



Home constructed from BESTABORD™

PERFORMANCE PROPERTIES

PERFORMANCE - FIRE RESISTANCE

Based on 10mm Thickness

Non combustibility test (BS 476 Part 4)

BESTABORD™ has been classified as Non-combustible

Fire resistance test on a non-load bearing wall panel (SABS 2 Hours Fire Test / Agreement Certified)

Integrity: 120minutes
Insulation: 164 Minutes

PERFORMANCE - STRENGTH

Modulus of elasticity

6045 N/mm²

Mean bending strength (ISO TR 1896 C1.6.4)

10.1 N/mm²

Resistance to surface damage by small hard body impact (BS 5234 : Part 2)

No damage occurred to other parts of the surface during & after the test

Resistance to damage by impact from large soft body (BS 5234 : Part 2)

No damage occurred during & after the test

Resistance to structural damage by impact from large soft body (BS 5234 : Part 2)

No damage, collapse or dislocation occurred during & after the test

Effects of door slamming (BS 5234 : Part 2)

No surface damage, detachment, loosening or dislodgement of any parts or fittings or trims occurred during & after the test.

Resistance to crowd pressure (BS 5234 : Part 2)

Up to 3 KN/m

Light weight anchorage pull-out (BS 5234 : Part 2)

(Load = 250N). Pull-up shim plate intact during the test

Heavy weight anchorage cupboards (BS 5234 : Part 2)

Highest load sustained is up to 2000N

Heavy weight anchorage washbasin (BS 5234 : Part 2)

Highest load sustained is up to 1000N

PERFORMANCE - SOUND

(SANS 10218 Part1/BS EN ISO 1 40-4: 1998 & ISO 717-1)

45dB - 65dB Sound Test

USAGE OF BESTABORD™

1. It complements wood and light gauge steel framing to form the dry wall system.
2. Can be used in conjunction with metal decking or the galvanized steel purlin system as a complete dry floor system.
3. Easily installed.
4. Can be painted on without prior preparations. Do not need to plaster as smooth polished finish.
5. Can be tiled on with ceramic tiles and other wall surfaces including wet areas.



a 6 Rydall Vale Office Park, 10 Douglas Saunders Drive, La Lucia Ridge 4159, Durban, South Africa
t +27 31 566 2082 w www.bestabord.com



"THE ONLY BOARD FOR ALL YOUR CONSTRUCTION NEEDS"



ABOUT BESTABORD™



Eskom's Kusile Power Station

BESTABORD™ is the only Non-combustible construction board material with the widest range of Applications for all types of Commercial and Residential Projects. Usable for both INDOOR and OUTDOOR purposes.

Higher Grade and Improved to the conventional Gypsum or Cement Boards, it is also Fireproof and also resistant to Water, Humidity, Freezing, Insects and more. Developed through Years of extensive field tests, research and improvement. BESTABORD™ undergoes strict Quality Control (QC) during production to create the Top Best quality boards that is superior than other board manufacturer in the South Africa.

CHARACTERISTICS

- 1. Fire Resistant
- 2. Water Resistant
- 3. Impact Resistant
- 4. Mold Resistant
- 5. Termite Resistant
- 6. Sound Insulation
- 7. Thermal Insulation
- 8. Freeze Thaw Resistance
- 9. Non-Toxic
- 10. Easy to Install

COMPOSITION

- 1. Magnesium Oxide (MgO)
- 2. Magnesium Chloride (MgCl₂)
- 3. Natural Silicate (SiO₄)
- 4. Fiber Glass Mesh
- 5. Additives



FIRE RESISTANT

Fire Resistance: 2 Hours. With low rate of heat conductivity, BESTABORD™ can prevent fire effectively and protect the structure from fire damage. BESTABORD™ has been SABS and SETSCO approved and is of the highest standard.



NON - RADIO ACTIVE / NON - TOXIC

Radioactive Rate: 12µ/h. BESTABORD™ tested as a non-radio active, environment friendly construction material.



