

INSTALLATION GUIDE

RESYSTA U-BRACKET CLADDING SYSTEM





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1. Introduction

Resysta is an extremely durable, timber look-alike, building material. It is resistant to damage from the sun, rain, snow and even salt water. Unlike wood, it requires minimal maintenance and is highly resistant to pests, mold and cracks. Unlike other composite materials, it closely resembles the look and feel of natural wood, with a smooth surface finish. Resysta meets most of the future environmentally sustainable material requirements concerning recycled and fully recyclable materials. Resysta is used for its architectural aesthetic, and not for structural support.

SECTION 1 - Material Components

A combination of these three basic raw materials make up the simple components that create Resysta. This innovative material offers designers and architects new creative horizons to utilize its compelling and unique appearance.



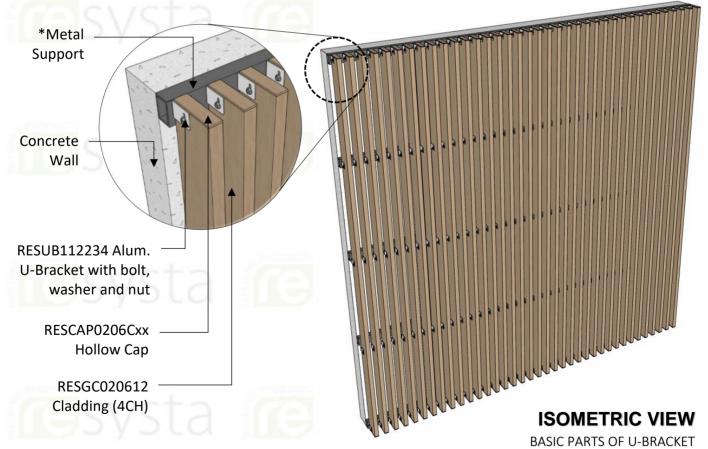




RESYSTA PRODUCT

SECTION 2 - Basics

OVERVIEW OF PARTS



* Metal Structure supplied by 3rd party. brackets can also be bolted directly into concrete walls or other structural panels but would need to be engineered by certified parties.



SECTION 3 - Scope of Delivery

NO.	PRODUCT NAME AND SPECIFICATION	ISOMETRIC VIEW	FRONT VIEW
1	RESGC11211212 1½" x 1½" x 12' Resysta Wall Cladding, 1 Channel Thick		ita, sta
2	RESGCI11211212 1½" x 1½" x 12' Resysta Wall Cladding, 1 Channel Thick with Aluminum Insert		in a
3	RESUB112112 1½" x 1½" Aluminium U-bracket Note: This Aluminium U-bracket is only for Wall Cladding 1 Channel Thick (RESGC11211212 & RESGCI11211212).		resysta
4	RESGC11223412 1½" x 2¾" x 12' Resysta Wall Cladding, 2 Channel Thick	3 Systa	Ge Systa
5	RESGCI11223412 1½" x 2¾" x 12' Resysta Wall Cladding, 2 Channel Thick with Aluminum Insert	35VSta	SVSta DD



6	RESGC020612 1½" x 5½" x 12' Resysta Wall Cladding, 4 Channel Thick	
7	RESGCI020612 1½" x 5½" x 12' Resysta Wall Cladding, 4 Channel Thick with Aluminum Insert	
8	RESCAP0206Cxx Hollow Cap	
9	RESUB112234 1½" x 2¾" Aluminium U-bracket	re systa

NOTE: Table above shows products commonly used for wall cladding. To view a complete list of products, please refer to our Resysta brochure or visit our web site http://www.resystausa.com

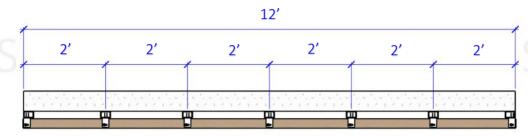




SECTION 4 – U-Bracket Spacing

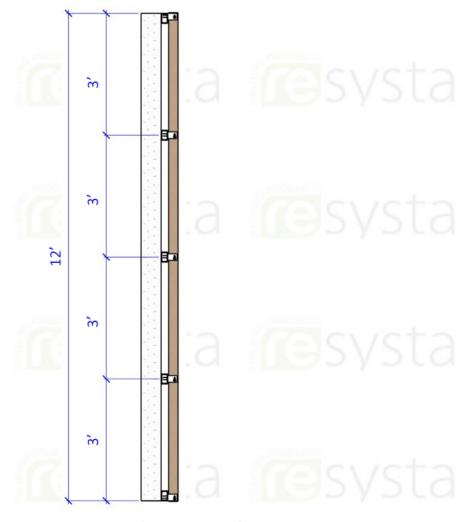
1. RESGC11223412

Resysta Wall Cladding, 2 Channel Thick 1½" x 2¾" x 12'



HORIZONTAL LAYOUT (Top View)

2' U-Bracket Spacing



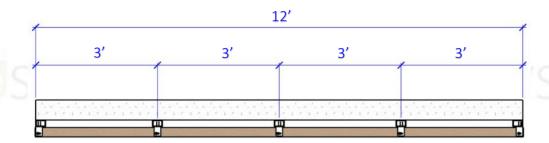
VERTICAL LAYOUT (Side Elevation)

3' U-Bracket Spacing



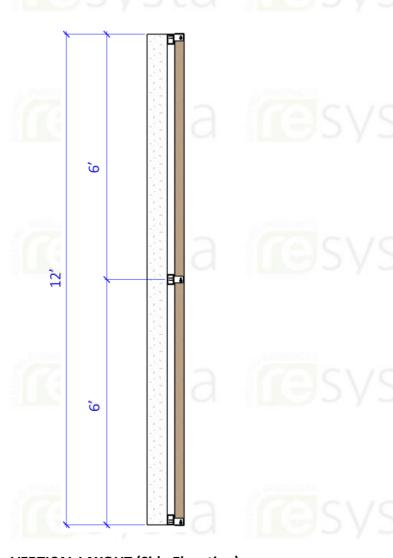
2. RESGCI11223412

Resysta Wall Cladding, 2 Channel Thick with Aluminum Insert $1\frac{1}{2}$ " x $2\frac{3}{4}$ " x 12'



