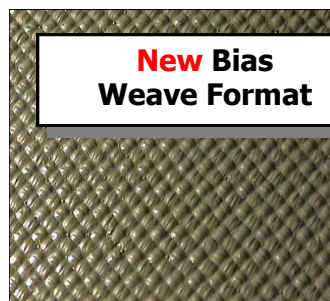




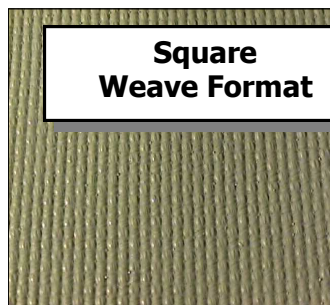
The Bias Format

WHAT IS THE BIAS FORMAT?

Bias technology allows elongation of a fiberglass-reinforced product. With the typical square weave format of PTFE/fiberglass expansion joint materials, the maximum elongation is around 3%. Using the Bias format, however, an elongation percentage of over 30% can be achieved.



New Bias Weave Format

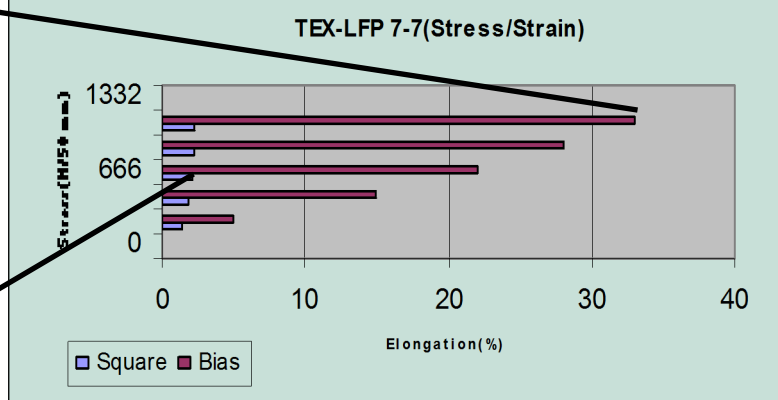


Square Weave Format

30%

3%

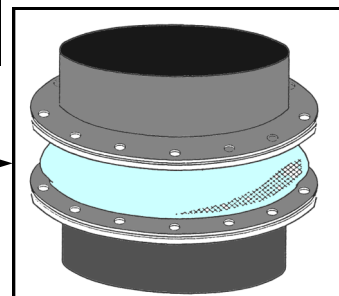
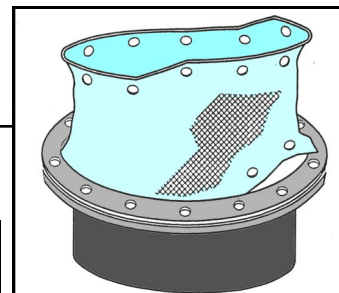
Square Weave Construction vs Bias Format at Ambient Temperature.



WHAT ARE THE BENEFITS OF USING THE BIAS FORMAT?

The increased elongation can significantly extend life of the product and help prevent fold over in the belt for maintaining a smooth appearance around an arc or corner. The increased elongation also makes it easier to turn a flange over on a flat belt to create a u-belt shape, avoiding the costly fabrication that is usually needed to achieve this design.

Flat Belt
Converted
to a
U-Belt
Design



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The Bias Format

Bias Production

In the past, taking advantage of Bias technology has been difficult because of the costly drawbacks associated with creating numerous splices in the material.



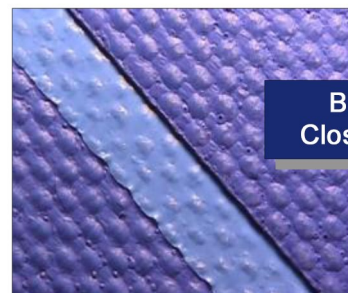
Completed Product

Now, TCI has developed an affordable and safe way for producing expansion joint materials on the Bias in full width or fabricated form.

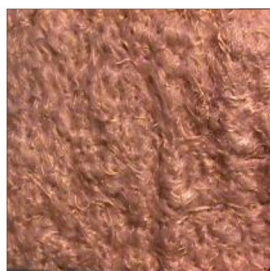


Material in Production

In addition, safety is ensured by incorporating continuous *THERMALAM*[™], *TEXTFILM*[™], and *TEX-LFP*[™] lamination technology to prevent corrosion or thermal barrier gaps at the numerous splices needed for Bias construction.



Bias Close-up



Photographs showing Continuous Barriers (fluid and thermal) in the *THERMALAM*[™] Expansion Joint Product with the New Bias Format.



Photographs showing Discontinuous Barriers (fluid and thermal) in the *THERMALAM*[™] Expansion Joint Product Using Conventional Bias Construction Technology.

Bias Format Technical Properties

Full Width	Splice Material	Typical Splice Length	Typical Distance Between Splices
Up to 1575 mm wide (62") (Rolls will contain splices with 50 mm overlaps)	0.1 mm PTFE film (0.004")	2135 mm (84")	2082 mm (82")

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