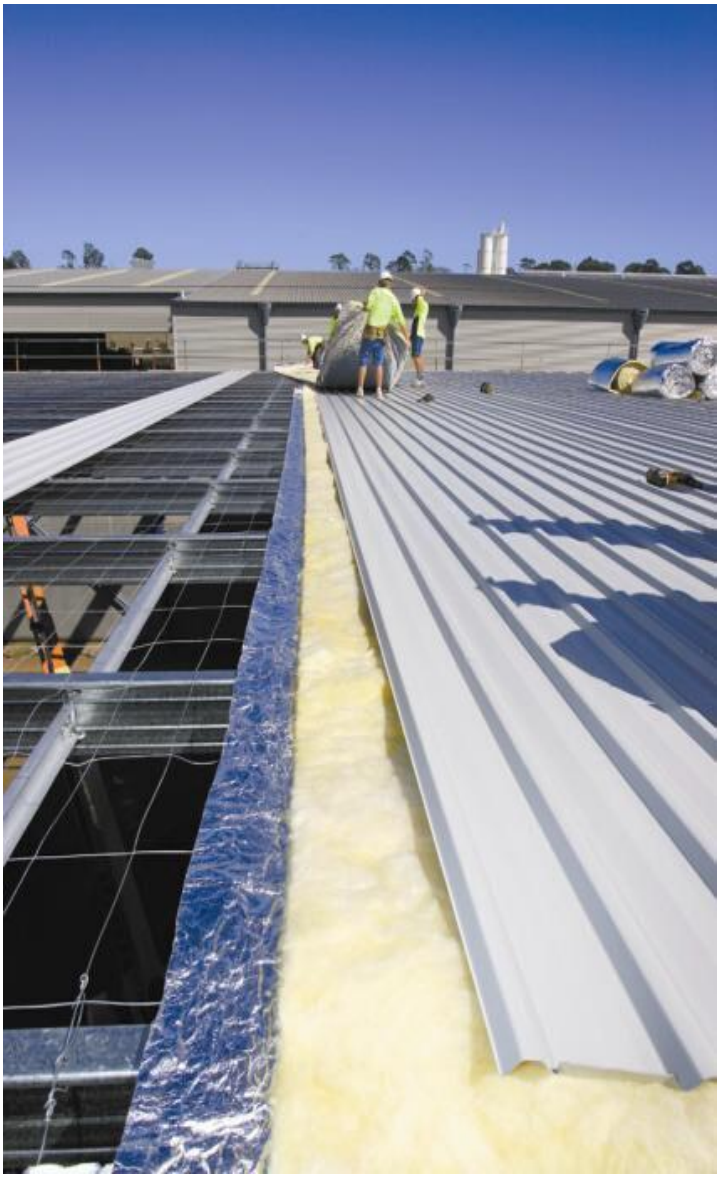
Glass Wool Blanket/Roll

For Metal Building Roofing Insulati



WE FOCUSE ON
THERMAL INSULATION

METAL BUILDING INSULAITON

United Insulation Limited
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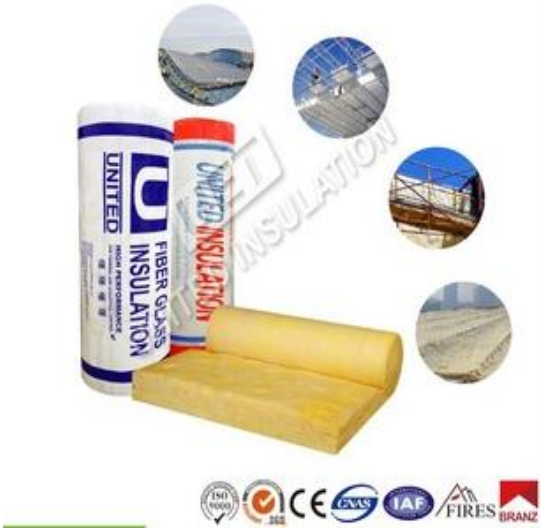
Metal Building Roofing Insulation

PRODUCT DESCRIPTION

United Insulation® Metal Building Roofing Insulation blanket are an ideal solution for thermal and acoustic insulation of both residential and commercial roofs. The glass wool has a large number of tiny air voids, to play the good role of thermal insulation, sound absorbing, corrosion resistance, stable chemical performance. There are many different laminated insulation facing can be used according to requirements. Both of faced and un-faced glass wool blanket are the best material for metal building insulation applications

AVAILABLE FORMS

Rolls: wide unfaced rolls suitable for lamination.



