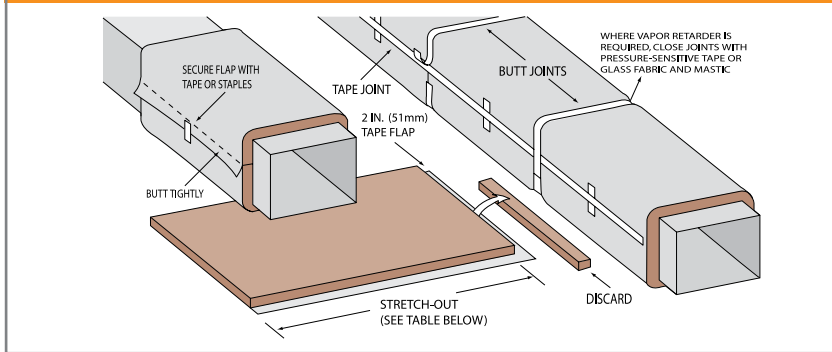


Application



Stretch-Outs

Labeled Thickness	Installed Compressed Thickness	Round	Square	Rectangular
1½" (38 mm)	1⅛" (29 mm)	P+9½" (241 mm)	P+8" (203 mm)	P+7" (178 mm)
2" (51 mm)	1½" (38 mm)	P+12" (305 mm)	P+10" (254 mm)	P+8" (203 mm)
2⅜" (56 mm)	1⅝" (42 mm)	P+13" (330 mm)	P+11" (279 mm)	P+8½" (216 mm)
2½" (64 mm)	1⅞" (48 mm)	P+14½" (368 mm)	P+12½" (318 mm)	P+9½" (241 mm)
3" (76 mm)	2¼" (57 mm)	P+17" (432 mm)	P+14½" (368 mm)	P+11½" (292 mm)

P = Perimeter of duct to be installed.

Forms Available/R-Values@75°F Mean Temperature

Density	Thickness	Width	Length	Facing	Out-Of Package R-Value	In-Installed R-Value
.75 PCF (12 kg/m ³)	1½" (38 mm)	48" (1219 mm)	100' (30.48 m)	FSK, PSK, unfaced	5.1	4.2
	2" (51 mm)		75' (22.86 m)		6.8	5.6
	2⅜" (56 mm)		75' (22.86 m)		7.4	6.0
	2½" (64 mm)		75' (22.86 m)		8.5	7.0
	3" (76 mm)		50' (15.24 m)		10.2	8.4
1.0 PCF (16 kg/m ³)	1½" (38 mm)	48" (1219 mm)	100' (30.48 m)		5.6	4.5
	2" (51 mm)		75' (22.86 m)		7.4	6.0
1.5 PCF (24 kg/m ³)	1½" (38 mm)	48" (1219 mm)	75' (22.86 m)		6.1	4.8
	2" (51 mm)		50' (15.24 m)		8.2	6.4

(TAPPI Test T803) (Beach Units)

- FSK and PSK: 25

Application & Specification Guidelines

Storage

- Protect stored insulation from water damage, construction damage and other abuse.
- If stored outside, proper protection from weather conditions should be provided.

Preparation

- Install Knauf Insulation Friendly Feel® Duct Wrap over clean, dry sheet metal ducts. All sheet metal joints and seams must be sealed to prevent air leakage from the duct.

Application

- Install Knauf Insulation Friendly Feel® 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 2" (51 mm). A 2" (51 mm) 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, PSK or foil tape or glass fabric and mastic prior to system startup.
- Pressure sensitive tapes should be a minimum 3" (76 mm) wide and be applied with moving pressure using an appropriate sealing tool. Staples should be outward clinch and placed approximately 6" (152 mm) on center.
- Closure systems should have a 25/50 F.H.C. per UL 723.
- For rectangular ducts over 24" (610 mm) wide, secure the insulation to the bottom side of the duct with mechanical fasten-

For more information call (800) 825-4434, ext. 8283

or visit us online at www.knaufinsulation.us

Microlite® XG™

Formaldehyde-free™ Fiber Glass Duct Wrap Insulation

Duct Wrap Insulation

Description

Microlite XG Formaldehyde-free™ duct wrap insulation is a light weight, highly resilient, blanket-type thermal and acoustical insulation made of glass fibers, bonded with a white, Formaldehyde-free™ resin.

Available Forms

Microlite XG Formaldehyde-free™ insulation is available in a variety of densities, thicknesses, widths and roll lengths. It is supplied with an FSK vapor barrier facing to meet installed performance requirements, with a 2-inch (51 mm) stapling tab.

Uses

Microlite XG is recommended as thermal insulation for the exterior of HVAC systems or other spaces or surfaces where temperature control is required.

Guide Specifications

Insulation for Metal Ducts. All ducts shall be insulated on the outside with a formaldehyde-free, flexible glass fiber blanket. Microlite® XG™ Formaldehyde-free™ Fiber Glass Duct Wrap Insulation with a minimum installed R-Value* of _____, and a Type _____ facing. Insulation shall be furnished with a factory-applied facing with a composite UL rating of 25/50.

** The minimum insulation installed R-Value should be determined in accordance to the duct operating and ambient conditions.*

Specification Compliance

ASTM C 553*		
Type II		Type 75, 100 & 150
Type III		Type 150

** Replaces HH-I-558B, Form B, Type I, Class 6.*

ASTM C 1290		Type 75, 100 & 150
ASTM C 1139†		
Type II	Grade 1 Type 75 Faced	
	Grade 2 Type 100 Faced	
	Grade 3 Type 150 Faced	

† Replaces MIL-I-22023D.

ASTM E 84	FHC 25/50	FSK Facing
ASTM C 1136▲	Type II	FSK Facing

▲ Replaces HH-B-100B, Type II

Canada:	CGSB 51-GP-11M	
	CAN/ULC S102-M88	

NYC MEA 40-75-M

Physical Properties

Temperature (maximum)	
Faced	250°F (121°C)
Water vapor sorption	<0.2% by volume
Alkalinity	<0.6% expressed as Na ₂ O
Corrosivity (with steel, copper or aluminum)	Does not accelerate
Capillarity	Negligible (after 24 hours)
Shrinkage	None
Fungi & bacteria resistance	Does not breed or promote



Operating Temperature Limits: 40°F to 250°F (4°C to 121°C) Faced

Underwriters Laboratories Surface Burning Characteristics

All products meet the Surface Burning Characteristics and limited combustibility requirements of NFPA 90A and 90B Standards and FHA, as tested by UL. Faced materials are tested as composite products (insulation, adhesive and facing).

ASTM E 84 Surface Burning Characteristics 25/50 (FHC) Tested Following ASTM E 2231 Sample Mounting Standard.

ASTM C 411 Hot Surface Performance @ Minimum 250°F (121°C) as Required by NFPA 90A & 90B and IIC Building Codes.

UL Guide No. 40 U8.3. Card R3711.

Fire Hazard Classification 25/50.

(UL labels supplied on packages when requested on order.)

Facing Information

FSK Aluminum Foil

Reinforced with fiber glass scrim laminated to UL rated kraft. Permeance: .02 perms

(Per ASTM E 96, Procedure A for facing material prior to lamination. After lamination, permeance values may be higher.)

Standard Thickness and Packaging

Type	Thickness, in (mm)		
	100' Roll (31 m)	75' Roll (23 m)	50' Roll (15 m)
75	1½ (38)	2, 2.3 (51, 59)	3 (76)
100	1½ (38)	2 (51)	-
150	-	1½ (38)	2 (51)

Note: Additional thicknesses, widths and other lengths available on special order. Contact Regional Sales Office for availability.