

## NoFire Independent Tests & Approvals

### ASTM E84-87 Surface Burning Characteristics of Building Materials

Eter Board, Douglas Fir, Low density Fiberboard, Composite Panels, United States testing Company, Inc. Fairfield, N.J.

### UL-723 Report on Fire Retardant Coating under the CLASSIFICATION PROGRAM

Douglas Fir, Underwriters Laboratories, Northbrook, Illinois

### Unites States Navy Qualified Products list (QPL)

Qualification Letter

MIL-PRF-24596 Type II Class I Application (Surface Ship, general usage)

Type II Class 2 Application A (Submarine, general usage)

Fire Test Results, Naval Surface Warfare Center, Carderock Div. Bethesda, MD.

Naval Environmental Health Center (NEHC) Report

SGS U.S. Testing Report; Additional required tests

### International Maritime Organization (IMO)

Resolution A.653(16), Resolution MSC.41(64)

“Recommendation on Improved Fire Test procedures for Surface Flammability of Bulkhead, Ceiling and Deck Finish Materials”, “Interim Standard for Measuring Smoke and Toxic Products of Combustion”

Resolution MSC.61(67) International Code for Application of Fire Test Procedures

Performed at Southwest Research Institute, San Antonio, TX on Calcium Silicate Board and Marine Grade Polyester

NoFire A-18 Marine Paint & Exterior Gloss Latex Paint

Performed at Danish Institute of Fire & Safety Technology

### Type Approval – NoFire A-18

United States Coast Guard, Det Norske Veritas (DNV), American Bureau of Shipping (ABS) and Lloyds Register

### Certificate of Conformity-EC EC Type Examination Certificate-NoFire A-18

Det Norske Veritas

### International Maritime Organization (IMO)

Resolution A.754(18) Resolution on Fire Resistance Tests for “A”, “B”, and “F” Class Divisions and High Speed Craft Code (HSC) for aluminum and steel construction

Josco/NoFire J12D Deck Structural Fire Protection System – Class A60 (A Barrier)

NoFire J12B Structural Bulkhead Fire Protection System – Class A60 (B Barrier)

ISO 1182 and Part 1 of the IMO FTP Code; Non-combustibility

A Barrier (J12D)

B Barrier (J12B)

### UL 94 and 746 Tests for Flammability of Plastic Materials for Parts in Devises and Applications

Performed at Underwriters Laboratories on grades PVC-3, PVC-4, AL-2, and SS-1. (UL 94 is equivalent to ASTM D3801 and IEC 707 1210.2) using NoFire A-18. These specifications exceed the IEEE-383 Vertical Burn Test

Included in these tests were:

Surface Resistivity – on Aluminum, Stainless Steel and PVC UL746C

Flexural Strength – on Aluminum, Stainless Steel, and PVC ASTM D-790

Environmental – on PVC, UL746C, ASTM D-790

Performed at Underwriters Laboratories on Wood Particle Board using NoFire A-18

## **Uniform Building Code UBC 8-2 (Formerly UBC 42-2) Standard method for Evaluating Room Fire Growth Contribution of Textile Wall Coverings**

Tests on ¼” hardwood plywood, T111 plywood, wood shingles, ½” hardboard siding, and lap 7/16” flake-board siding. Performed using NoFire A-18 at university of California, Berkeley, June 1992

Tests on T111 Plywood, Clear Cedar Shakes using NoFire A-18 performed at University of California, Berkeley, 1995

Tests on ¼” Sterling Board coated with 18 coats of alkyd base paint and top-coated with NoFire A-18, performed at VTEC Laboratories, Bronx, New York, 1999

Tests on Cement Board coated with six coats of alkyd base paint and top-coated with A-18, performed at VTEC Laboratories, Bronx, New York, 1999

Tests on T111 Plywood Panels coated with 1 coat of NoFire A-18 and top-coated with exterior latex paint, performed At VTEC Laboratories, Bronx New York, 1999

Tests on Sheetrock Panels coated with 8 coats on interior latex paint, top-coated with NoFire A-18 and finished with 1 coat exterior latex paint, performed at VTEC Laboratories, Bronx, New York, 1999

