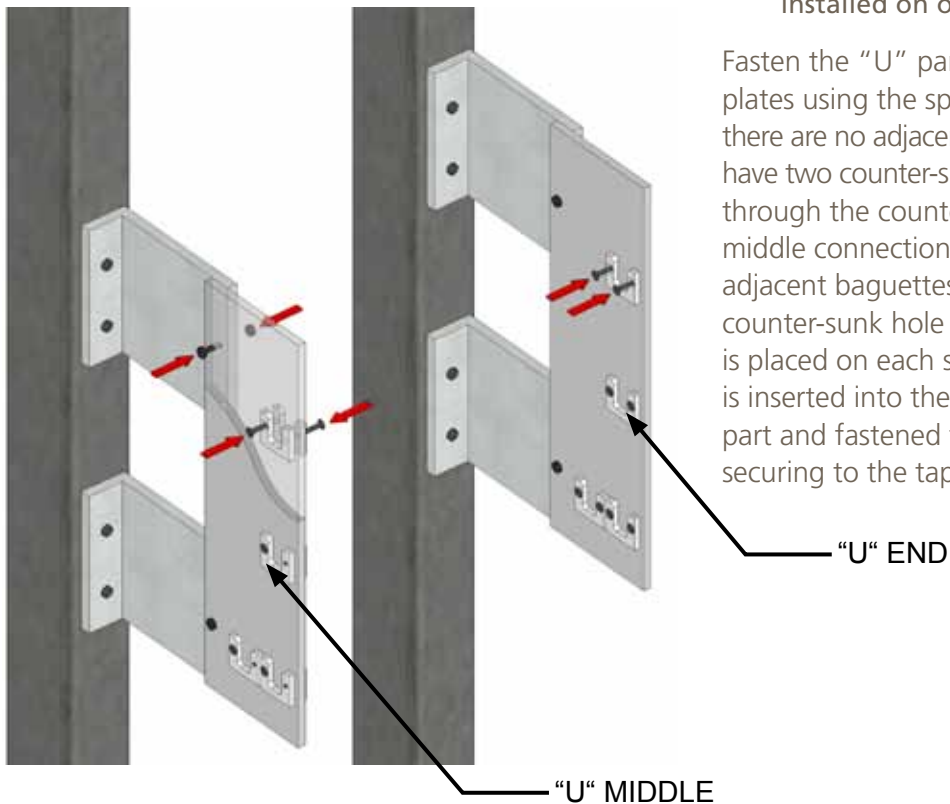
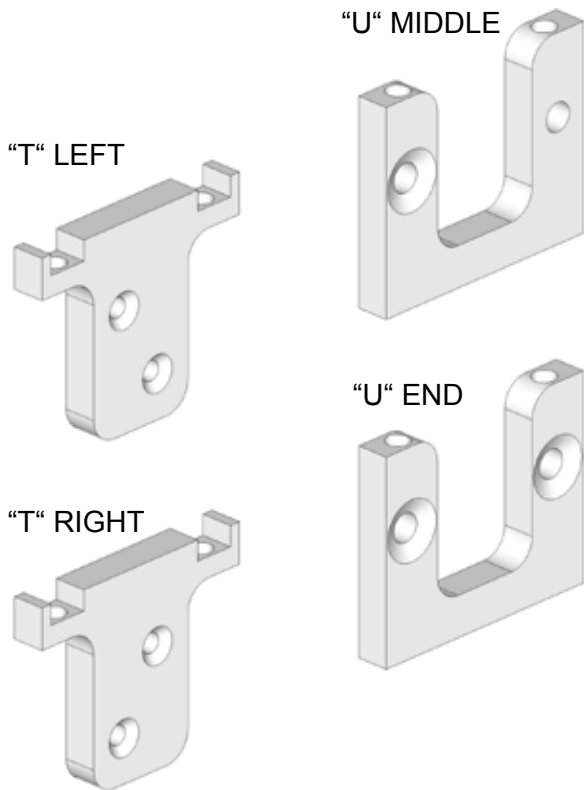


