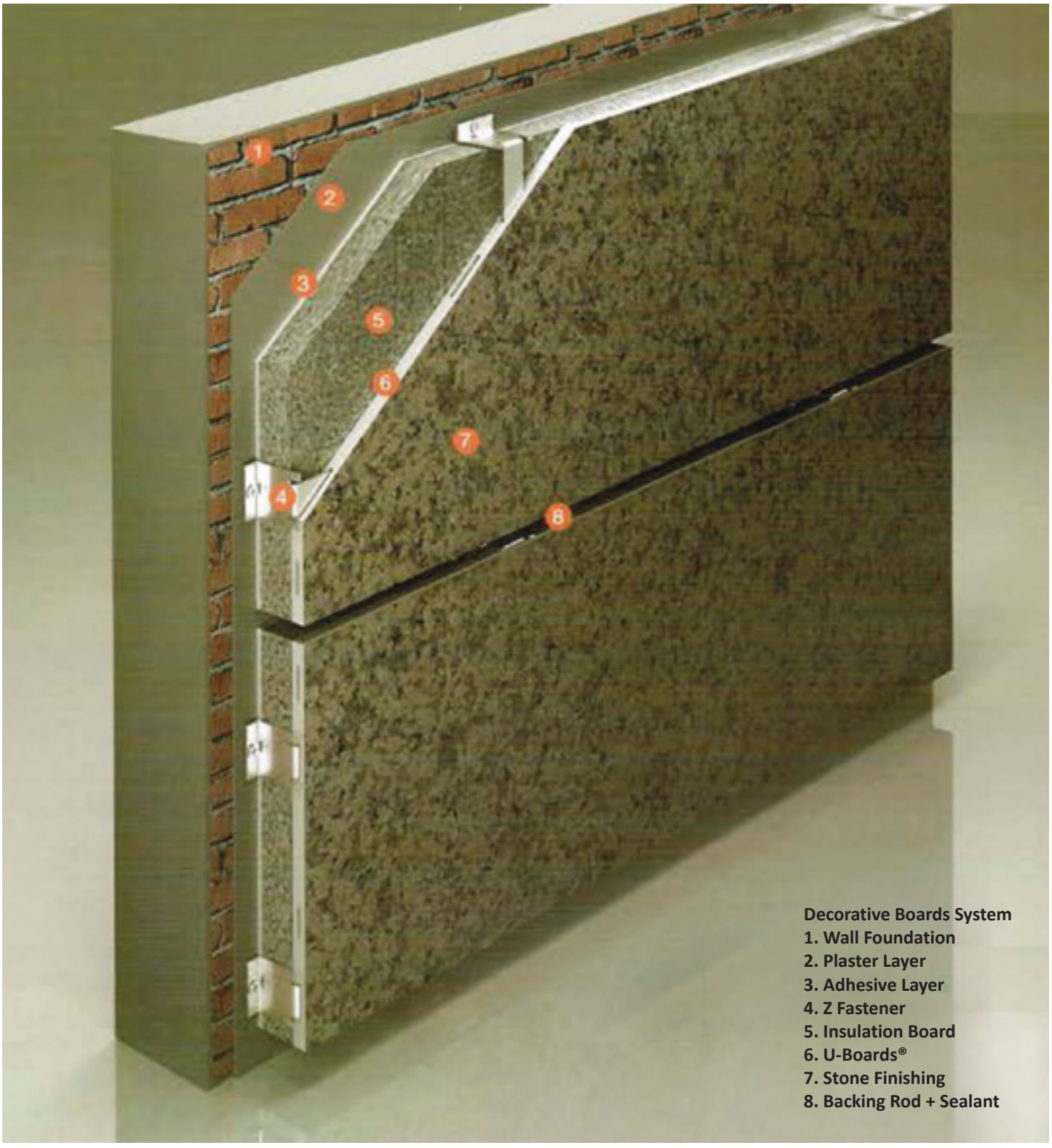
DECORATIVE BOARDS

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

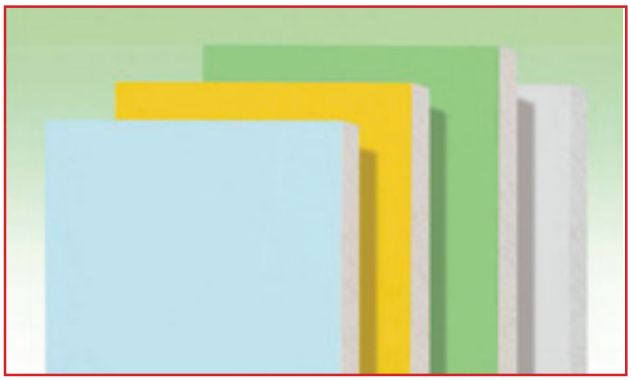
UV MULTICOLOR GRAIN DECORATIVE BOARD

UV 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

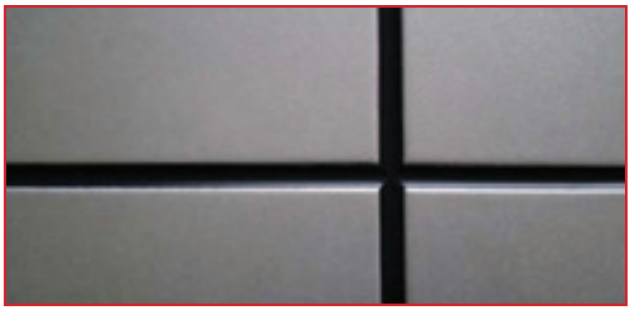
UV Coating Decorative Board is made from fiber cement board. The surface of the plate is coated with UV single color painting. The board is non-combustible, 100% non-asbestos, non-formaldehyde. The surface is treated with special waterproof treatment to decrease the possibility of surface pollution.



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

Size	1200 x 2400/1220 x 2440mm
Thickness	4 mm , 6mm, 9mm, 10mm. 12mm ,16mm
Density	> 1200 kg/m^2
Corrosion resistant	> 3000 hours in salt fog test
Hardness	> 0.8
Impact strength	7.1 Kg/m^2 (8mm)
Adhesion bond strength	7.9 Kg/m^2 (10mm)
Screws withdraw strength	0.9-1.0N
