

CATEGORY

BUILDING MATERIALS/COMPONENTS



PRODUCT / TECHNOLOGY



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Technology Detail

FIBRE GLASS BASED CLADDING FOR INSULATION AND ACOUSTIC PURPOSE

Alternative to conventional insulation products



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Video

CONTACT DETAILS

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BRIEF

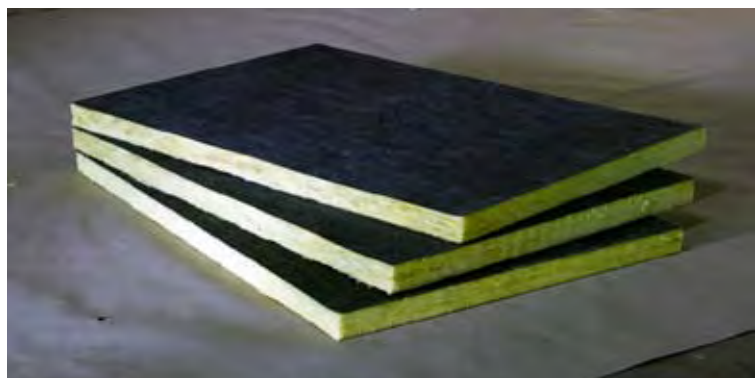
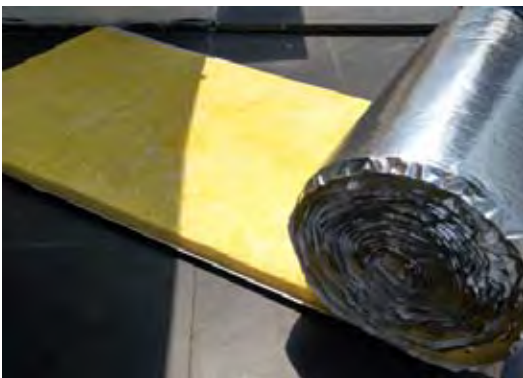
The company manufactures Fibre Glass Wool insulation products with good fire properties, resiliency and integrity. One of the recognized products for thermal and acoustic insulation, TwigaInsul is light gold in colour and is a light weight, compressible insulation material consisting of fine, long, inorganic glass fibres bonded together by a thermosetting binder.

TwigaInsul is available in flexible blankets (rolls) and slabs or boards, in various densities and thicknesses and with a wide range of factory applied facings which include reinforced fire rated aluminium foil, glass tissue, black glass tissue and a wide range of imported premium facings.

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%.

Twiga Glass Wool with its outstanding acoustic performance has excellent acoustic absorption characteristics. Whether it is sound insulation for industry, commercial premises, public buildings, or domestic applications, TwigaInsul outperforms others.

TwigaInsul glass wool made from pure silica sand will not support combustion even in direct, prolonged contact with flames. It does not emit toxic fumes or smoke, which are the two biggest health hazards during fire.



SALIENT FEATURES

- Good thermal insulation & acoustic insulation product
- Fire safe insulation Product
- Environment Friendly Green product
- Light weight, resilient & sustainable insulation
- Quality complying with national and international project requirements. Inorganic and quite inert type of insulation, hence very durable. When applied properly, it performs well through majority of the lifespan of a building.
- High Sound Transmission Class, excellent noise reduction co-efficient, non-combustibility (fire safety), Low fire propagation and Zero Flame spread and many other application oriented criteria etc.

ECONOMIC ASPECTS

- Saves energy cost – highly cost effective and provide excellent ROI.
- Excellent resource efficiency – most raw materials are acquired locally. It saves much more energy than it consume during production. Less water requirement in manufacturing.

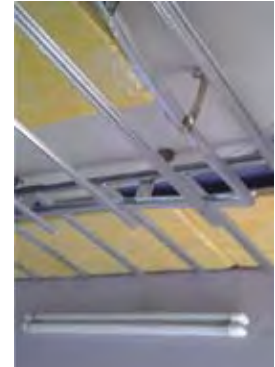


SUSTAINABILITY ASPECT

- The product has no VOC, ODPs or any other hazardous content. Owing to its excellent thermal properties, it helps to save energy consumption in a building.
- It meets all the major (insulation) criteria of Green Building. It is certified as Green Pro from CII IGBC. Certification (CII-IGBC green product approval).
- Reduces heat transfer across the insulated structure, hence saves lots of cooling or heating energy.

SUITABILITY AND AVAILABILITY

- As the material is light-weight and available in user-friendly sizes.
- As it is easy to lift, carry, lay and install. Skilled & Unskilled worker can apply the product. Time to time we are providing training to the contracting companies to ensure quality installation.
- Inorganic and quite inert type of insulation, hence very durable. When applied properly, it performs well through majority of the lifespan of a building. Superior quality complying with national and international project requirements.
- Have a wide network of channel partners across India for domestic business and also in South East Asian countries for export business.



LIMITATIONS , IF ANY

- As per Manufacturer's Specification

MARKET LINKAGES

- Available Pan India

MAJOR PROJECTS

- Supreme Court of India for building insulation and HVAC insulation- 30,000m²Jawaharlal Nehru Bha-
wan – Green Building Delhi- Wall insulation and acoustic insulation – 20,000m²
- CAPFIMS Hospital Delhi – Partition wall & Underdeck Insulation- 25,000m²
- AIIMS – various location- 100,000 m²
- Delhi International Airport Ltd – 500,000 m²
- Mumbai International Airport Limited – Various applications and quantities
- Delhi Metro Rail Corporation Ltd.
- Airport buildings (AAI) – various location
- IIT – various buildings - Delhi and other locations
- Many more Government project, infrastructure projects, green building factory/warehouses projects
all over India and Southeast Asia



CERTIFICATION/INDIAN STANDARDS/ENDORSEMENT

- ISI 8183:1993 specifications for bonded mineral wool
- Green Pro certification (CII-IGBC green product approval)
- Singapore Green Building Product certification
- ISO 9001: 2015