# Installation of Baguettes/ Louvers with Removable Brackets

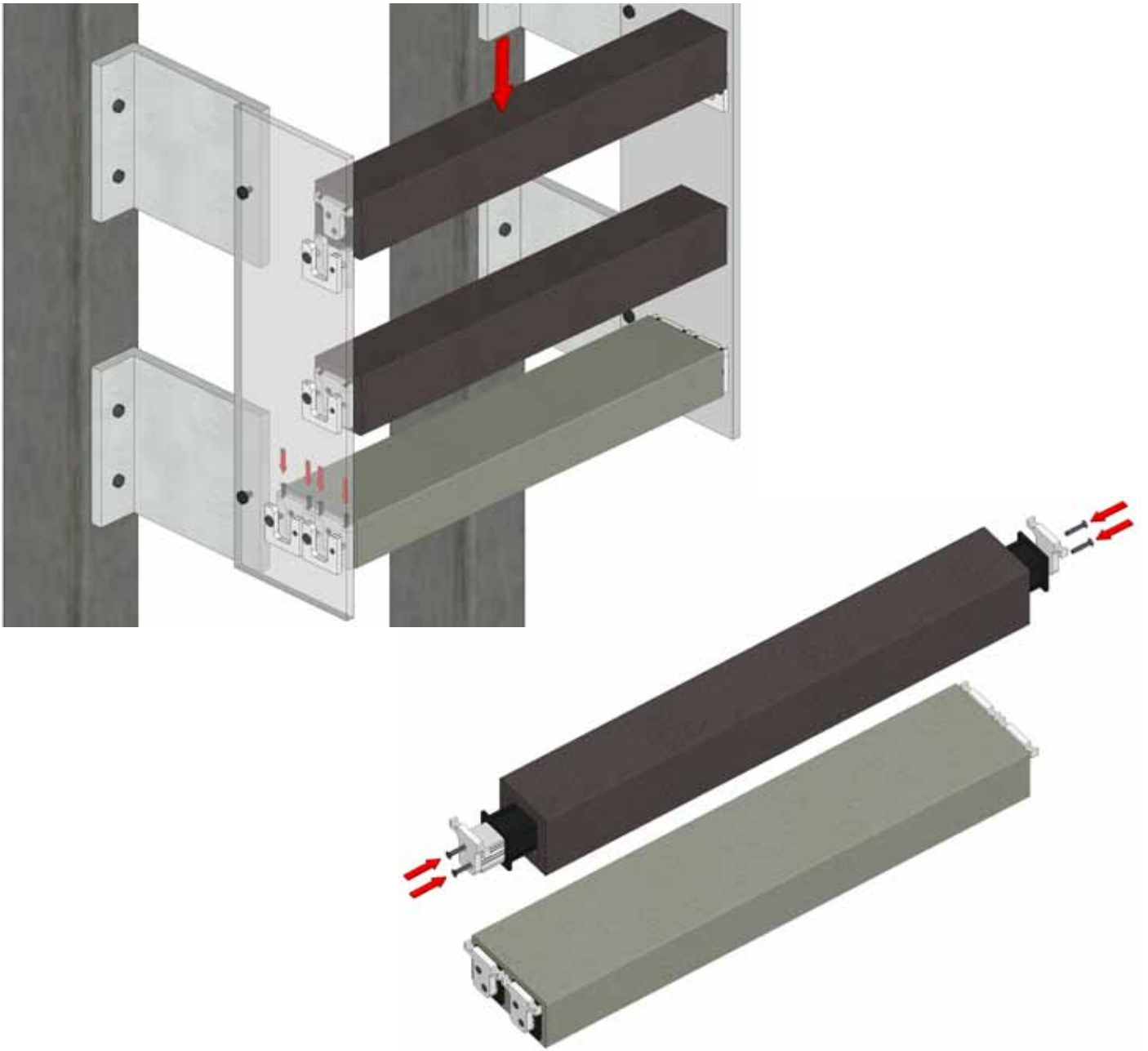
Bracket assemblies are an alternative option that can be used for a TerraClad™ baguette/louver screen wall installation. Only one vertical plate is needed and this design allows for the ability to remove a single baguette/louver assembly from the overall system. The complete bracket is formed by a two part assembly of "T" and "U" parts.

## Components:

- "T": Male part attached to the aluminum spline and baguette/louver assembly. Some "T" parts may have dowel pins and do not require a fastener. This is dictated by the size of the baguette/louver.
- "U" Middle: Female part attached to a single aluminum plate where baguettes/louvers are installed on both sides.
- "U" End: Female part attached to a single aluminum plate where baguettes/louvers are installed on only one side.



Fasten the "U" parts to the predrilled aluminum fin plates using the specified fasteners. For ends where there are no adjacent baguettes/louvers, the "U" parts have two counter-sunk holes. Two fasteners are installed through the counter-sunk holes, into the fin plate. For middle connections where there is a fin plate between adjacent baguettes/louvers, the "U" parts have one counter-sunk hole and one tapped hole. A "U" part is placed on each side of the fin plate and a fastener is inserted into the counter-sunk holes on each "U" part and fastened together, through the vertical plate, securing to the tapped hole of the other "U" part.