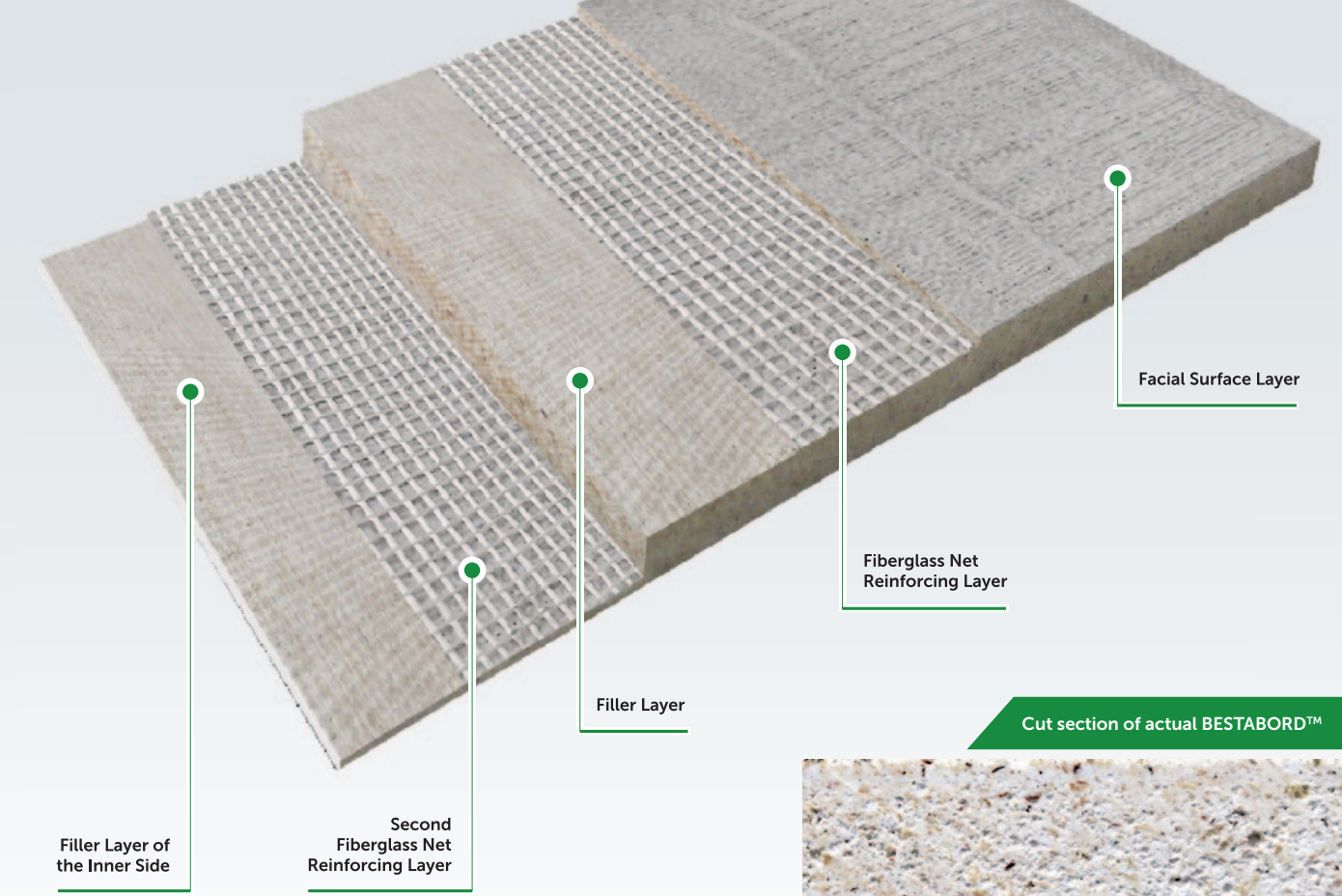
THERMAL INSULATION

R-Value of 1.3W/m²k. Maximum summer temperatures in BESTABORD™ building system dwellings will be much cooler than those experienced in a Standard Brick House (SBH).



SOUND INSULATION

Sound Performance: With 2 Boards Walling System tested at 45dB and 3 Boards Walling System tested at 65dB. Excellent when dividing spaces in your projects.



WORLD'S MOST VERSATILE BESTABORD THAT CAN BE USED IN:



Internal Wall



External Wall - Cladding



Ceiling



Roof



Floor



Fencing

TECHNICAL PROPERTIES

1. Density	900 - 1300 kgs/m ³
2. Thermal Conductivity (ASTM C 518)	0.132 w/m.k
3. Thermal Resistivity	0.0758 m ² .K/W
4. Linear Thermal Shrinkage (ISO TR1896 Cl.6.7)	Max. 2.3% after subject to 950 °C for 4 hours
5. Modulus of Elasticity	6045 N/mm ²
6. Water Tightness (ASTM C 1185 C1.10)	No Sign of water droplets or dampness formed for 24hrs
7. Water Absorption by Mass (ASTM C 1185 C1.9)	21.60%
8. Average Linear Change (ASTM C 1185 C1.8)	0.21%
9. Average Moisture Content (ASTM C 1185 C1.10)	7.50%
10. Toxicity	None
11. Recyclable	Yes

SIZES

Dimensions in mm	*Customised sizes are available
Length	2400 , 2440 , 3050 , 3600
Width	1200 , 1220
Thickness	3 ~ 30

NOMINAL TOLERANCES

Length	± 3 mm
Width	± 2 mm
Thickness	± 0.3 mm
Diagonal	± 5 mm



BESTABORD™ Fire test



Vodacom Midrand