

# SOLIDGLAD



**REYNOARCH<sup>®</sup>**

SOLID METAL PANELS



## Reynoarch Solid Aluminum Panel (SAP)

*The façade of a building plays an integral part in determining the visual uniqueness and durability of a building. The use of aluminium as the cladding material can create the colour, shape and sustain ability of a building façade.*

*REYNOARCH (Solid Aluminium Panel) can satisfy the desire of the most distinguished building designers. Pre-fabricated from aluminium sheet from 2.0mm to 6.0mm thick, REYNOARCH SAP comes in either flat or with intricate in-fill design of your choice. For a lasting outstanding finish, PVDF lacquer paint is applied on the surface in our in-house spray coating line.*

*REYNOARCH SAP can also be printed with UV ink for that special effect print. This is what many interior designers have been yearning to have and which we can now fulfil their wishes.*

# The Product

*Reynobond Industries, manufacturer of Reynoarch ACP, HPL, Zinc Composite Panel & Aluminium Honeycomb Panel, now offers coil-coated solid aluminium sheets – Reynoarch Solid Aluminium Panels.*

*Reynoarch Solid Aluminium Panels provides a non-combustible solution featuring:*

*1) High quality PVDF/FEVE coatings produced on a continuous coating line that provides consistency and longevity across the surface. Coating process conforms to AAMA 2605 and ECCA guidelines.*

*2) Fire class: A1, non-combustible in accordance with EN 13501-1.*

*3) Reynoarch Solid Aluminium Panels available in a large variety of colours and surfaces.*

*4) Reynoarch Solid Aluminium Panels is available in 3003 & 5005 alloy for Solid and Metallic finishes.*

*5) Comprehensive customer support: with Reynoarch Solid Aluminium Panels you will get technical assistance from our Reynobond Industries team in the recommending and designing of appropriate fixing systems. In addition you enjoy the usual commercial support from the Reynobond Industries sales team.*

*6) Warranty: Reynoarch Solid Aluminium Panels comes with a 10 year warranty, directly from the manufacturer of Reynobond Industries subject to a project specific application.*

## Limitless Design Option

*The wide range of finishes and sizes means that Reynoarch SOLID Aluminum panels can be used to achieve even the most complex architectural designs. Standard sizes and colors are stocked in Our Factory for added convenience. Reynoarch SOLID Aluminum panels also offers custom colors and sizes on request.*

## Features & Benefits

- **100% Non-combustible to AS1530.1**
- **Custom sizes, colors and finishes**
- **Up to 25 years warranty**
- **High Quality Finish**
- **High Quality marine grade aluminum**
- **Easy to fabricate**
- **Expert advice**
- **Competitively priced**
- **100% Recyclable**
- **Made to order, with a wide array of color, shapes, and in-fill designs.**
- **Corrosion and weather resistance as only high quality coating and aluminum alloy is used.**
- **Long service life and incombustible to fire.**
- **UV printing for special effect for interior cladding.**
- **Environmental friendly-100% recyclable.**