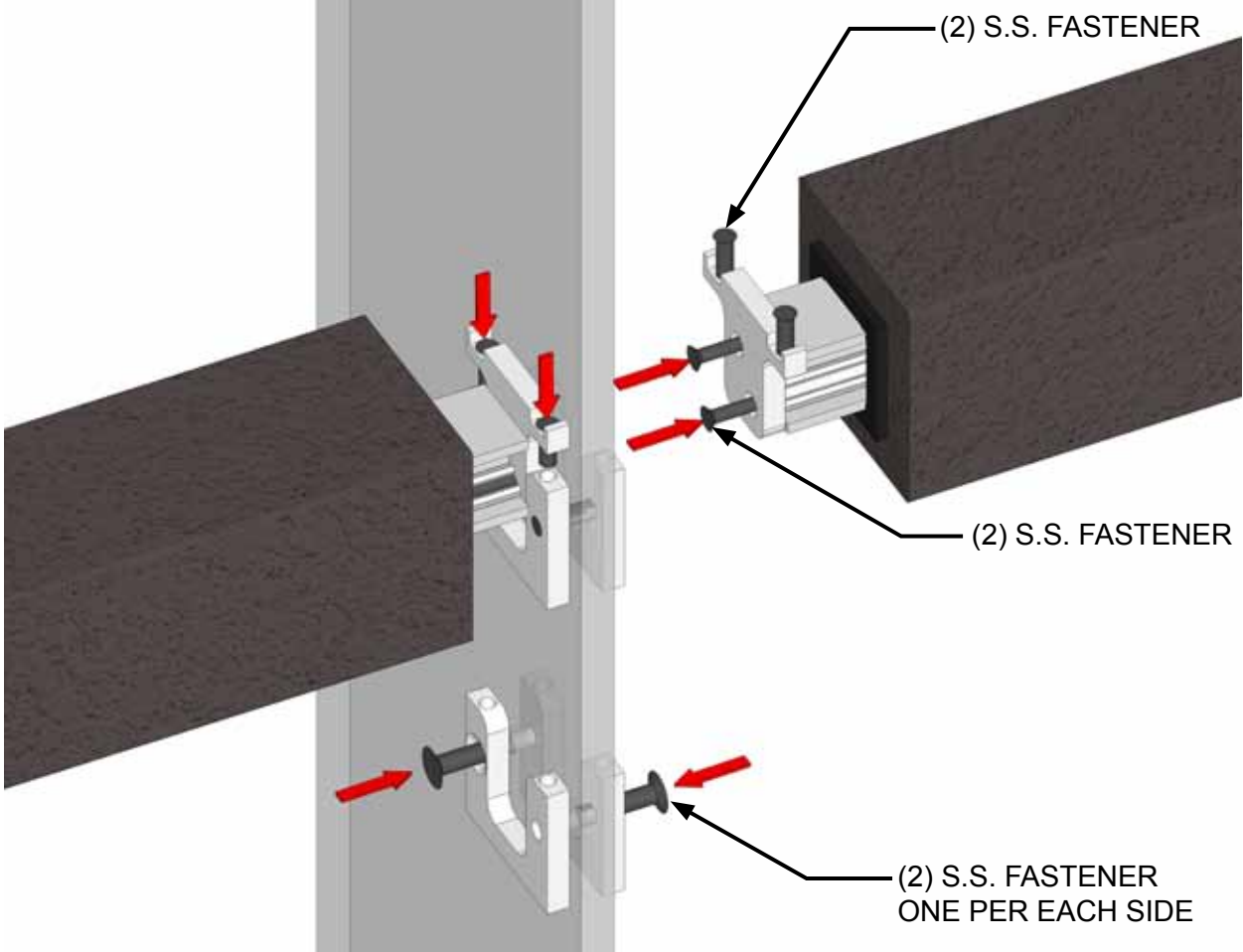
Construct a baguette/louver assembly with aluminum spline and gaskets as outlined on page 6. Attach the “T” part of the bracket assembly to the spline at each end of the baguette/louver assembly using the specified fastener or pinning method.

When attaching pinned “T” brackets a mallet may be used to tap “T” into spline. Use caution to not damage baguette/louver or aluminum parts.

Attach the aluminum fin plates back to the aluminum clip angles or structure as recommended by the engineer. The baguette/louver assembly (with spline, gasket and “T” part) can be set into the “U” part installed on the aluminum fin plates.

Fasteners are inserted from the top of the bracket assembly, fastening both the "T" and "U" parts together.

Installation can continue using these steps until all baguette/louver assemblies are in place per the approved drawings and engineering calculations.





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**Terra Cotta**

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