1 GENERAL INFORMATION OF STAINLESS STEL SKIN

1.1 PRODUCT DESCRIPTION

Vitrabond/SS & Vitrabond/SA - Stanless Steel Composite panel

1.2 PRODUCT SPECIFICATION

1. Alloy SUS304L : Density : 7.93kg/mm3
   Chemical Composition : 18Cr-8Ni
   Available width : 1,000mm~1,219mm
2. Alloy SUS316L : Density : 7.98kg/mm3
   Chemical Composition : 18Cr-12Ni-2.5Mo-LC
   Available width : 1,000mm~1,219mm

1.3 FINISHED DESIGN

1. BA : Bright Annealed Thk : 0.3mm~1.5mm
   : A product that has undergone cold rolling. Bright annealing and skin pass.
   Its surface is highly reflective and lnstrous.
2. HL : Hairline Thk : 0.4mm~1.5mm
   : A product with continuous abrasive pattern acquired on 150~180 mesh abrade.
   [Guide Note: For Composite panel, only this colored skin can be applied due to back skin's treatment for PE adhesive].

2 PECIFICATIONS OF VITRABOND/SS – STAINLESS STEEL COMPOSITE PANEL

Vitrabond/SS brings a modern feel to any environment and provides a superb contrast to wood and other natural elements. It offers extreme formability at a weight much lighter than traditional plate steel.

2.1 PERFORMANCE & APPLICATION

1. Stainless steel allows designers to capture a clean and bold look with a modern feel, providing a contrast to other materials in almost any environment.
2. Compared with stainless steel plate, stainless steel composite offers increased formability and lighter weight, greatly expanding design possibilities and facilitating installation and handling.
3. Stainless steel is a neutral metal and can be installed with fasteners and extrusions made of aluminum, stainless steel, or galvanized steel.
4. Vitrabond/SS utilizes heavier gauge sheet compared to competitive stainless steel composite products, giving it greater dent resistance and making it more suitable for areas prone to hail storms or heavy pedestrian traffic.
5. Due to the extreme toughness of stainless steel, special fabrication guidelines need to be taken into consideration.

2.2 THE COMPOSITION OF VITRABOND/SS

- Front : 0.3mm SUS304/SUS316L Stainless Steel (Pattern: BA, #4) or 0.4mm SUS304/SUS316L Stainless Steel (Pattern: HL).
- Core : 3.2mm/3.4mm PE(LDPE) or Fire Retardation Mineral Core.
- Bottom : 0.3mm SUS304/SUS316L Stainless Steel (Pattern: BA, #4) or 0.5mm Polyester Service Coated Aluminium (A3003 H14).

2.3 DIMENSION OF VITRABOND/SS

- Thickness: 3mm, 4mm (Standard), 6mm
- Width: 1,000mm (Standard) - Length: max. 5,000mm (approx. 3,000mm ~ 4,000mm is recommended)
- Product Tolerance
    - Thickness: ±0.2mm for 3mm, 4mm, ±0.3mm for 6mm.
    - Width: ±2.0mm
    - Length: ±4.0mm

2.4 PHYSICAL CHARACTERISTICS OF VITRABOND/SS

Flatness	mm	0.1	KS F 4737:2003
Resistance of Contamination	Grade	5	
Tensile Strength	N/mm²	86.3	
Elongation	%	63.67	
Flexural Strength	N/mm²	139.20	
Peel load of Adhesives	N/25mm	109.33	

2.5 CEANING

Vitrabond/SS is highly rust resistant. Rust is in most cases caused by cohesion of harmful components such as floating metal particles, a detrimental component from exhaust gas and a salty component in coastal area. We have to remove these components from the Vitrabond/SS surface with periodic cleaning.

2.6 GENERAL NOTES

- Optical difference by direction

Vitrabond/SS shows optical difference between directions as metallic-paint colours do. Therefore, it is important to arrange Vitrabond/SS in the same direction to avoid the optical (colour) difference.

- Colour variation among production lots

It is possible that the colour of Vitrabond/SS slightly varies among production lots and the inconsistent colour is visible after installation. This is caused by the slight colour difference between stainless steel coils. In order to prevent this problem, we recommend placing the total requirement in one order or allotting the panels with a grouping arrangement.