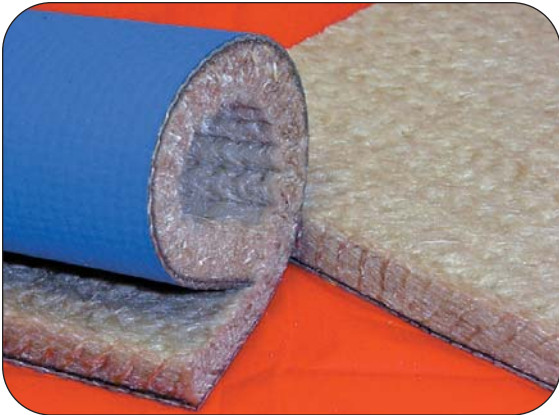
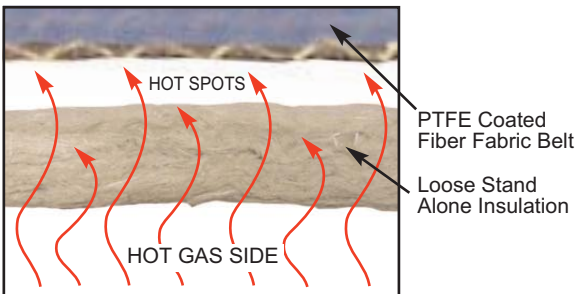


KLF12 Flexible Membrane

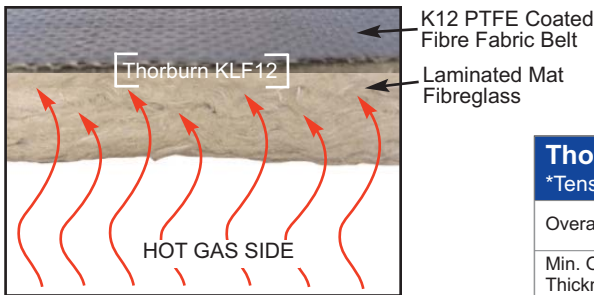


Thorburn's KLF12 PTFE coated fibre fabric belt with laminated 13mm fiberglass thermal barrier



Loose Stand Alone Insulation Problems

Inferior Designs Allow For Hot Spots: Hot flue gas is able to penetrate insulation materials when they are used as "stand alone" components in composite expansion joints.



KLF12 Working over-time for you

Laminated Fibreglass Insulation to PTFE Coated Fabric Belt

Thorburn's **KLF12** gas seal membrane has a Maximum Continuous Operating Temperature (MCOT) of 1000°F (538°C). The KLF12 is a composite flexible membrane consisting of...

- 1) Load bearing PTFE coated fibreglass fabric.
- 2) A gas side corrosion barrier made from non-porous multi-directional laminated PTFE film.
- 3) A thermal barrier made of 1/2" (13mm) laminated, non-woven fibreglass insulation.

KLF12 Advantage:

The multi-directional corrosion liner is a 100% PTFE material that is capable of resisting the stress cracking caused by flexing (as per ASTM D-2176 flexing test) and severe temperature fluctuation.

Permanently anchoring the low strength insulation materials to the coated fabric expansion joint belt, the insulation materials also "acquire" some of the high strength traits of the PTFE fabric components. This enables the insulation materials to hold up longer to the severe stresses they encounter in flue duct seal applications, thereby extending the service lives of the composite expansion joints in which they are being used to insulate.



Cross-section view of KLF12 with 1/2 inch laminated thermal barrier.

Thorburn's KLF12 Minimum Design Specifications:

*Tensile strength of 1" (25.4 mm) width sample

Overall Weight	121 oz/yd ² (4103 gm/m ²)	PTFE Resin Content Barrier:	9.6 oz/yd ² (325 g/m ²)
Min. Overall Thickness	0.54" (13.7 mm)	Thickness of Laminated Insulation:	0.5" (13 mm)
Chemical Barrier Description	Multi-Directional PTFE	Tensile Strength-Warp : As per ASTM D-751	1200 lbs/in (5338N/25.4 mm)
Chemical Barrier Thickness	0.006" (0.15 mm)	Tensile Strength-Fill: As per ASTM D-751	1200 lbs/in (5338N/25.4 mm)
Coating Description	PTFE	Temperature Rating (MCOT):	1000°F (538°C)
PTFE Resin Content Coating	18 oz/yd ² (610 g/m ²)	Intermittent Temperature:	1000°F (538°C)

THORBURN FLEX - Canada
165 Oneida, Pointe-Claire, Quebec
Canada, H9R 1A9

Tel: +1-514-695-8710
Fax: +1-514-695-1321

1-800-363-6613 (Toll Free North America)
sales@thorburnflex.com

