

Ceiling Insulation with ECOSE® Technology

Ceiling Insulation slabs are semi-rigid boards of non-combustible, high performance glass mineral wool for internal floors, separating floors, suspended ceilings and roofs. Significantly improve the acoustic and thermal performance while minimally affecting the overall mass of the structure, reducing the hollow sound that can occur in unfilled cavities and the heat transfer. Encapsulated ceiling insulation can be used as an alternative to boards.

Application & Safety Guidelines

Storage

Protect the material from water damage or other abuse. Packaging is not designed for outside storage.

Preparation and Application

- Assess the ceiling structure and the method of installation you are to use based on the appropriate requirements established in the building code, site assessment and or plans provided. Installation must be completed to the requirements of relevant standards.
- Ensure you have the right product for the application. Check the thermal resistance rating (R-Value) and sound absorption (NRC) required on drawings/plans and that this matches the product selected. Check width between supports to determine the correct insulation width.
- Start from the furthest point ensuring the top plate is covered and work back towards the access hatch of the ceiling.
- If mechanical fastening is required, glue and apply the fasteners (stuck-up pins) on each of the ceiling tile corners.
- For faced insulation slabs, install the fabric faced surface (WGF) downwards.
- When installing, energize each slab by giving it a light shake and gently bouncing it on its side, ensuring the product expands to the thickness specified on the label.
- Insulation may be trimmed to appropriate sizes if required. Place insulation ensuring appropriate clearances from recessed lights, extractor fans, chimney elements and piping as appropriate. Where possible, place insulation **under** electrical cables.
- Where vapor retarder performance is necessary, all penetrations, joints, seams and damage to the facing should be sealed with an FSK, foil tape or glass fabric and mastic prior to system startup.
- When installing insulation slabs faced with an Aluminium Foil vapor retarder, ensure that this surface is oriented towards the hotter side.
- Posterior finishes, such as further vapor barriers, should always be applied only on the Aluminium Foil surface.
- If installing encapsulated ceiling insulation, lay each polybag on top of a ceiling tile not larger than 0.6x0.6m. Mechanical or adhesive fixation is not necessary.

Health & Safety

Glass Mineral Wool may cause temporary skin irritation. Wear long-sleeved, loose-fitting clothing, head covering, gloves and eye protection when handling and applying material. Wash with soap and warm water after handling. Wash work clothes separately and rinse washer. A disposable mask designed for nuisance type dusts should be used where sensitivity to dust and airborne particles may cause irritation to the nose or throat.

Fiberglass and Mold

Glass Mineral Wool insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold, it must be discarded. If the material is wet but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced. Air handling insulation used in the air stream must be discarded if exposed to water.

Notes

The chemical and physical properties of Ceiling Insulation with ECOSE® Technology represent typical average values determined in accordance with accepted test methods. The data is subject to normal manufacturing and testing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

Check with your Knauf Exeed Insulation sales representative to assure information is current.