





















THOMSON
FiWOOD
Natural Fibre Board

- **Water proof**
- **Termite proof**
- **Flame resistant**
- **Easily machinable**
- **Easy to thermoform**
- **Eco-friendly & Recyclable**



NATURAL FIBRE COMPOSITE

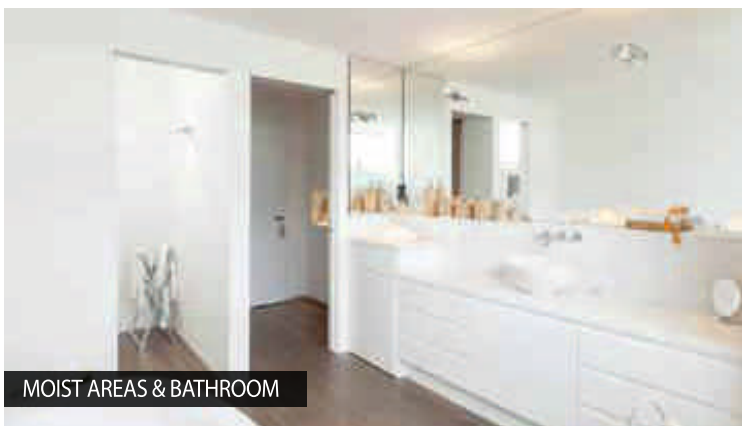


				
No formaldehyde emission	Absorbs Sound	Nailable	Easily machinable	Water proof
				
Durable	Anti rodent	Good screw holding	Resistant to fungus, algae or mold	Termite proof
				
UV resistant	Thermoformable	Smoke suppressant	Resistant to expansion/contraction	100% Recyclable
				
No splintering, no crack	Anti-bacterial	No harmful ingredients	100% Eco-friendly	Flame retardant - Vo rating in UL94 test Class 1 or A as per ASTM E84

Termite Proof | Water Proof | Flame Retardant
Easily Machinable | Thermoformable | Eco-friendly & Recyclable



OFFICE FURNITURE



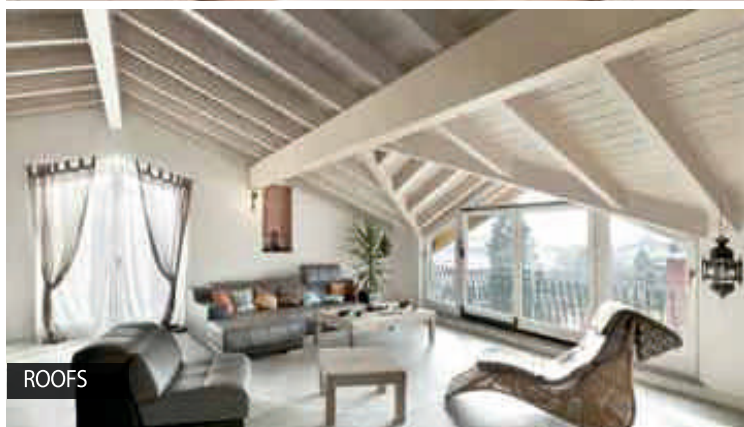
MOIST AREAS & BATHROOM



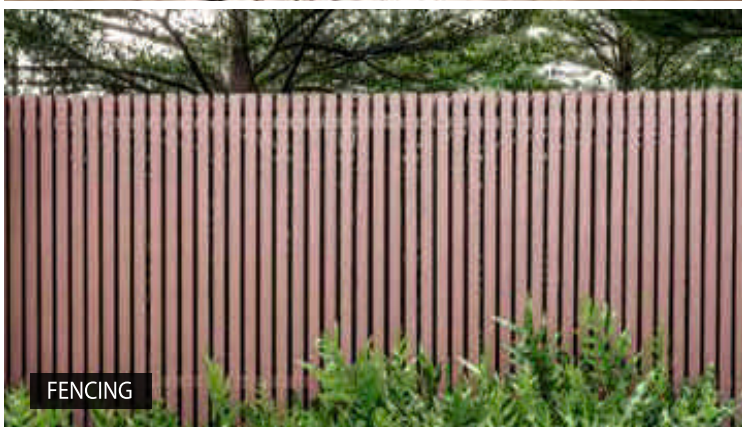
CABINETS & WARDROBES



KITCHEN AND DINING AREAS



ROOFS



FENCING



outdoor application

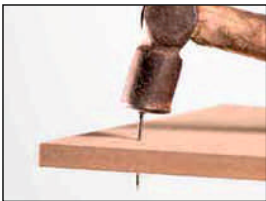
THERMOFORMING

Effortless thermoforming without any compromises on the strength is a unique feature of **FiWOOD**. The high content of natural fibres makes sure that the density and dimensional stability is uncompromised post thermoforming.

