

Atmosphere® Duct Wrap

Knauf Insulation Duct Wrap is used as external insulation on commercial or residential heating or air conditioning ducts. It is suitable for the exterior of rectangular or round sheet metal ducts and spaces or surfaces where temperature and condensation must be controlled.

Application & Specification Guidelines

Storage

- Inside storage is recommended
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Fabrication and Application

- Install Knauf Insulation Duct Wrap with facing to the outside to obtain specified R-value using a maximum of 25% compression.
- Butt all insulation joints firmly together. Longitudinal seam of the vapor retarder must be overlapped a minimum of 51 mm (2"). A 51 mm (2") tab is provided for the circumferential seam and must be overlapped.
- Where vapor retarder performance is necessary, all penetrations, joints, seams and damage to the facing should be sealed with an FSK, or foil tape or glass fabric and mastic prior to system startup.
- Pressure sensitive tapes should be a minimum of 76 mm (3") wide and be applied with moving pressure using an appropriate sealing tool. Staples should be outward clinch and placed approximately 152 mm (6") on center.
- Closure systems should have a 25/50 F.H.C. per UL 723 / ASTM E84
- For rectangular ducts over 610 mm (24") wide, secure the insulation to the bottom side of the duct with mechanical fasteners spaced on 457mm (18") centers to reduce sag. Care should be taken to avoid over compressing the insulation with the retaining washer.
- It is neither necessary nor desirable to adhere duct wrap to duct surfaces with adhesive.
- Unfaced Duct Wrap should be overlapped with a minimum of 2" (51 mm) and fastened with 102mm (4") to 152 mm (6") nails or skewers placed 102mm (4") apart or secured with a wire or banding system. Care must be taken to avoid damaging the duct wrap. Refer to diagram for staple stitching and butt-joint method.

HEALTH & SAFETY

Glasswool 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.

GLASSWOOL AND MOLD

Glasswool 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 Knauf Duct Wrap 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. When condensation is permitted to occur between nested Duct Wrap and galvanized steel panels, discoloration of the metal may occur.

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