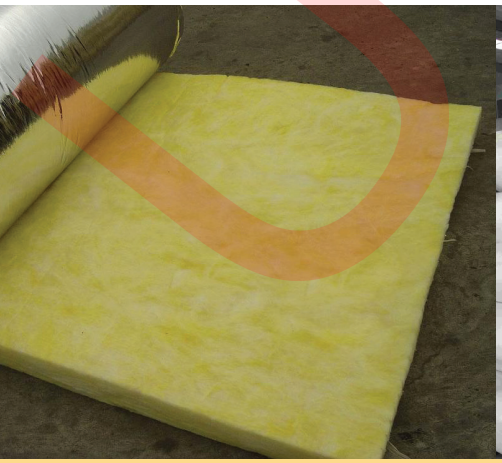
UNIDUS®
INNOVATIVE BUILDING PRODUCTS

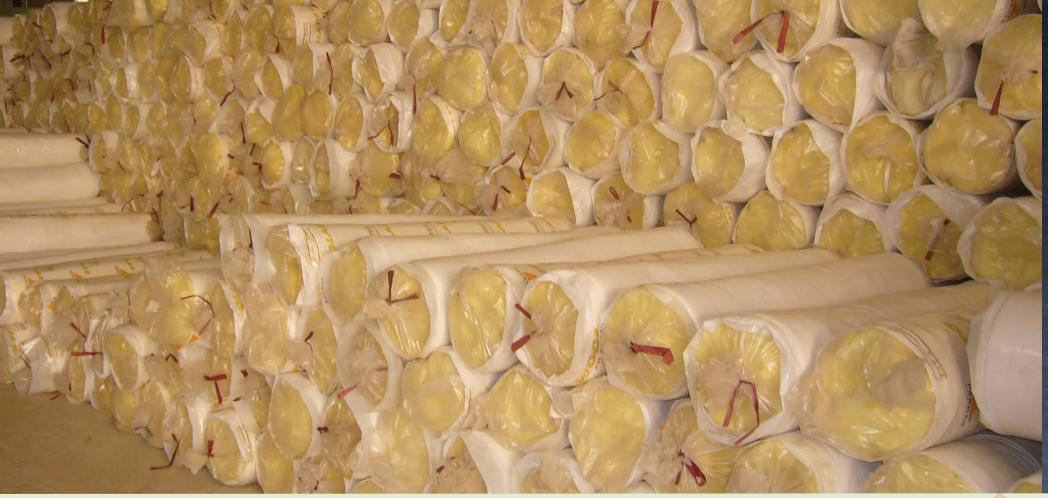
U-TONE®
HIGH PERFORMANCE CEILINGS

37 YEARS

GLASS WOOL INSULATION

U-tone Glasswool is a soft, lightweight, gold in color compressible insulation material consisting of fine, long, inorganic glass fibers bonded together by a high-temperature binder. U-Tone Glasswool is available in rolls, slabs, and blankets and with a wide range of factory-applied facings which include reinforced aluminum foil, fiberglass tissue, etc.





PROPERTIES

Acoustic Performance

U-Tone Glasswool has outstanding acoustic characteristics which help to insulate flat surfaces such as cavity wall insulation, ceiling tiles, curtain walls, ducting, etc. Whether it is sound insulation for Industries, commercial or public building applications, U-Tone glass wool outperforms every other insulating material.

