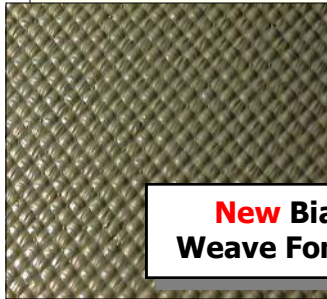


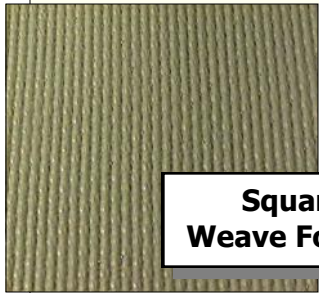
# The Bias Format from TCI

## 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**

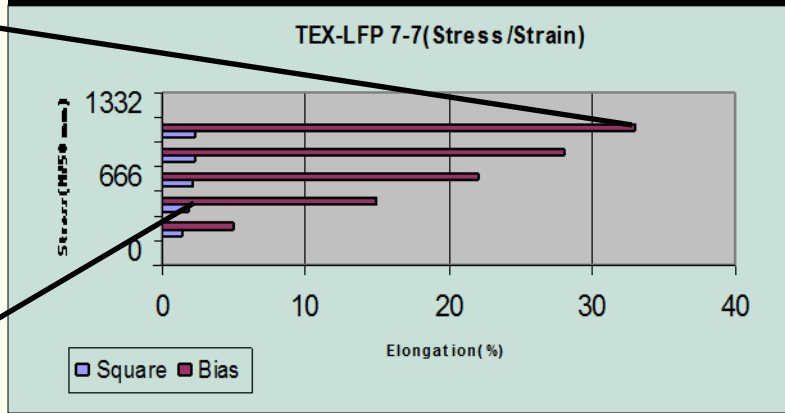


**Square Weave Format**

30%

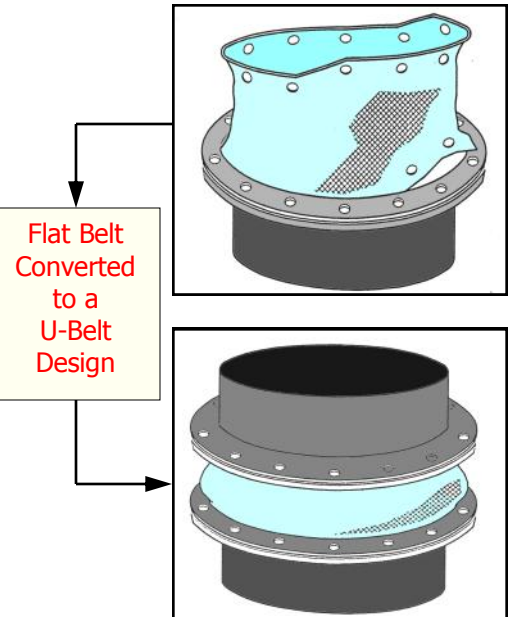
3%

### 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.



*Manufacturer of High Performance PTFE Composites and Laminates*



## Bias Production :

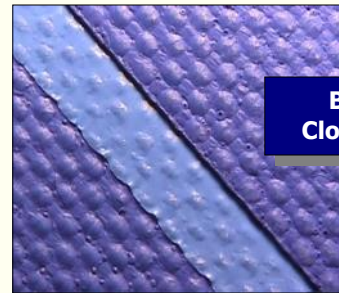
- **IN THE PAST**, taking advantage of Bias technology has been difficult because of the costly drawbacks associated with creating numerous splices in the material.
- **NOW**, TCI has developed an affordable and safe way for producing expansion joint materials on the Bias in full width or fabricated form.



Completed Product



Material in Production

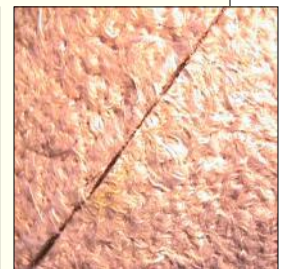


Bias Close-up

- 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

<i>Full Width</i>	<i>Splice Material</i>	<i>Typical Splice Length</i>	<i>Typical Distance Between Splices</i>
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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