



ISOVER Eco

Acoustic Partition Roll

Technical & Safety Data Sheet

ISOVER ECO ACOUSTIC PARTITION ROLL

TECHNICAL DATA SHEET



DESCRIPTION

Product Description

ISOVER Eco Acoustic Partition Roll is a non-combustible glass mineral wool roll for sound insulation in partitions, linings and ceiling systems. The product provides a strong, resilient and flexible insulating mat, which is easy to cut, handle and install and will not slump under its own weight when suspended vertically.

Durability

- Made from rot-proof non-hygroscopic materials
- Dimensionally stable
- Will not accelerate corrosion with steel, copper or aluminium
- Will not sustain vermin, nor breed or promote fungi or bacteria

Advantages

- Formaldehyde free* for improved indoor air quality
- Non-combustible
- Odourless
- Lightweight
- Easy to handle and install
- Contributes toward meeting local and international building regulations for internal walls, party walls and floors for sound insulation requirements
- Good thermal performance
- Fully compatible with all standard building materials and components
- Guaranteed lifetime performance as part of the Gyproc SpecSure™ system warranty

*Detection limit is 0.01 ppm. Result of testing to ASTM D6007 is "Not detected"

Fire Safety

Non-combustible when tested in accordance with BS476, ASTM E84 & E136. Euroclass A1 fire rating when classified under BS EN 13501-1.

ENVIRONMENTAL INFORMATION

ISOVER Eco Acoustic Partition Roll products are made from glass mineral wool, one of the most environmentally friendly insulants available.

Sustainable

ISOVER Eco Acoustic Partition Roll products are manufactured from silica sand, the earth's most abundantly occurring mineral and a sustainable, infinite resource.

Recyclable

Approximately 80% of the raw material used in the production of ISOVER Eco Acoustic Partition Roll products is recycled, far more than any comparable product. The recycled material can be post-consumer glass or waste glass from flat glass manufacture, which would otherwise go to landfill.

Environmental

The manufacturing process does not use or contain CFC's, HCFC's or other damaging gases - nor has it ever. In addition, the unique resilience of ISOVER glass mineral wool enables high compression packing which means more insulation in a smaller space than almost any other insulant. The result is better vehicle utilisation, reducing the environmental impact of transportation.

ISOVER Eco Acoustic Partition Roll is the only acoustic insulation quilt fully tested and approved for use with Gyproc drywall systems covered by the SpecSure® Performance Warranty.

PRODUCT DATA

Material Composition	Manufactured primarily from recycled glass, natural sand and other additives. Molten glass is spun forming fibres and bonded together using a special bio based binder.
Colour	Ivory
Standard densities	16 kg/m ³ for unfaced 24 kg/m ³ for tissue faced Other densities available upon request
Facing	Unfaced and tissue faced
Maximum use temperature	232°C
Linear shrinkage	Less than 1 %
Water vapor absorption	Less than 1 % by volume
Surface burning characteristics	
(a) Flame spread index	< 25
(b) Smoke developed index	< 50
Odour emission	No unpleasant odours detected
Corrosiveness to steel	No corrosion
Flexibility	Flexible
Non-fibrous (shot) content	None
Noise reduction coefficient (NRC value)	0.70 (25mm) 0.95 (50mm) 1.05 (75mm) 1.05 (100mm)
Global warming potential (GWP)	< 5
Ozone depletion potential (ODP)	0

Dimensions and thermal performances

Facing	Thickness	Width	Standard Length ¹	Thermal Conductivity ²	Thermal Resistance
	mm	m	m	W/mK	m ² K/W
Unfaced	25	1.2	20	0.039	0.641
	50	1.2	20	0.039	1.282
	75	1.2	10	0.039	1.923
	100	1.2	10	0.039	2.564
Tissue faced	25	1.2	20	0.035	0.714
	50	1.2	20	0.035	1.428

¹ Other lengths available upon request

² At 25°C mean temperature

STANDARDS

ASTM C553 - 13: Standard Specification for Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Application

ASTM C665 - 17: Standard Specification for Mineral Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing

ASTM E136 - 19a: Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C

ISOVER ECO ACOUSTIC PARTITION ROLL

MATERIAL SAFETY DATA SHEET



HEALTH & SAFETY

1. Identification of the substances/ preparation and company

ISOVER Eco Acoustic Partition Roll

Supplier Saint-Gobain Gyproc Emirates Industries L.L.C
ICAD 1, Mussafah
Abu Dhabi
United Arab Emirates
P.O. Box 38983
Free Phone: +971 800 GYPROC (497762)
E-Mail: gyproc-me@saint-gobain.com

2. Recommended uses

Acoustic insulation for residential, non-residential, commercial and industrial application used as an integral part of Gyproc drywall partition, wall lining and ceiling systems.