Thermal Performance

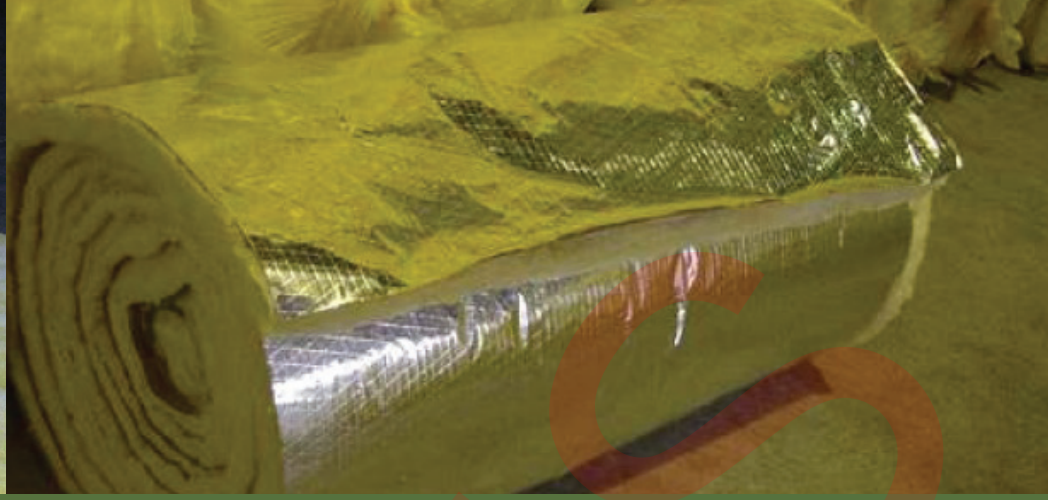
Glass wool is suitable for applications ranging from minus 195C to 135C, however, for some special applications it can bear up to 450 C with binders.

Cooling costs in a building insulated throughout with glass wool can be reduced significantly. The use of glass wool for the thermal insulation of external walls and ceilings has been shown to reduce energy consumption by 20% to 30%.

Fire Safety

U-Tone Glass Wool made from pure silica sand will not support combustion even direct, prolonged contact with flames. It emits no toxic fumes or smoke, the two biggest hazards to health and life in the event of a fire. Glass wool is a complete fire-safe product complying the following standards:

- BS (British Standard) 476 part 4, ISO 1182, IS 3808, International Maritime Organisation (IMO) - NON-COMBUSTIBLE
- BS 476 part 6 - Do not PROPOGATE FIRE
- BS 476 part 7- Class 1 - SURFACE SPREAD OF FLAME NIL
- Class O certified - Highest class for any building material - index of performance
- (I) not exceeding 12, sub-index of performance (II) not exceeding 6, Class 1
- BS 476 part 5 - Class P - (not easily ignitable) - BS 6853 (toxicity index 0.65) - NON EMISSION OF SMOKE & TOXIC GASES



Moisture Resistant

U-Tone Glasswool has outstanding acoustic characteristics which help to insulate flat surfaces such as cavity wall insulation, ceiling tiles, curtain walls, ducting, etc. Whether it is sound insulation for Industries, commercial or public building applications, U-Tone glass wool outperforms every other insulating material.

Bacteria & Germ-Free

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Flexible, Elastic & Lightweight

Glass wool is a soft and lightweight material that is easy to install and won't settle over time. It can be compressed to of its original volume, makes it easy to transport.

Product Dimensions

PRODUCT NAME	DENSITY/ THICKNESS	WIDTH	LENGTH	AREA
GLASS WOOL	10 KG/ 50MM	1.2 M	15 M	18 SQM
GLASS WOOL	12 KG/ 50MM	1.2 M	15 M	18 SQM
GLASS WOOL	16 KG/ 50MM	1.2 M	15 M	18 SQM
GLASS WOOL	24 KG/ 50MM	1.2 M	10 M	12 SQM
GLASS WOOL	32 KG/ 50MM	1.2 M	10 M	12 SQM
GLASS WOOL	48 KG/ 50MM	1.2 M	7.5 M	9 SQM
GLASS WOOL	16 KG/ 25MM	1.2 M	20 M	20 SQM
GLASS WOOL	24 KG/ 25MM	1.2 M	20 M	20 SQM

GLASS WOOL	32KG/ 25MM	1.2 M	20 M	20 SQM
GLASS WOOL WITH ALUMINIUM FOIL	12 KG/ 50MM	1.2 M	15 M	18 SQM
GLASS WOOL WITH ALUMINIUM FOIL	16 KG/ 50MM	1.2 M	15 M	18 SQM
GLASS WOOL WITH ALUMI	24 KG/ 50MM	1.2 M	10 M	12 SQM
GLASS WOOL WITH ALUMINIUM FOIL	16 KG/ 25MM	1.2 M	20 M	24 SQM

APPLICATIONS

- Offices, Conference Rooms, Seminar Halls, Public Spaces.
- Dry Wall and Cavity Wall Insulation.
- Under-Deck Insulation.
- In Auditorium, Cinema Halls, Multiplexes, Home Theaters, and Recording Studios.
- Temperature Preservation.
- In Speaker manufacturing companies and Geyser Appliances.