AVAILABLE FACINGS

FSK-40A/WMP/WMP-VR/WMP38/KRAFT

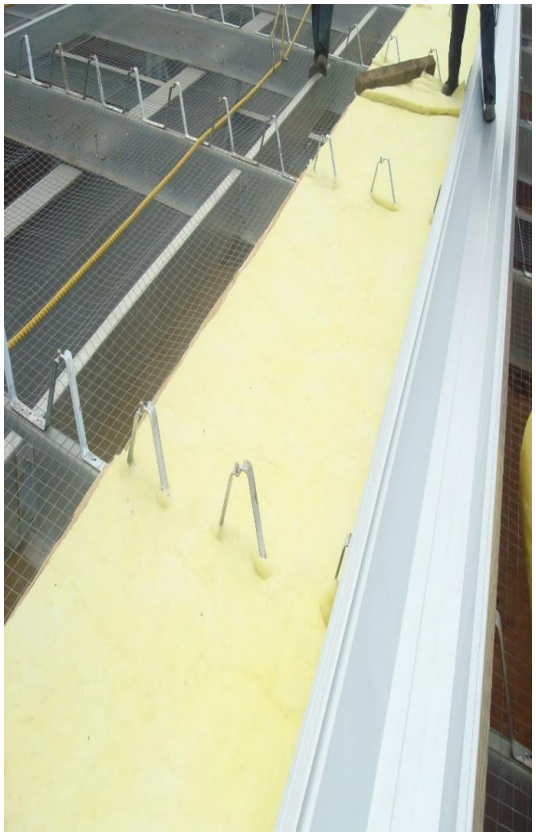
(More facing please refer to Vapor barrier series products)

APPLICATIONS

Metal buildings roofing applications.

PACKAGING

Glass wool Blanket/roll is compression-vaccumed packaged for savings in storage and freight costs.



RECOMMENDED STORAGE AND TRANSPORT

Store insulation indoors. Keep insulation clean and dry at all times. When transporting, cover completely with a waterproof tarpaulin as necessary.

SPECIFICATION COMPLIANCE

ASTM C 991, Type I (Type II when faced)

BS 3533: 1981

BS EN ISO 9001: 2000

GB/T1775-2008

FIRE PERFORMANCE

Classified as Euroclass A1 to BS EN ISO 13501-1

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Glass Wool Blanket/Rolls

AVAILABLE SIZE

Thickness (inch)	Thickness (mm)	R-value (Post-lamination) Thermal Conductivity (hr• ft2• °F)/Btu	R-value (Post-lamination) Thermal Conductivity m2•K/W	Density avaliable (kg/m3)	Roll size Width (meters)	Roll size Length (meters)
1"	25					
2"	50	1.14-1.35	0.037-0.044	10/12/14/16	1/1.1/1.2	14/15/20/30
3"	75	1.70-2.03	0.037-0.044	10/12/14/16	1/1.1/1.2	10/15/20
4"	100	2.27-2.70	0.037-0.044	10/12/14/16	1/1.1/1.2	10/15/20

Consult your local sales representative or product availability chart for other available sizes and R-values (RSI-values).

Prelamination thickness and R-value available on product label.