Fire resistance	up to 2 Hours (ASTM E84, E119, BS EN 12467 , part 4, part 7, part 22)
	up to 3 hours according to BS Class A 476 , part 6 -part 7 (Upon Request)
Thermal conductivity at 50 0C	≤0.21/W.mK
Service temperatures	-40-140 ^{0}C
Sound insulation	27db (6mm)
Service Duration	25 years

* 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.

ASSOCIATED EQUIPMENTS FOR U-BOARDS' INSTALLATION

CUTTING AND SAWING

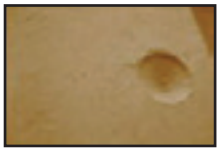
Use Normal wood working tools such as traditional handsaw. For shaped cuts, Use a pad saw, keyhole saw or circular saw. Work with fair face upwards and support the board as cutting process progress. For power sawing, use a carbide or diamond tipped blade.

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 manufactures 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

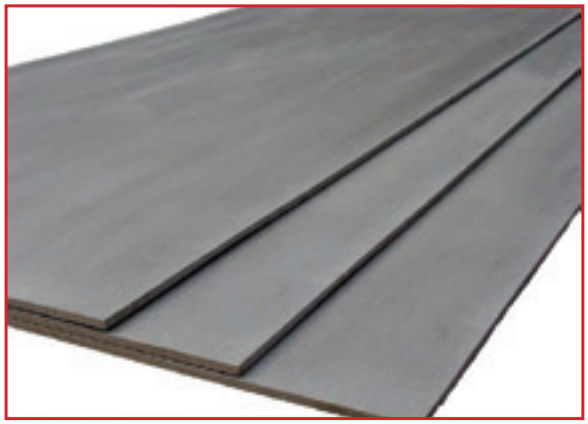
Never carry the boards horizontally. This may cause the board to be easily broken.

