

COATED FABRICS AND LAMINATES FOR MILITARY, COMMERCIAL AND LAW ENFORCEMENT



Built on proven military-grade materials and FirstSpear’s laser-cutting, load-bearing laminate technology, ProTact Vigr™ LaserFusion™ delivers durable, predictable performance in the most severe tactical environments. Laboratory testing replicates field extremes to verify ProTact Vigr LaserFusion not only meets, but exceeds, global performance standards.

ProTact Vigr™ LaserFusion™

TECHNICAL DATA

Test	Method	Units		Specification
Basis Weight	ASTM D751	g/m ²		700 - 800
Thickness	ASTM D751	mm		1.7 - 1.9
Bond/Adhesion	ASTM D751	Newtons		≥ 45
Tongue Tear	ASTM D2261	Warp	Newtons	≥ 120
		Fill		
Tensile	ASTM D5034	Warp	Newtons	≥ 3000
		Fill		
Spray Rating	AATCC TM22	Rating		≥ 90
Hook/Loop Peel Strength	ASTM D5170	Newtons		5 - 15
Hook/Loop Shear Strength	ASTM D5169	Newtons		≥ 90

**Developed by The Haartz Corporation in collaboration with FirstSpear, LLC.*

**Royalty free licenses are available directly from FirstSpear to manufacturers of finished goods that use the Protact by Haartz® Vigr™ LaserFusion™ laminate and agree to certain terms and conditions.*



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