Other General Characteristics

SNO	FIRE TEST	TEST RESULTS	GENERAL PARAMETERS & FEATURES	DETAILS
1.	Non Combustibility	Non-Combustible	Biological	Inorganic.Does not encourage the growth of fungi and vermin
2.	Ignitibility	Designed as P	Recovery after Compression	>95%
3.	Fire Propagation	Total Index I<12 Sub Index, ,i<6	Moisture Content, Absorption	<2%, Hydrophobic
4.	Surface Spread Of Flames	Class1	Vibration and Jolting	Does not settle in verticle cavity
5.	Toxic Fumes & Smoke Density	<1	Non-corrosive	Free from sulfur and chloride content

Thermal Performace Of U-Tone Drywall Insulation For Building Envelope/External Wall and Roof

INSULATION PRODUCT IN DRYWALL CONSTRUCTION FOR ENVELOPE WALL OR ROOF	THERMAL CONDUCTIVITY (W/MK)	THERMAL RESISTANCE (M2.K/W)	THERMAL TRANSMITTANCE FOR A SYSTEM (U-VALUE IN W/SQ.MK)
U-Tone 12Kg/50mm	K-0.041	R-1.2 x 2 layer = R-2.4	U<0.41
U-Tone 16Kg/50mm	K-0.039	R-1.28 x 2 layer = R-2.56	U<0.39
U-Tone 24 Kg/50mm	K-0.036	R-1.38 x 2 layer = R-2.78	U<0.35

Some More Acoustic Partition System with U-Tone Drywall Insulation Products

97Mm Thick Drywall Partition System	Construction Element	Tested Stc/ Rw Value	Insulation Product Code
Outer board	12.5mm Gypsum Board		
Stud	70mm		
U-Tone Fiberglass Insulation (Installed in the Stud Cavity)	Density: 12Kg/m3 Thickness:50mm	STC-43, Rw-45	T1 750/50
Inner Board	12.5mm Gypsum Board		

20mm Thick Drywall Partition System	Construction Element	Tested STC/ Rw value	Insulation Product Code
Outer Board-Double Layer	12.5mm Gypsum Board x 2		
Twin Stud with Airgap	70mm x 2		
U-Tone Fiberglass Insulation (Installed in the Stud Cavity)	Density:20Kg/m3 Thickness:50mm	STC-56, Rw-56	T1 1250/50
Inner Board-Double Layer	12.5mm Gypsum Board x2		

163 mm Thick Drywall Partition System	Construction Element	Tested STC/ Rw value	Insulation Product Code
Outer Board--Double Layer	12.5mm Gypsum & 8 mm Cement Board		
Twin Stud with Airgap	51mm x 2		
U-Tone Fiberglass Insulation (Installed in the Stud Cavity)	Density:20Kg/m3 Thickness:50mm	STC-58, Rw-58	T1 1250/50
Inner Board-Double Layer	12.5mm Gypsum & 8 mm Cement Boar		



BENEFITS

- Glasswool makes a significant contribution to ensuring safe workplaces by providing efficient thermal insulation
- Protecting personnel from hot surfaces
- Reducing energy consumption
- Reducing fluctuations of the temperature in buildings, creating a safer work environment, whilst improving personal comfort and efficiency.
- Excellent acoustic insulation, reducing noise pollution and improving personal comfort and privacy in the work or home environment.
- No absorption of moisture from the atmosphere and a neutral pH, no risk of harmful chemicals leaching from the product or corrosion.
- Lightweight, resilient, easy to install and won't settle over time.
- Proven long term insulation performance and cost-effective.
- High Performing insulating product which delivers acoustic isolation at one-third of the density or weight of nearest competitive material.

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