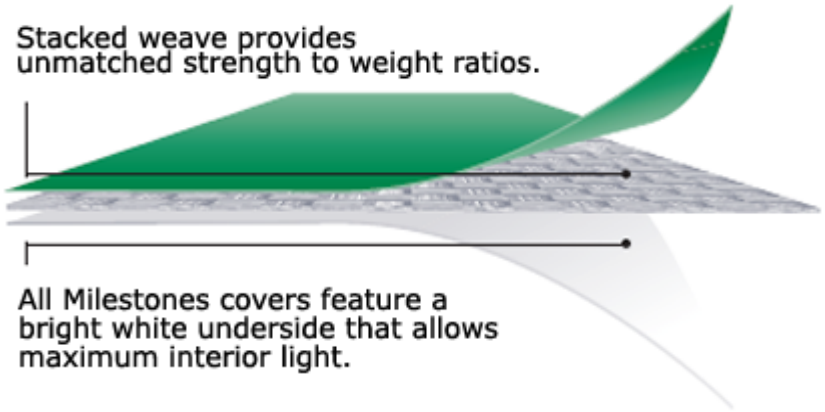
557 W. Kellogg Rd., Bellingham, WA 98226 Phone: 360.366.3077 Fax: 360.637.5077
Email: mbd@mbdbuildings.com Website: mbdbuildings.com

High Performance Standard & Fire Retardant Fabric Cover Specifications

The heavy-duty polyethylene fabric is created using a layer of woven tapes (scrim) and coated with a thick protective layer helping avoid scuffing and UV damage.

Combining the scrim and the coatings provides tremendous rip, tear and puncture resistance. This high performance technology gives the fabric tremendous strength and durability.



Interior Atmosphere

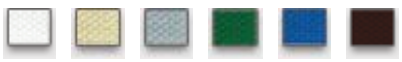
- Light colored covers provide an exceptionally bright and pleasant interior atmosphere
- The unique composition ensures fabric remains pliable and resistant to ultraviolet damage
- Unique fabric properties ensure buildings are warmer in winter and cooler in summer

Color Selection

- Available in a variety of attractive colors
- All colors feature a bright white underside enhancing interior brightness
- Blackout fabric is also available

Standard Colors

Fire Retardant Colors



Safe & Environmentally Friendly

- No toxic chemicals are used in the production of this high performance fabric

Self-Extinguishing

- Laboratory testing confirms the high performance fabric is "self-extinguishing"
- Fabric will not support combustion or continue to contribute fuel to a fire
- If the source of the fire is removed, fabric combustion will cease Fire Retardant (FR) Protection

High Performance Fire Retardant Fabric

- Increases protection for valuable assets
- Adheres to stringent building codes
- Has self-extinguishing properties to protect valuables
- Reduces flame spread to other buildings
- Increases building escape time in case of fire
- Increases opportunity for fire and protective services to extinguish the fire
- Allows owners to often replace fabric covers following a fire incident, whereas conventional buildings may be a total loss

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Fabric Specifications - Common Tests: Standard & FR Fabric		
Coating Thickness:		4 mil (94-95g/m_2) average each side
Total Fabric Weight:		12 oz/yd_2 (407 g/m_2) +/- 5%
Thickness:	ASTM D-5199	Standard: 20 mils (0.50mm)
		Fire Retardant: 23 mils (0.59mm)
Grab Tensile:	ASTM D-5034	Standard: Warp: 370 lb. (1664 N), Weft: 345 lb. (1532 N)
		Fire Retardant: Warp: 355 lb. (1576N), Weft: 350 lb. (1555N)
Tongue Tear:	ASTM D-2261	Standard: Warp: 115 lb. (510N), Weft: 110 lb. (489N)
		Fire Retardant: Warp: 115 lb. (510N), Weft: 115 lb. (510N)
Strip Tensile:	ASTM D-4851	Standard: Warp: 275 lb/in. (2444 N/5cm), Weft: 245 lb/in. (2178 N/5cm)
	CSA-S367	Fire Retardant: Warp: 270 lb/in. (2400 N/5cm), Weft: 250 lb/in. (2222 N/5cm)
Mullen Burst:	ASTM D-3786	675 psi (4657 kPa)
Low Temp. Bend:	ASTM D-2136	Pass: -60° C (-76° F)
Light Transmission %:	ASTM E-903	White/White: Standard: 20.9%, Fire Retardant: 11.4%
Water Vapor Transmission:	ASTM E-96	0.038 grains/h/ft_2/inHg (perms) 2.16 ng/Pa/s/m_2
UV & Weathering:	ASTM G-151	>90% strength retention after 2000hrs @ 0.77 W/m_2/nm
UV & Weathering:	ASTM G-154	>90% strength retention after 1200hrs @ 1.35 W/m_2/nm
UV & Weathering:	CSA-S367	>75% strength retention after 5000hrs @ 0.77 W/m_2/nm
Trapezoidal Tear:	ASTM D-4533	Standard: Warp: 90 lb (400N), Weft: 90 lb (400N)
		Fire Retardant: Warp: 95 lb (422N), Weft: 90 lb (401N)

Fire Test Results: Fire Retardant Fabric (FR)			
Base Fabric		HDPE Scrim using FR inhibitors and UV protection	
Surface Type		Modified LDPE coating using FR inhibitors and UV protection	
California Fire Marshal	FA - 51405		
NFPA 701 - 1989 (Large Scale Test)	04-02-725(A)	Char: 1.4in. Av.	Drip: No
NFPA 701 - 1989 (Small Scale Test)	04-02-725(A)	Char: 3.5in. Av.	Drip: No
ASTM E-84-08	08-002-695	FSI: 10	SD: 110
NFPA 701 - 2004 Test Method 1	05-02-885(A)	Mass Loss: 4.7% Av.	Drip: No
NFPA 701 - 2004 Test Method 2	05-02-885(B)	Char: 76mm (3in.) Av.	Drip: No
CAN/ULC S109-03 (Small Flame)	06-02-866	Char: 98mm Av.	Drip: No
CAN/ULC S109-03 (Large Flame)	06-02-866	Char: 104mm Av.	Drip: No
CAN/ULC S102-03	05-02-609	FSCI: 5	SD: 95
UBC 31-1	16421-108891	Char: 8.69in. Av.	Drip: No
UL	Listed - R15076		
ULC	Listed - R20040		
EN 13501-1	Fire Behavior: B	Smoke: s1	Droplets: d0

Fire Test Results: Standard Fabric			
Base Fabric	HDPE Scrim with UV protection		
Surface Type	Modified LDPE coating with UV protection		
ASTM E84-01	03-02-586 (A)	FSI: 10	SD: 65
CAN/ULC-S102-07	08-002-394	FSCI: 15	SD: 100

FIRE TESTING NOTE: *Results of the RU / FRU fabric fire tests demonstrate the fabrics will not support combustion nor contribute fuel to a fire. If the source of the fire is removed, the fabrics self-extinguish and combustion ceases. Other characteristics and properties of the fabrics are as per the MSDS (Material Safety Data Sheet).*