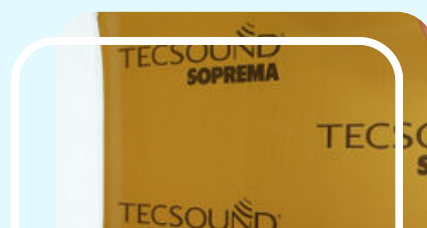


# PRODUCT CATALOGUE



# Twigainsul Resin Bonded Glass Wool

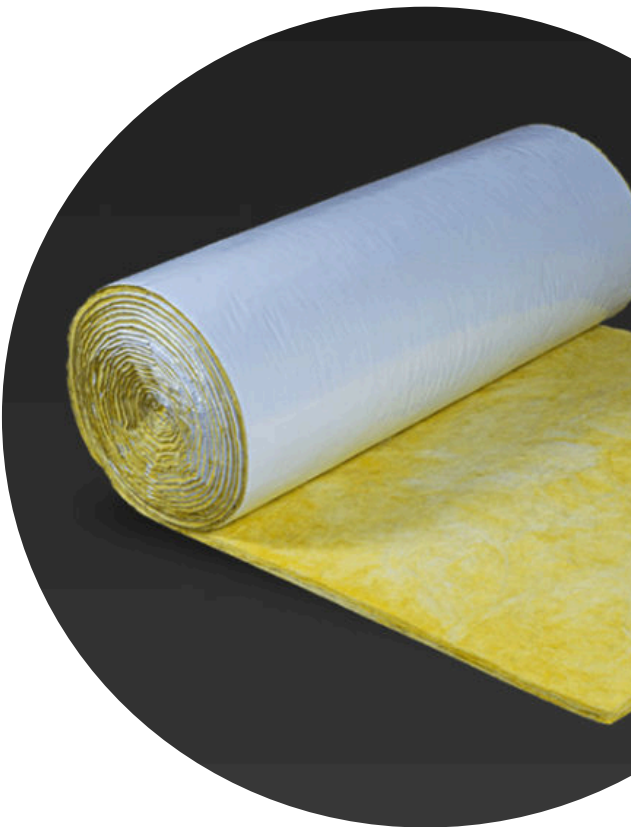
## Range

- Density : 10 to 48 kg/m<sup>3</sup>
- Thickness : 25 to 130 mm
- Width : 1.1 to 1.2 m
- Length : 7.5 to 30 m

Available with or without facing

## Facings

- Aluminium : FSK, R3035HD, Aluglass
- Polypropylene : White Metalized Polypropylene
- Tissue : FGT, BGT



Parameter	Values	Standards
Thermal Conductivity (W/m.K)	0.030 to 0.041 at 25°C mean temperature	IS 8183, IS 3346
Thermal Resistance at Specific Thickness (m <sup>2</sup> K/W)	For 25 mm: 0.6 to 0.8 m <sup>2</sup> K/W For 50 mm: 1.2 to 1.6 m <sup>2</sup> K/W Calculated as per thickness and thermal conductivity of insulation	
NRC	0.65 to 0.95	ASTM C-423 / ISO 354

Parameter	Values	Standards
Non-combustibility	Non-combustible / Incombustible, Reaction to Fire 'A1'	BS 476 Part 4, IS 8183 EN 13501
Surface spread of flame	NIL, Class 1	BS 476 part 7
Fire propagation	Class 0, index I <12, sub-index i1 <6	BS 476 part 6 and 7
Moisture content	Less than 2%	IS 3144, IS 8183
Shot content	NIL	IS 3144, IS 8183
Sulphur / Chloride	Negligible	IS 3144, IS 8183
Mold growth	None	IS 3144, IS 8183
Alkalinity	pH 7 to 10	IS 8183

Environment	Fire	Health Safety	Standards Compliance
			
			
			

Applications:



BUILDINGS



HVAC



AUTOMOBILE



AVIATION

# Twigainsul Rigid Board

## Range

- Density : 32 to 120 kg/m<sup>3</sup>
- Thickness : 15 to 100 mm
- Width : 1.2 m
- Length : 0.6 m

Available with or without facing

## Facings

- Aluminium : FSK, R3035HD, Aluglass
- Polypropylene : White Metalized Polypropylene
- Tissue : FGT, BGT
- Glass Cloth : WGC, BGC




Parameter	Values	Standards
Thermal Conductivity (W/m.K)	0.030 to 0.034 at 25°C mean temperature	IS 8183, IS 3346
Thermal Resistance at Specific Thickness (m <sup>2</sup> K/W)	For 25 mm: 0.76 to 0.8 m <sup>2</sup> K/W For 50 mm: 1.52 to 1.6 m <sup>2</sup> K/W Calculated as per thickness and thermal conductivity of insulation	
NRC	0.65 to 0.95	ASTM C-423 / ISO 354


Parameter	Values	Standards
Non-combustibility	Non-combustible / Incombustible, Reaction to Fire 'A1'	BS 476 Part 4, IS 8183, EN 13501
Surface spread of flame	NIL, Class 1	BS 476 part 7
Fire propagation	Class 0, index I <12, sub-index i1 <6	BS 476 part 6 and 7
Moisture content	Less than 2%	IS 3144, IS 8183
Shot content	NIL	IS 3144, IS 8183
Sulphur / Chloride	Negligible	IS 3144, IS 8183
Mold growth	None	IS 3144, IS 8183
Alkalinity	pH 7 to 10	IS 8183

Environment	Fire	Health Safety	Standards Compliance
			
			
			


Applications:




BUILDINGS



HVAC



AUTOMOBILE



AVIATION



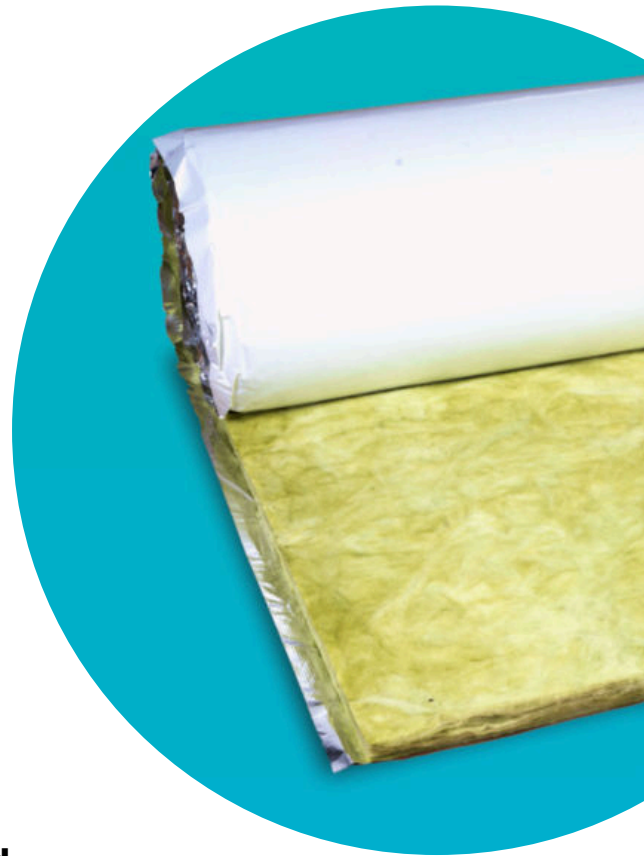
# Twigainsul Ecoinsul

## Benefits:

- Green Binder
- Odourless
- Formaldehyde Free
- Soft To Touch
- Available In Both Roll And Board Form

## Facings

- Aluminium : FSK, R3035HD, Aluglass
- Polypropylene : White Metalized Polypropylene
- Tissue : FGT, BGT
- Glass Cloth : WGC, BGC



