

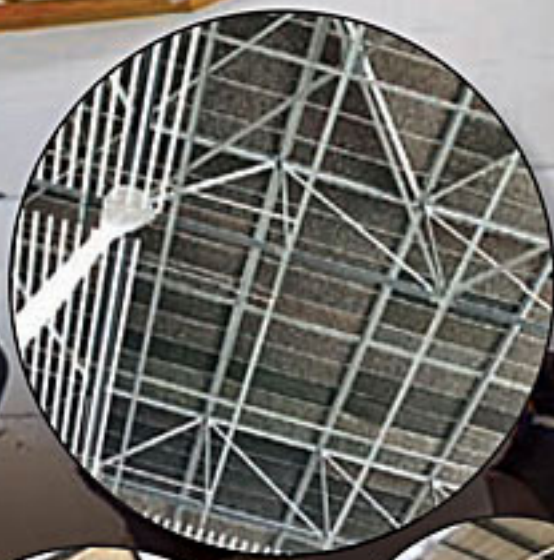


THERMOCOUSTEX



INSTALLATION MANUAL

FRAME RECYCLED FIBRE PRODUCTS • FRAME RECYCLED FIBRE PRODUCTS • FRAME RECYCLED FIBRE PRODUCTS



**“3 in 1
barrier
insulation”**

- HEAT RESISTANT
- COLD RESISTANT
- NOISE RESISTANT

www.thermocoustex.co.za



SPECIFICATIONS

THERMOCOUSTEX BOARD

Description: Butt edged ceiling panels in varying sizes.

Application: Suitable for domestic, commercial and industrial ceilings when acoustic and thermal insulation are required. We would suggest that a foil or DPC laminate is used over purlin to prevent condensation if our ceiling products are being used.

Properties: Does not contribute to flame spread. Complies to SANS 428 Fire Standard; Test reports; FTC 07/149 B1,B2, H – 25mm Plain Board; FTC 08/049 B1,B2,H – 120mm Plain Board; FTC 08/081-A B2,B3 – 25mm Plaster Board; FTC 08/033-B B1,B2 – 35mm Vinyl Faced Board; FTC09/049 60mm MetroBoard

Benefits:

- The best acoustical performance of any acoustical ceiling tiles
- The only acoustical ceiling tile offering superb thermal insulation
- Performs exceptionally well in high humidity areas (up to 95% RH)

Packaging: Corrugated cardboard corners, and wrapped in plastic.

Finishes: Whitish product, unpainted - suspended ceilings, panels are laminated with a vinyl finish, plasterboard.

Sizes: Width: 593mm, 600mm, 1200mm
Length: 1193mm, 1200mm, 1500mm, 1800mm, 2100mm, 2400mm, 2700mm, 3000mm, 3300mm, 3600mm.

Thermal Conductivity:
0,034 W/m.K

Profile: Butt joint
NRC Value: 0,55 - 1,1

R- Value:

25mm 0,74m².K/W
35mm 1,03m².K/W
50mm 1,44m².K/W

Weight:

25mm 1,25 kg/m²,
35mm 1,80 kg/m²,
50mm 2,30 kg/m²
25mm PlasterBoard 2, 00kg/m²
35mm PlasterBoard 2, 80kg/m²

Density: 50 kg/m³ - 600kg/m³ (Plasterboard 87.5 kg/m³)

Applications:

- Retro fit nail up ceiling application
- Top Hat installation
- Silent Floor application
- Suspended ceiling application
- Over Purlin installation
- Over Purlin installation – foil faced flap joint
- Cavity wall - brick
- Dry wall
- Nail up ceiling application

NB To prevent damage please refer to site handling specifications (www.thermocoustex.co.za)

THERMOCOUSTEX FIBER INSULATION

Description: Acoustic and thermal insulation blanket, and foil faced.

Application: Suitable for domestic roofing and cavity walls for wooden houses where acoustic and thermal insulation is required. When using downlighters, ensure that a 100mm hole is cut around the fiber that is laid on top of ceilings.

Properties: Does not contribute to flame spread non-corrosive, lightweight and made to length to reduce waste. (allow three weeks lead time). Improves acoustics for a better working environment. Saves on energy bill by reducing heat losses and air-conditioning energy.