FACING INTRODUCTION

Facing Code		FSK-40A	WMP	WMP-VR	WMP-38	Kraft paper
Apperance		Sliver	White	White	White	Brown
Structure		4 layers composite	4 layers composite	4 layers composite	5 layers composite	2 layers composite
		Aluminum Foil Adhesive layer 3-way glass fiber Kraft paper	Polypropylene Adhesive layer 3-way glass fiber Kraft paper	Polypropylene Adhesive layer-FR 3-way glass fiber Kraft paper	Polypropylene Metalized Foil Adhesive layer-FR 3-way glass fiber Kraft paper	Polyethylene 85g Kraft paper
Item	**Test Explain**					
GSM	Weighting	90g	85g	85g	125g	90g
Steam Permeability	ASTM E96 A	3.5ng/N.s	5.1ng/N.s	5.1ng/N.s	1.51ng/N.s	4.5ng/N.s
Bursting Strength	ASTM D774	3.2kg/cm^2	3.0kg/cm^2	3.0kg/cm^2	5.6kg/cm^2	4.2kg/cm^2
Tensile Strength	ASTM C1136	4.5KN/m 3.3KN/m	5.5KN/m 4.8KN/m	5.5KN/m 4.8KN/m	10.5KN/m 9.6KN/m	7.5KN/m 7.5KN/m
Thickness		210micron	203micron	203micron	254micron	210micron
Catalysis	30days 49℃ relative Humidity	No Corrosion No Delamination	No Corrosion No Delamination	No Corrosion No Delamination	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	-40℃ 4hours	No Delamination	No Delamination	No Delamination	No Delamination	No Delamination
High Temperature Resistance	116℃ 6hours	No Delamination	No Delamination	No Delamination	No Delamination	No Delamination
Mildew Resistance	ASTM C665	No growth	No growth	No growth	No growth	No growth

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Water Resistance	23℃ 24hours	No Delamination	No Delamination	No Delamination	No Delamination	No Delamination
Luminous Reflectance	ASTN C523	Reflect	85% Reflect	85% Reflect	85% Reflect	25%Reflect
Fire Resistance	ASTM E84			Flame Propagation 25 Smoke Diffusion 50	Flame Propagation 25 Smoke Diffusion 50	
		sample	sample	sample	sample	sample

Note: other facing materials please refer to Vapor Barrier Series Products

SOUND ABSORPTION

ASTM C 423 Testing With Facing Toward Sound Source (ASTM E 795 Type "A" mounting)

Noise Reduction Coefficient (NRC)

Rounded Average of the Sound Absorption Coefficients of Four Key Frequencies

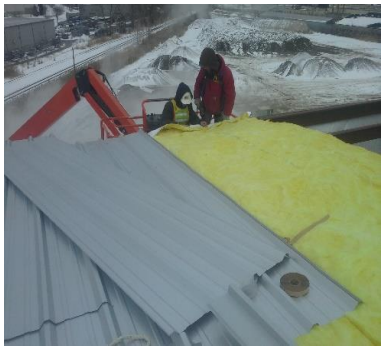
		Faced Blanket		
Type	Unfaced	Vinyl	FSK	PSK
25				
50	0.85	0.70	0.60	0.65
75	1.00	0.08	0.70	0.75
100	1.05	0.85	0.75	0.80
150	1.10	0.95	0.85	0.90

PRODUCT INSTALLATION

Roof Construction

* The facing toward to indoor side, vertical to purline, lay the glass wool blanket, reserved about 20cm blanket in one of roof side, use special clamp or double adhesive fixed it in purline most outer side.

* Cut off the glass wool wherein exceed 20cm blanket in one of roof side, use special clamp or double adhesive fixed it in purline most outer side.



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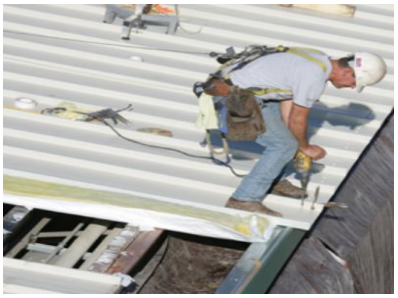
*Install roof color steel board,take off the special clamp in eaves two sides, seal it with the reserved 20cm facing.



*Between two blankets, jointing together with stapler binding in facing long edge side.

*Pay attention to keep tensioning of the glass woll,align,joint spaces between blankets,when lengthways needs to jointing, the joiner should fix up in purline.

*According to project requirement, to avoid to appearing cold bridge, may consider to fill up some hard heat insulation material in purline.

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