## Surfaces & Finishes

### *Solid Colours*



*Pure White*



*Light Grey*



*Anthracite Grey*



*Basalt Grey*



*Platinum Grey*

### *Metallic Colours*



*Silver Metallic*



*Smoke Silver Metallic*



*Grey Metallic*



*Champagne Metallic*

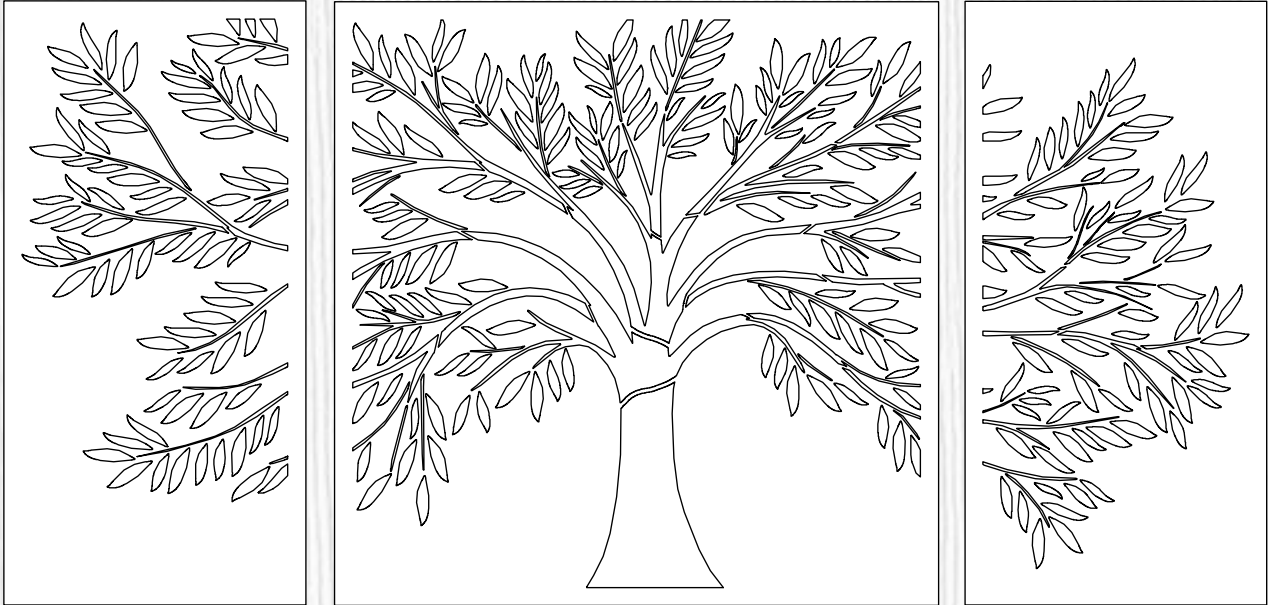


*Bronze Metallic*

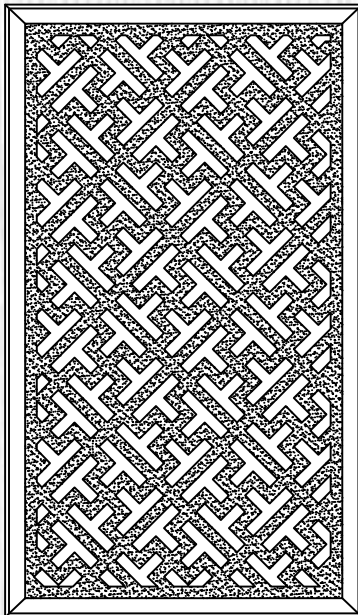


*Siena Copper Metallic*

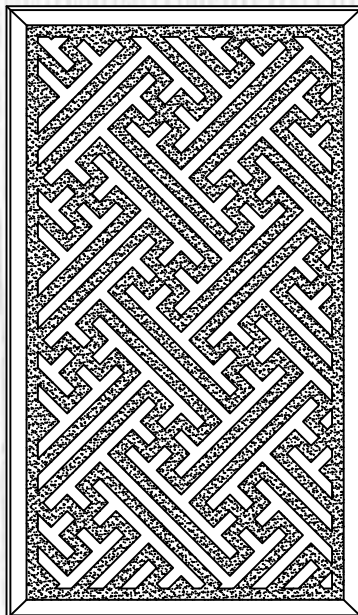
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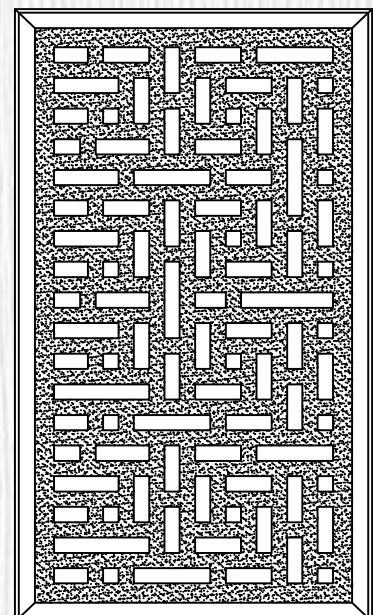
SAP-01



SAP-02

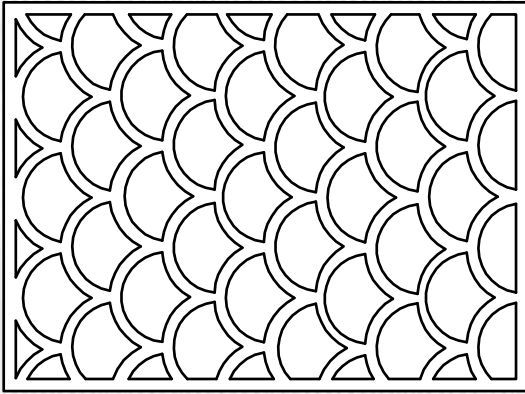


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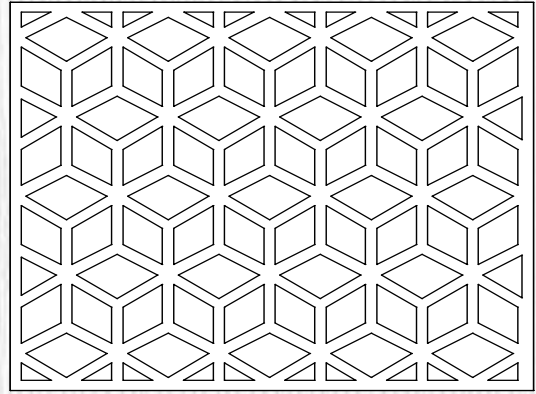


