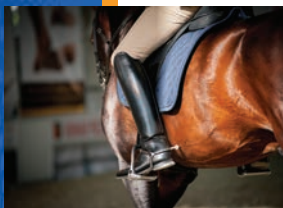
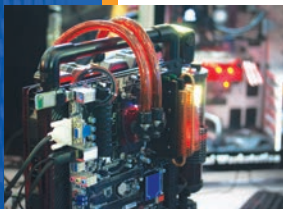


# Engineered Textiles

**What does AEC do?** Manufactures 3D & 2D fabrics, braided materials, tapes, webbing, belts, moisture control felts, and thermal insulation materials for aerospace, automotive, power, electronics, industrial equipment, high performance sports & leisure, and other applications.



**your design & engineering team**

has a design challenge that needs to use a textile or nonwoven component

**our manufacturing & supply team**

can perform smaller and larger scale product runs to support your own product development and full rate manufacturing needs

**Over 85% of our engineered textiles customers say that our product quality is better than that of our competitors**

Product Family	Description	Common Options	Sizes Available
Fabrics	2D fabric (includes tapes, webbing, open or closed selvage)	carbon, aramid, ceramic, combinations thereof, or customer specified	open selvage: 1" - 63" wide
	3D fabric		closed selvage: 0.5" - 50" wide
Pi-preforms	preforms used for joining together web and flange type composite structures	carbon or customer specified fiber	---
Braided Structures	for use in multiple applications and industries	customer-specified	0.03" - 0.5" diameter
Z-fiber™	pinned reinforcement for textile or preform fastener replacement, stiffener attachment, and structural reinforcement	pin material options: carbon/epoxy composite, glass/epoxy composite, LO materials or metal	pin diameter: 0.011" - 0.20" pin length: 0.4" - 0.7"
Nomex® felt	lightweight nonwoven used as moisture control felt or insulation; broad temperature range	DuPont™ Nomex material	up to 76" wide
Pyropel®	family of polyimide products consisting of flexible nonwovens, semi rigid and rigid fiber boards, and plastic shapes and parts.	100% polyimide	---

## Production Rates and Quality

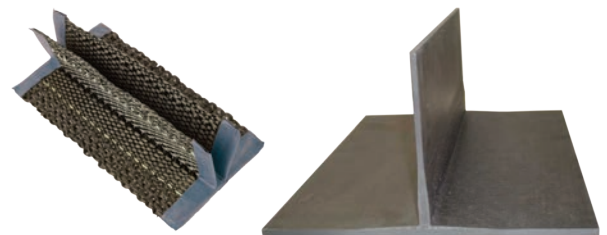
AEC provides:

- lower rate production runs to help customers identify the right products and specifications for their needs
- full rate production runs
- focus on operational excellence to maintain a high level of quality and delivery standards

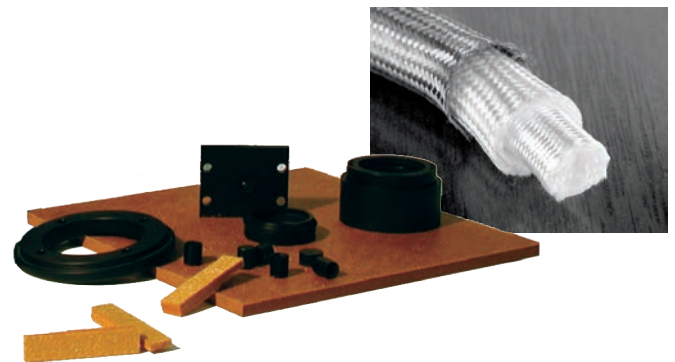
## Cornerstone in AEC's Composite Production Capabilities

AEC's capabilities in engineered textiles are integral to our composite part design capabilities. By having these fabrication resources in-house, AEC has direct control over fiber architecture, material integration, and other factors that drive composite part design and performance. This also provides AEC's customers with a simplified supply process by enabling them to take advantage of AEC's ability to manage quality control and oversee over the entire composite production process.

more at [www.albint.com/aec/engineered-textiles](http://www.albint.com/aec/engineered-textiles)  
contact us: [aec-textiles@albint.com](mailto:aec-textiles@albint.com)



3D-reinforced pi preforms manufactured by AEC (left) provide continuous reinforcement through bifurcations/joined structures. The tee on the right uses a pi-preform to join the upright web and the horizontal flange (both of which are 2D laminates).



Braiding and Pyropel product samples

## About Albany Engineered Composites (AEC)

AEC designs, develops, and manufactures advanced composite components. Our core strength is the ability to produce highly tailored components – including 3D, integrated, and complex 2D composite structures. We have specialized research and technology facilities for new technology development and prototype demonstration, as well as integrated product development, continuous improvement, operational excellence, and AS9100C and ISO 9001:2008 manufacturing capabilities to support cost-effective production efforts.

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