Packing: Polythene tube	Rolls: 600 – 1400mm Wide 5m – 10m Long
Thermal Conductivity: 0,038 W/m ² °C	NRC Value: 0,55 - 0,87
R- Value: 50mm 1,31 m ² .K/W	Density: 24 kg/m ³ - 80kg/m ³
Weight:	
50mm 1,20 kg/m ² - 4,00 kg/m ²	25mm 0,70 kg/m ² - 2,00 kg/m ²

Applications:

- Plain, on top of ceilings for acoustic properties
- Dry wall and brick cavity wall applications
- Over Purlin installation guidelines



NAIL UP CEILING (THERMOCOUSTEX BOARD) - CODE OF PRACTICE



1) Fit battens/Tee sections to trusses at 300mm centers



2) Screw/nail fix ThermocousteX plasterboard to grid using screws at 200mm centers



3) Ensure that there is a joint of between 3 -5 mm between edges of boards



4a) Once installed; - cover strips or joint tape (for skimming) can be used to cover joints and then product is painted or varnished, or;



4b) ThermocousteX Plasterboard can be primed with plaster bond and skimmed with either ThermocousteX plaster or 'Creststone'



4c) Fit polystyrene cornice to manufacturer's specifications

NB Always carry boards vertically not horizontally



4d) Once dry, paint with a good quality acrylic PVA



CODE OF PRACTICE

RETRO FIT NAIL UP CEILING APPLICATION:

- Fit shadow line, angle or H-section to wall or to trusses by positively fixing to purlins or trusses
- Slide first board (plasterboard or vinyl) into section, and fit H-section on opposite side. Positively fix H-Section to truss
- Carry on until the end and fix last board into shadow line



TOP HAT INSTALLATION GUIDELINES - THERMOCOUSTEX

- Always carry boards vertically not horizontally
- Lay ThermocousTex board in tee sections, fitted to lip of top hat. Above the top hat sections between roof sheet and board we suggest a strip of ThermocousTex Silent Floor is used to dampen any noise that may enter
- To prevent board from moving up and down, it is suggested that an angle is fitted to the top hat at the height of the boards to prevent them from moving or ensure that board is compressed against roof sheets
- Support 600mm wide board in tee sections to enable to span the purlins
- There should be a 5mm expansion joint between the butt ends of the board and the top hat section, and between t-section on width of board
- Fit roof sheeting to manufacturers specification



OVER PURLIN - CODE OF PRACTICE

BOARD OVER PURLIN INSTALLATION GUIDELINES

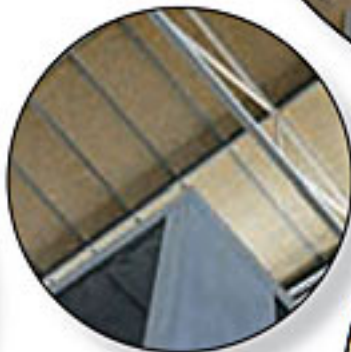
- Lay ThermocousTex board over purlin, if required double sided tape can be used to keep board in place
- Always carry boards vertically not horizontally
- Support boards in tee sections to enable to span the purlins. Over the purlin, there should be a 5mm expansion joint between the butt ends of the boards and between t-section on width of board
- Fit roof sheeting on top of board to manufacturers specifications (this should include a U-Spacer to prevent board from compressing)
- Either use a 'ThermocousTex Screw' or dip standard pozi screw into ThermocousTex lube to drill through polyester into purlin. (Please note standard screws will get caught in the polyester)
- To cut product, a 115mm angle grinder blade used for ceramic and marble tiles can be used, or alternatively sharp shears or a fine tooth jig saw blade
- Fit a normal ceiling below the trusses

BOARD OVER PURLIN INSTALLATION GUIDELINES – FOIL FACED FLAP JOINT

- Fix straining wires over purlins at 383mm centers
- Always carry boards vertically not horizontally
- Lay ThermocousTex foil faced board over purlin, if required double sided tape can be used to keep board in place
- Lift foil faced flap joints between boards, fold over and pull the foil taught to prevent creasing and staple together at 200mm centers
- On top of purlins ensure that foil is stapled together at 200mm centers
- Fit roof sheeting on top of board to manufacturers specifications (this should include a U-Spacer to prevent board from compressing)
- Standard screws can be used with the foil faced flap joint range
- To cut product, a 115mm angle grinder blade used for ceramic and marble tiles can be used, or alternatively sharp shears or a fine tooth jig saw blade

FIBER OVER PURLIN INSTALLATION GUIDELINES:

- Fix straining wires to purlins at 383mm centers to prevent material from sagging
- ThermocousTex fiber can lift roof sheets due to it's density, if this is the case we would suggest a spacer to prevent the roof sheets from battling to compress the fiber flat
- On the sides of the ThermocousTex product, overlap the foil and lift it at a 90° angle and staple together at 200mm centers to prevent sagging of the material
- At the ends of material ensure that the fiber and foil are joining over a purlin to prevent the material from sagging
- Fit roof sheeting on top of board to manufacturer's specifications
- To cut product, a 115mm angle grinder blade used for ceramic and marble tiles can be used, or alternatively sharp shears or a fine tooth jig saw blade
- Either use a 'ThermocousTex Screw' or dip standard pozi screw into ThermocousTex lube to drill through polyester into purlin. (Please note standard screws will get caught in the polyester)





APPLICATIONS

SUSPENDED CEILING APPLICATION – THERMOCOUSTEX

- Install a 1200mm x 600mm, 2400mm x 600mm or 600mm x 600mm aluminum grid system to manufacturer's specifications
- Always carry boards vertically not horizontally
- Instead of using wire hangers, it is suggested to use an angle hanger to support the grid, as it will prevent the grid from moving in high wind
- Fit 1193mm x 593mm or 593mm x 593mm into grid system, boards can be clipped down if high wind is expected. If clipping boards, ensure that trap doors are left, by marking bottom of board and fitting wooden purlins on top of board to prevent uplift



APPLICATION;

- Using a 5mm Thermocoustex Silent Floor (density 100kg/m³), the Silent Floor product will reduce the 'knocking' sound associated with wooden floors by more than 50%, it can also be used on top of screeds for double story dwellings
- Lay Thermocoustex Silent Floor on top of screed. If you are laying the product in a damp area, it is suggested that a layer of DPC is placed under the Thermocoustex
- Lay wooden or laminated flooring to manufacturer's specifications



WOODEN FLOOR SPECIFICATION:

NEW FLOOR

- Lay 50mm foil faced fiber over rafters, and fit wooden floor to rafters
 - Use a layer of 3mm Silent Floor between timber sections and the timber flooring
- Below rafters, fit a 15mm RhinoBoard ceiling, we would suggest another layer of Thermocoustex fiber on top of ceiling to further assist with noise

RETRO FIT INSTALLATION

- Existing ceiling, lay 50mm fiber over ceiling between rafters
- Below rafters, fit 15mm RhinoBoard ceiling, it is suggested that another layer of Thermocoustex fiber is fitted
- Alternatively, if it is preferred to have the rafters and wooden floors visible, add another wooden floor to the top of the current floor
 - First lay a 3mm silent floor, and then fix battens or purlins to manufacturers specifications
 - Add a 50mm foil faced fiber over wooden supports and fit floor to manufacturers specifications

These options will never take all the sound away, but noise will be reduced by approximately 50%, by adding more weight with the timber, it will prevent it further.

DRY WALL / CAVITY WALL - CODE OF PRACTICE



1) Fit studs to manufacturer's specifications



2) Fit Gypsum board or other suitable board to manufacturer's specifications and skim as required



3) Cut ThermocousTex board or fiber to fit in between dry wall studs



4) Lay ThermocousTex board or fiber to outer wall



5) Ensure that the ThermocousTex board or fiber is positively fixed to top stud to prevent from fling



6) Complete dry wall by fixing outer boards to framework and fix and finish 'to manufacturers specifications'.

BRICK - CAVITY WALL - CODE OF PRACTICE

- 1) Build inner cavity up to 600mm with walls ties, clean any additional mortar from cavity.
- 2) Fix ThermocousTex board or fiber through wall ties against wall.
- 3) Cut board or the roll to fit height of wall, ensure that you start with bottom of roll, so that the roll can be rolled out to reach the top of the cavity.
- 4) Build outer edge of cavity and clean, in accordance with NHBRC specifications.
- 5) Then build inner cavity and carry on as above.



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Thermocoustex is an environmentally, and people friendly, polyester board or fiber that is used for ceilings, thermal insulation & acoustic insulation in the building sector.

Fitting Thermocoustex doesn't require any protective clothing or breathing apparatus thanks to its quick, clean and labour friendly installation procedures. Over the past 5 years the properties and applications of ThermoCoustex have been thoroughly evaluated to ensure a high standard of quality.

Thermocoustex products are well suited to: all types of Housing, Churches, Airports, Shopping Centres and Industrial applications to name a few.

Thermocoustex products are manufactured by a unique machine using technology that enables Frame Industrials to make various derivatives of the polyester blend, for example a soft fibre with varying densities up to 100kg/m³, or board products with densities ranging from 40kg/m³ to 70kg/m³.

The products are available in three finishes, plain, foil laminated or vinyl laminated.



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For further details contact:

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