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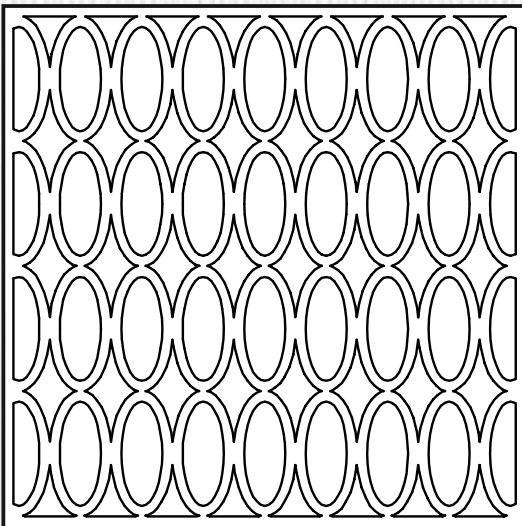
## Pattern & Design



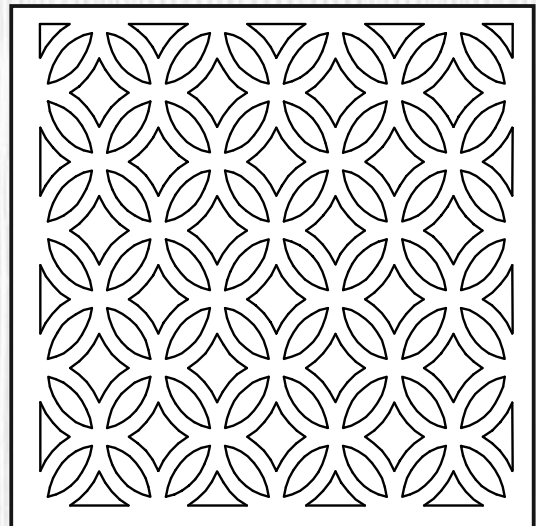
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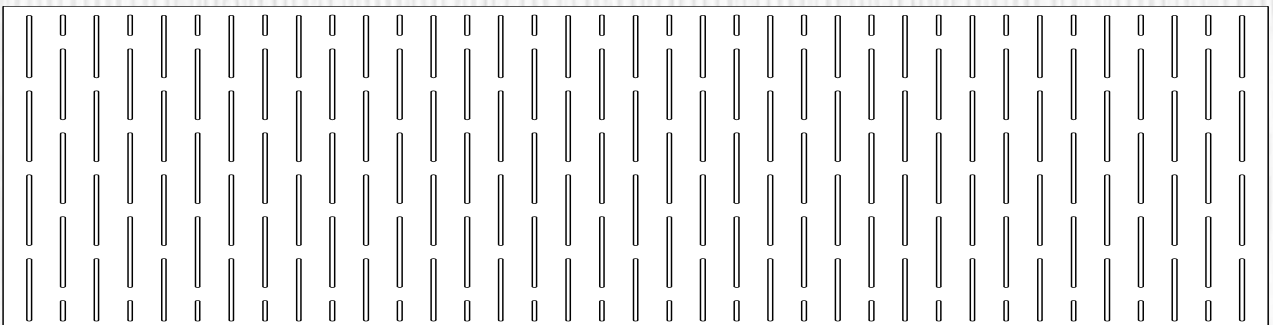
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**SAP-07**



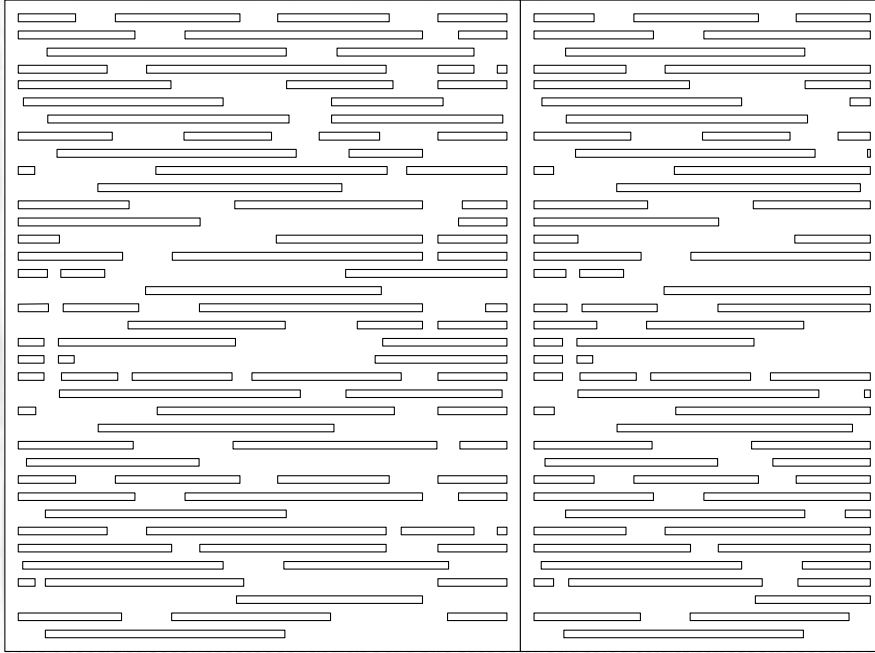
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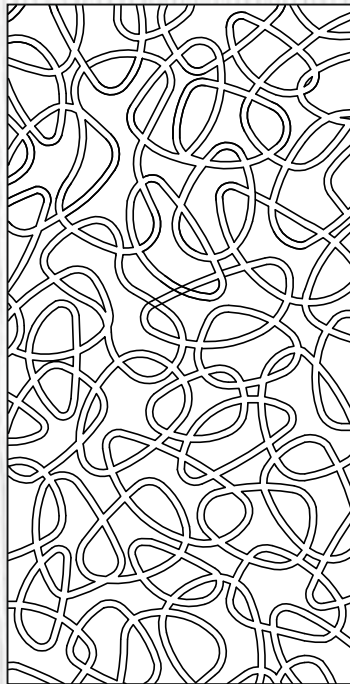
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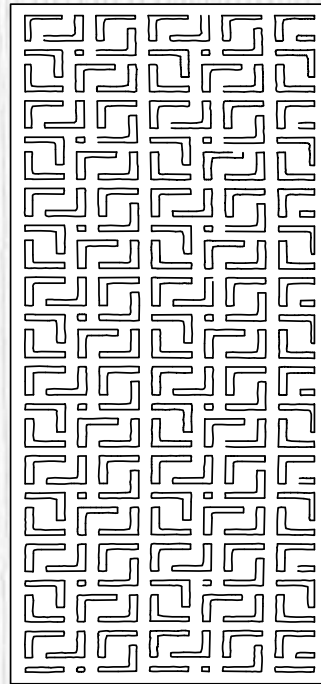
## Pattern & Design