HORIZONTAL LAYOUT (Top View)

3' U-Bracket Spacing



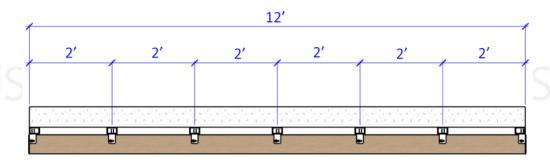
VERTICAL LAYOUT (Side Elevation)

6' U-Bracket Spacing



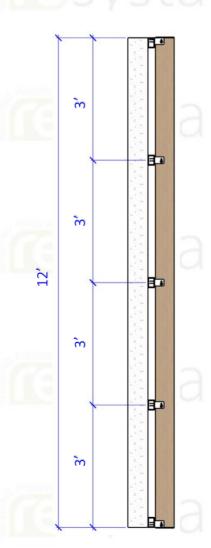
3. RESGC020612

Resysta Wall Cladding, 4 Channel Thick
1½" x 5½" x 12'



HORIZONTAL LAYOUT (Top View)

2' U-Bracket Spacing



VERTICAL LAYOUT (Side Elevation)

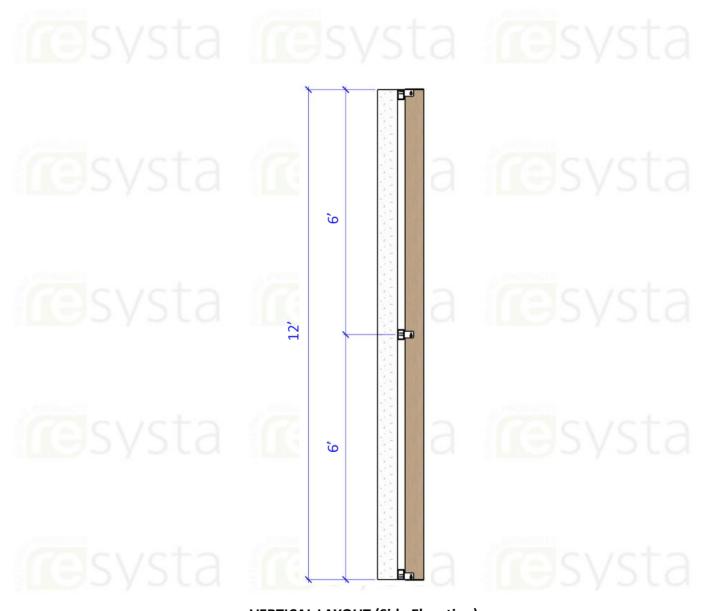
3' U-Bracket Spacing



4. RESGCI020612

Resysta Wall Cladding, 4 Channel Thick with Aluminum Insert $1\frac{1}{2}$ x $5\frac{1}{2}$ x 12

(Please note: That RESGCI020612 profile cannot be installed on a horizontal layout.)



VERTICAL LAYOUT (Side Elevation)

6' U-Bracket Spacing

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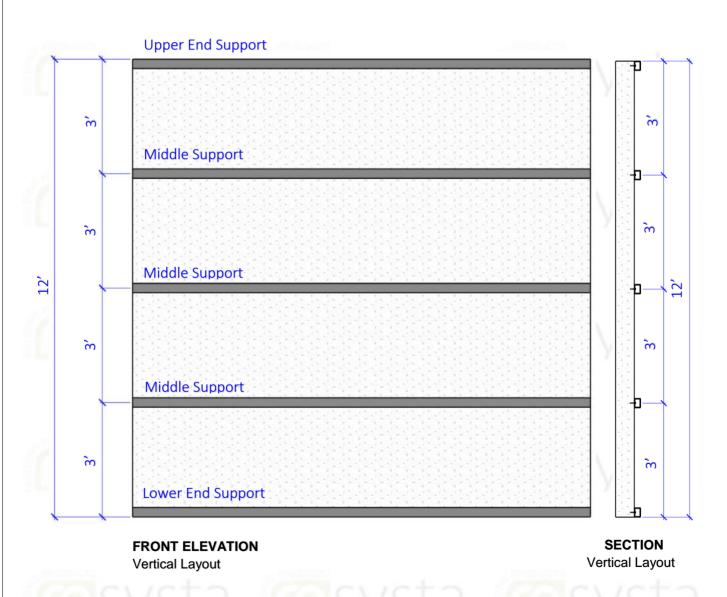


