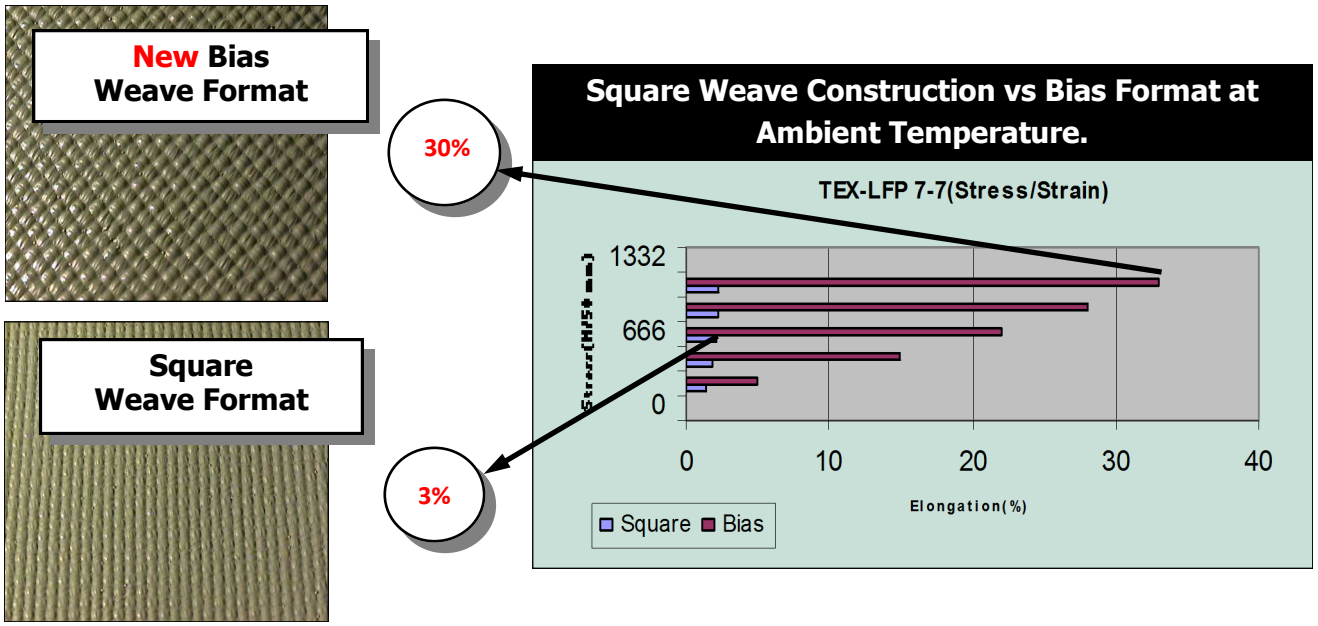
The Bias Format

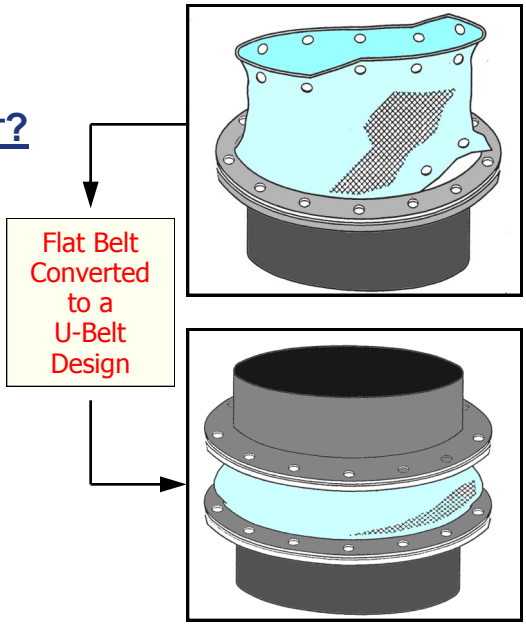
What is the Bias Format?

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.



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.



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TCI

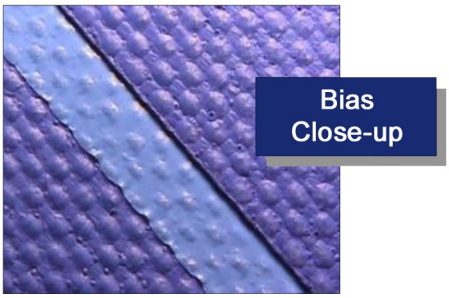
The Bias Format

Bias Production

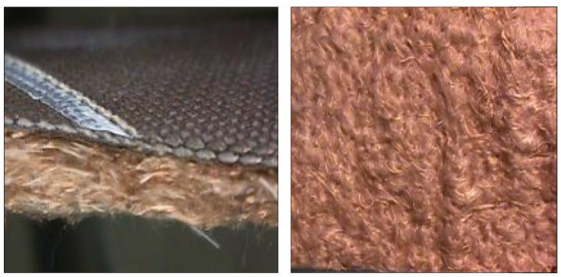
In the past, taking advantage of Bias technology has been difficult because of the costly drawbacks associated with creating numerous splices in the material.



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



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



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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