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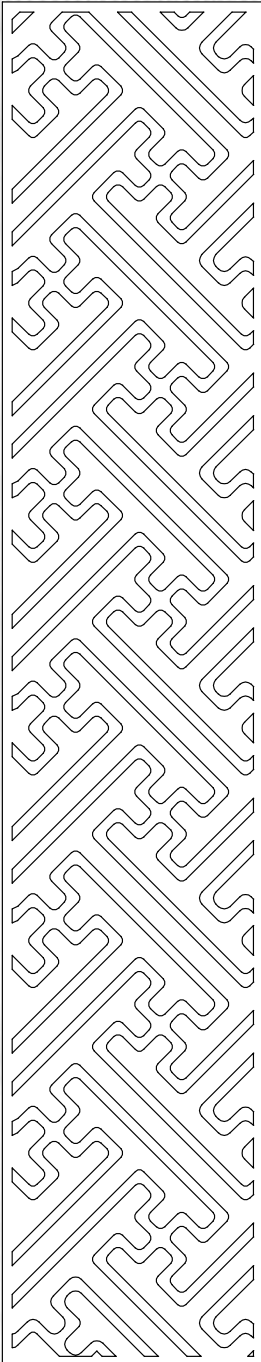
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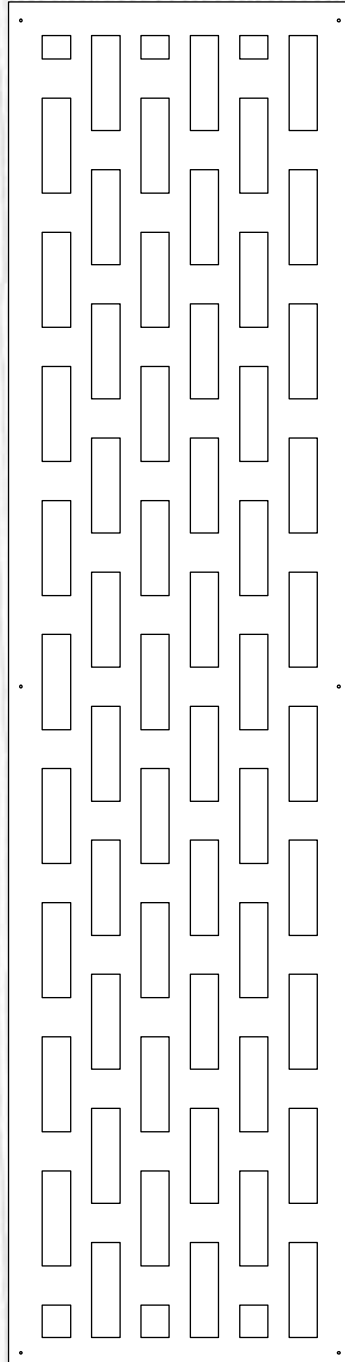
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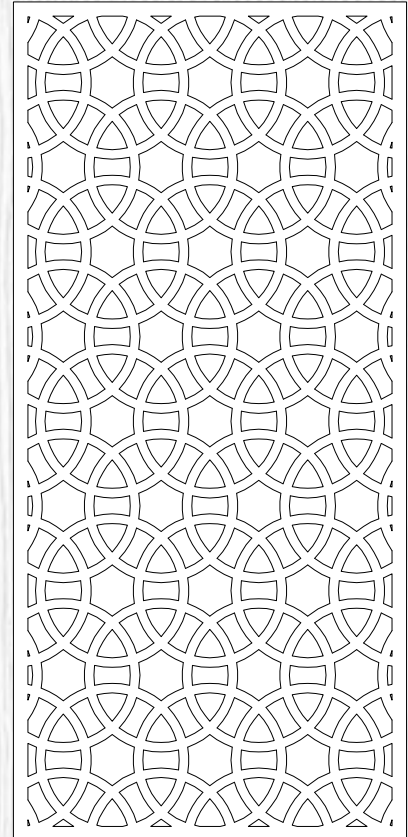
## Pattern & Design