2. Installation Guide

SECTION 2.1 – Vertical Layout

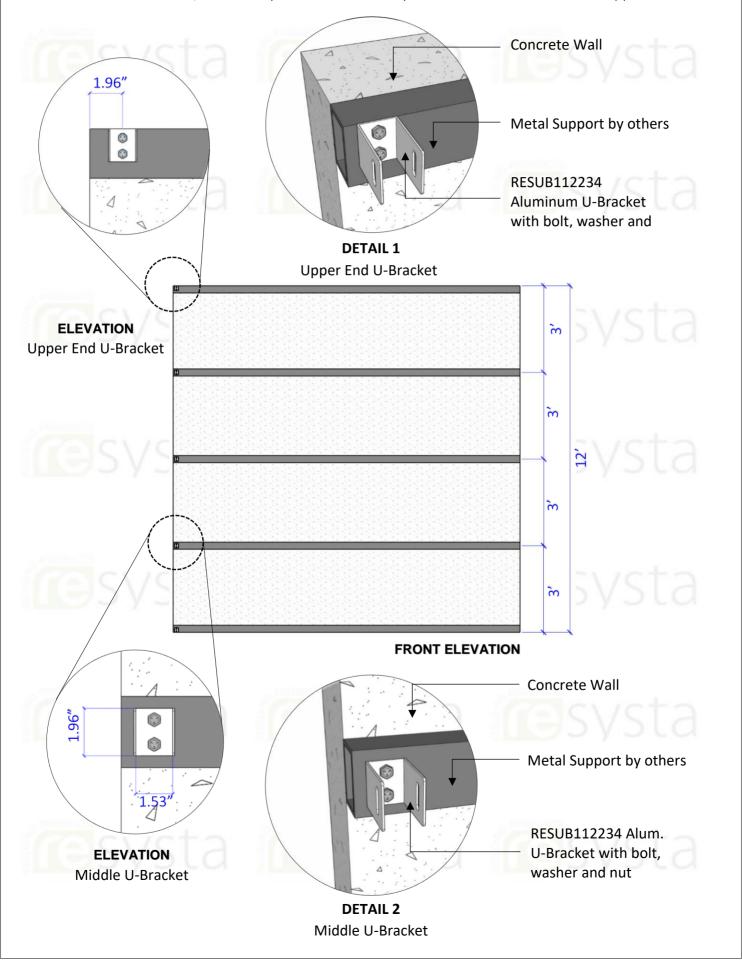
- **1.** Check the layout and designed direction of the cladding to be installed; whether it is horizontal, vertical or depends on the design requirements.
- 2. Ensure that the metal support is 100% levelled and plumb before installing the aluminium U-bracket on the metal support.
- **3.** The location of the metal support will vary depending on what type of Resysta Cladding is being used. Please refer the spacing of the metal support and U-Bracket on 1.4 U-Bracket Spacing.

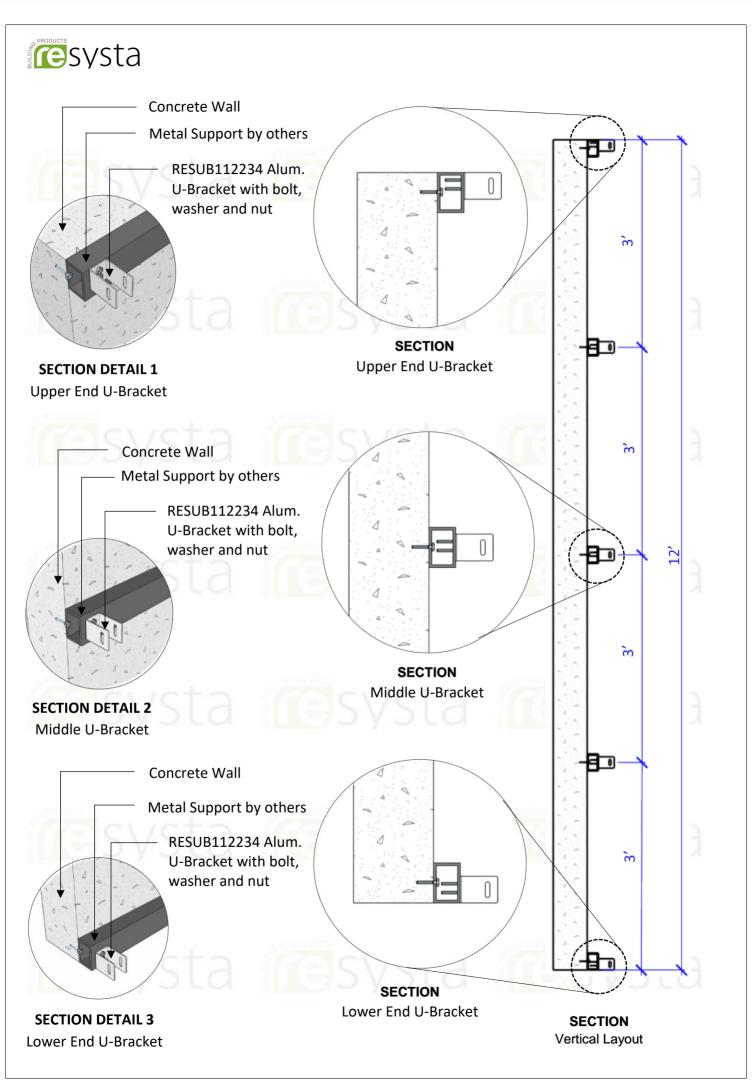
PROCEDURES for RESGC020612 Vertical Layout





4. Install the first U-bracket vertically at the corner end of the metal support flashed and levelled, followed by a U-bracket in every 3' center of horizontal metal support.







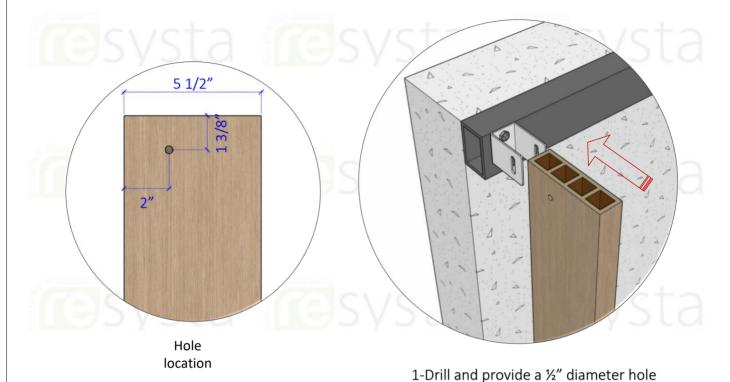
5. Slide the RESGC020612 vertically into the U-bracket and install the bolt with washer and nut to secure the Resysta Cladding profile.