## **Report of Material and Equipment Acceptance (MEA 104-96M)**

Department of Buildings, City of New York, may 16, 1996

## **Approval as Registered Flame Resistance Product**

California Department of Forestry and Fire protection office of the State Marshal

## **Approval of Registered Flame Resistant Product**

Department of Buildings, State of Rhode Island

## **Toxicity and Environmental**

### EPA-24

Volatile Organic Compounds (VOC)

Tests performed by U.S. Testing Company, February 11-16, 2000

### NES 713 Test

Test performed at VTEC Laboratories, January 29, 1996

### Acute Inhalation Toxicity of Thermal Degradation products Using the NYS Modified Pittsburgh Protocol

Tests performed on NoFire A-18 at United States Testing Laboratories, Fairfield, New Jersey

Gas Analysis by the Dragger Tube Method

### ASTM E662 – NoFire A

Tests performed by HPVA Laboratory and Testing Service, March 1, 1996

Gas Analysis by the Dragger Tube Method

### ASTM E662 – NoFire Ct3 Coal Tar Epoxy

Tests performed by HPVA Laboratory and Testing Service, March 1, 1996

### MIL M-14H NoFire A

Tests performed by the United States Testing Company, June 17, 1992

## **ASTM D-3359**

Standard Method for Adhesion Test

Test performed by the United States Testing Company, January 16-18, 1996

## **NFPA 417**

Standard on Construction and Protection of Aircraft Loading Walkways

Tests performed at Underwriters Laboratories, Canada, on Aircraft Loading Bridges, 1994

**Fire Endurance Test of Versa Wrap Raceway Fire Barrier Systems for Conduit and Cable Trays**

Conducted according to Nuclear Regulatory Commission (NRC) Generic Letter 86-10 Supplement 1, One And Three Hour Protocol for Conduit, Cable Trays, junction Boxes and Hangers, Omega Point Laboratories, Elmendorf, TX.

**ASTM E814-88**

Standard Method for Fire Test Through-Penetration and Fire Stops, on PVC pipes performed at Southwest Research Institute, San Antonio, TX.

**ANSI/IEEE Standard 383**

Standard test of Class 1E Electrical Cables for Nuclear Power generation Stations (Cable Coating) Test performed by Underwriters Laboratories, August 19, 1996.

**FAR 25.855, Appendix F, Part III, Amendment 25-60**

**Flammability of Aircraft Cargo Liners**

Tests performed by Flight Insulation Company, at U.S. Testing Company, December 1993, using NoFire 2025/30. Specifications meet codes of FAR 25.855, Appendix F, Part III, Amendment 25-60 (Now FAR 25.855(c) as changed by Amendment 25-72)

**NAVSEA MIL-STD-2031**

Fire Protection of Glass Vinyl Ester Composites for Structural Applications, Naval Surface Warfare Center, Carderock Division, Bethesda, MD.

**Uniform Building Code UBC 17-5**

Room test for interior of foam plastic systems  
Test performed at Southwest Research Institute, San Antonio, TX, December 5, 1995

**ASTM E152, BS-476 Part 22, ISO-3008**

Standard Methods of Fire Tests of Door Assemblies  
Tests performed by Weyerhaeuser Co. on 1 5/8" Particle Core Profile Doors.  
ASTM E152 – Longview, Washington – May 1993  
BS-476 Part 22 – Trade Technology Ltd., Buckinghamshire, England-August 1993  
International Standards Organization – Test #: ISO-3008, - August 1993

**CAN4 S104-M80**

Standard Methods of Fire Tests of Door Assemblies  
Tests performed at Underwriters Laboratories Canada on Retrofit Doors, May 1994

**FC708**

Acoustical Ceiling Fire Tests  
Tests performed by US Gypsum, June 1994

**MIL-STD 1648A**

Radiation Heat Flux on Naval Missile Canister performed by FMC Corporation for the US Navy

**Approval for use at Zaporozhye Nuclear Power Station. Ukraine**

First Deputy Chairman Ukrainian State, Committee, Nuclear Energy, September 19, 1995.

**UL Approval-Structural Steel Columns Protected by S-Barrier**

Tests performed at Underwriters Laboratories, August 2000