



Excellent torsion strength
With varieties of advanced equipment and strict control, BE-WIN brand panel features high strength with excellent torsion strength and bending strength under heavy loads, and also excellent weather resistance.

Easy processing and installation
BE-WIN panel is easy to process for its light weight (3.5-5.5 kg/sqm). All cutting, milling, planing, slotting, side-folding and curving can be easily fulfilled by simple tools used for processing timber and metal. Both indoor and outdoor decoration can be implemented simultaneously so as to raise working efficiency and short working time.

Outstanding characteristics of fireproofing
BE-WIN brand fireproof aluminum plastic panel fulfills the requirement of fireproof due to the usage of modified polyvinyl plastic interlayer in between without toxicity and covering of unflamable aluminum layer at two sides. The ability of fireproof is higher than index requirement of grade B1. It is a safe fireproofing material and fully meets the fireproofing requirement specified in building code.

Specification
1220(width) * 2440(length) * 3(thickness)MM
1220(width) * 2440(length) * 4(thickness)MM

Usual color
30 kinds

Special size
Also available

Special color
Many kinds meets your request

- Application**
1. Wall curtain
 2. Repaired building
 3. Dado, separation wall
 4. Advertising plate, show plate form

Excellent impact resistance
It features good impact resistance, toughness, bending rigidity, it will be damaged when its suffering from sand blown by wind.

Excellent weather resistance
BE-WIN panel coated with fluorocarbon (PVDF) resin, it features good lightness, strong adhesion and alkali resistance, powdering resistance of ultraviolet light. It can be used for 20 years without fade.

Even coating & various color
Dealing with the surface of aluminum material and with the application of Henkle technology, it makes the paint and panel stamped with a very strong even force and various color for your choice.

Easy to maintain
BE-WIN brand panel, it performs well in pollute resistance. The panel needs to maintain and clean after several years use. Only neutral cleanser and water needed for its self-clean performance. It looks like before after cleaning.



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CHARACTERISTICS:

Characteristics of plastic-aluminum composite panels BE-WIN

| Testing item | Standard | Result |
|--------------------------------|------------------------|--|
| Unit weight | ASTM D1654a GB/T 17748 | t3mm=4.6kg/m ² t4mm=5.5kg/m ² |
| Outdoor temperature resistance | ASTM D1654a GB/T 17748 | No abnormality |
| Thermal expansion | ASTM D696a GB/T 17748 | 24-28 |
| Thermal conduction | ASTM 976a GB/T 17748 | 0.102 kcal/mhr |
| Flexural rigidity | ASTM C393a GB/T 17748 | 14.0x10 ⁴ kg/mm ² |
| Impact resistance | ASTM D732a GB/T 17748 | 1.650 kgf |
| Adhesive strength | ASTM D903a GB/T 17748 | 0.78 kg/mm |
| Sound-insulating rate | ASTM E413a GB/T 17748 | 25 |
| Flexural Elasticity | ASTM D790a GB/T 17748 | 4055kg/mm ² |
| Shear resistance | ASTM D732a GB/T 17748 | 2.6kg/mm ² |
| Minimum bending radius | ASTM D790a GB/T 17748 | 45mm,70mm |
| Fire propagation | ASTM E84a GB/T 17748 | B1 |
| Smoke developed | ASTM E84a GB/T 17748 | <45 |
| Wind-pressure resistance | ASTM E330a GB/T 17748 | Passed |
| Properties against water | ASTM E331a GB/T 17748 | Passed |
| Properties against air | ASTM Ee283 aGB/T 17748 | Passed |

Characteristics of plastic-aluminum composite panels BE-WIN after drawing a covering:

| Testing item | Standard | Result |
|--------------------------|-------------------------------------|------------------------|
| Finish coat thickness | ISO 2360/15 84/GB/T 17748 | 30-5 μm |
| Gloss | ASTM D532-89 GB/T 17748 | 80-5% |
| Pencil hardness | ASTM D3363-74/GB/T 17748 | 2H |
| Toughness | ASTM D4145-89 GB/T 17748 | 2T no rift |
| Adhesive force | ASTM C359-87 GB/T 17748 | 100/100 no peel |
| Impact resistance | ASTM D2794 GB/T 17748 | No crack |
| Abrasion resistance | ASTM D968-81 GB/T 17748 | 50-80 KTR No Crack |
| Mortar resistance | ASTM G652-90 GB/T 17748 | 24 Hrs pat test exceed |
| Humidity resistance | ASTM D714-87 GB/T 17748 | 3000hr No blister |
| Boiling-water resistance | ASTM D2247-87 GB/T 17748 | Passed |
| Salt-spray resistance | ASTM D117-94 GB/T 17748 | 3000hr No blister |
| Acid resistance | ASTM D1308-87 GB/T 17748 | No effect |
| Alkali resistance | AAMA 6052-91, TEST# 7.31 GB/T 17748 | Passed |
| Solvent resistance | ASTM D2248-73 aGB/T 17748 | Passed |
| Color retention | ECCA T5&NCA ND11-18 GB/T 17748 | E<5 |
| Chalk resistance | ASTM D4214-89 GB/T 17748 | Max value 8 unit |
| Gloss retention | ASTM E2244-85 GB/T 17748 | 90% |