for the first location of bolt with

profile vertically into the U-bracket flashed

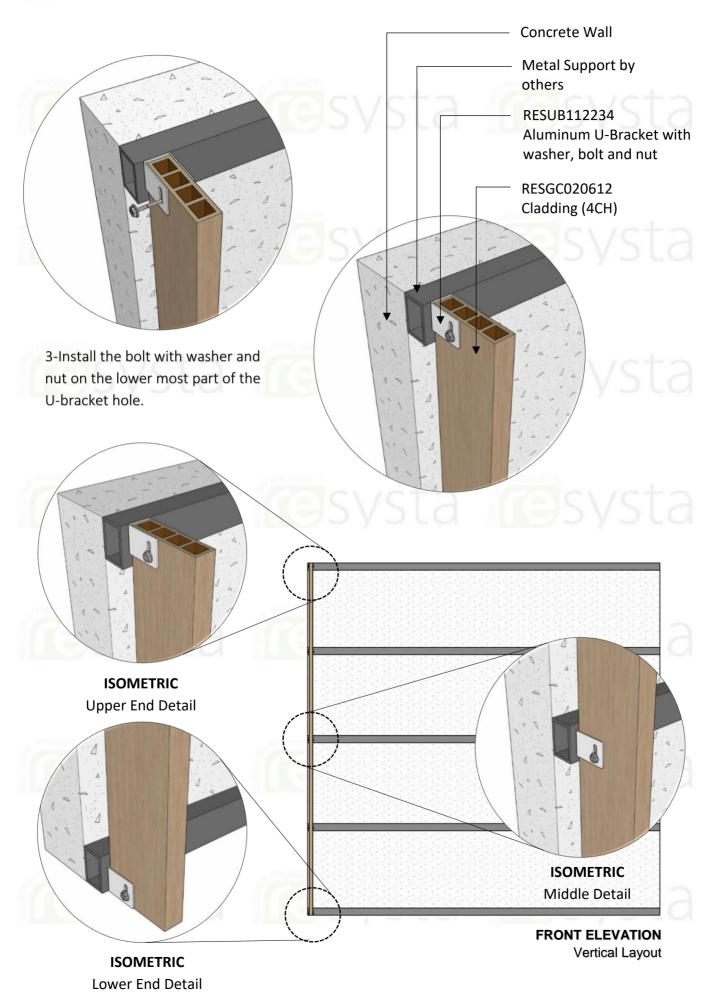
and leveled on the metal support.

washer and nut.





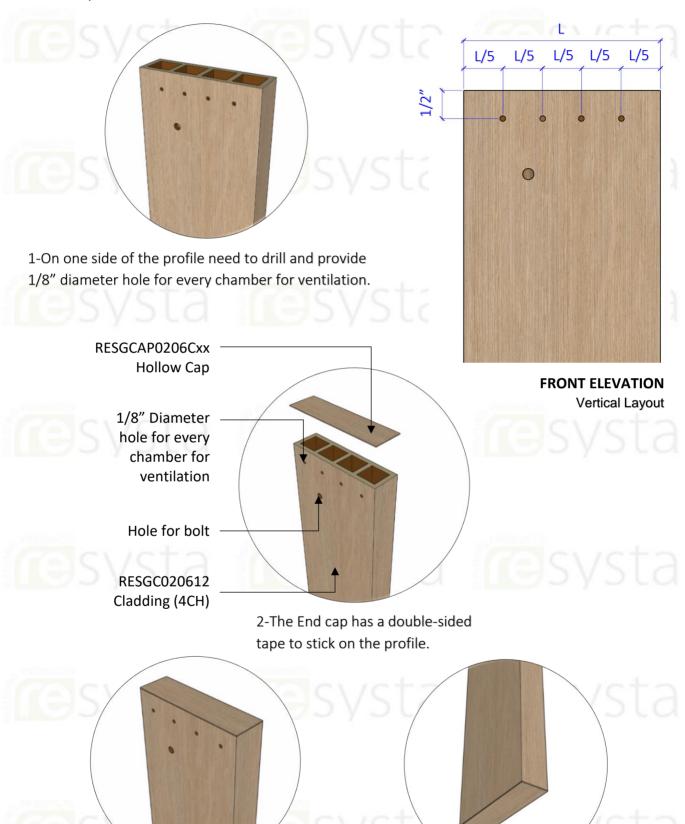






Please note optional Hollow Cap Details

- If the profile is to be closed both ends.