STORAGE

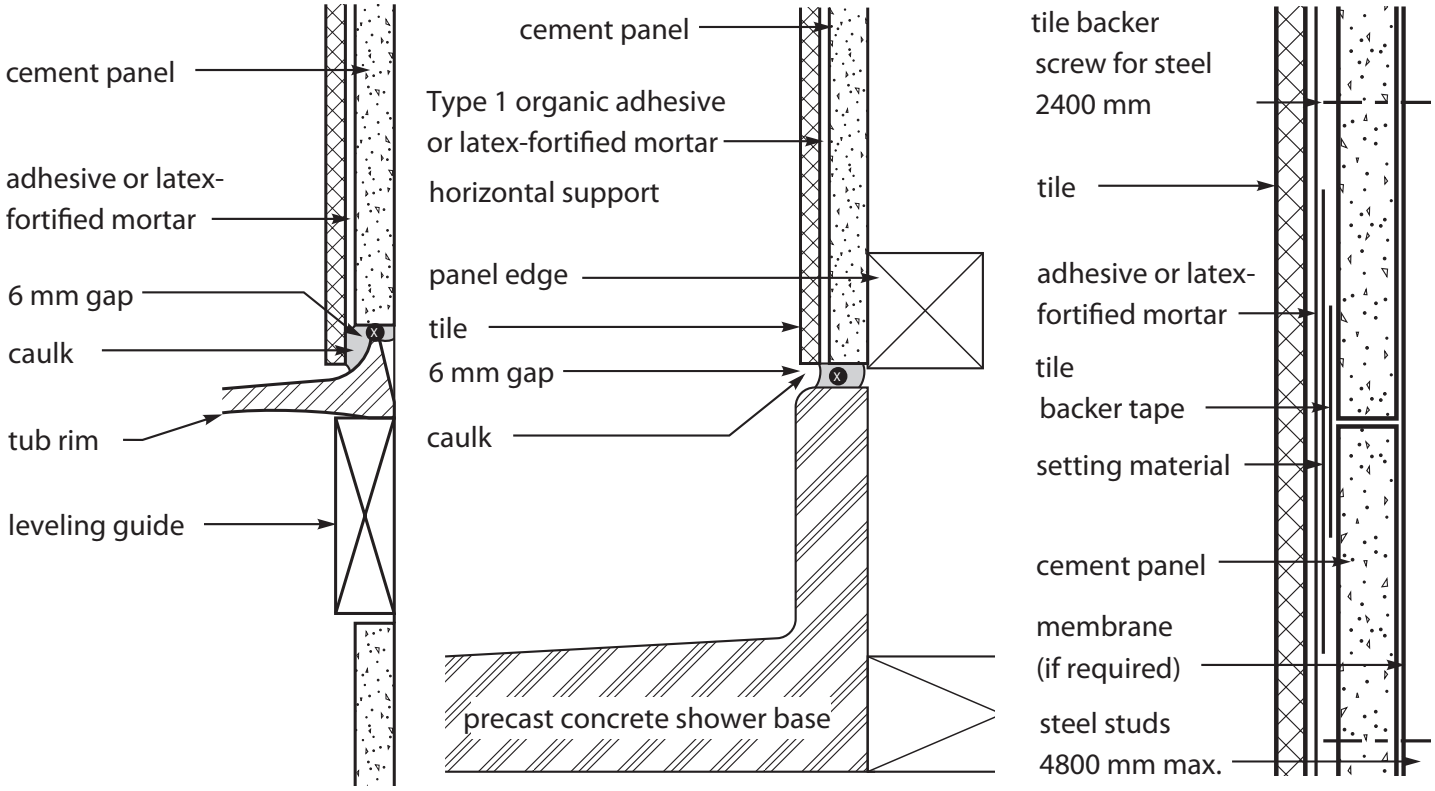
Boards should be stored under cover or in closed area on a flat base. If stored in an open area , the stack should be fully protected from weather conditions. If stored on racks, boards should be fully supported across the width.

