

MIL-STD-1623A(SHIPS)
20 MAY 1974
SUPERSEDING
MIL-STD-1623(SHIPS)
10 SEPTEMBER 1973
(SEE 5.4)

MILITARY STANDARD

**FIRE PERFORMANCE REQUIREMENTS AND
APPROVED SPECIFICATIONS FOR INTERIOR
FINISH MATERIALS AND FURNISHINGS**

(NAVAL SHIPBOARD USE)



FSC MISC

MIL-STD-1623A (SHIPS)
20 May 1974

DEPARTMENT OF THE NAVY
NAVAL SHIP SYSTEMS COMMAND
WASHINGTON, D.C. 20362

Fire Performance Requirements and Approved Specifications for
Interior Finish Materials and Furnishings (Naval Shipboard Use)
MIL-STD-1623A (SHIPS)

- #
1. This Military Standard is approved for use by the Naval Ship Systems Command and is available for use by all Departments and Agencies of the Department of Defense.
 2. Recommended corrections, additions, or deletions should be addressed to Commander, Naval Ship Engineering Center, Department of the Navy, Center Building, Prince George's Center, Hyattsville, Maryland 20782.

MIL-STD-1623A (SHIPS)
20 May 1974

FOREWORD

The purpose of this standard is to establish fire performance criteria and provide a list of approved specifications for interior finish materials and furnishings to be used on new and existing Naval ships and submarines.

Although the development of limits for toxic products of combustion is of major concern, the information generally available is not refined to the degree to allow inclusion of finite limits in this standard at this time.

Where no fire test limits appear, technical data was not available as of the date of this standard.

MIL-STD-1623A (SHIPS)
20 May 1974

CONTENTS

| | Page |
|---|---------|
| 1. SCOPE AND APPLICATION. | 1 |
| 1.1 Scope | 1 |
| 1.2 Application | 1 |
| 2. REFERENCED DOCUMENTS | 1 |
| 3. REQUIREMENTS | 2 |
| 3.1 Materials | 2 |
| 4. FIRE TEST PROVISIONS | 7 |
| 4.1 Responsibility for testing. | 7 |
| 4.2 Methods of testing. | 7 |
| 4.2.1 Surface flammability. | 7 |
| 4.2.2 Vertical flame resistance | 7 |
| 4.2.3 Smoke generation. | 7 |
| 4.2.4 Test for incombustibility | 7 |
| 5. NOTES. | 7 and 8 |

TABLE

| | |
|-----------------------------------|-------------|
| I Material requirements | 3 through 7 |
|-----------------------------------|-------------|

MIL-STD-1623A (SHIPS)
20 May 1974

1. SCOPE AND APPLICATION

1.1 Scope. This standard provides fire performance requirements and approved specifications for eight categories of interior finish materials and furnishings for use on new and existing surface ships and submarines.

1.2 Application. This standard applies to materials for bulkhead sheathing, overhead sheathing, furniture, draperies and curtains, adhesives, deck coverings, thermal insulation, and acoustic materials applications. The fire performance requirements of this standard supersede those contained in the applicable specifications.

2. REFERENCED DOCUMENTS

2.1 The issues of the following documents in effect on the date of invitation for bids form a part of this standard to the extent specified herein.