ISOMETRIC

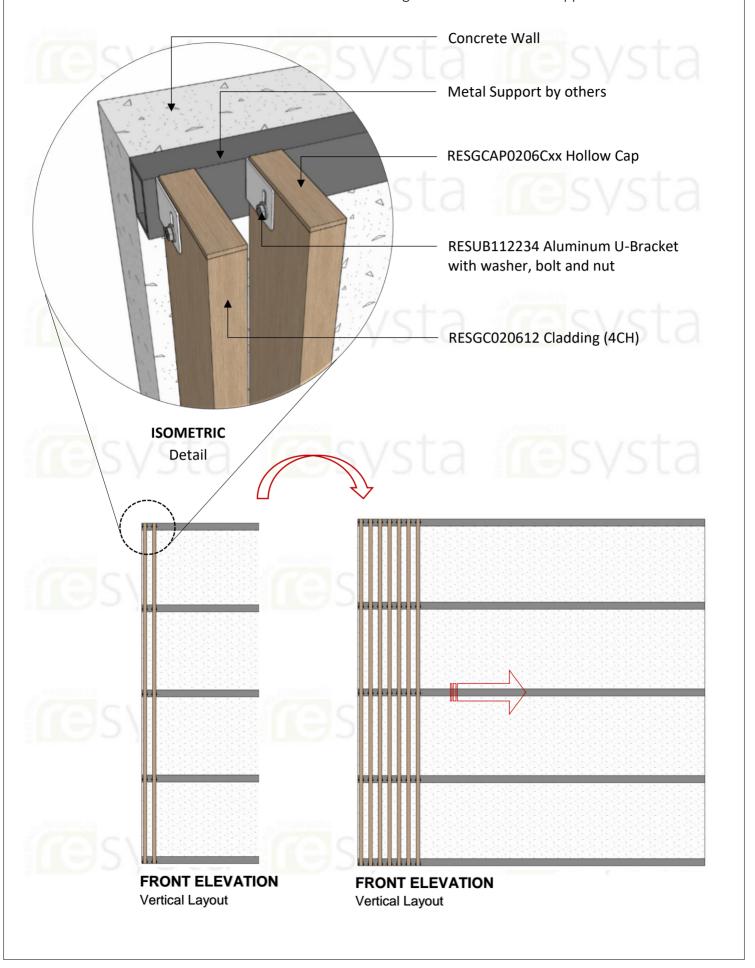
Upper Hollow Cap

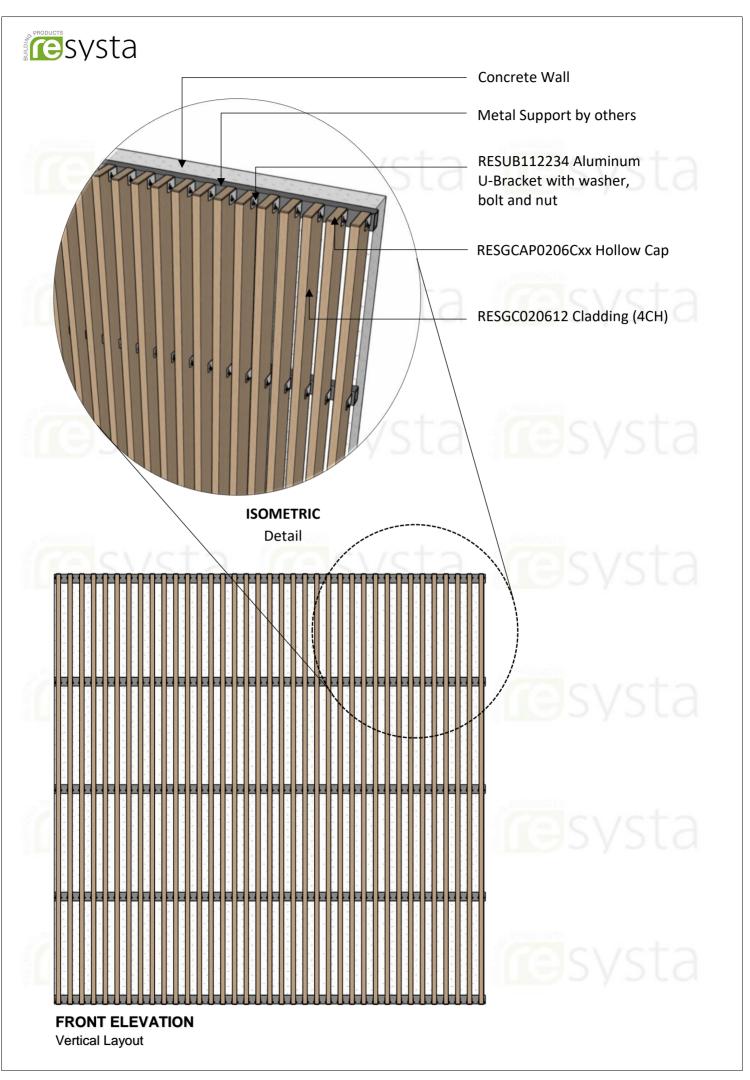
ISOMETRIC

Lower Hollow Cap



6. Repeat steps 2.4 and 2.5, providing 3.93" center to center space to each and every Ubracket and RESGC020612 until reaching the end of the metal support.