STACKING

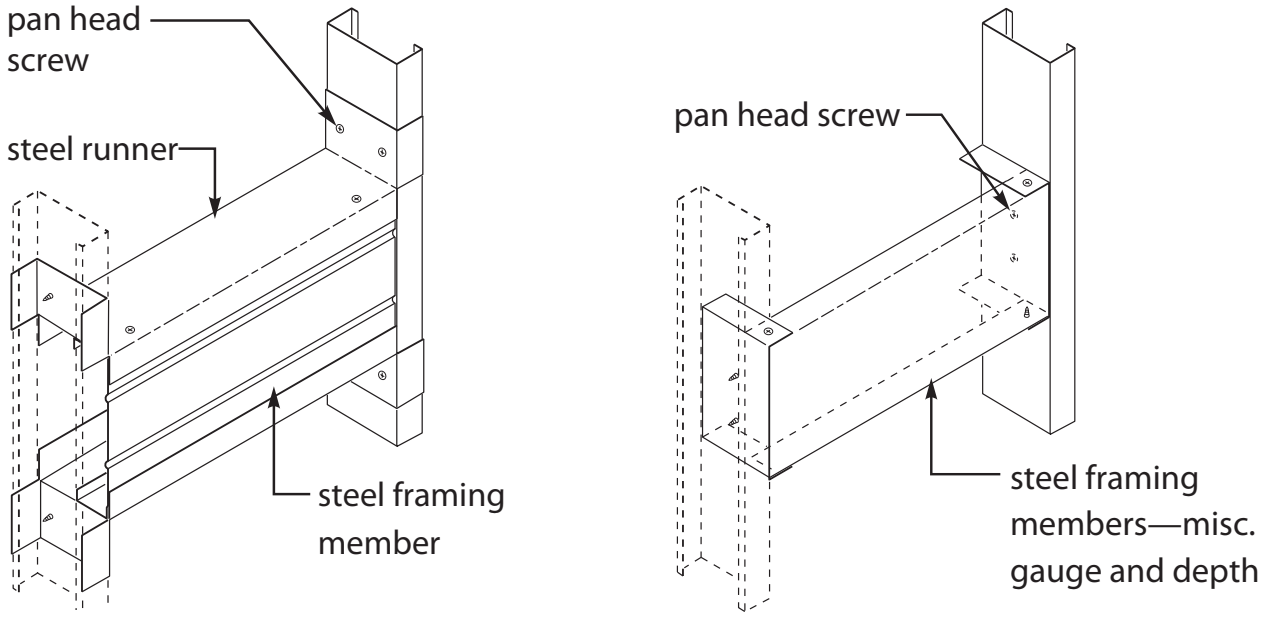
Boards are stacked a max of 900mm high on firm level ground. If two or more pallets are stacked, the stack height should not be over 3200mm.



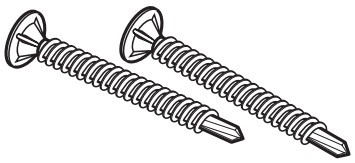
Walls, Interior and Exterior - Steel Studs



