



### FIRE PROOF A1 RATED NON-COMBUSTIBLE DECKING

#### PRODUCT CHARACTERISTICS

##### HIGH STRENGTH

The board has high strength, saturated flexural strength is greater than or equal to 13MPA, and it forms an integral whole with the basic building, which can meet the needs of large crowded areas.

##### NON-COMBUSTIBLE MATERIALS

Combustion performance meets the requirements of GB8624-2012 Classification of Combustion Performance of Building Materials and Products, the highest level grade A1 requirement.

##### WEATHERABILITY

Through 100 freeze thaw cycles, 50 hot rain cycles, 56 day hot water immersion test, water resistance, acid resistance and alkali resistance test, the Board meets the requirements of JC/Y 'Fibre Cement Plate Part 1: Asbestos free Fibre Cement Plate' A product standard, and can be applied to severe cold and bad climate areas.

##### ANTI-SLIP, GRINDING RESISTANCE

High density inorganic Fibre Cement Boards with crystal structure of tobermorite. It has good anti-slip and grinding resistance capabilities, according to the test result. It meets all the requirements which national standard had mentioned.

Environment protection and energy saving Products do not contain asbestos, no radioactivity, meet the requirements of national class A decorative materials standards, no formaldehyde release. Obtained the green labelling certificate of environmental signs issued by the National Environmental Protection Administration.

##### RICH IN COLOUR

Flexible and changable colours, through-body colour, natural cedar texture, give full play to the designer's imagination and provide some inspiration for the construction of landscape trestle.

The main substrate of Decking Board (Fibre Cement Decking Board) are imported Portland cement, quartz powder: added other special materials, after molding, pressurised steaming, surface treatment, it becomes a board which is high-strength, easy to cut and drill, anti-corrosion, anti-worm moths, anti-mold, strong weather resistance, long service life. It will bring good step experience and good visual satisfaction when used as decking board for walk-way systems.

Decking Board (Fibre Cement Decking Board) can be used for the walkway of a scenic spot, park, level platform, community walkway, the seaside viewing platform bridge, outdoor paving, balcony floor, outdoor decorative landscape plank and so on: it also could be used to be railing, vine rack, Lang court, flower stand, flower box, fence, table and chair, benches, the trash can, the decoration board for buildings.



### TECHNICAL PARAMETER

Density	
Density g/cm <sup>3</sup>	≥ 1.4
Moisture Absorption %	≤ 28
Wet Swelling Rate %	≤ 0.25
Combustibility Performance	Grade A1 Non-combustible
Impermeability	After 24 hour inspection, no water droplets were found
Weatherability	
Anti-Frozen	100 times frozen melting circle, no cracking, no layer
Hot Rain Test	Fifty hot rain cycles, no cracks and delamination on the plate surface
Hot Water Test	The ratio of saturated flexural strength to saturated flexural strength is greater than or equal to 70% after 56 days immersion at 60 degrees Celsius
Immersion Drying Test	After 50 cycles of drying, the saturated flexural strength ratio is greater than or equal to 70%
Mildew Resistance Test	Antifungal property grade 0
Water Resistance	After 30 days, no cracking, no layering, no falling off, no swelling and no colour change observed
Acid Resistance	After 15 days, no cracking, no layering, no falling off, no swelling and no colour change observed
Alkali Resistance	After 15 days, no cracking, no layering, no falling off, no swelling and no colour change observed
Environmental Protection Performance	
Non-Asbestos Test	It confirms to HJ/T223-2005 Standard and does not contain Asbestos
Radioactivity	Complying with GB6566-2021 Standard and meeting the requirements of Class A decorative materials. IRA is less than or equal to 1.0. Exposure index IR less than or equal to 1.0. Class A decorative materials, production, marketing and scope of application are unrestricted.
Mechanical Property	
Saturated flexural strength	≥13
Specification & Size	
Length (mm)	2440
Width (mm)	150 200
Thickness (mm)	25

CDECK

DATA SHEET

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### CONTRAST OF DECKING BOARD

PRODUCT CHARACTERISTICS	FIBRE CEMENT DECKING BOARD	ANTI-CORROSIVE WOOD DECKING BOARD	WOOD / BAMBOO PLASTIC DECKING BOARD
Main Components	Portland Cement, Quartz Floor	Wood, Preservative	Wood, Bamboo Fibre & Plastics
Environmental protection	Green environmental protection, asbestos free, formaldehyde free, non toxic, tasteless & recyclable	Toxic preservatives are corrosive, carcinogenic and consume a large amount of wood resources	Toxic substances are easily produced during processing, which consumes part of wood resources
Fire Resistance	Fire Resistance Class A1	Flammable, poor Fire Resistance	Fire proof grade B1, easy to soften at high temperature
Weatherability	Rainwater erosion resistance, aging resistance, 100 cycles of freeze thaw without damage, deformation & cracking	Weather resistance is poor, dry shrinkage, wet expansion, easy to deform, serious corrosion	Weather resistance is poor, easy to aging under sunshine, serious deformation
Moisture-proof & Moth-proof	Excellent	Commonly	Good
Rugged & Wear Resistant	Excellent	Poor	Good
Service Life	30 years	3 to 5 years	3 to 5 years
Cost Performance	High performance price ratio	Poor performance price ratio	Poor performance price ratio

### COMPOSITION, INFORMATION & INGREDIENTS

CHEMICAL NAME	PERCENT (BY WEIGHT)	CASE NO.	EC#	MITI NO.	KE-NO.
PORTLAND CEMENT	37%	65997-15-1	266-043-4	-	KE-29067
LIME	18%	1305-78-8	215-138-9	1-189	KE-04588
MICA	1.5%	12001-26-2	Unlisted	-	KE-25420
PERLITE	1.5%	93763-70-3	Unlisted	-	KE-05-0978
OTHER ADDITIVES	1.5%	N/A	N/A	N/A	215-171-9
QUARTZ	33.5%	14808-60-7	238-878-4	1-548	KE-29983
CELLULOSE	10%	9004-34-6	232-674-9	-	KE-05339

#### FIRE DECK

Unit 18 Smeaton Road, Portway West Business Park,  
Andover, Hampshire, SP10 3LF t 01264 359984  
www.firedecking.co.uk