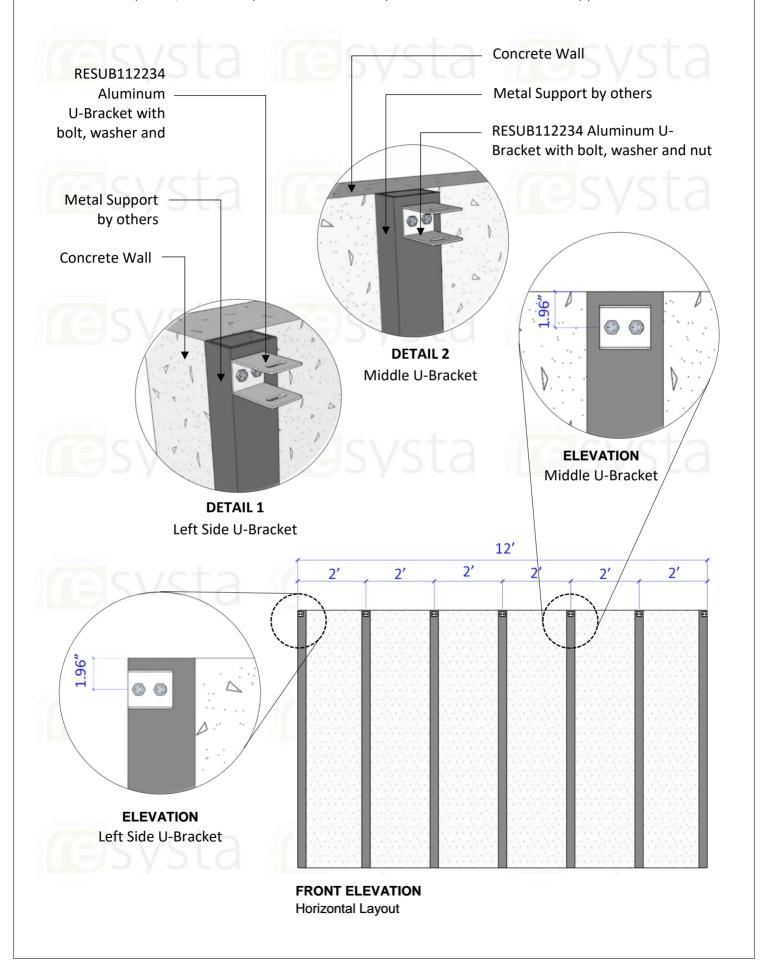
SECTION 2.2 – Horizontal Layout

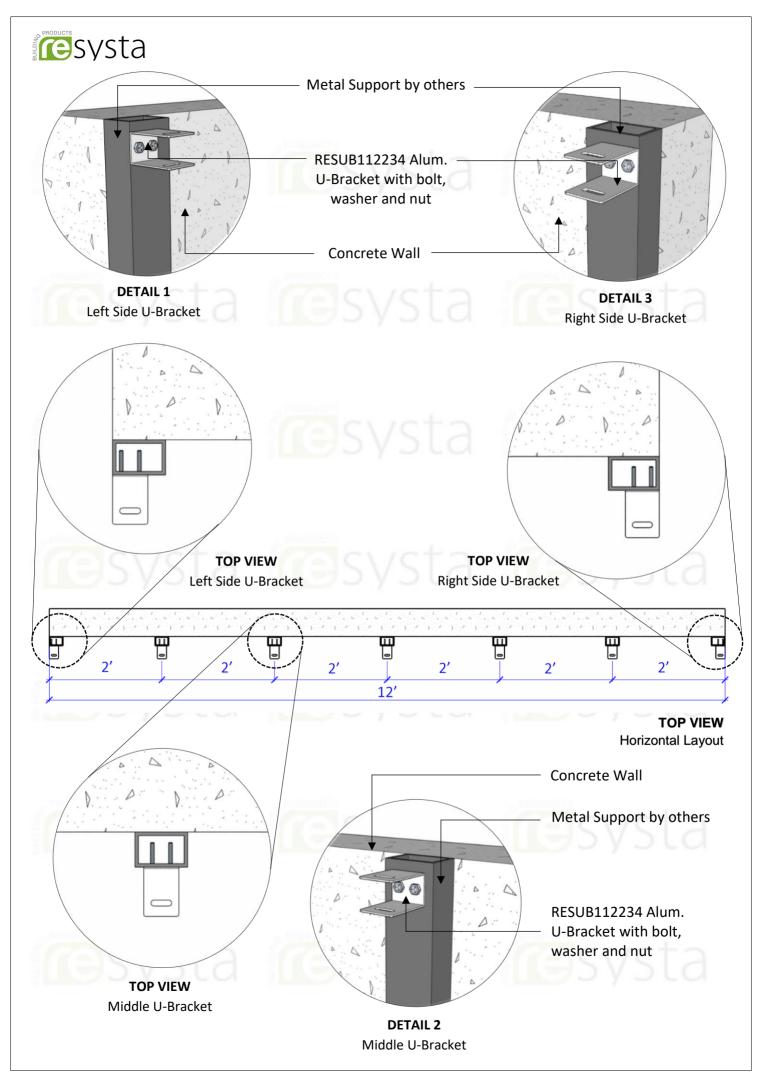
- 1. Check the layout and designed direction of the cladding to be installed; whether it is horizontal, vertical or depends on the design requirements.
- 2. Ensure that the metal support is 100% levelled and plumb before installing the aluminium U-bracket on the metal support.
- 3. The location of the metal support will vary depending on what type of Resysta Cladding is being used. Please refer the spacing of the metal support and U-Bracket on 1.4 U-Bracket Spacing.

PROCEDURES for RESGC020612 Horizontal Layout 12' 2' 2' Left Side Support Middle Support Middle Support Middle Support Middle Support **FRONT ELEVATION** Horizontal Layout 2' 2′ 2′ 2′ 2′ 2' 12' **TOP VIEW** Horizontal Layout



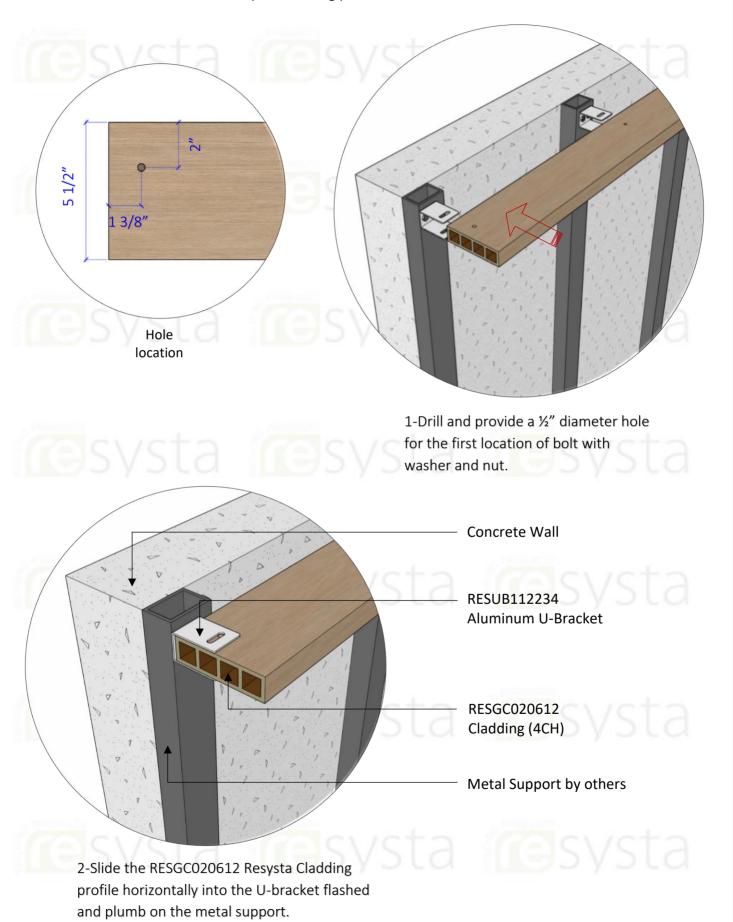
4. Install the first U-bracket horizontally at the upper left side of the metal support flashed and plumb, followed by a U-bracket in every 2' center of vertical metal support.