GOVERNMENTAL

SPECIFICATIONS

FEDERAL

L-F-450 - Flooring, Vinyl Plastic.
 L-F-475 - Floor Covering Vinyl, Surface (Tile and Roll), With Racking.
 HH-I-551 - Insulation Block, Pipe Covering and Boards, Thermal (Cellular Glass).
 QQ-A-250/19 - Aluminum Alloy 5086, Plate and Sheet for Sea Water Application.
 SS-C-160 - Cements, Insulation, Thermal.
 SS-S-118 - Sound Controlling Blocks and Boards (Acoustical Tiles and Panels, Prefabricated).
 SS-T-312 - Tile, Floor, Asphalt, Rubber, Vinyl, Vinyl-Asbestos.
 ZZ-M-42 - Mats, Floor, Dental-Chair, Rubber.
 CCC-A-680 - Artificial Leather (Cloth Coated), Vinyl Resin, Expanded Layer, (Upholstery).
 CCC-C-436 - Cloth, Ticking Twill, Cotton.
 CCC-C-700 - Cloth, Coated, Vinyl Coated (Artificial Leather).
 CCC-C-1703 - Cloth, Drapery, Glass Fiber.
 CCC-W-408 - Wall Covering, Vinyl-Coated.
 LLL-F-1238 - Floor Covering, Linoleum.
 MMM-A-130 - Adhesive, Contact.

MILITARY

MIL-I-742 - Insulation Board, Thermal, Fibrous Glass.
 MIL-M-910 - Mats, Floor, Standing.
 MIL-I-2781 - Insulation, Pipe, Thermal.
 MIL-I-2818 - Insulation Blanket, Thermal, Fibrous Mineral.
 MIL-I-2819 - Insulation Block, Thermal.
 MIL-D-3134 - Deck Covering Materials.
 MIL-D-3135 - Deck Covering Underlay Materials.
 MIL-A-3316 - Adhesives, Fire-Resistant, Thermal Insulation.
 MIL-P-15280 - Plastic Material, Unicellular (Sheets and Tubes).
 MIL-I-15475 - Insulation Felt, Thermal, Fibrous Glass Semirigid.
 MIL-M-15562 - Matting, Floor, Rubber.
 MIL-I-16411 - Insulation Felt, Thermal, Glass Fiber.
 MIL-D-16680 - Deck Covering Magnesia Aggregate Mixture.
 MIL-T-17171 - Table Top, Plastic; Thermosetting Resin.
 MIL-D-17951 - Deck Covering, Lightweight, Nonslip, Silicon Carbide Particle Coated Fabric and Sealing Compound.
 MIL-T-18830 - Tile, Plastic, Fire Retardant.
 MIL-M-19018 - Mats, Floor, Rubber or Plastic, Light Gray; for Shipboard Shower Stalls.
 MIL-C-19565 - Coating Compounds, Thermal Insulation Pipe Covering -- Fire- and Water-Resistant, Vapor-Barrier and Weather-Resistant.
 MIL-C-19993 - Coating Compound, Fibrous Glass Thermal Insulation Board, Water Vapor Barrier.
 MIL-C-20079 - Cloth, Glass; Tape, Textile, Glass; and Thread, Glass.
 MIL-R-20092 - Rubber Sheets and Molded Shapes, Cellular, Synthetic Open Cell (Foamed Latex).
 MIL-A-21016 - Adhesive, Resilient Deck Covering.

MIL-STD-1623A (SHIPS)
20 May 1974

MILITARY (Cont'd)

- MIL-D-21631 - Deck Covering, Latex Concrete (For Ammunition Ships).
- MIL-I-22023 - Insulation Felt, Thermal and Sound Absorbing Felt, Fibrous Glass, Flexible.
- MIL-I-22344 - Insulation, Pipe, Thermal, Fibrous Glass.
- MIL-C-22395 - Compound, End Sealing, Thermal Insulation Pipe Covering -- Fire-, Water-, and Weather-Resistant.
- MIL-P-22581 - Plastic Sheet, Vibration Damping.
- MIL-D-23003 - Deck Covering Compound, Nonslip, Lightweight.
- MIL-A-23054 - Acoustical Absorptive Board, Fibrous Glass, Perforated Fibrous Glass Cloth Faced.
- MIL-I-23128 - Insulation Blanket, Thermal, Refractory Fiber, Flexible.
- MIL-P-23653 - Plastic Tiles, Vibration Damping.
- MIL-P-24062 - Sprayable Vibration Damping Material for Light Steel Plate.
- MIL-I-24172 - Insulation, Plastic, Cellular Polyurethane, Rigid, Preformed and Foam-in-Place.
- MIL-A-24179 - Adhesive, Flexible Unicellular-Plastic Thermal Insulation.
- MIL-P-24191 - Plastic Sheet, Cast, Acrylic, Shipboard Application (Illumination and Signal Lighting).
- MIL-A-24456 - Adhesive for Plastic Vibration-Damping Tiles.
- MIL-D-24483 - Deck Covering, Spray-On, Nonslip.
- MIL-C-24500 - Cloth, Drapery, Bunk Curtain, Slipcovers, and Label, Polyaramid and Polyaramid/Novoloid Fiber Blends, Shipboard Use.

