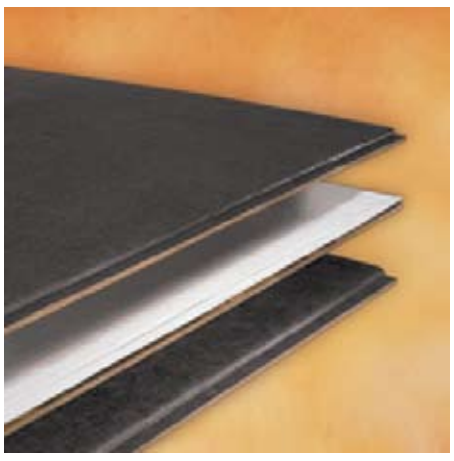
Knauf Air Duct Board-M with ECOSE® Technology

Knauf Air Duct Board-M with ECOSE® Technology and Hydroshield Technology is rigid fiber glass board bonded by ECOSE Technology. The board is faced on one side with a fire-resistant foil-scrim-kraft (FSK) vapor retarder, and its airstream surface is faced with a tightly bonded non-woven mat. Available in EI-475 or EI-800 with butt edge or factory-molded shiplap edge, it offers excellent thermal and acoustical performance.



Knauf Air Duct Board-M with Hydroshield Technology helps keep moisture from penetrating the air stream surface of the product, reducing the opportunity for water to penetrate the board. It is important to note that liquid water should be kept out of any HVAC system regardless of the materials employed. Hydroshield Technology is a product feature that enhances the water hold-out properties of the airstream surface of the product; however, it does not eliminate the opportunity for moisture to penetrate the board.

ECOSE Technology is a revolutionary new binder chemistry that makes Knauf Insulation products even more sustainable than ever. It is based on rapidly renewable bio-based materials rather than non-renewable petroleum-based chemicals traditionally used in fiber glass insulation products. ECOSE Technology reduces binder embodied energy and does not contain phenol, formaldehyde, acrylics or artificial colors.

Knauf Air Duct Board-M with ECOSE Technology and Hydroshield Technology is designed for commercial and residential air handling installations for cooling, heating or dual-temperature service where good temperature control, noise absorption and abuse resistance are required.

Features

Hydroshield Technology mat facing • Low thermal conductivity of 0.23 at 75°F (24°C) mean temperature. • Low installed cost insulated duct system.• Excellent acoustical characteristics.• Assured insulation thickness, shiplap joints and FSK vapor retarder. • If necessary, can be cleaned in accordance with NAIMA "Cleaning Fibrous Glass Insulated Air Duct Systems Recommended Practices." •Knauf Air Duct Board systems meet the fire and smoke safety regulations of most federal, state and local building codes. •Certified for indoor air quality as a low emitting product by The GREENGUARD Environmental Institute to both the GREENGUARD Certification ProgramSM and the more stringent GREENGUARD Children and SchoolsSM standard.

Sustainability

• Carbon negative: meaning Knauf insulation products used for thermal insulating purposes recover the energy that it took to make them in just hours or a few days, depending on the application. Once installed, the product continues to save energy and reduce carbon generation as long as it is in place.

Fiber glass insulation with ECOSE Technology contains three primary ingredients: ◦Sand, one of the world's most abundant and renewable resources◦Post-consumer recycled bottle glass◦ECOSE Technology which reduces binder embodied energy by up to 70%

Benefits

•Moisture hold out properties that significantly reduce the opportunity for moisture to penetrate the air stream surface. •Airstream surface is significantly more resistant to abuse than coated duct board products. •Does not support growth of mold, fungi or bacteria. •Airstream surface is 20% less porous to air than other duct board products. •Fabrication in shop environment lowers field installation time. •One craft required to fabricate and install system. •Minimum capital investment for fabrication equipment. •Portability allows for assembly or fabrication at job site. •Lower installation cost than with duct wrap and duct liner. •Quiet, efficient air delivery. •Reduces noise generated by air turbulence and mechanical equipment. •Eliminates "booming" and "cracking" sounds caused by sheet metal duct contraction and expansion. • Condensation control. •Strong thermal performance. •Code compliance.

Specification

Compliance In U.S.:

•ASTM C 1136; Type II (FSK facing) •ASTM G 21, G 22 •GREENGUARD Indoor Air Quality Certified® •GREENGUARD Children and SchoolsSM •California Title 24 •Corps of Engineers Guide Specifications •International Mechanical Code •International Building Code •NFPA 90A and 90B •UL 181; Class 1

For full details on all Knauf Fiberglass products see your local distributor listed on page 15 0f this issue.