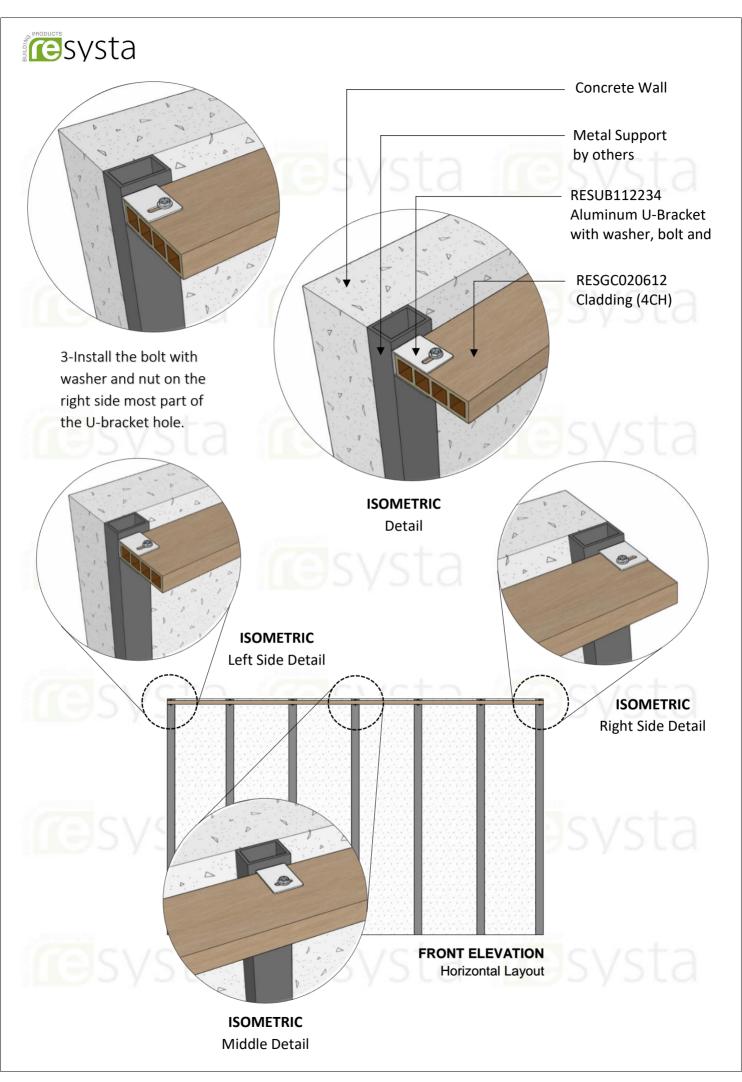






5. Slide the RESGC020612 horizontally into the U-bracket and install the bolt with washer and nut to secure the Resysta Cladding profile.



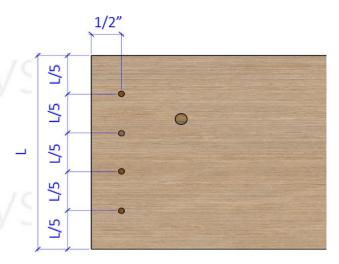




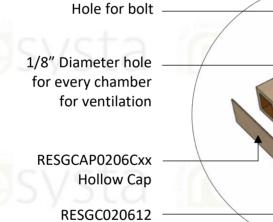
Please note optional Hollow Cap Details



1- If applying veneer caps to both ends of the RESGC020612 you'll need to drill a 1/8" minimum diameter hole in every chamber to allow for ventilation. The location of the holes will depend on the Clients discretion based on the actual project conditions.



TOP VIEW
Horizontal Layout



Cladding (4CH)

2-The hollow cap has a double-sided tape to stick on the profile.



