

Certifications for Flamecheck™ M-111



FIRE RETARDANT PERFORMANCE STANDARDS THAT FLAMECHECK™ M-111 MEETS OR EXCEEDS:

- Fed Test Method 191A – Method 5903
- DOT MVSS-302
- Fed. Spec. PPP-F-320D (fiberboard, corrugated & solid sheet stock)
- NFPA-701 Large Scale Tests
- NFPA-701 Small Scale Tests
- NFPA-705 Vertical Flame Test for fabrics
- ASTM-E-84 Test on paper wall covering
- ASTM-E-84 Test on wood paneling
- ASTM-E-84 Test on Pine lumber
- ASTM-E-84 Test on Hemlock wood panel
- ASTM-E-162
- NFPA 255
- UL 723
- UBC 42-1
- FAA 25 and 853B Vertical & Horizontal test
- CAN 204.2 M77
- CAN/ULC S 109-3
- MEA# 311-90-M Vol. II
- CSFM Title 19-1237 & 1237.1
- N.Y.F.D.C. of A No. 4798
- NFPA 253
- CSFM listed for lumber
- NTP #44
- BFD IX-1

Certifications for Flamecheck™ M-111 Fire Retardant Spray:

- U.S. & International Patents Issued
- NFPA Certified
- ASTM Certified
- ISO Certified

Toxicity Tests of Flamecheck™ M-111

- Acute Oral Toxicity Study (Hill Top Biolabs) – Non-toxic
- Primary Skin Irritation Study (Hill Top Biolabs) – Non-toxic
- Toxicity on sewer sludge (Newcastle University) – Non-toxic
- Toxicity on Fish (Newcastle University) – Non-toxic

International FR Tests

- French: M1 & M3
- British: BS 5852
- British: BS 476 part 7
- Kuwait: K.O.C.
- Germany: DIN# 4102 Class 1

Definitions

- ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
- ASTM E 2768 – Standard Test Method Extended Duration Surface Building Characteristics of Building Materials
- UL 263 – Fire Resistant Rated Assemblies
- NFPA 251 – Standard Methods of Tests of Fire Endurance of Building Construction and Materials
- NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.
- NFPA 701 – Vertical Flame test for fabric.
- NFPA 703 – Standard for Fire Retardant Treated Wood and Fire-Retardant Coatings for Building Materials
- NFPA 705 – Vertical flame test for fabric, curtaining materials
- CSFM Title 19 – California flame retardant standard
- UL 723 - Test for Surface Burning Characteristics of Building Materials
- CAN/ULC – S – 101 Standard Methods of Tests of Fire Endurance of Building Construction and Materials

CERTIFICATES:

Flamecheck™ M-111 meets or exceeds a “Class A” finish when properly applied for these test standards:

- ✓ NFPA 701-705
- ✓ CA Title 19
- ✓ ASTM E-84
- ✓ ASTM E-648
- ✓ NFPA 253
- ✓ NFPA 255
- ✓ UL 723
- ✓ FAA 25
- ✓ FAA 853B
- ✓ UBC 42-1
- ✓ MVSS 302
- ✓ NTB #44
- ✓ BFD IX-1