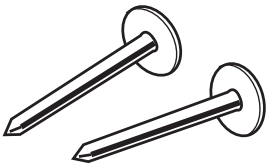
Fixture Attachment — Steel Framing



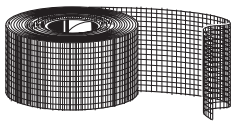
Tile Backer Screws for Steel Framing



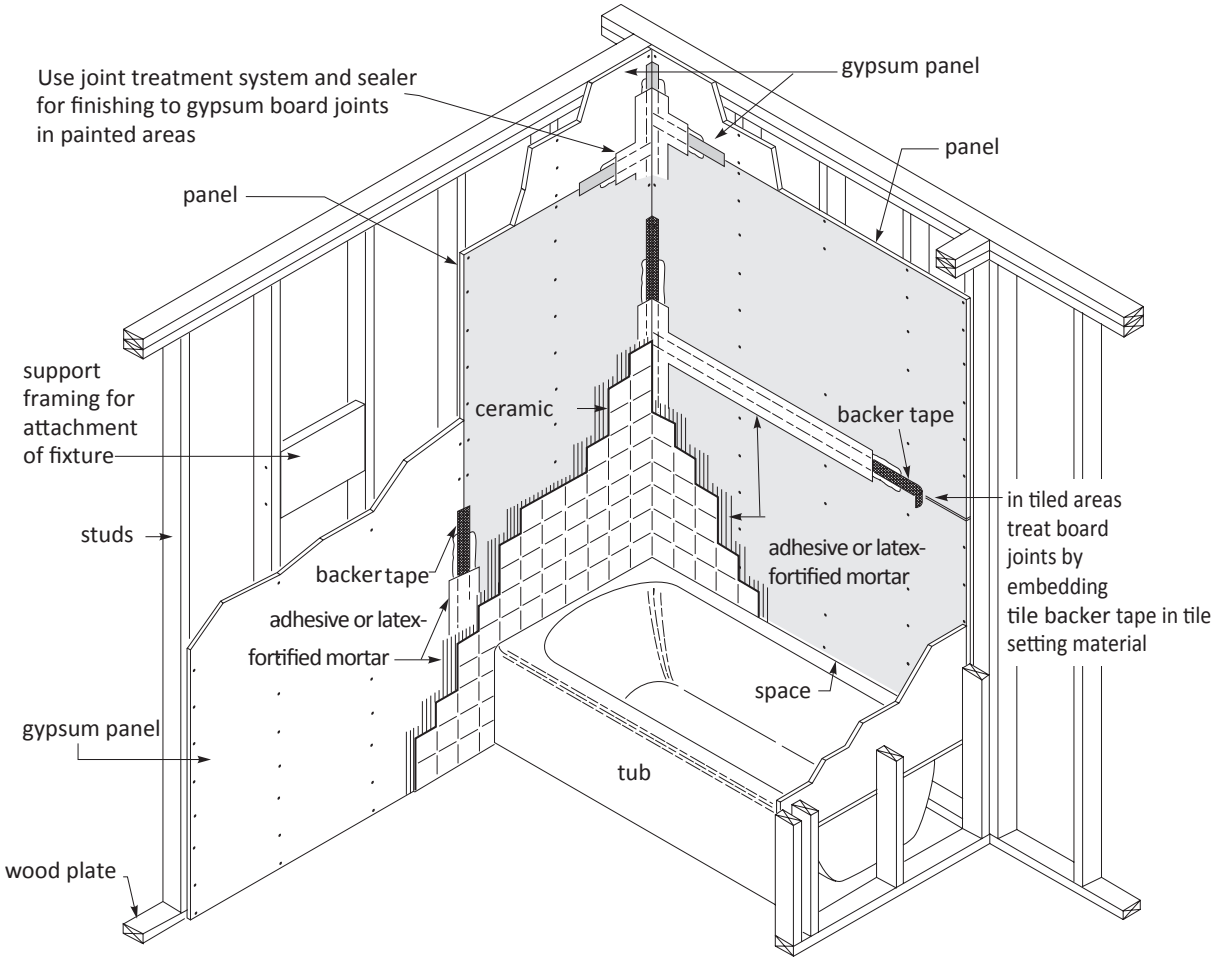
Hot-Dip Galvanized Roofing Nails



