Jindao® Fiber Cement Board

10 POINT SUPERIORITY

1. Fire Resistant

Jindao Fiber Cement Board passes the following fire performance tests:

Ignitability Test:

- BS 476 Part 5designaed "P' (Pass)

Fire propagation Test

- BS 476 part 6

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Surface Spread of Flame

- BS 476 parts 7. Rated as a class'1' surface, the highest rating.

Classified as a class '0' material under U.K. Building Regulations,

Jindao Fiber Cement Board can be used for the construction of fire resisting building elements to satisfy the criteria of BS 476 Part 22:1987 (For1/2 Hr., 1Hr., and 2Hr. Fire Rating).

2. Weather resistant

Jindao Fiber Cement Board has been subjected to many cycles of soaking, freezing and heating without any sign of disintegration.

The board passes the conditioning test V313 carried out by the United Kingdom Building Research Establishment i.e. Clause A 9.2 of BS5669: 1979. It also passed durability test as per clause 16-1 of BS5669: Ptl: 1989.

Jindao Fiber Cement Board should generally be coated for eternal applications to provide a weather seal.

3. Termite resistant

Insects: Jindao Fiber Cement Board is resistant to termite and vermin attack..

4. Fungus resistant

Fungus Growth: long term tests have shown that the board will not support fungus growth..

5. Sound insulation

Average insulation for the frequency range: 100-3150 Hz for total Jindao Fiber Cement Board thickness:

12mm 25dB



16mm 25dB 18mm 25dB 25.5mm 25dB 27.5mm 25dB 38mm 25dB

6. Wood workability

Jindao Fiber Cement Board can be drilled, sawn and sanded with normal wood working machinery.

Cutting: Jindao Fiber Cement Board should be cut with tungsten carbide tipped circular saws.

Drilling: Use high speed steel (HSS) drill bits.

Fixing: Jindao Fiber Cement Board can be fixed using screws, nails, staples, construction fasteners or

adhesives. With normal woodscrews the boards should be predrilled with a slightly oversized hole.

Jindao Fiber Cement Board over 10mm thick, a hole slightly smaller than the nail shank should be predrilled.

7. Structurally strong

Modulus of elasticity:	4500	N/mm^2
Bending strength:	9.0	N/mm^2
Shear strength:	3.5	N/mm²
Tensile strength, in Plane:	5.0	N/mm²
Compressive strength, in Plane:	15.0	N/mm²
Transverse tensile strength:	0.5	N/mm²

8. Dimensionally stable

Moisture movement: **Jindao Fiber Cement Board** shows a change in dimension of 2 mm/m for each change of 10% in board moisture content.

Thickness Swelling: (full immersion in water).

After 2 hours -1%

After 24 hours -1.5%

Max. long term -2.0%

9. Smooth surface

Jindao Fiber Cement Board has a smooth surface, which can be coated with minimum preparation. Alkali compatible can be applied directly onto the board. For other paint types on alkali resisting primer should first be applied.

Jindao Fiber Cement Board can also be finished with tiles, laminates and foils to give a wide range of finishes.



10. Chemically stable

Jindao Fiber Cement Board is produced by an irreversible process combining cement and wood particles into a chemically stable building material product line.

SPECIFICATIONS

DIMENSIONS & WEIGHT						
Standard Board Thickness (mm)	12 16 18 25.5 27.5 38					38
Approx. weight (kg/m2)	15.6 20.8 23.4 33.2 35.8 49.4			49.4		
STANDARD BOARD SIZE	STANDARD BOARD SIZE 1220 x 3150 mm					
DIMENSIONAL TOLERANCES						
Length		± 4.0mm				
Width	± 3.0mm					
Thickness (unsanded) up to 16mm	± 1.0mm					
Thickness (unsanded) over 16mm	± 1.3mm					
Thickness (sanded)	± 0.4mm					

NOMINAL DENSITY kg/m ³	1250
BENDING STRENGTH N/mm ² (min)	9.0
MODULUS OF ELASTICITY N/mm² (min)	4500
TENSILE STRENGTH PERPENDICULAR TO SURFACE N/mm ²	0.5

PROPERTIES	TYPICAL VALUES
Moisture content at 65% Relative Humidity	12% ± 3%
Moisture Absorption (After 24 Hr. Soaking)	< 30%
Surface Alkalinity	pH = 12
Coefficient of Thermal Expansion	10 ⁻⁵ /°C
ie. for each 10°C change in temperature	±0.1 mm/m
Thermal Conductivity, 'K' value	0.26 w/m °C
Thickness Swelling after soaking for 24 hours (%)	< 1.8 %
Fire Rating	Class 'O' UK Building Regulation
Weathering - 3 Cycles soaking Freezing and Heating to 70°C - BS 5669: Pt 4	Passes Unaffected
Insect Attack(Termites)	Highly Resistant
Fungal Attack	Highly Resistant
Impact Strength	> 20 mm / mm