3. Material composition

Glasswool blanket insulation composed of glass processed from the molten state into fibrous form and bonded with a bio-based binder.

4. Information on ingredients

Chemical identity	Glass wool
Common name	Mineral wool
CAS number	Not applicable
EC number	Not applicable
Exposure limit	OSHA a. Respirable dust: 5 mg/m ³ b. Total dust: 15 mg/m ³
Ingredients	90% - 96% inert mineral wool (glass wool) fibres with oxides
Additive	4%-10% Formaldehyde free binder to bind the mineral glass wool
No carcinogenic, mutagenic and reproductive effects	

5. Hazard identification

5.1 Hazards

The effects of fibres when in contact may cause the following temporary effects:

- Skin irritation
- Eye irritation
- Respiratory irritation

5.2 Precautionary statement

Safety measures Wear appropriate protective gloves, protective glasses or goggles and ensure to wash hands after contact.

First aid measures Flush with clean water. If product adheres to skin, wash affected area with soap and water. Seek medical attention immediately if skin area feels sore or there is abnormality.

Disposal

Place in sealed, appropriately labelled plastic bag and dispose in accordance with local authority guidelines.

6. First aid measures

6.1 Description of necessary measures subdivided according to the different routes of:

Inhalation

Remove from exposure. Get medical attention if irritation persists.

Skin contact

Wash thoroughly with soap & water. Remove contaminated clothing if irritation occurs. If itch and discomfort persist seek medical attention.

Eye contact

Flush with clean water. Seek medical attention and treatment if symptoms persist.

Ingestion

Rinse lips and mouth with water. Seek medical attention and treatment if symptoms persist.

6.2 Most important symptoms/effects, acute and delayed: Not applicable

6.3 Indication of immediate medical attention and special treatment needed, if necessary: Not applicable

7. Fire fighting measures

7.1 The product is classified as non-combustible and do not pose fire hazard in use however some packaging materials may be combustible.

Suitable extinguishing media - foam, carbon dioxide, dry powder

7.2 Special protective equipment for fire fighters

Ventilation

Use sufficient natural or mechanical ventilation to maintain airborne dust concentration below threshold limit value (TLV).

Respiratory protection

Use a respirator.

Eye and face

Safety glasses, goggles or face shields should be worn when materials are being handled, fabricated or applied especially overhead.

General

Wear long sleeved, loose fitting clothing, gloves and head covering.

8. Accidental release measures

8.1 Personal precautions, protective equipment and emergency measures: Wear appropriate equipment and avoid skin & eye contact. Do not inhale dust.

8.2 Environmental precaution: Vacuum dust deposit if product is spilled on the floor. Do not scatter dust into the surrounding environment.

HEALTH & SAFETY (CONTINUED)

8.3 Method and materials for containing and cleaning up: Enclose the product in an empty container or bag and handle in the same way as other general industrial waste.

9. Handling and storage

9.1 Precautions for safe handling

Technical measures Wear appropriate equipment and avoid skin/eye contact. Do not inhale dust.

Ventilation Ventilate for exhaust to keep atmospheric concentrations less than exposure limit

Safe handling instruction Avoid direct skin & eye contact. Do not swallow or inhale dust deposit. Wash hands after use.

9.2 Storage

Packaging must not be stored under direct exposure to sunlight for prolonged period. When packaging is opened or removed, products must be stored indoors in dry areas and should be adequately covered in a sealed container for protection against ingress of water. Ensure packages are labelled accordingly, protected from physical damage and sealed when not in use.

10. Exposure control / personal protection

Control parameters Follow all applicable exposure limits. Refer to local regulations.

Engineering measures Where feasible, appropriate ventilation should be used to maintain below applicable exposure limits. Dust collection system should be used when cutting whenever necessary.

Respiratory Wearing a face mask is recommended when using products in confined atmosphere or during operations which can generate emission of dust. Use in a well ventilated area. Wear approved respiratory equipment when cutting, installing and removing the product.

Skin protection Direct skin contact can be minimized by wearing long sleeves and legged work clothes. Use of suitable gloves and head cover is recommended especially in working with the product overhead. Work clothes should be washed regularly and separately from other clothes.

Eyes/face protection Wear safety goggles or safety glasses with side shields.

11. Physical and chemical properties

Appearance Solid

Colour Ivory

Form Rolls, loose fibres

Odour Odourless

pH Not applicable

Boiling point Not applicable

Flash point Not applicable

Flammability Not applicable

Explosion limits Not applicable

Melting point Above 1000°C

Solubility Not applicable

12. Stability and reactivity

Chemical stability	No reported incompatibilities, however resin binders may be attacked by acidic, alkaline or solvent based substances. The cured resin is stable and will remain intact for the life of the product under normal conditions.
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Reactivity	Adhesive and binder burns or decomposes to carbon monoxide, carbon dioxide, carbon particulates and water.
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Possibility of hazardous reactions	None known
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Conditions to avoid	None known
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Incompatible materials	Product reacts with hydrofluoric acid
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Hazardous decomposition products	None known
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Hazardous polymerization	Will not occur
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13. Toxicological information

Inhalation

Acute The release of mineral fibres (glasswool) normal handling may cause temporary irritation to the nose and/or throat.

