



The FRAS-Certified Standard for Underground Mining

Brattice J is a polypropylene (PP) scrim reinforced fabric with a proprietary fire-retardant (FR) and anti-static coating on both sides, specifically for underground mining environments. Trusted for 40+ years, Brattice delivers permanent anti-static protection, reliable fire resistance, and lightweight handling across curtains, wall hangings, and ventilation ducting.

Features and Benefits

- **FRAS-Certified to MDG3608:** Fire Resistance, Electrical Resistance, Air Permeability, and Limited Oxygen Index meeting the non-negotiable safety standards of underground mining operations.
- **Permanent Anti-Static Protection:** Proprietary conductive grid is built into the fabric on both sides, including across sewn joins, providing consistent anti-static performance throughout.
- **Lightweight for Safer Handling:** High strength-to-weight ratio makes manual handling easier during installation and storage, reducing injury risk in confined underground environments.
- **Enhanced Ventilation Performance:** Smooth surface finish promotes efficient airflow through ventilation systems while reducing snag risk to crews during installation and maintenance.

Designed for indoor and underground use only. Not suitable for outdoor applications.



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Technical Specifications

Fabric Properties		
	Metric - AS 2001.2.13 (mass per unit)	Imperial
Nominal Fabric Mass	175 gsm ± 20	5.2 oz/yd ²
Approx. Thickness	~0.25 mm	~9.75 mils
Temperature Range	-30°C to +70°C	-22 °F to +158 °F
Construction		
Base Scrim	PP Tape Yarn	
Construction	3.2 × 3.2 yarns/cm / 8.1 × 8.1 yarns/in	
Coating	PP (Coating is not UV stabilised)	
Coating Thickness	40 µm / 1.6 mils	
Finish (both sides)	Conductive grid with FR coating	

MDG3608 Compliance (FRAS Certification)

Performance Characteristic	Test Result	Compliance
Fire Resistance (Barthel) (NCB245:1985 Appendix 2 & 4)	0.0 sec	Complies
Fire Resistance (Gallenkamp) (NCB245:1985 Appendix 2 & 4)	0.0 sec	Complies
Electrical Resistance (Mean) (NCB245:1985 Appendix 5)	50 mΩ	Complies
Air Permeability (Mean) (NCB441:1964)	2 l/sec m ²	Complies
Limited Oxygen Index	--	Complies

Performance Data

Tensile Strength & Elongation at Break (AS 2001.2.3)		
	Metric (mass per unit)	Imperial (mass per unit)
Tensile Strength - Warp	1,220 N/50mm	274 lbf
Elongation at Break - Warp	18.5%	18.5%
Tensile Strength - Weft	866 N/50mm	195 lbf
Elongation at Break -Weft	12.0%	12.0%
Wing Tear (AS 2001.2.10)		
	Metric (mass per unit)	Imperial (mass per unit)
Wing Tear - Warp (Median)	326 N	73 lbf
Wing Tear - Weft (Median)	212 N	48 lbf
Hydrostatic Pressure (AS 2001.2.17)		
Hydrostatic Pressure (Mean)	>250 kPa	>36 psi

*Test results available upon request.

Available Roll Sizes

Code	Width	Length	Approx. Roll Weight	Approx. Roll Dia.
413743	1.83m (6 ft)	50m	~17 kg (37.5 lbs)	~0.25m (1 in)
413750	2.74m (9 ft)	50m	~25 kg (55 lbs)	~0.25m (1 in)
413767	3.05m (10 ft)	50m	~28 kg (61.5 lbs)	~0.25m (1 in)
413774	3.66m (12 ft)	50m	~34 kg (75 lbs)	~0.25m (1 in)
490621	4.00m (13 ft)	50m	~37 kg (82 lbs)	~0.25m (1 in)
413781	4.57m (15 ft)	50m	~41 kg (90 lbs)	~0.25m (1 in)
413989	1.85m (6 ft)	Jumbo (MT0)	~780 kg (1,716 lbs)	~0.80m (31.5 in)
413804	2.74m (9 ft)	Jumbo (MT0)	~1,150 kg (2,530 lbs)	~0.80m (31.5 in)

*Note: Approximate Length of Jumbo rolls can vary according to order. Dimension and weight stated are for 2400m (2625 yds) Jumbo rolls

Usage & Care

For indoor and underground use only.

Suitable for sewing, hot air and wedge welding; wedge welding is the preferred method.

Fabric is flame retardant, not flame proof; do not use against open flames. Avoid contact with organic solvents, halogens, or highly acidic substances, as these will reduce service life.