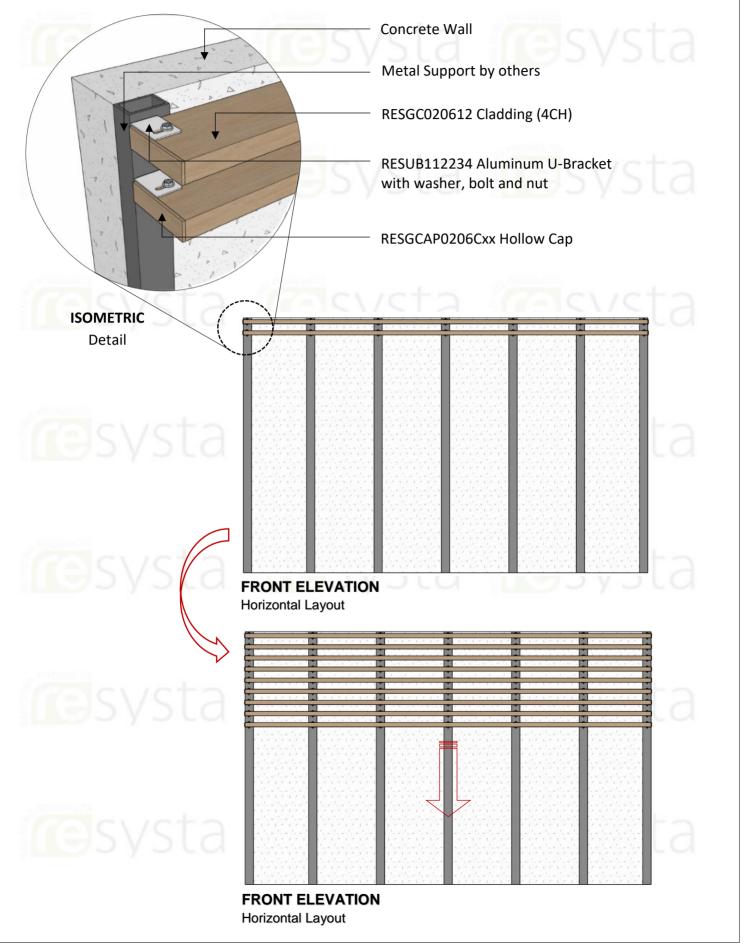
ISOMETRICLeft Side Detail



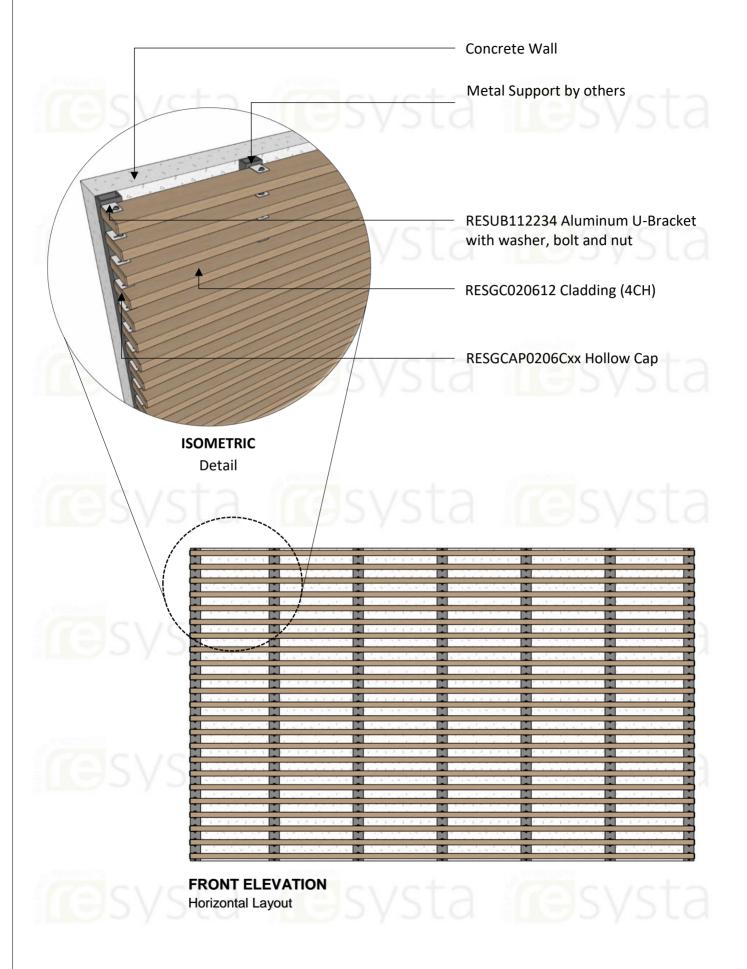
ISOMETRICRight Side Detail



6. Repeat steps 2.4 and 2.5, providing enough space to each and every U-bracket and RESGC020612 until reaching the end of the metal support.









3. General Advice

SECTION 3.1 – Expansion Joint

Expansion joint caters for temperature- dependent linear expansion of 1mm gap per board every 10 degrees in temperature change between the ends of the planks. e.g. 2.90m plank= approx. 3mm distance. If the planks are installed closed to a wall the distance here should be 10mm. (Refer to expansion chart)

Table 1.1

Resysta Wall Cladding Board Gap Guide								
95VStd III	Trim Gap of Wall Cladding Boards							
Temperature at Installation	Below 30 °F	60 °F	90 °F	120 °F				
Amount for Wall Cladding Profile -Length of 12Ft.	7/16"	5/16"	3/16"	0''				

- 3.1.1 The Dimensional change of Resysta is solely dependent on the thermal expansion. Air, humidity and water have no influence on dimensional change. Thermal expansion must be considered at installation.
- 3.1.2 Cutting to length should be carried out at consistent material temperature. Therefore, the materials should be stored in the shade or in areas where it is not exposed to direct sunlight. The material can warm up considerably in the sun, leading to an increased change in length. In the case of more distinct fluctuations in material temperature, cutting to length may have to be adapted accordingly.
- 3.1.3 Resysta has a high vapor diffusion resistance. Please consider at installation.
- 3.1.4 Resysta has a class A fire rating (ASTM-E84).
- 3.1.5 Cut-off pieces and/or abrasive dust have to be disposed separately. Please comply with regulations of your competent waste management. You may under no circumstances burn Resysta yourself.



SECTION 3.2 – Expansion Joint

- 3.1.6 Resysta building products is not responsible for information shown on all details beyond specification scope of work BID/quoted and as indicated contract documents.
- 3.1.7 Details of adjustment work are shown for completeness only. The project Architect / Project Engineer / Erecting Contractor supplying and/or installing the structural support is responsible for its design/installation to accommodate all loads imposed upon the products.
- 3.1.8 Our Engineer is limited to the load carrying components of the siding system and its fasteners shown on the subsequent drawings. The components are supplied by other parties.
- 3.1.9 These drawings are the copyright property of Resysta Building Products, Inc.
- 3.1.10 Please read our installation and design recommendation documents for further information that may be important for your specific project or installation.
- 3.1.11 Ensure a steady material temperature when cutting the boards to size. The cutting has to be done under constant conditions. e.g., inside or in shade.
- 3.1.12 Always consider the linear expansion of Resysta, which is dependent on the temperature but not air humidity. See Table 1.1 for more information.
- 3.1.13 Only use construction fastening material and hardware suitable for outdoor use (e.g., Stainless Steel Screws).

SECTION 3.3 – Disclaimer

Resysta Deco Cladding has been specially developed for their named application and are not a structural material. The items have no general technical approval and are therefore not suitable for supportive construction purposes. Local building codes as well as installations and technical information should be considered. Resysta products should be stored on a flat and level surface. If planks are stored on stickers/slats ensure that there is a distance of no more 12" between them. The Resysta cladding must be installed by an authorized professional installer.

For more details, please visit our web site https://www.resystausa.com