## Range for Roll

- Density : 10 to 48 kg/m<sup>3</sup>
- Thickness : 25 to 130 mm
- Width : 1.1 to 1.2 m
- Length : 7.5 to 30 m

Available with or without facing

## Range for Board

- Density : 32 to 120 kg/m<sup>3</sup>
- Thickness : 15 to 100 mm
- Width : 1.2 m
- Length : 0.6 m

Available with or without facing

Parameter	Values	Standards		
Thermal Conductivity (W/m.K)	<b>Roll:</b> 0.030 to 0.041 at 25°C mean temperature <b>Board:</b> 0.030 to 0.034 at 25°C mean temperature	IS 8183, IS 3346		
Thermal Resistance at Specific Thickness (m² K/W)	<table><tr><td><b>Roll:</b> For 25 mm: 0.6 to 0.8 For 50 mm: 1.2 to 1.6</td><td><b>Board:</b> For 25 mm: 0.76 to 0.8 For 50 mm: 1.52 to 1.6</td></tr></table>	<b>Roll:</b> For 25 mm: 0.6 to 0.8 For 50 mm: 1.2 to 1.6	<b>Board:</b> For 25 mm: 0.76 to 0.8 For 50 mm: 1.52 to 1.6	
<b>Roll:</b> For 25 mm: 0.6 to 0.8 For 50 mm: 1.2 to 1.6	<b>Board:</b> For 25 mm: 0.76 to 0.8 For 50 mm: 1.52 to 1.6			
NRC	0.65 to 0.95	ASTM C-423 / ISO 354		

Parameter	Values	Standards
Non-combustibility	Non-combustible / Incombustible, Reaction to Fire 'A1'	BS 476 Part 4, IS 8183, EN 13501
Surface spread of flame	NIL, Class 1	BS 476 part 7
Fire propagation	Class 0, index I <12, sub-index i1 <6	BS 476 part 6 and 7
Moisture content	Less than 2%	IS 3144, IS 8183
Shot content	NIL	IS 3144, IS 8183
Sulphur / Chloride	Negligible	IS 3144, IS 8183
Mold growth	None	IS 3144, IS 8183
Alkalinity	pH 7 to 10	IS 8183

Environment	Fire	Health Safety	Standards Compliance
			
			

Applications:



BUILDINGS



HVAC



AUTOMOBILE

# Twigainsul Pipe Insulation

## Benefits:

- Preformed Pipe Sections
- Rigid
- Easy and Fast Installations
- Customisable

## Facings

Aluminium : FSK

## Range for Pipe Sections:

- Density : 80 kg/m<sup>3</sup>
- Thickness : 25 to 75mm
- Length : 1.2 m
- Diameter NB: 25 to 450 mm

Available with or without facing

## Range for Lamella Mat:

- Density : 80 kg/m<sup>3</sup>
- Thickness : 25 to 75 mm
- Length : 0.9 m
- Diameter NB: 350 to 1400 mm




Available with or without facing



Parameter	Values	Standards
Thermal Conductivity (W/m.K)	0.031 at 25°C mean temperature	IS 8183, IS 3346
Thermal Resistance (m <sup>2</sup> K/W)	Calculated as per thickness, diameter and thermal conductivity of insulation	
NRC	0.65 to 0.95	ASTM C-423 / ISO 354



Parameter	Values	Standards
Non-combustibility	Non-combustible / Incombustible, Reaction to Fire 'A1'	BS 476 Part 4, IS 8183, EN 13501
Surface spread of flame	NIL, Class 1	BS 476 part 7
Fire propagation	Class 0, index I <12, sub-index i1 <6	BS 476 part 6 and 7
Moisture content	Less than 2%	IS 3144, IS 8183
Shot content	NIL	IS 3144, IS 8183
Sulphur / Chloride	Negligible	IS 3144, IS 8183
Mold growth	None	IS 3144, IS 8183
Alkalinity	pH 7 to 10	IS 8183

