



**FIBER  
ROOFING**

South African Manufacturer & Exporter of Thatch Products



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P.O.Box 639, Alberton, 1450

**FACTORY ADDRESS: INDUSTRIAL SITE - R59, KLIPRIVER, 1871 ,GAUTENG, SOUTH AFRICA**

# WHY CHANGE TO FR-MO BOARDS



- The **FR-MO Boards** has been designed according to specifications provided by the Fiber Roofing team to be used as sub roof material with the Fiber Roofing range of Fiber Synthetic Tiles.
- The **FR-MO Board** is a Class A1 fire-resistant board.
- The **FR-MO Board** is a technologically advanced building material that offers superior performance in every category when compared to traditional wood, gypsum and cement-based products.
- The **FR-MO Board** is virtually impervious to fire, water, insects; does not feed mould or mildew, is non-toxic, non-combustible; is durable, maintains its dimensional stability even when wet; and, has exceptional bonding surface.
- The **FR-MO Board** is a mineral-based green builder product and is a homogeneous-no de-lamination product.
- The Recommended boards is: Width -1220mm (48"), Length -2440mm (96") and Thickness – 10mm (0.4")





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### R Values:

**Notes:** The following results are either in-house test lab results or published results from SIPA and are not certified by an approval ICC testing laboratory

Structural Insulated Panel (SIP) R Values using 10MM Magnum Board ®:

- Magnum Board ® thermal insulation R value per inch = 1.2 Compared to:

Cement Board	.8
Plywood	1.2
Gypsum Wallboard	.9
Gypsum Sheathing	1.1
O.S.B	1.

### SIP R-Values (Calculated R-Values)

SIP Panel Thickness	4 ½"	6 ½"	8 ¼"	10 ¼"	12 ¼"
EPS	14.4	21.6	27.9	35.1	45.9
XPS	19.5	29.5	38.3	48.3	58.3
Polyurethane	21.7	32.9	N/A	N/A	N/A

Consult the panel manufacturer to verify R-values. R-values can vary between SIP manufacturers.

## Main Characteristics

#### FOR FIRE AREAS



✓

BAL 12.5 to 40 and FZ (Flame Zone)  
FRL 90/240/240 Steel Frame  
FRL 60/240/240 Timber Frame

#### FOR WET AREAS



✓

Does not warp or swell  
Does not degrade in moist areas  
Available in water resistant, HD T&G

#### FOR THE ENVIRONMENT



✓

Very low carbon footprint.  
100% recyclable.

#### FOR HEALTH SAFE AREAS



✓

Totally non-toxic, chemical free  
Helps protect from mould and bacteria

#### FOR TERMITE PROTECTION



✓

Termite proof.  
Of no interest to white ants and pests.

#### FOR NOISY AREAS



✓

Acoustic Decibel Rating 50Db.  
Sound insulation to RW+ Ctr 55.

#### FOR MULTIPLE APPLICATIONS



✓

Walls, Floors, Ceilings, Soffits,  
Decks, Fences, Tile Backing,  
Bathrooms, Kitchens...

**YOU NAME IT!**







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## Technical Data

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Testing Item	Data	Basis
Apparent density	950-1100kg/m <sup>3</sup>	JC688-206
Moisture Content	≤10%	JC688-206
Percentage of dry shrinkage	≤1,2%	JC688-206
Percentage of water swelling	≤0,34%	JC688-206
Screw withdrawal force	≥70N/mm	JC688-206
Dehalogenation resistance	No water and no moisture created	JC688-206
Content of chloride ion	≤8%	JC688-206
Fireproof performance	A1 Non-flammability	GB862-2006
Fire resistant time	>2h	A 90mm thick partition with 6mm MgO board on both sides of steel
Fac resistant time	>4h	A 90mm thick partition with 6mm MgO board on both sides of steel
Sound insulation	>42dB	9mm MgO board + 75mm keel + 50 rockwool
Bedsing strength	>20MPa	6mm
Impacting strength	>5.5Kj/m <sup>2</sup>	6mm
Environment	No radiation, no asbestos, formaldehyde free	GB656-2001
Water permeability	No moisture or water	CECS95: 97
Alkali resistance		CECS95: 97
Thermal conductivity	0.109	Average Temperature: 30±5℃
Color	white, grey and pink	
Surface texture	Smooth one side; uniform machine textures back	

