

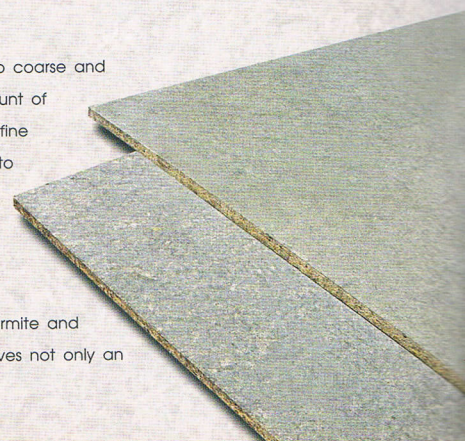


## VIVA BOARD

**VIVA BOARD** is a wood cement board or cement bonded particle board. It has unique smooth grey cement surface. Combining strength and durability of cement with flexibility and easy workability of wood, VIVA BOARD offers an efficient and versatile solution for variety of applications such as exterior and interior wall, decorative wall, cladding, ceiling, floor, roof decking and many more.

**VIVA BOARD** is made from planted Eucalyptus particles, Portland Cement, and mineralizing agents. Wood is processed into coarse and fine flake and thoroughly mixed with cement, mineralizing agent, and water in computer-controlled mixer. The required amount of mixed material is laid continuously on carrier plates using unique process which distributes coarse material in the middle and fine material on the two surfaces. The carrier plates with the formed mat are stacked and compressed using very high pressure to convert the formed mat into boards of required thickness with high strength and grey, smooth, cement-like surfaces. Once the boards are cured and conditioned, they are trimmed to the finished size, thoroughly inspected for quality, and packed for dispatch.

**VIVA BOARD** is ideally suited for all applications where durability, weather and fire resistance, sound and heat insulation, termite and fungus resistance are required. Being asbestos and crystallized silica free, and having no hazardous content, Viva Board proves not only an environmental friendly product but health friendly one.



### SIZE, THICKNESS AND WEIGHT

Standard Size	1200 mm x 2400 mm and 1220 mm x 2440 mm					
Thickness (mm)	8	10	12	16	20	24
Weight (kg./m <sup>2</sup> )	10.4	13.0	15.6	20.8	26.0	31.2
Special Size	1200/1220 mm x 2650 mm, 1200/1220 mm x 3000 mm, 1200/1220 mm x 3050 mm					
Special Thickness	6 mm, 18 mm, 28 mm, 30 mm					



### TECHNICAL DATA SHEET

Specific Properties		Thai Industrial Standard	VIVA BOARD
		(TIS. 878-2537)	Average Test Result
Density	Kg./m <sup>3</sup>	1100 - 1300	1300
Moisture Content	%	9 - 15	9 - 15
Bending Strength	N/mm <sup>2</sup>	≥9	12
Modulus of Elasticity	N/mm <sup>2</sup>	≥3000	5000
Tensile Strength Perpendicular to Plane	N/mm <sup>2</sup>	≥0.5	0.7
Thermal Conductivity (K Value)	W/m <sup>2</sup> °C	≤0.25	0.1
Thickness Swelling after 24 hours immersion in water	%	≤2	1
Other Properties		Unit	VIVA BOARD (Average Test Result)
Surface Alkalinity		pH	12
Length Change after 24 hours Immersion in water		%	0.12
Water Absorption after 24 hours immersion in water		%	12

### Dimensional Tolerance (mm)

- Diagonal	± 4.0 mm
- Length/ Width	± 2.0 mm
- Thickness 8 - 12 mm	± 1.0 mm
- Thickness 16 - 20 mm	± 1.5 mm
- Thickness 24 mm	± 2.0 mm



VIVA BOARD



## FEATURES AND BENEFITS



Durable



Weather Resistance



Fire Resistance



Safe from Termites  
and Fungus



Low Water Absorption



Not Delaminate



Heat Insulation



Sound Insulating



Easy Workability



Economical



Asbestos Free



Eco-Friendly

### Fire Resistance Properties

- Viva Board contains high percentage of cement content permitting it to be highly fire-resistant. Viva board passed BS 476 Part 6 and 7 and is classified as virtually non-combustible or class 'O' material and it was independently tested for class 'B' according to BS EN 13501-1
- Viva Board partition system also passed the 1-hour, 2-hour, and 4-hour fire rating test according to BS 476 Part 22, proving its fire prevention capability.

### Fire Rated Partition System

1 hour	2 hours	4 hours
<p>Viva Board 12 mm</p> <p>Viva Strip Thickness 16 mm Width 100 mm.</p> <p>Rock Wool 50 mm</p> <p>Viva Board 12 mm</p>	<p>Viva Board 12 mm</p> <p>Viva Strip Thickness 12 mm Width 100 mm.</p> <p>Rock Wool 25 mm</p> <p>Rock Wool 50 mm</p> <p>Viva Board 12 mm</p>	<p>Viva Board 16 mm</p> <p>Viva Strip Thickness 20 mm Width 100 mm.</p> <p>Rock Wool 50 mm</p> <p>Rock Wool 50 mm</p> <p>Viva Board 16 mm</p>
<p>Specifications: Viva Board 12 mm, each side of galvanized steel frame of 75 mm x 38 mm x 1 mm thick set at 60 cm x 120 cm centre faced with Viva Board strips 16 mm thick x 100 mm width Viva Board strips with one layer of rock wool, high temp 50 mm thick (110 kg./m<sup>3</sup>) to cavity.</p>	<p>Specifications: Viva Board 12 mm, each side of galvanized steel frame of 75 mm x 38 mm x 1 mm thick set at 60 cm x 120 cm centre faced with Viva Board strips 12 mm thick x 100 mm width Viva Board strips with two layers of rock wool, high temp 50 mm and 25 mm thick, (110kg./m<sup>3</sup>) to cavity.</p>	<p>Specifications: Viva Board 16 mm, each side of galvanized steel frame of 75 mm x 38 mm x 1 mm thick set at 60 cm x 120 cm centre faced with Viva Board strips 20 mm thick x 100 mm width Viva Board strips with two layers of rock wool, high temp 50 mm thick x 2, (110kg./m<sup>3</sup>) to cavity.</p>

### Acoustic Performance

- Due to its high density, Viva Board contributes significant acoustic performance than any other types of building boards.
- Sound transmission class (STC) of Viva Board:

Thickness (mm)	STC Rating
8	28
10	29
12	30
16	31
20	32

### Acoustic Partition System

STC 41	STC 50	STC 55
<p>Viva Board 8 mm</p> <p>Viva Board 8 mm</p>	<p>Viva Board 8 mm</p> <p>Glass Wool 60 mm</p> <p>Viva Board 8 mm</p>	<p>Viva Board 8 mm</p> <p>Glass Wool 60 mm</p> <p>Viva Board 12 mm</p>
<p>Specifications: Viva Board, each side of galvanized steel frame of 75 mm x 32 mm x 0.5 mm thick.</p>	<p>Specifications: Viva Board, each side of galvanized steel frame of 75 mm x 32 mm x 0.5 mm thick with one layer of glass wool 60 mm thick to cavity.</p>	<p>Specifications: Viva Board, each side of galvanized steel frame of 75 mm x 32 mm x 0.5 mm thick with one layer of glass wool 60 mm thick to cavity.</p>

### Acoustic Roof

Viva Board has been extensively used as part of acoustic roof system in world-class projects.







# VIVA BOARD

The Best Combination of Wood & Cement