Environment	Health Safety	Standards Compliance
		
		

### Applications:



HOME APPLIANCES



HVAC

# Twigainsul Flexible Duct

## Benefits:

- High degree of flexibility
- Light weight
- Allows ducting around obstacles
- Easy to install
- Strong, Dimensionally stable
- Offered in both insulated and un-insulated form

## Range:

- Density **(for insulated FD)**: 16 to 32 kg/m<sup>3</sup>
- Thickness **(for insulated FD)** : 25 mm
- Length : 10 to 25 ft
- Diameter : 4 to 20 inch

Available with or without facing



## Outer Jacket:

- Alu or Met foil with fiberglass yarn reinforcement
- Acts as vapour barrier
- Tear and abuse resistant

## Inner Core:

- Double laminated film on coated tough steel wire helix

Parameter	Values	Standards
Thermal Conductivity (W/m.K)	0.032 to 0.039 at 25°C mean temperature (for glass wool)	
Thermal Resistance (m <sup>2</sup> K/W)	0.64 to 0.78 (of insulation)	

Parameter	Values	Standards
Temperature Range	0 to 90 °C	
Fire Rating	Non-combustible glass wool care	BS 476 Part 4, IS 8183
Moisture content	Less than 2%	IS 3144, IS 8183
Shot content	NIL	IS 3144, IS 8183
Sulphur / Chloride	NIL	IS 3144, IS 8183
Mold growth	None	IS 3144, IS 8183
Alkalinity	pH 7 to 10	IS 8183

Environment	Fire	Health Safety	Standards Compliance
			
			

### Applications:



HVAC

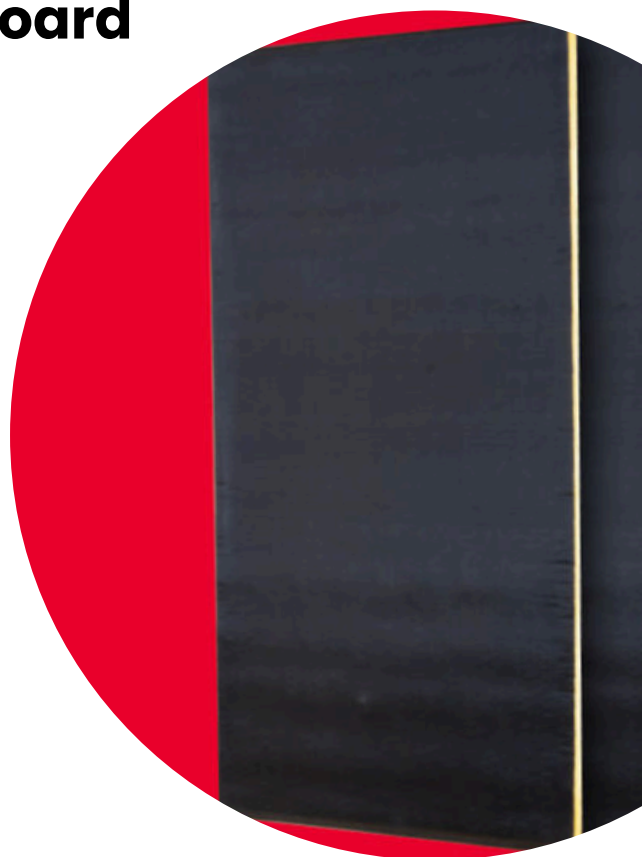
# Twigainsul Acoustic Board

## Range

- Density : 70 to 80 kg/m<sup>3</sup>
- Thickness : 25 to 50 mm
- Width : 0.6 and 1.2 m
- Length : 1.2 and 2.5 m



