

MicroRoof

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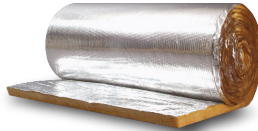
Product Description

MicroRoof is a high grade heat resisting material and noise control on acoustic absorption, which is energy saving and environmentally friendly. For roofing, both blanket and board types are available. Our products are treated with Non Water Absorption to reduce and repel water absorption, and are laminated with high quality facing from the factory. The products are manufactured in compliance with TIS 486, TIS 487, ASTM, Australian Standards and Green Building Standards.



□ Model FLS

Laminate with aluminum foil one-side facing



□ Model FLD

Laminate with aluminum foil two-side facing



□ Model ENF

Encapsulate with aluminum foil

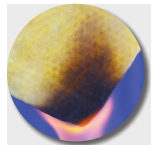


□ Model WMP

Laminate with White polypropylene film



Water Repellent



Fire Resistant

Facing Lamination

MicroRoof uses high quality facing, laminated from the factory. This results in good tensile strength, fire resistance, vapor retardant and can also be used to decorate and brighten up rooms with different kinds of facing. Facing materials that are ASTM, UL, BS Standards and FM approved can also be requested.

Application

MicroRoof is manufactured and designed for installation underneath metal sheets, roof tiles, concrete roofs, etc. In all types of roofs for factories, warehouses, office & residential buildings.

Benefits

- Excellent thermal properties.
- Sound proof and acoustic absorption.
- Lightweight, easy to install.
- Prevents condensation.
- Durable and long lasting.
- Incombustible and fire resistant.
- Water Repellent.
- Energy saving, value for money.

specifications

Properties

Property	Test Method	Specification				
Thermal conductivity	ASTM C518	12 Kg/m ³	16 Kg/m ³	24 Kg/m ³	32 Kg/m ³	48 Kg/m ³
Btu.in/ft ² .h.°F at 75 °F		0.291	0.264	0.243	0.229	0.222
W/m.K at 24 °C		0.042	0.038	0.035	0.033	0.032
Temperature range	ASTM C411	Up to 233 °C (450 °F)				
Moisture absorption	ASTM C1104	< 1.0% at 49 °C, 95% RH				
Corrosivity	ASTM C665	Does not accelerate				
Mold resistance	ASTM C665	No growth				
Surface burning characteristics	ASTM E84	Flame spread	< 25			
		Smoke developed	< 50			
Fire Test	BS 476 Part 6,7	Class	0			
	AS 1530-3	Ignitability Index	0			
		Spread of Flame Index	0			
		Heat Evolved Index	0			
		Smoke Developed Index	1			

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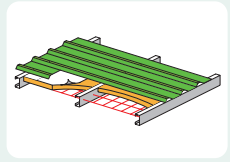
Installation Method

MicroRoof can be installed on steel roof, both on old buildings and new building. The different methods of installation are shown in pictures & diagrams below, depending on different roofing structures.



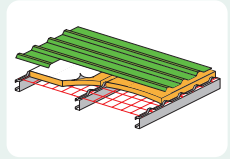
MicroRoof Installation with wire mesh in between purlin

Place the Glasswool Insulation between the purlin with wire mesh or chicken wire installed below to support. To be installed with roofing for new buildings.



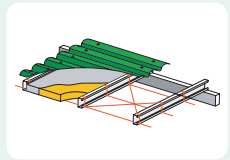
MicroRoof Installation with wire mesh above purlin

Place the Glasswool Insulation above and along the purlin with wire mesh or chicken wire supporting underneath. To be installed with roofing for new buildings.



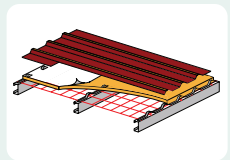
MicroRoof Installation with wire in between purlin

Supporting wire to be installed in between the purlin, with a gap of approximately 30 cm in between each other, in order to be able to slide the Glasswool insulation in. This method can be used for new and old constructions.



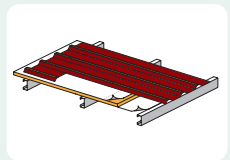
MicroRoof Installation with Glasswool across the purlin with wire mesh underneath

Glasswool installed across the purlin with supporting wire mesh above the purlin. Can be installed quickly and effectively for new construction.



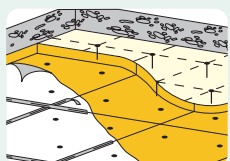
MicroRoof Installation with Glasswool across the purlin without wire mesh or chicken wire

Glasswool installed across the purlin without supporting mesh wire or chicken wire, BUT the purlin gap shall not be wider than 1.5 meters. Can be installed quickly and effectively for new construction.



MicroRoof Installed underneath concrete slab

Installation underneath the concrete slab with spindle pins or plastic cleats with the distance of around 20 to 60 cm between each other, with wires attached to be used as support. Beware of the structure of the building. Glasswool Insulation can also be installed both on new or old construction roofs.



Product Specification Size

Density (Kg/m ³)	Thickness (mm.)	Size Blanket (m x m)	Size Boards (m x m)	R-Value (m ² .K/W)		
				25 mm.	50 mm.	75 mm.
12	50	1.22 x 16.50	-	-	1.190	-
12	75	1.22 x 11.50	-	-	-	1.786
16	25	1.22 x 30.50	-	0.658	-	-
16	50 , 75*	1.22 x 15.25	-	-	1.316	1.974
24	25	1.22 x 30.50	-	0.714	-	-
24	50 , 75*	1.22 x 15.25	-	-	1.429	2.143
32	25 , 50	1.22 x 15.25	1.22 x 2.44	0.758	1.515	-
32	75*	1.22 x 7.50	1.22 x 2.44	-	-	2.273
48	25 , 50 , 75*	1.22 x 7.50	1.22 x 2.44	0.781	1.563	2.344

• Glasswool specs and facings are available upon request

* Special thickness requested

Proudly Made in Thailand

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