

Echo is a **Boltaflex** vinyl performance fabric featuring our industry-leading **PreFixx** protective finish. Formulated without phthalates and fire retardants (FR), **Boltaflex Echo** supports the growing trend towards eco-friendly solutions in contract design. *Echo* is also specified to meet marine and other outdoor specifications.

Industries & Markets

- Corporate Office
- Food Service
- Healthcare
- Hospitality & Entertainment
- Marine

Physical Specifications

Weight (CFFA-700d)	28 oz/lin yd [18.7 oz/yd ²]
Weight, Metric (CFFA-700d)	849 g/lin m [619 g/m ²]
Width (CFFA-700a)	54 in. [137 cm]
Face Composition	PVC
Backing Description	Polyester Terry Loop Knit
Roll Size	40 lin yd [37 lin m]
Emboss Level	Medium
Shipping Weight/ Roll	68 lb [31 kg]

Flame, Smoke & Toxicity

Meets or exceeds the following:

- BIFMA - Class A
- Cal Tech 117-2013 Sec 1
- IMO Part 8 Upholstered Furniture 3.1 Smoldering Cigarette
- IMO Part 8 Upholstered Furniture 3.2 Propane Flame
- UFAC Fabric, Class 1
- CAL AB 2998
- NFPA 260 Class 1

Performance Features

Protective Finish	PreFixx
Use	Indoor/Outdoor
QUV hours (minimum)	650
Adhesion #/in., min (CFFA-3)	4 Warp, 4 Fill
Tensile Strength #, min (CFFA-17)	85 Warp, 75 Fill
Tack Strength #, min (CFFA-14)	35 Warp, 30 Fill
Trap Tear Strength #, min (CFFA-16c)	20 Warp, 27 Fill
Wyzenbeek Abrasion (CFFA-1a)	1,300,000 Cotton Duck (double rubs)
Blocking (CFFA-4 No. 1)	Pass
W-Flex - 25,000 cycles (CFFA-10)	Pass
Crocking Resistance - 20 cycles no stain (CFFA-7)	Pass
Fungal Resistance (ASTM-G-21)	Pass
Bacterial Resistance (AATCC 147)	Pass
Bacterial Resistance (AATCC 100)	Pass
Cold Crack (CFFA-6a)	-20 °F [-29 °C]
Slit Tear Resistance (ASTM D2212-00)	Pass
Puncture Resistance (ASTM D4833-07)	Pass
Compatible with Disinfectants	Yes. See Chem Resistance Tech Bulletin for more information.
Bleach-Safe	Yes, 10% Bleach Solution
Surface Resistance - anti-static (AATCC-76)	Yes
Resistance to Sulfide Stain (ASTM D1712)	Yes
Oil Resistance (CFFA-13)	Yes
Urine Resistance (AATCC-6)	Yes

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Note: Due to possible variances in your computer monitor, the colors and patterns displayed may vary slightly from the actual product. Customers should always obtain and compare actual samples before specifying.



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