## Facings

- FSK on one side + BGC on the other side




Parameter	Values	Standards
Thermal Conductivity (W/m.K)	0.0306 at 25°C mean temperature	IS 8183, IS 3346
Thermal Resistance (m <sup>2</sup> K/W)	0.8 to 1.6 Calculated as per thickness and thermal conductivity of insulation	
NRC	0.65 with 25 mm thickness (0.75 with 35 mm air gap)	ASTM C-423 / ISO 354

Parameter	Values	Standards
Non-combustibility	Non-combustible / Incombustible, Reaction to Fire 'A1'	BS 476 Part 4, IS 8183, EN 13501
Surface spread of flame	NIL, Class 1	BS 476 part 7
Fire propagation	Class 0, index I<12, sub-index i1<6	BS 476 part 6 and 7
Moisture content	Less than 2%	IS 3144, IS 8183
Shot content	NIL	IS 3144, IS 8183
Sulphur / Chloride	Negligible	IS 3144, IS 8183
Mold growth	None	IS 3144, IS 8183
Alkalinity	pH 7 to 10	IS 8183

Environment	Fire	Health Safety	Standards Compliance
			
			
			

Applications:



BUILDINGS



HVAC



AUTOMOBILE

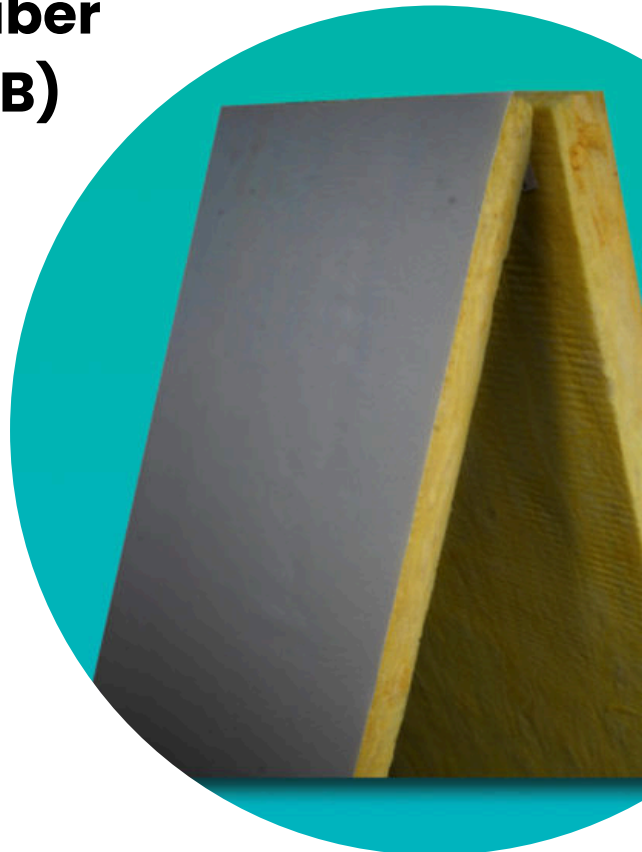
# Twigainsul Mineral Fiber Marine Board (MFMB)

## Range

- Density : 56 kg/m<sup>3</sup>
- Thickness : 25 to 75 mm
- Width : 0.6 m
- Length : 0.9 m

## Facings

- Glass Cloth: WGC



Parameter	Values	Standards
Thermal Conductivity (W/m.K)	0.030 to 0.041 at 25°C mean temperature	IS 8183
Thermal Resistance (m <sup>2</sup> K/W)	Calculated as per thickness and thermal conductivity of insulation	

Parameter	Values	Standards
Non-combustibility	Non-combustible / Incombustible	BS 476 Part 4, IS 8183
Surface spread of flame	Class 1	BS 476 part 7
Smoke Index	Less than 10	NCD 1427
Toxicity Index	Less than 5	NCD 1427
Oxygen Index	Greater than 65	NCD 1427
Water Absorption	Partial Immersion	BS 2972 Section II
Shot content	NIL	BS 2972





**Applications:**



MARINE

# COMPLETE INSULATION SOLUTIONS



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