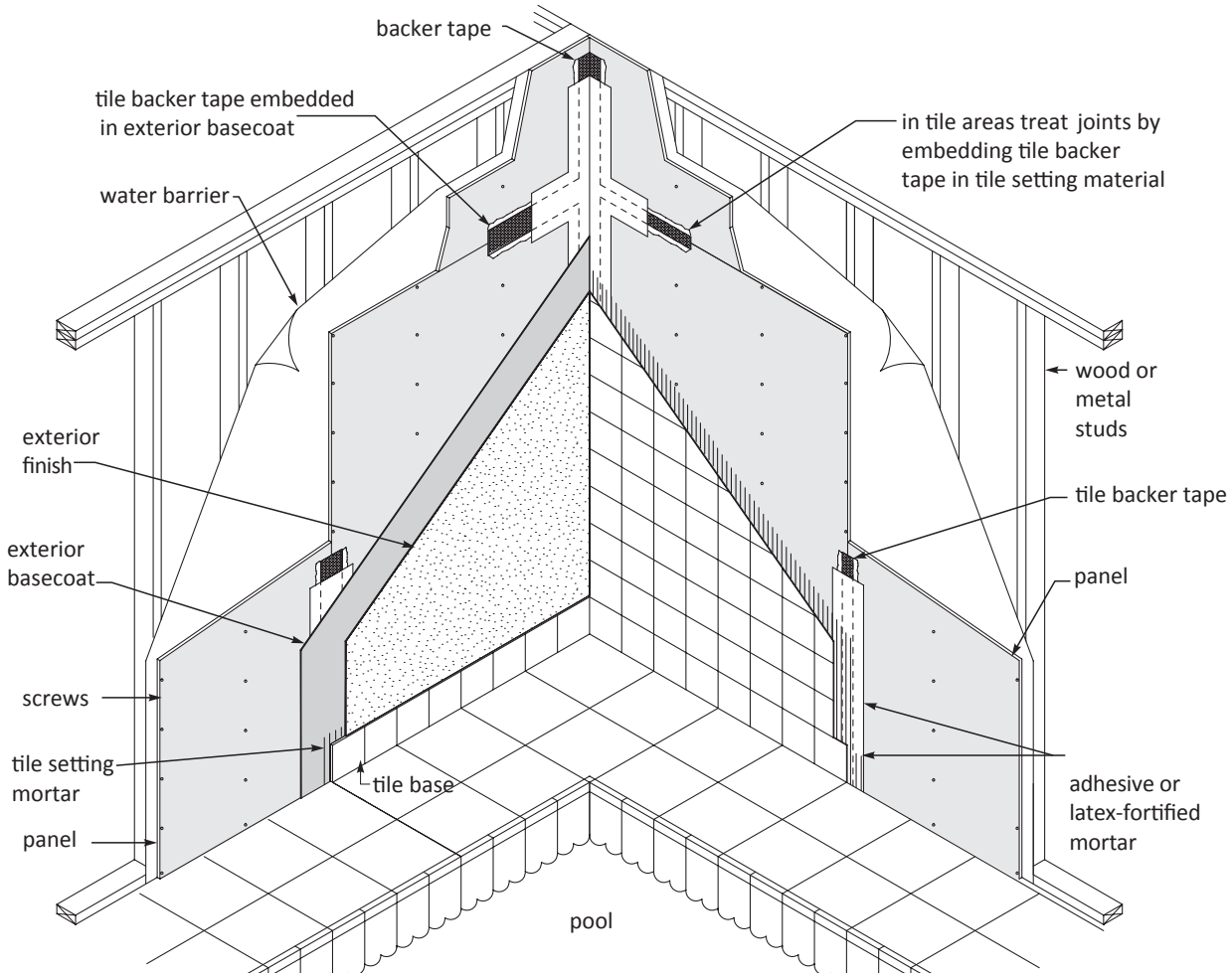
Resistant Tape



Typical bathtub installation



Typical swimming pool installation (tile or exterior finish)



Good Design Practices

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.