Chronic IARC has classified mineral wool (glasswool) as group 3 which is not classifiable as to carcinogenicity to humans.

Skin contact

Acute Mechanical dermatitis. Skin absorption does not occur.

Chronic None known

Eye contact

Acute Direct contact will cause mechanical irritation.

Chronic None known

HEALTH & SAFETY (CONTINUED)

Ingestion

Acute	Unlikely to occur under normal conditions of use. May cause temporary irritation to the stomach if ingested. If symptoms develop consult a physician.
Chronic	None known

13.1 Symptoms related to the physical chemical and toxicological characteristics

- Acute toxicity: Coarse fibres can cause temporary itching of the skin, foreign body reaction in the upper respiratory system (mucous membranes) and in the eyes.
- Delayed and immediate effects and also chronic effects from short and long term exposure: Not applicable
- Numerical measures of toxicity (such as acute toxicity estimates): Not applicable



14. Ecological information

Ecotoxicity	Neither the raw materials used nor the finished product contain any ozone depleting chemicals. This product is not classified as a hazardous air pollutant.
Persistence & degradability	Glasswool is bio-soluble and in most ecosystems it would be expected to solubilize over a period of weeks to months.
Bioaccumulative potential, mobility in soil	Binder-coated glasswool in hydrophobic, and no adverse environmental effects would be expected if accidentally released in water or soil.
Other adverse effects	None

15. Disposal consideration

Product is not considered as a hazardous waste. Place product in sealed, appropriately labelled plastic bags and dispose of in accordance with local authority guidelines. Clean area with micro equipment vacuum or wet sweep. Any waste material should be cleaned up and disposed of in accordance with local authority guidelines.

16. Transport information

Not classified as hazardous for transportation. No special transport requirements are necessary.

17. Regulatory information

Classified as non-hazardous according to international regulations.

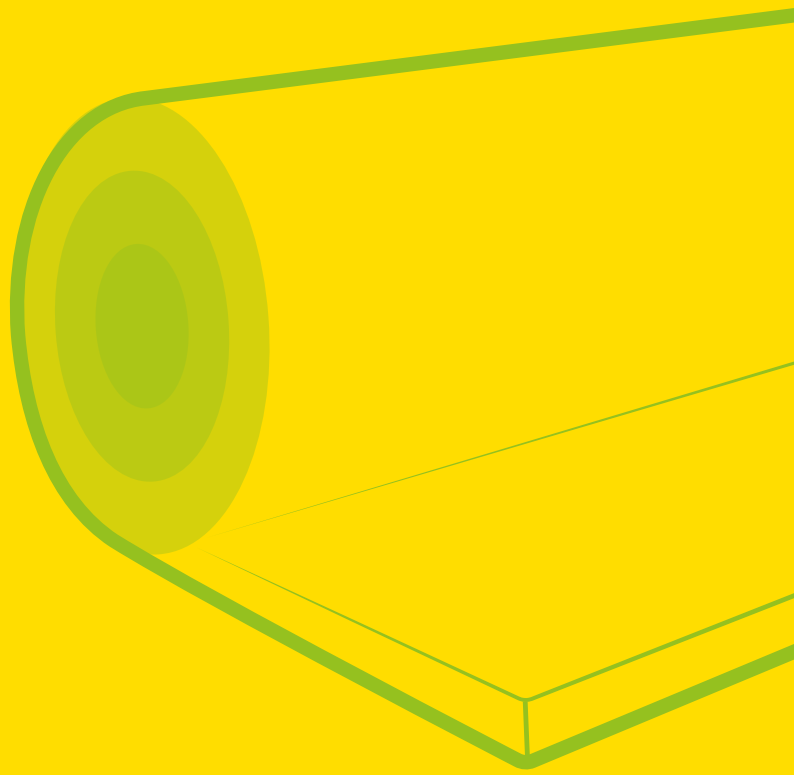
18. Other information

This product data sheet does not constitute a workplace risk assessment and all information indicated herein is developed as a guide only and upon the condition that the person receiving it shall tests to determine the accuracy and suitability specific for its purpose.



SpecSure is a unique 'off the shelf' warranty to end users that confirms Gyproc proprietary systems will perform to the parameters published in our current literature from the day they are installed.

SpecSure - a warranty for the future performance of your system.



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