

GALE

COMMERCIAL

Commercial Heavy^{FR}

Product Profile



The Engineered Standard for Fire-Retardant Broad-Span Projects

Commercial Heavy FR is a heavyweight, high-performance HDPE shade fabric specifically engineered for vast structures and high-wind environments where fire code compliance is critical. Utilising a patented intertwining knit, it delivers unparalleled tear resistance and dimensional stability for large-scale architectural projects, providing a visually striking, water-shedding solution that meets the world's most stringent regional fire-retardant (FR) standards.

Features and Benefits

- Built-In FR Technology:** Fire retardants and UV stabilizers are engineered directly into the base yarn for consistent protection that meets NFPA 701 and CSFM Title 19 standards.
- Dimensional Stability:** Stentered (heat-set) to prevent deformation and simplify fabrication, minimising re-tensioning, and maintenance costs.
- Extreme Strength:** 100% virgin grade polymers in a monofilament construction for superior tensile strength, rot-proof performance, and moisture resistance.



For more information, visit galecommercial.com

GLOBAL CUSTOMER SUPPORT
commercialsupport@galecommercial.com

SALES - ANZ
Toll Free: +1 800 331 521
anz@galecommercial.com

SALES - AMERICAS
Toll Free: +1 800 560 4667
americas@galecommercial.com

SALES - ASIA / EUROPE
Toll Free: +1 800 331 521
eurasia@galecommercial.com

SALES - MIDDLE EAST / AFRICA
+971 4 881 7114
mena@galecommercial.com

Technical Specifications

Fabric Properties		
	Metric - AS 2001.2.13 (mass per unit)	Imperial - ASTM D3776 (mass per unit)
Nominal Fabric Mass	430 gsm ± 20	12.7 oz / yd ²
Approx. Thickness	1.6 mm	0.06 in
Roll Specifications		
	Metric (mass per unit)	Imperial (mass per unit)
Nominal Width	3.0 m	9 ft 10 in
Length	40 m	131 ft 3 in
Approx. Roll Weight	54 kg	119 lbs
Approx. Roll Diameter	0.30 m	1 ft
Core Diameter	76 mm	3 in

Performance Data

Flammability		
Certification	Test	Value
AS 1530.2-Part 2 - Flammability Test	Flammability Index (Range 0-100)	1
	Ignitability Index (Range 0-20)	11
AS 1530.3-Part 3 - Early Fire Hazard Test	Spread of Flame Index (Range 0-10)	8
	Heat Evolved Index (Range 0-10)	5
	Smoke Developed Index (Range 0-10)	7

Maximum Force And Elongation - Strip Method (AS 2001.2.3.1-2001)	
Maximum Force - Warp (Mean)	1400 N/50mm
Elongation at Maximum Force - Warp (Mean)	55.5 %
Maximum Force - Weft (Mean)	1400 N/50mm
Elongation at Maximum Force - Weft (Mean)	103 %

Breaking Force - Grab Test (AS 2001.2.3.2-2001)	
Breaking Force - Warp (Mean)	1400 N
Breaking Force - Weft (Mean)	1700 N

Tear Resistance - Wing Rip Method (AS 2001.2.10-1986)	
Wing Tear - Warp (Mean)	270 N
Wing Tear - Weft (Mean)	237 N

Bursting Pressure - Hydraulic Diaphragm Method (AS 2001.2.4)	
Bursting Pressure (Mean)	3100 kPa

Bursting Force - Ball Burst Method (AS 2001.2.19-1988)	
Bursting Force (Mean)	1859 N

Shade Protection Fabric Performance (AS 4174:2018)							
Colour	Cover Factor	Shade Factor	UV-vis Trans %	UVR Trans %	UVR Block %	UVE %	Protection Category
Aquatic Blue	86	85.7	14.3	14.1	85.9	85	Effective
Black	87	87.5	12.5	12.5	87.5	87	Effective
Bright Green	85	84.1	15.9	14.6	85.4	84	Effective
Brunswick Green	84	84.5	15.5	15.5	84.5	84	Effective
Charcoal	86	86.8	13.2	13.1	86.9	86	Effective
Cherry Red	86	75.5	24.5	13.8	86.2	86	Effective
Deep Ochre	87	87.0	13.0	12.9	87.1	86	Effective
Desert Sand	85	79.8	20.2	14.7	85.3	84	Effective
Emerald	86	86.2	13.8	13.5	86.5	86	Effective
Natural	87	75.9	24.1	12.7	87.3	87	Effective
Navy Blue	87	87.4	12.6	12.5	87.5	87	Effective
Orange	85	75.5	24.5	14.8	85.2	84	Effective
Royal Purple	87	86.8	13.2	12.5	87.5	87	Effective
Steel Grey	86	85.9	14.1	13.3	86.7	86	Effective
White	86	71.5	28.5	13.8	86.2	86	Effective
Yellow	86	74.1	25.9	13.3	86.7	86	Effective

*Test results available upon request. Each colour individually tested and passes all certification criteria for above. Available in Flame Retardant and Non-Flame Retardant. Biaxial elastic material properties available on request. Select colors only available in made to order.

Care & Maintenance

Do not use near open flames. Avoid contact with organic solvents, halogens, or highly acidic substances, as these will reduce service life and void the warranty.