



Demand Quality.

- **Industry Leader in Hook & Loop Fasteners**
- **Technology-Driven for Aerospace Needs**
- **Certified Fire Retardant Fasteners**



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The Velcro companies offer a wide variety of quality hook and loop fasteners to satisfy your aerospace application needs. You'll find VELCRO® brand fasteners in many different applications, including seating, insulation blankets, carpeting and wire management. Our VELCRO® brand fire retardant fasteners meet the requirements for certifications to Federal Aviation Regulation, Boeing Material Specification and Airbus Industries Specification. In addition, we are authorized by the FAA to issue 8110-3 certifications. Our fire retardant products include:

	HOOK 88 WITH LOOP 1000	HOOK 81 WITH LOOP 9000	HI-AIR® BRAND	ONE-WRAP® BRAND (889)
MATERIALS	Nylon	Polyester	NOMEX®	Nylon loop polypropylene hook
AVERAGE SHEAR-PSI (LENGTH-WISE)	14.0	14.0	7.5	29.0
AVERAGE SHEAR-PSI (WIDTH-WISE)	10.5	8.0	8.0	—
AVERAGE PEEL-PIW	1.2	0.8	0.5	0.6
TENSION-PSI	6.5	7.5	3.0	—
CYCLE LIFE	High	High	Medium	Medium
STANDARD COLORS	Black, White, Beige	Black, White, Beige	Natural, Camouflage Green	Black
STANDARD WIDTHS	5/8", 3/4", 1", 1-1/2", 2", 4"	5/8", 3/4", 1", 1-1/2", 2", 4"	1", 2"	3/8", 1/2", 5/8", 3/4", 1", 1-1/2", 2", 4"
FIRE RETARDANT BACKINGS AVAILABLE:				
- With No Adhesive	8289, 8299	8289	0399	n/a
- With Adhesive	8217, 8222	8223	n/a	n/a
STANDARD PUT-UPS:				
- Standard Back	50 yard rolls	50 yard rolls	50 yard rolls	25 yard rolls
- Adhesive Back	25 yard rolls	25 yard rolls	n/a	n/a

Velcro USA Inc. can certify these domestically manufactured products to:

Federal Aviation Regulation (latest revision)

FAR 25.853, Appendix F, Part (a)(1)(i) 60 second vertical burn test
 FAR 25.853, Appendix F, Part (a)(1)(ii) 12 second vertical burn test
 FAR 25.853, Appendix F, Part (a)(1)(v) 15 second horizontal burn test

Boeing Material Specification (latest revision)

BMS 8-285 Type 3, Class 2 60 second vertical burn test
 BMS 8-285 Type 4, Class 2 12 second vertical burn test
 BMS 8-285 Type 4, Class 1 12 second vertical burn test
 BMS 8-285 Type 5, Class 3 12 second vertical burn test

Airbus Industries (latest revision)

ABD0031 for flammability, smoke density and gas toxicity

Federal Aviation Administration

8110-3

Velcro USA Inc. routinely tests and certifies the following products:

	VELCRO USA INC. PRODUCTS	VELCRO USA INC. FIRE RETARDANT BACKINGS	12 SECOND VERTICAL BURN TEST	60 SECOND VERTICAL BURN TEST	15 SECOND HORIZONTAL BURN TEST	DESCRIPTION
FAR						
	Hook 88 with Loop 1000	8289		●	●	Nylon with no adhesive
	Hook 88 with Loop 1000	8289	●	●		Nylon with no adhesive
	Hook 88 with Loop 1000	8222		●		Nylon with adhesive
	Hook 81 with Loop 9000	8289	●			Polyester with no adhesive
	Hook 81 with Loop 9000	8223	●			Polyester with adhesive
	HI-AIR® Brand	0399	●			NOMEX® loop – NOMEX®/nylon hook with no adhesive
	ONE-WRAP® Brand (889)		●	●		Nylon loop – Polyethylene hook
BMS						
Type 3 Class 2	Hook 88 with Loop 1000	8289		●		Nylon with no adhesive
Type 4 Class 2	Hook 81 with Loop 9000	8289	●			Polyester with no adhesive
Type 4 Class 1	Hook 81 with Loop 9000	8223	●			Polyester with adhesive
Type 5 Class 3	ONE-WRAP® Brand (889)		●	●		Nylon loop – Polyethylene hook
Airbus						
	Hook 88 with Loop 1000	8289	●	●		Nylon with no adhesive
	Hook 88 with Loop 1000	8217	●	●		Nylon with adhesive

Certifications to Motor Vehicle Safety Specification (MVSS) 302 and Douglas Material Specification (DMS) 2138 & 1982 are also available. Other tests and certifications are available upon request.

IMPORTANT NOTICE TO PURCHASER

All statements, technical advice and recommendations contained herein are based on tests believed to be reliable, but the accuracy thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace the quantity of product proven to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use and user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

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