DECORATIVE BOARDS

U-BOARDS

Decorative Boards System
1. Wall Foundation
2. Plaster Layer
3. Adhesive Layer
4. Z Fastener
5. Insulation Board
6. U-Boards®
7. Stone Finishing
8. Backing Rod + Sealant
UV Multicolor Grain Decorative Board
UV Wood/Stone Grain Decorative Board is made from high density fiber cement board. The surface of the plate is coated with UV multicolor painting of any stone pattern, as smooth as mirror. The board is non-combustible, 100% non-asbestos and non-formaldehyde.

UV Coating Decorative Board
UV Coating Decorative Board is made from fiber cement board. The surface of the plate is coated with UV single color painting. The board is non-combustible, 100% non-asbestos, non-formaldehyde. The surface is treated with special waterproof treatment to decrease the possibility of surface pollution.

Fluorocarbon Coating Decorative Board
Fluorocarbon coating decorative board is made from high density fiber cement board. The surface of the plate is coated with fluorine resin. The major coating material has a service duration of 25 years. It is steadier having better properties than other paints.

Applications:
Can be used in the thermal insulation decoration of high-grade building’s interior wall such as big markets, shopping malls, starred hotels, office buildings and industrial exhibition halls, etc. It is suitable for hospitals, schools, libraries and other building having a high requirements for fireproofing and noise control. It can be used for refurbishment and repairing of old buildings interior wall.
**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>1200 x 2400/1220 x 2440mm</td>
</tr>
<tr>
<td><strong>Thickness</strong></td>
<td>4 mm, 6mm, 9mm, 10mm, 12mm, 16mm</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>&gt; 1200 kg/m²</td>
</tr>
<tr>
<td><strong>Corrosion resistant</strong></td>
<td>&gt; 3000 hours in salt fog test</td>
</tr>
<tr>
<td><strong>Hardness</strong></td>
<td>&gt; 0.8</td>
</tr>
<tr>
<td><strong>Impact strength</strong></td>
<td>7.1 Kg/m² (8mm)</td>
</tr>
<tr>
<td><strong>Adhesion bond strength</strong></td>
<td>7.9 Kg/m² (10mm)</td>
</tr>
<tr>
<td><strong>Screws withdraw strength</strong></td>
<td>0.9-1.0N</td>
</tr>
<tr>
<td><strong>Fire resistance</strong></td>
<td>up to 2 Hours (ASTM E84, E119, BS EN 12467, part 4, part 7, part 22)</td>
</tr>
<tr>
<td></td>
<td>up to 3 hours according to BS Class A 476, part 6 -part 7 (Upon Request)</td>
</tr>
<tr>
<td><strong>Thermal conductivity at 50°C</strong></td>
<td>≤0.21/W.mK</td>
</tr>
<tr>
<td><strong>Service temperatures</strong></td>
<td>-40-140 °C</td>
</tr>
<tr>
<td><strong>Sound insulation</strong></td>
<td>27db (6mm)</td>
</tr>
<tr>
<td><strong>Service Duration</strong></td>
<td>25 years</td>
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</tbody>
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* Different sizes are available upon request.

**SUPERIOR PERFORMANCE:**

1. **Excellent Fire-Resistance Property**
   
   U-Boards are a fireproof board, 9mm reach up to 2 hours fireproofing

2. **Superior Weathering Resistance**
   
   Corrosion resistance and Ultraviolet fight chalking resistance

3. **Easy Installation and Maintenance**
   
   Cutting and planning, can be done by some simple woodworking tools. flexible for designers as the installation work is easy, fast and cost saving.

4. **Coating & Diversified Colors**
   
   With chemosynthesis treatment and film technology, the adhesion between the paint and panel becomes evener, having multiple colors. There is more space for your choice to the color with individuality.

5. **Impact Resistance**
   
   Strong impact resistance and toughness. The coating layer cannot be crashed when it’s bent. The panel cannot be damaged when in a strong windy and sandy condition.

6. **Sound and thermal insulation.**
**CUTTING AND SAWING**
Use normal wood working tools such as traditional handsaw. For shaped cuts, use a pad saw, keyhole saw or circular saw. Work with the face upwards and support the board as cutting process progress. For power sawing, use a carbide or diamond tipped blade.

**DRILLING**
Use a hand drill or conventional hand held drill with high steel bits. Always support the board firmly behind the whole location when drilling. Large holes can be with a tungsten carbide tipped hole drilling socket or by drilling a series of pilot holes and gently tapping out the center with a hammer.

**PLANNING AND SANDING**
Edges of the board can be planned or smoothed with plan, rasp or file. Sand with conventional papers.

**CONCRETE NAILS**
Concrete nails can be driven directly through the board without pre-drilling provided that they are at least 12mm from board edges. Galvanized wire nails are recommended. Do not use lost head nails or panel nails.

Fixing guides: From edge: 12mm minimum, from corner: 40mm minimum compressed air nailing or stapling equipment offers a fast and economical fixing method where large numbers of fixing are required or where production line techniques are being employed.

The nail/staple manufacturers recommendations should be followed when selecting nail/staple types. Test the equipment and adjust the air pressure each time before commencing nailing operations.

**FIXING**
Boards shall be supported on all four edges and intermediate positions at centers not exceeding 610mm. Joints between boards should occur on the centers of the supports. Rust-proofing fixings should be used for all external applications or where conditions of high humidity or dampness are anticipated.