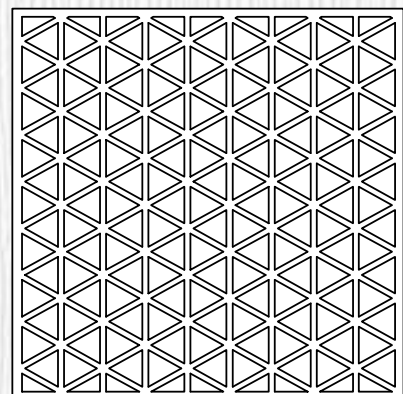
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**SAP-11**



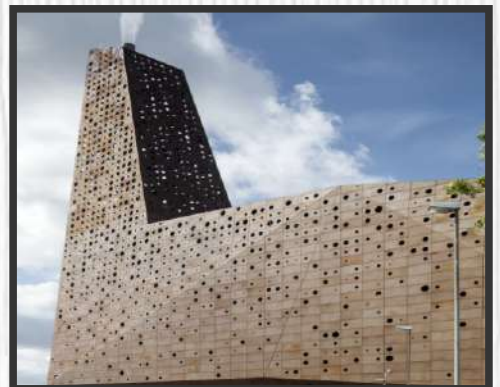
**SAP-12**



**SAP-13**

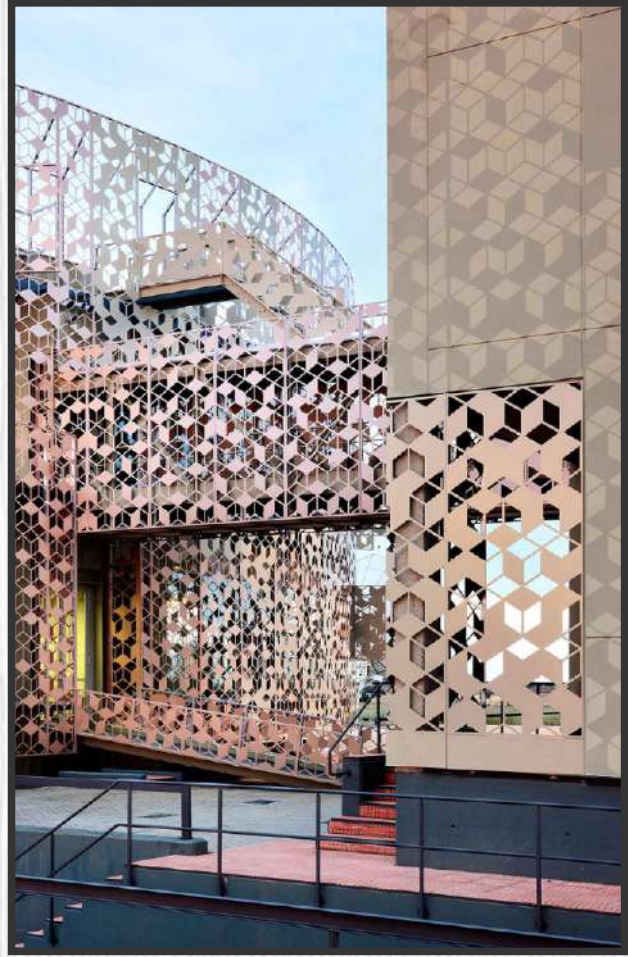


## Building Application



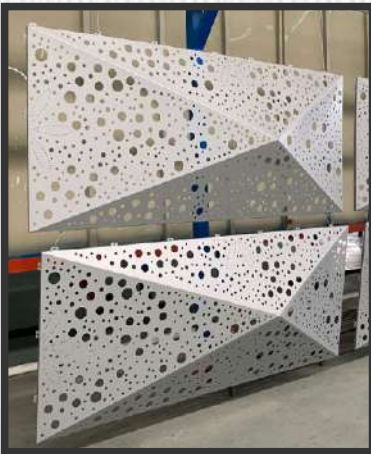


## Building Application



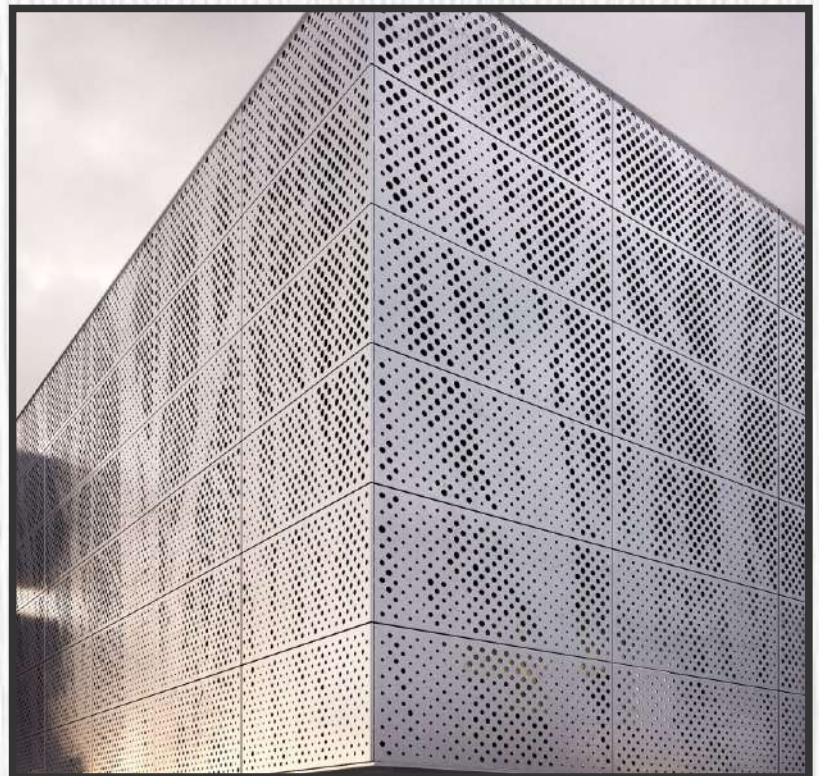
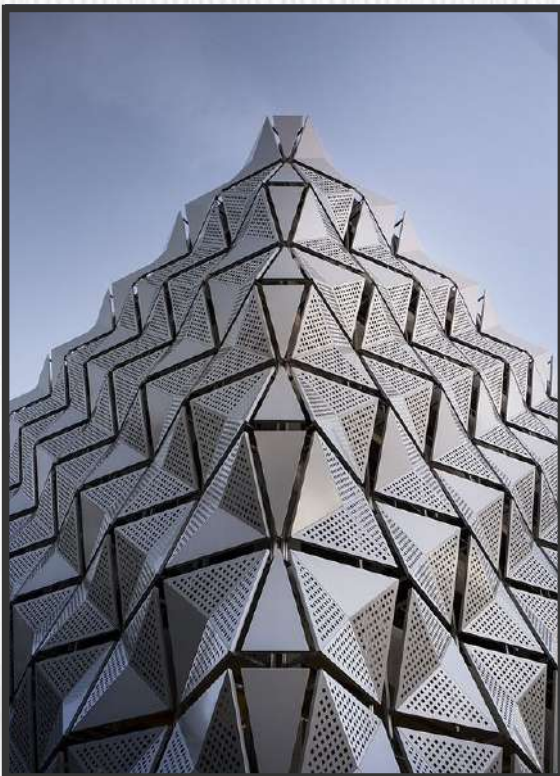


## Building Application





## Building Application





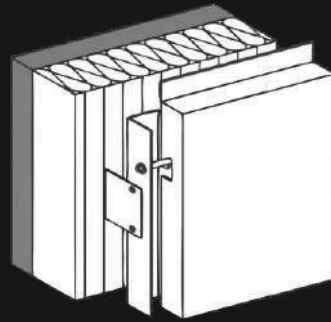
## Technical Data

| Technical Properties    | Standards   | Coil-coated                              |
|-------------------------|-------------|--|
| Alloy                   | EN 573-3    | EN AW,1100,3003,5005                     |
| Temper                  | EN 515      | H44                                      |
| Standard Thickness      | EN 485-4    | 2mm,3mm,4mm,6mm                          |
| Standard Widths         | EN 485-4    | 1000mm,1250mm,1500mm                     |
| Standard Length         | EN 485-4    | ≤ 6000mm                                 |
| Panel Weight            |             | 8.1 Kg/m <sup>2</sup> (3mm)              |
| Tensile Strength        | EN 1396     | 140-185MPa                               |
| 0.2% Proof Stress       | EN 1396     | ≥110                                     |
| Elongation              | EN 1396     | A <sub>50</sub> ≥ 5%                     |
| Linear Expansion        | EN 1999 1-1 | 2.4mm/m at 100 °C temperature difference |
| Surface                 |             | PVDF/FEVE                                |
| Gloss                   | EN 13523-2  | 25-40 GU*                                |
| Coating Thickness**     | EN 13523-1  | 28-45µm                                  |
| Fire Classification     | EN 13501-1  | A1                                       |
| Electrical Resistivity  |             | 70.7 µΩ.m @20°C                          |
| Electrical Conductivity |             | 67 MS/m @20°C                            |
| Sound Absorption        |             | 0.05 NCR                                 |
| Sound Reflection        |             | 95%                                      |