LOCATIONS

KIGDOM OF SAUDI ARABIA

unitech.ksa@ikkgroup.com

Jeddah
Tel : +966 12 627 8222
Fax: +966 12 627 8722

Jeddah - Ghurab Showroom
Tel : +966 12 667 2000
Fax: +966 12 661 4306

Mak kah/Taif
Tel : +966 12 541 1206
Fax: +966 12 532 1675

Mad inah
Tel : +966 14 842 1095
Fax: +966 14 842 1090

Yanbu
Tel : +966 14 390 1499
Fax: +966 14 322 7101

Khamis Mushayt
Tel : +966 17 237 5929
Fax: +966 17 237 8783

Najran
Tel : +966 17 546 3873
Fax : +966 17 546 3873

Al Baha
Tel : +966 17 237 5929
Fax: +966 17 237 8783

Sharorah
Tel : +966 17 532 8153
Fax: +966 17 532 8153

Gizan
Tel : +966 17 321 6660
Fax: +966 17 321 0665

Riyadh North
Tel : +966 11 415 5465
Fax: +966 11 456 6627

Riyadh South
Tel : +966 11 448 0112
Fax: +966 11 447 7421

Riyadh West
Tel : +966 11 431 6271
Fax: +966 11 431 7642

Riyadh East
Tel : +966 11 448 0112
Fax: +966 11 447 7421

Qassim / Buraidah
Tel : +966 16 382 3946
Fax: +966 16 385 2186

Hail
Tel : +966 16 543 3931
Fax: +966 16 543 3935

Skakah / Qurayyat
Tel : +966 14 626 3904
Fax: +966 14 626 3905

Tabuk
Tel : +966 14 423 5203
Fax: +966 14 423 5203

Hafr el Batin
Tel : +966 13 729 3644
Fax: +966 13 729 3644

Dammam
Tel : +966 13 859 0097
Fax: +966 13 857 8177

Jubail
Tel : +966 13 361 4390
Fax: +966 13 362 4499

Hofuf
Tel : +966 13 530 1474
Fax: +966 13 530 7144

FACTORIES

SFSP - KSA
sfsp.jeddah@ikkgroup.com

Specialized Factory for Steel Products
3rd Industrial City / Jeddah
Tel: +966 12 637 4482
Fax: +966 12 636 1963

SFSP / UAE
sfsp.uae@ikkgroup.com

SIGMA Factory for Steel Products
DIC (Dubai Industrial City)
Tel : +971 4 818 1919

SFSP / Egypt
sfsp.cairo@ikkgroup.com

Specialized Factory for Steel Products
6th of October City Giza
Tel : +20 2 3820 6477
Fax: +20 2 3820 6036

SFSP / Lebanon
sfsp.lebanon@ikkgroup.com

Specialized Factory for Steel Products
Tanayel, Bekaa
Tel: +961 8 514 290
Fax: +961 8 514 291

BAHRAIN
unitech.bahrain@ikkgroup.com

Manama
Tel : +973 17 874 897
Fax: +973 17 789 470

KUWAIT
unitech.kuwait@ikkgroup.com

Kuwait City
Tel : +965 2 4924 937
Fax: +965 2 4924 938

UNITED ARAB EMIRATES
unitech.uae@ikkgroup.com

Dubai - Al Rashidiyah
Tel : +971 4 2591 773
Fax : +971 4 2591 774

Abu Dhabi - Musaffah
Tel: +971 2 552 3393
Fax: +971 2 552 5499

OMAN
unitech.oman@ikkgroup.com

Muscat
Tel : +968 24 591 006
Fax : +968 24 597 006

JORDAN
unitech.jordan@ikkgroup.com

Amman
Tel : +962 6 556 3030
Fax: +962 6 554 7911

Aqaba
Tel : +962 6 556 3030
Fax: +962 6 554 7911

PAKISTAN
unitech.pakistan@ikkgroup.com

Karachi - Clifton
Tel-Fax : +92 21 35826120

EGYPT
unitech.egypt@ikkgroup.com

Cairo 6th of October City
Tel : +20 2 3820 6477
Fax: +20 2 3820 6036

LEBANON
unitech.lebanon@ikkgroup.com

Beirut
Tel : +961 1 858 277
Fax: +961 1 858 276

ENGINEERING, DESIGN, MARKETING & MULTIMEDIA

Unitech Deutschland GmbH
Germany
unitech.germany@ikkgroup.com

Stuttgart
Tel : +49 711 6868 7222
Fax: +49 711 6868 7223

Multi-D s.a.r.l
Lebanon
multi-d@ikkgroup.com

Multi-d Beirut
Tel : +961 1 841 155
Fax: +961 1 841 156

R&D DEPARTMENT

Saih Suhaib-3, Opp DEWA Substation, Dubai Industrial City, Dubai, UAE
Tel : +971 4 818 1944 - Mob: +971 55 517 0841
Email: unitech.uae@ikkgroup.com - abed.demachkieh@ikkgroup.com