

CHARACTERISTIC

DURAflex®/ DURAflex® 2X fiber cement board is a green material, 100% non-asbestos, made out of cement, quicklime, sand, cellulose fibers, and additives. **DURAflex®/ DURAflex® 2X** is formed with high pressure and accelerated cure to establish unique characteristics such as superior durability, rigidity and moisture resistance.

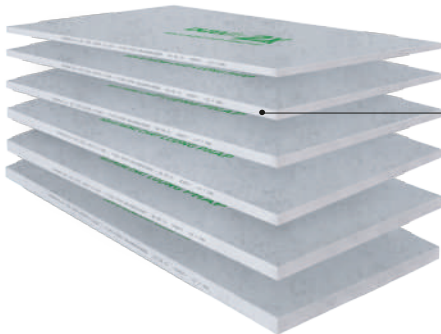
APPLICATION

DURAflex®/DURAflex® 2X board is used as a partition, concealed/exposed ceiling, roof lining, interior/external wall and floor. With unique appearance, **DURAflex®/DURAflex® 2X** board offers a new choice for interior-external designers and contractors. **DURAflex®/DURAflex® 2X** board is durable and moisture tolerance, so it is perfect for wet and high-impact areas.

IDENTITY

• Board color

- Light grey color or custom-made.



Inkjet printing on **DURAflex® 2X** boards (≥12mm)

DURAflex® 2X STD ASTM C1186
TCVN 8258 00x0000x000
AA BB DDMMYY LOT F 000

• Backside



Inkjet printing on **DURAflex® 2X** floor panel (4 -10mm)

CHARACTERISTIC & ADVANTAGE

- Lightweight, sturdy and provides high load-bearing capacity, **DURAflex® 2X** board can be used to replace traditional cementitious materials in floor lining, mezzanine, false ceiling, roof lining, partition wall, and outdoor floor.
- **DURAflex® 2X** composition has been tested to be free of carcinogenic asbestos, recognized as a green product by Singapore Green Labelling Scheme for consumer health and eco-friendliness.
- **DURAflex® 2X** board comes in various sizes for different applications to help reduce construction time.

CHARACTERISTIC	SPECIFICATION
Thickness (mm)	3 4 4.5 6 8 9 10 12 14 15 16 18 20 22 24 25
Width x Length (mm x mm)	1220 x 2440, 605 x 1210 (Apply for thickness 3.0, 4, 4.5, 6 mm)

CHARACTERISTIC	SPECIFICATION
Edge Type	Square edge (SE)
Standard	ASTM C1186 TCVN 8258

CHARACTERISTIC	VALUE	TEST METHOD
Flexural strength (1)	13 - 17 Mpa	ASTM C1185
Density (2)	1.30 - 1.45 g/cm ³	ASTM C1185
Moisture content (3)	8 - 12%	ASTM C1185
Moisture movement (4)	0.01 - ≤ 0.07%	ASTM C1185
Water absorption (5)	<35%	ASTM C1185
Water tightness (6)	There aren't drops water on the underside of the sheet	ASTM C1185
Reaction to fire (7)	Non - combustion material	ISO 1182
Thermal conductivity (9)	0.20 - 0.24 W/mK	ASTM C518
Flexural ultimate strength in equilibrium condition (10)	≥ 10 MPa	ASTM C1185
Flexural ultimate strength in wet condition (11)	≥ 7 MPa	ASTM C1185

Emission rate

No.	Characteristic	Test method	Unit	Result	SGBC Criteria	Evaluation
A5	Hazardous substances:					
1	Cadmium (Cd)	IEC 62321-5	mg/kg	Not detected	<100	Pass
2	Lead (Pb)		mg/kg	Not detected	<1000	Pass
3	Mercury (Hg)	IEC 62321-4	mg/kg	Not detected	<1000	Pass
4	Hexavalent Chromium (Cr 6+)	IEC 62321-7-2	mg/kg	Not detected	<1000	Pass
B1	Emission analysis (after 7 days)					
1	TVOC Emission	ISO 16000-9	mg/m ³	0.03	<0.1	Pass
2	Formaldehyde		mg/m ³	Not detected	<0.01	Pass

CONSTRUCTION - INSTALLATION

General

- It is important to observe appropriate health and safety legislation when working on site i.e. personal protective clothing and equipment, etc. The following notes are intended as general guidance only. In practice, consideration must be given to design criteria requiring specific project solutions.
- DURAflex®/ DURAflex® 2X** board should be stored on a firm, flat and level surface. If temporarily stored outside, it should be kept clear of the ground and securely covered with an anchored polythene sheet or tarpaulin to protect from dampness and inclement weather.

Handling

The board should always be handled by two people and when lifting a board, the long edge should be kept in contact with the stack. The board shall not be lifted while its flat face is parallel with the ground. Consider board weight while handling and recommend working in pair.

Cutting

- Board with a thickness of less than 10mm can be easily cut with the fiber cement scoring knife. It is recommended to use the right knife in the installation book.
- For board with greater thickness, a hand-held circular saw with suitable dust extraction or a snapper shear tool is recommended for easier cutting. Always use a suitable dust collection system. Always follow the manufacturer's guidance when using electrical tools.
- For complex details (i.e. doors and socket details), it is recommended to use a jigsaw (manual or powered) to get a satisfactory cut.

Fixing

- Place the printed side of the board inwards. Use specialized self-drilling screws **DURAflex®** to fasten the board in place with the screws positioned no less than 15mm from the edge of the board. For wall, the distance between screws should not exceed 300mm at any position on the board. For ceiling, the distance between screws should not exceed 240mm at board center and not less than 150mm at board ends. For floor, screw distance should not exceed 300mm at all positions of the frame, and keep a 10mm gap at joints with existing building members.
- For wall/partition and ceiling with fiber cement board, it is recommended to arrange a visible joint with gap 4-5mm width at every 4m length or every 3 boards' joints, fill this gap with a specialized sealant. For normal joint between boards, it is recommended a gap of 2-3mm.

Repair

Cut out the affected area back to the nearest framing member then replace by the same type of the board and fix it by the suitable screws. After that, fill joints with **DURAfiler®** jointing compound and finishes in the recommended way. When it is dry, decoration including decorator's preparatory work should follow.

Finishing

- Tiling - The board is suitable for direct tiling. It is recommended to apply waterproofing membrane onto **DURAflex®** surface before tiling. Tiles should be installed using the appropriate water-resistant grout and tile adhesive, following the manufacturer's guidance. The maximum weight of tiles and tile adhesive are up to 50kg/m². It is recommended to use a type C adhesive (in accordance with TCVN 7899-1:2008/ISO 13007-1:2004).
- Jointing - **DURAfiler®** jointing compound together with **VĨNH TƯỜNG®** Fiber Glass Mesh Tape produce a durable joint reinforcement and a smooth, continuous, crack-free surface ready for priming and final decoration.
- Painting - After the joints have been treated and cured according to the manufacturer's recommendations, the board can be painted as desired.

RECOMMENDATION

Use matched products: **DURAflex® 2X** fiber cement boards, **VĨNH TƯỜNG®** frames and accessories for durable, functional system and full manufacturer's warranty.



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This document is officially effective from **May 2023** and automatically replaced the previously released documents.

The content is subject to change without notice, for further information, please visit www.duraflex.com.vn - www.vinhthuong.com

Hotline