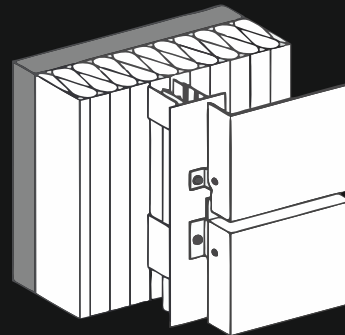


## Recommended Standard Fixing Systems

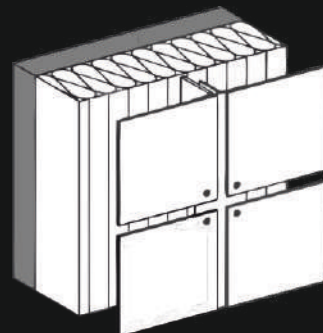
*Hook-on Bolt*



*Try Panel*



*Riveted*



*To make the installation tension-free please consider fixed and sliding points due to the expansion aluminum (2.4mm/m at 100 °C)*

## Fabrication

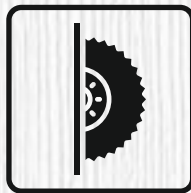
**Reynoarch Solid Aluminum Panel (SAP) can be fabricated into panels using various sawing, routing and drilling techniques. For best results it is recommended that:**

- **The right equipment is used according to the manufacturer's instruction manual.**
- **Drill bits and blades selected are intended for use with aluminium.**



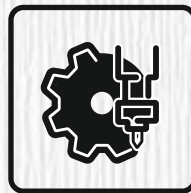
**Circular Saw**

For best results, a track guided circular saw is recommended. Hand folding is achievable without a requirement for bending equipment.



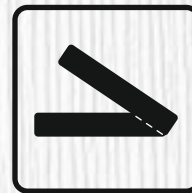
**Vertical Panel Saw**

Use for cutting and routing sheets. When creating a V groove for folding, the minimum thickness left in the bottom of the groove should be 0.7mm.



**CNC Router**

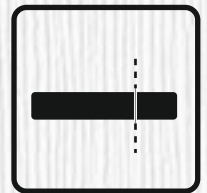
Used for straight and contour cutting along V Grooving for folding. When creating a V groove for folding, the minimum thickness left in the bottom should be 0.7mm.



**Folding**

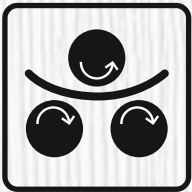
After the V groove has been formed, fold the return leg back in one movement.

A portable folding tool for small panels and a folding machine for larger panels is recommended.



**Shearing**

Reynoarch Solid Aluminum Panel (SAP) can be guillotined to the required size.



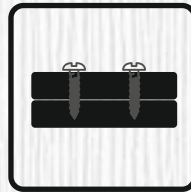
**Roll Bending**

To create curved surfaces, use a suitable bending machine. In order to minimise damaging the material use a protective film. Ensure rollers are clean and dent free.



**Drilling**

A high quality HSS centre point drill bit is suitable for drilling Reynoarch Solid Aluminum Panel (SAP).



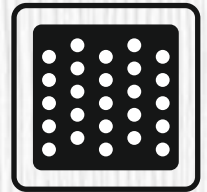
**Fixing**

Blind and solid rivets along with stainless steel screws can be used to secure Reynoarch Solid Aluminum Panel (SAP). Always consider the effects of thermal expansion and potential building movement.



**Welding**

TIG and MIG welding are common welding methods used on Reynoarch Solid Aluminum Panel (SAP). Consult with your local welding specialist for advice.



**Perforating**

Reynoarch Solid Aluminum Panel (SAP) can be perforated by punching, drilling or milling.



## Product Availability

Reynoarch SOLID aluminium panels are available in following standard stock sizes:

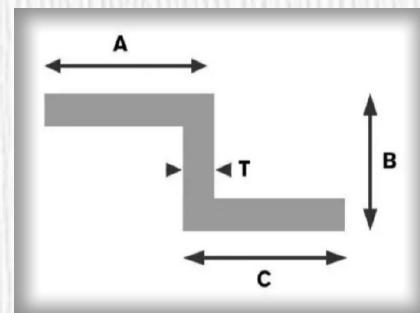
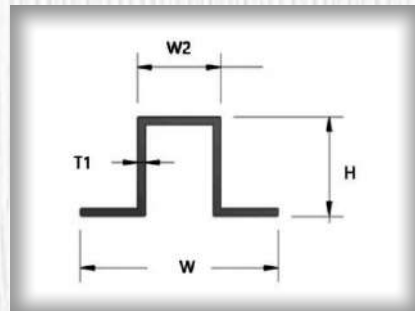
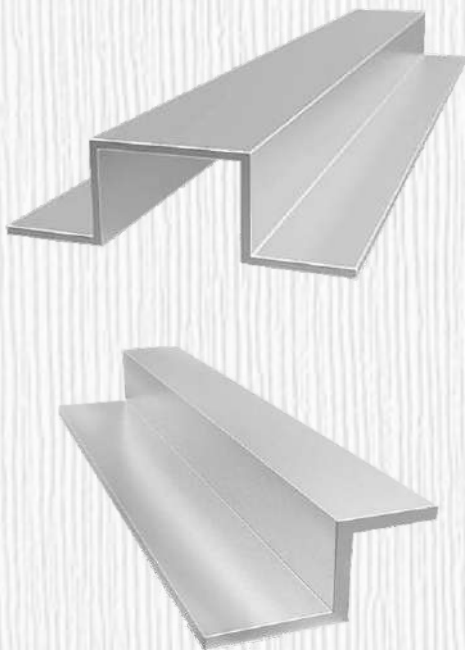
- 2500mm x 1250mm
- 2500mm x 1575mm
- 3200mm x 1250mm
- 3200mm x 1575mm
- 4000mm x 1250mm
- 4000mm x 1575mm

\*Custom sizes and finishes are also available upon request. All sizes are in mm.