**SCREWING**
When screwing, do not countersink 6mm boards. Pre-drilling is not necessary. Use wood or self-tapping screws, screws should be at minimum 12mm from board edges and 50mm from board corners.

**JOINTING**
The stability of the boards allows butt joint to be used. Alternatively, board can be slightly apart and filled. Joints and crews holes can be filled and sanded to a smooth flat surface.

**PAINTING**
Conventional paints can be used. With water based paints, a diluted first coat should be used. For oil based paints, always use the proprietary primer/top coated systems as recommended by the paint manufacturer.
**TILING**

Minimum 9mm thick boards should be used with textured side out. Supports should be at 400mm centers maximum with cross noggins at traverse board joints. Countersink corrosion resistant screws should be used to fix the boards at 200mm centers. Tiles should be adhered to the board by proprietary adhesive in strict accordance with manufacturers’ recommendations.

**COMPATIBILITY**

Boards are compatible with most common building materials, non-caustic and is resistant to corrosion, will not affect bituminous compounds; should be protected when in contact with un-anodized aluminum.

**HANDLING AND STORAGE**

**BOARDS LIFTINGS**

Always lift boards off the board below, never slide board on board or drag the stack.

**PROPER HANDLING**

Always carry the boards vertically on it’s edge. Do not stock on edge.

**INCORRECT HANDLING**

Never carry the boards horizontally. This may cause the board to be easily broken.

**STORAGE**

Boards should be stored under cover or in closed area on a flat base. If stored in an open area, the stack should be fully protected from weather conditions. If stored on racks, boards should be fully supported across the width.

**STACKING**

Boards are stacked a max of 900mm high on firm level ground. If two or more pallets are stacked, the stack height should not be over 3200mm.
Walls, Interior and Exterior - Steel Studs

- cement panel
- adhesive or latex-fortified mortar
- 6 mm gap
- caulk
- tub rim
- leveling guide
- precast concrete shower base

Fixture Attachment — Steel Framing

- pan head screw
- steel runner
- steel framing member
- pan head screw
- steel framing members—misc. gauge and depth
Use joint treatment system and sealer for finishing to gypsum board joints in painted areas.

Typical bathtub installation:
- **Tile Backer Screws** for Steel Framing
- **Hot-Dip Galvanized Roofing Nails**
- **Resistant Tape**

In tiled areas, treat board joints by embedding tile backer tape in tile setting material.
Typical swimming pool installation (tile or exterior finish)

- Backer tape
- Tile backer tape embedded in exterior basecoat
- Water barrier
- Screws
- Exterior finish
- Exterior basecoat
- Tile setting mortar
- Panel

In tile areas treat joints by embedding tile backer tape in tile setting material.

- Wood or metal studs
- Tile backer tape
- Panel
- Adhesive or latex-fortified mortar

Use joint treatment system and sealer for finishing to gypsum board joints in painted areas.

In tiled areas, treat board joints by embedding tile backer tape in tile setting material.
### 1. SYSTEM PERFORMANCE

U-Boards® systems. Our products shall not be used in a design or construction of any given structure without complete and detailed evaluation by a qualified structural engineer or architect to verify suitability of a particular product for use in the structure. Information in this publication should be used only for U-Boards® systems, as physical properties of competitive products may vary. U-Boards® assumes no liability for failure resulting from the use of alternative materials or improper application or installation of U-Boards® systems as specified herein.

### 2. EXPANSION AND CONTRACTION

Wall surfaces should be isolated with surface control joints (sometimes referred to by the industry as expansion joints) or other means where: (a) a wall abuts a structural element or dissimilar wall or ceiling; (b) construction changes within the plane of the wall; (c) tile and thin brick surfaces exceed 4.8m. Surface control joint width should comply with architectural practices. Location of building control joints is the responsibility of the design professional/architect. Steel framing at building control joints that extend through the wall (with top and bottom runner tracks broken) should have 1-12 mm cold-rolled channel alignment stabilizers spaced a maximum of 1.5 m vertically. Channels should be placed through holes in the stud web of the first two adjacent studs on both sides of the joint and securely attached to the first adjacent stud on either side of the joint. Cement board should be separated at all surface and building control joints. Where vertical and horizontal joints intersect, the vertical joint should be continuous and the horizontal joint should abut it. Splices, terminals and intersections should be caulked with a sealant complying with architectural practices and sealant manufacturer recommendations. Do not apply tile or finishes over caulked sealed expansion joints.

### 3. WATER MANAGEMENT

U-Boards® is vapor permeable and does not deteriorate in the presence of water. For interior applications, if a vapor retarder or waterproof construction is specified, a separate barrier shall be applied over or behind the U-Boards®.

### 4. SMOOTH SIDE/ROUGH SIDE

U-Boards® has a smooth side and a rough side. Although both sides of U-Boards® are suitable for either mastic or thin-set mortar applications, as a general guide, use the smooth side for mastic applications and the rough side for mortar applications.

### 5. SHADOWING AND SPOTTING

When the outside temperature differs considerably from the building’s interior temperature, airborne dirt can accumulate on the colder regions of walls, causing “shadowing” or “spotting,” particularly over fasteners and framing. This is a natural phenomenon that occurs through no fault in the products. Where temperature, humidity and soiling conditions are expected to cause objectionable blemishes, provide a thermal separation between the interior and exterior faces.
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