MATERIAL SAFETY DATA SHEET

Product Fiber Cement Board

SECTION 1: PRODUCT IDENTIFICATION AND USE

Brand Name	JINDAO	Product Use: Building Construction
Manufacturer/Supplier	JINDAO FLOORS, INC	•
	ADDRESS: Xiyou Tow	n Government, Laizhou City, Shandong Province, China
	261418	
	TEL: +86-535-274-3446	5
	FAX: +86-535-274-3449)
	URL: http://www.jindad	ofloors.com/

SECTION 2: HAZARDOUS INGREDIENTS IN DUST FROM PRODUCT

Hazardous Ingredients:	CAS Number	Exposure limit	Limit basis
Wood Particle	N/Avail	5mg/m ³	
Cured cement solids	N/Avail	10mg/m³	

SECTION 3: PHYSICAL CHARACTERISTICS

Appearance	Gray to dull yellow mixture of cured cement and wood fibers				
Odor	Slight cement/wood odor				
Normal physical state	Solid Boiling Point Not Applicable				
Freezing point	Not Applicable Odor Threshold Not Applicable				
Vapor Pressure (mm Hg)	Not Applicable Percent Volatile Not Volatile				
Vapor Density (g/cm ³)	Not Applicable Evaporation Rate Not Applicable				
PH	12	Percent Soluble	None		
Specific Gravity	1.25	Percent Soluble	None		

SECTION 4: FIRE AND EXPLOSION DATA

Flammability	Will not burn	Extinguishing Media	Not Applicable	
Special Fighting	None	Unusual Fire and	Nama	
Procedures		Explosion Hazards	None	
Flashpoint(0C)and Method	Not Applicable	Auto-ignition	Not Applicable	
		Temperature	Not Applicable	
Upper Flammability Limit	Not Applicable	Lower Flammability	Not Applicable	
(% Vol)	Not Applicable	Limit (% Vol)		
Hazardous Combustion	Not Applicable	Explosion - Sensitivity	Not Applicable	
Products	Not Applicable	to Impact	Not Applicable	
Explosion-Sensitivity to				
Static	Not Applicable			
Discharge				

Chemically Stable		Yes	Incompatibilities With Other Substances		Cement Will Dissolve In Strong Acidic Solutions	
Other Reactivity Cond	erns	None Known		Hazaı Polym	rdous nerization	Will not occur
Hazardous Decompo	sition	Stable			1	
Routes of Entry:						
Inhalation: Yes	Inges	stion: <i>No</i>	Eye Contact: Ye		Skin Absorption:	Skin Contact: Yes
Medical Conditions Aggravated By Exposures	_	osure to dust concentration characteristics and asthi	•	orsen/	existing respirato	pry ailments, including
Carcinogenicity	NTP:	NO	IARC: NO	(OSHA CONTROLL	ED: NO
Synegistic Materials	ICOL	None Known Mutagenicity:		genicity:	Not known to be mutagenic	
Teratogenicity:	ratogenicity: Not known to be teratogenic Rep		·		Not known to have reproductive effects	
Acute Exposures:				•		
EYES		Dust can phys	sically irritate eyes	s and n	nay cause abrasio	ons.
SKIN		Dust can phys	sically irritate the	skin.		
RESPIRATORY TRA	nose and dry cough. People v		cough. People wi	th broi		isting respiratory trac
Chronic Exposure:		annents may	experience annot	11cy 111 k	oreatining it expos	ca to aast.
EYES		Dust can phys	sically irritate eyes	s and n	nay cause abrasio	ons.
SKIN		Some individ	luals may devel	op irr	itant dermatitis	from prolonged dus
RESPIRATORY TRACT Exposure to dust will increase the risk of bronchitis, and people were respiratory tract ailments (e.g. bronchitis) may suffer severe in difficulty in breathing.						
SECTION 7: EXP	osui	RE CONTROI	METHODS:			
Personal Protective E	quipm	ent				
EYES		Suitable eye protection should always be worn whenever cutting or should products with power tools			ver cutting or shaping	
		As required to maintain dust exposures below allowable limits				
RESPIRATOR		As required to	maintain dust ex	posure	es below allowable	e limits
RESPIRATOR CLOTHING		As required to		posure	es below allowable	e limits
		Normal work	clothing.		es below allowable	
CLOTHING		Normal work of As required to	clothing.	rom so	lid product or dus	



Handing procedures and	Prevent dust from becoming	Storage Requirement	No special		
Equipment	airborne		requirements		
Waste Disposal	As determined by	Special Shipping	None		
	environmental Regulations.	Information			
	Normally can be disposed off				
	as solid waste				
Spill and leak Procedures	Dust should be cleaned up by any method that does not create a dust cloud.				
SECTION 8: FIRST All Eyes	D MEASURES Flush with water for several min	nutae If irritation narsis	ts sook modical aid		
Inhalation			-		
mnaiation	Remove to fresh air if any respiratory irritation develops, and seek medical aid promptly if the irritation persists.				
	If breathing difficulties occur, provide artificial respiration until medical aid				
	arrives.				
Skin Contact	Seek medical aid if any skin irritation develops.				

The information and data in this MSDS are believed to be accurate and have been compiled from sources believed to be reliable.