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What is stucco embossed finish?

A stucco embossed finish is achieved by processing the natural mill finish material through embossing rollers. This provides a surface, which diffuses light reducing reflectivity and glare. It is used for applications on decorative effects, or to reduce surface reflectivity. As aluminium is both a stable and durable material, it provides excellent service as a roofing or cladding without the need of any protective coating. Aluminiums highly reflective surface will dull to a uniform patina finish with prolonged exposure to the sun, wind and rain bome sand and dirt. Changes in appearance will be consistent along an elevation.

Embossed aluminum sheet, after the process of embossing, cutting, oxidation will form the surface with a dense layer of aluminum oxide protective film. And It has obvious below advantages such as acid-corrosion-resistance, long-lasting shine, beautiful patterns, anti-corrosion performance and stability, strong adhesion, impact resistance, non-toxic side effects, safety and environmental protection. With above characteristics, surface of stocco embossed aluminium is clean, shiny. Besides, the electro-oxidation can effectively remove residual oil and manual handling of fingerprints.

Embossed aluminium sheet are widely used in refrigerator, solar heat reflectors, decorative aluminum products, lamps, bags, disinfection box, air conditioning, ventilation ducts, indoor & outdoor decoration, machinery and equipment housing and other industries. Embossed finish can enhance the thickness and strength of aluminum.



Product Introduction

01) Alloy: A1050, A1060, A1070, A1100, A3003, A3105 etc

02) Aluminum thickness: 0.25mm~2.0mm

03) Aluminum standard width: 1200mm Max width: 1500mm

The embossed oxidized panel is beautiful, with thickness from 0.25mm to 2.0mm, while the maximum width is 1500mm, after pattern embossed, the thickness could be 0.08 to 0.25mm more. Additionally, we offer processing service for anodizing aluminum sheet, which could further strength sheet's ability of anti-corrosion.

Pattern: Rhombic veins, orange peel veins, diamond veins, five-rib veins etc.

Product Specifications

Alloy	Temper (Base material)	Specification (mm)				
		Thickness (Base material)	Width	Length	Embossing depth	Surface Treatment
1050 1100 1060 1070 3003 3105	0, H12, H14, H16, H18, H22, H24, H26, H32	0.25~2.0	≤1500	As per customer's requirements	0.08~0.25	Mill Finish, bright finish, anodized, color coated
Tolerance						

Thickness (Base material)	Thickness	Embossing depth	Width	Length	Diagonal
0.25-0.50	0-0.05	+/-0.01	+/-0.5	+/-1.0	+/-1.5
>0.50-2.00	0-0.10	+/-0.02	+/-1.0	+/-1.5	+/-2
Remark: We can produce as per customers' special requirements					

Chemical Composition

Chemical Composition													
Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ca	V	Ti	Other	Min.A1
1050	0.25	0.4	0.05	0.05	0.05	-	-	0.05	-	0.05	0.03	0.03	99.5
1060	0.25	0.35	0.05	0.03	0.03	-	-	0.05	-	0.05	0.03	0.03	99.6
1070	0.25	0.25	0.04	0.03	0.03	-	-	0.04	-	0.05	0.03	0.03	99.7
1100	0.95	0.95	0.05-0.2	0.05	-	-	-	0.1	-	-	-	0.05	99
3003	0.6	0.7	0.05-0.2	1.0-1.5	-	-	-	0.1	-	-	-	0.15	96.95-96.75

Mechanical Performance

- Embossed aluminium sheet's mechanical performance in room temperature should accord with GB/T8544-1997
- Appearance Clear Texture, Smooth edges no burrs. There can't be defects such as split, erosion and holes on the surface which effect using.

Application Instruction

Stucco aluminum coils/sheets are usually used in refrigerators, air conditioners and refrigeration equipment, and pipe insulation, the products have good thermal conductivity, heat dissipation due to the special nature of the pattern. Such materials are widely used in the fields of refrigerator, wine cabinet, solar panel, decorative aluminium product, lighting fixture, lighting box, sanitizer, kitchen cabinet and central air conditioning system.

At present, in the refrigeration industry, the 3003 series of rust-proof aluminum coil are widely used; In pipe insulation and packaging 1000 series are widely used.