Heating temperature	130- 160 degrees Celsius.
Heating time	1-2 min/mm of board thickness (for example 18-36 minutes for 18 mm board)
Locking (desired shape) time	5 minutes
Cooling time	1-2 minutes/mm of board thickness

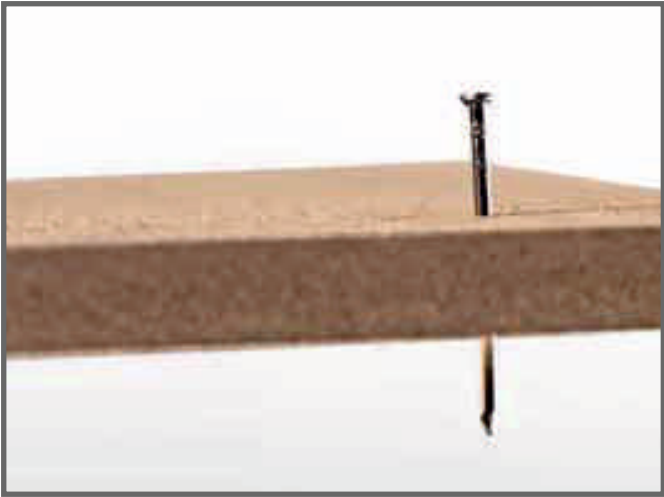


TEST	METHOD	LIMIT	RESULT
FLAMMABILITY	UL94		V0 Rating
FLAME SPREAD INDEX	ASTM E84 : 2020	0 – 25 CLASS 1 OR A	6 CLASS 1 OR A
SMOKE DEVELOPED INDEX	ASTM E84 : 2020	450	100



SCREWING AND NAILING

High content of natural fibres enables superior nail holding and screwing. Choose fasteners depending on the type of application. Fiwood works with full threaded and wide head screws. Gluing the full surface of the edge adds to the strength of the joinery. Stainless steel screws are ideal for outdoor applications.