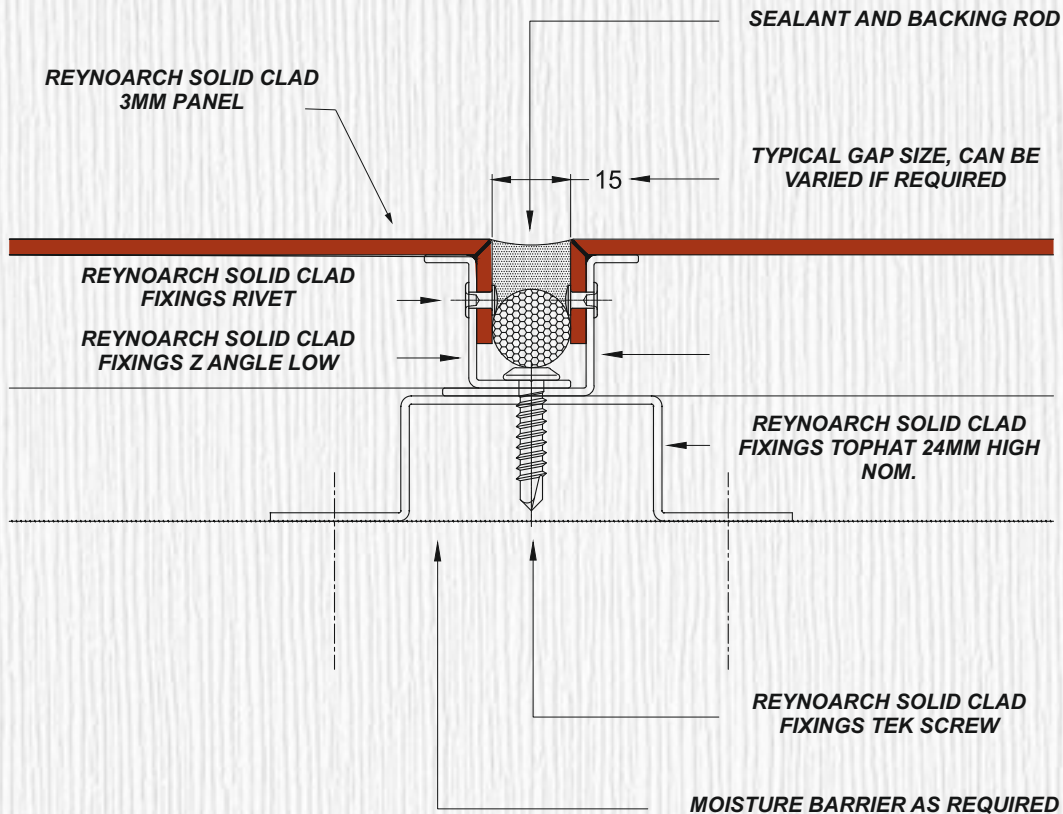
Reynoarch SOLID aluminium panels are also available in Mill finish in various sizes and material grades.

## Accessories Top Hats & Z Sections

Aluminium Facade systems offer a full range of Accessories such as top hats and male and female Z sections, please contact your Reynoarch representative for details.



## Fixing Details



For more information please refer to the Reynoarch SOLID aluminium panels Technical Information.

## Cleaning and Maintenance

*Annual cleaning is recommended. The surfaces should be cleaned either manually using a soft brush or by means of high-pressure cleaner (maximum 50 bar) with clean water. If necessary, a mild cleaning agent (pH 6 – 7) may be added, up to maximum 10%. Cleaning should take place from top to bottom. After cleaning, rinse with water to remove any cleaning agent residue.*

*Do not clean surfaces heated by the sun (> 40 °C).*



# SOLIDCLAD



*Reynobond Industries is a manufacturer and supplier of various types of aluminium materials. Our main products are different types of solid aluminium panels, honeycomb panels, sandwich panels & aluminum composite panels.*



## REYNOARCH<sup>®</sup>

### REYNOBOND INDIA

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#### CUSTOMER CARE

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### BRANCHES

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BANGALORE : 9311733237

BHUBANESWAR : 9311622660

CHENNAI : 9311733233

DELHI : 7428796919

GURUGRAM : 9319088569

GUWAHATI : 9289901740

HYDERABAD : 9311733236

HUBLI : 9311733241

INDORE : 9311811650

JAIPUR : 7428090125

KOCHI : 9311733248

KOLKATA : 7428697590

LUCKNOW : 7428586872

NOIDA : 9311811653

PATNA : 9311622662

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RAIPUR : 9319088575

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