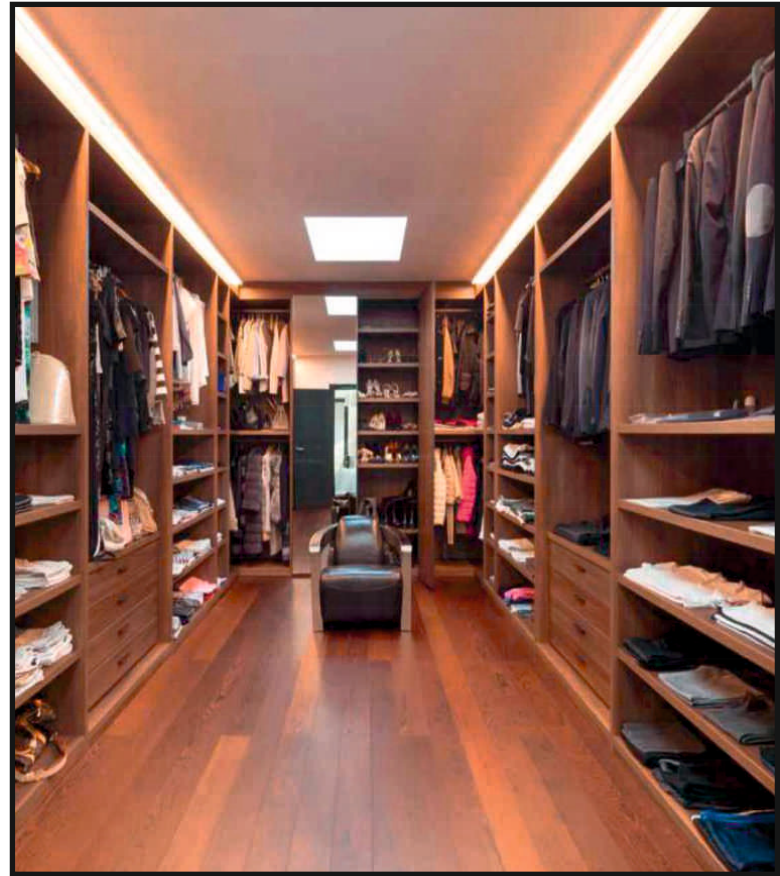


COMPARITIVE STUDY OF FIWOOD WITH OTHERS

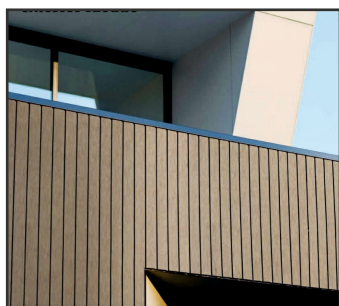
NO	PROPERTIES	FiWOOD	PVC/WPC FOAM BOARD	PLYWOOD	MDF
1	DENSITY (KG/CBM)	700-800	400-600	650-750	600-700
2	RAW MATERIALS	Natural fibres and Thermoplastics	PVC and fillers materials	Medium/Soft wood, Formalde hyde, Urea/Phenol	Medium/Softwood, Urea, Formalde hyde
3	TERMITE PROOF	✓	Not always	✗	✗
4	WATER PROOF	✓	✓	For some time	✗
5	FLAME RESISTANT	✓	Not known	✗	✗
6	SCREW HOLDING	Above par	Below par	Above par	Below par
7	CONVENTIO NAL TOOLS	✓	✓	✓	✓
8	OVERLAY LAMINATE/VENEER	✓	Not always	✓	✓
9	OUTDOOR AND INDOOR APPLICATIONS	Both indoor & outdoor	Preferably indoor	Indoor	Only indoor
10	SHRINKING AND SWELLING	✗	✗	✓	✓
11	WEATHER AND AGEING RESISTANT	✓	✗	✗	✗
12	ECO-FRIENDLY	✓	✓	✗	✗

Available dimensions: FiWOOD Boards are generally available in 8' X 4' - 6mm, 8mm, 12mm, 15mm, 18mm, 20mm, 25mm However customised dimensions are available in any size and thickness. Density may vary by 5 %. Please check with us for further details.

- Suggested glue: Fevicol Probond
- For seamless joinery – apply glue on the edges



TEST	METHOD	UNIT	RESULT
DENSITY	ASTM D792	Kg/CBM	800.349
WATER ABSORPTION AFTER 2 HRS	IS : 2380	%	0.02
WATER ABSORPTION AFTER 24 HRS	IS : 2380	%	0.12
THICKNESS SWELLING AFTER 2 HRS	IS : 2380	%	0.06
MODULUS OF RUPTURE - AVERAGE	IS : 2380	N/mm ²	14.5
MODULUS OF RUPTURE - MINIMUM INDIVIDUAL	IS : 2380	N/mm ²	14.4
MODULUS OF ELASTICITY - AVERAGE	IS : 2380	N/mm ²	1327
MODULUS OF ELASTICITY - MINIMUM INDIVIDUAL	IS : 2380	N/mm ²	1290
SCREW WITHDRAWAL - FACE	IS : 2380	N	2252
SCREW WITHDRAWAL - EDGE	IS : 2380	N	1409
TENSILE STRENGTH	ASTM D638	MPa	7.6
COMPRESSION STRENGTH	ASTM D695	MPa	40.2
ELONGATION @ BREAK	ASTM D638	%	2
CHARPY IMPACT STRENGTH	ASTM D6110	KJ/m ²	6.25
HEAT DEFLECTION @ 0.45MPa	ASTM D648	°C	64.45
SOFTENING TEMPERATURE @ 1 KG	ASTM D1525	°C	72.5
VOC EMISSIONS	EPA : 5035A (by GCMS)	Mg/KG	Below detectable limit
TEST FOR TERMITE RESISTANCE	IS 4833		No sign of termite attack
TEST FOR FUNGAL RESISTANCE	IS 4873		No sign of fungal attack
TEST FOR BORER RESISTANCE	IS 4873		No sign of borer attack



Save Trees & Go Green



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