STANDARDS

FEDERAL

- FED-STD-191 - Textile Test Methods.
- FED-STD-501 - Floor Coverings, Resilient, Nontextile: Sampling and Testing.

PUBLICATION

UNITED STATES COAST GUARD

U.S.C.G. 164.009 - Test for Incombustibility.

(Application for copies should be addressed to the U.S. Coast Guard Headquarters, 400 Seventh Street, S.W., Washington, D.C. 20591.)

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

NONGOVERNMENTAL

AMERICAN IRON AND STEEL INSTITUTE (AISI)
Steel Products Manual

(Application for copies should be addressed to the American Iron and Steel Institute, 150 East Forty Second Street, New York, New York 10017.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- E84-70 - Surface Burning Characteristics of Building Materials, Test for.
- E162-67 - Surface Flammability of Materials Using a Radiant Heat Energy Source, Test for.
- STP 422 - Special Technical Publication. Method for Measuring Smoke from Burning Materials.

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using federal agencies.)

MIL-STD-1623A (SHIPS)
20 May 1974

3. REQUIREMENTS

3.1 **Materials.** Interior finish materials and furnishings shall meet the requirements set forth in table I. Thicknesses for bulkhead sheathing, overhead sheathing, and furniture indicates maximum limits in both application and fire tests.

Table I - Material requirements.

| Category | Material | Specification | Fire test | Maximum Test limits |
|------------------------------------|--|-------------------------------------|--------------------------|---|
| # Bulkhead sheathing ^{1/} | High pressure laminate for vertical surfaces | MIL-T-17171, type IV | ASTM E84-70 | Flame spread _____ 25 Smoke developed _____ 15 Thickness _____ 0.045 inch |
| | Fabric-backed vinyl | CCC-W-408, type II | ASTM E84-70 | Flame spread _____ 25 Smoke developed _____ 15 Thickness _____ 0.025 inch |
| | Unsupported vinyl film-aluminum lamination | QQ-A-250/19, (for aluminum only) | ASTM E84-70 | Flame spread _____ 25 Smoke developed _____ 15 Thickness film _____ 0.010 inch Thickness aluminum _____ 0.063 inch |
| | CRES panel | AISI type 304, finish 4 | Not applicable | Not applicable |
| # Overhead sheathing ^{2/} | Fibrous glass opaque suspended ceiling panel | SS-S-118, type IX | ASTM E84-70 | Flame spread _____ 25 Smoke developed _____ 35 Thickness _____ 0.750 inch |
| | Ceramic opaque suspended ceiling panel | SS-S-118, type IX | ASTM E84-70 | Flame spread _____ 25 Smoke developed _____ 25 Thickness _____ 0.750 inch |
| | Acrylic light-diffusing panels/windows (lighting fixture only) | MIL-P-24191, | ASTM E84-70 | Flame spread _____ 250 Smoke developed _____ 450 Thickness _____ 0.250 inch |
| | Vinyl clad perforated aluminum panel | QQ-A-250/19, (for aluminum only) | ASTM E84-70 | Flame spread _____ 25 Smoke developed _____ 15 Thickness film _____ 0.010 inch Thickness aluminum _____ 0.063 inch |
| | CRES panel | AISI type 304, finish 4 | Not applicable | Not applicable |
| | Steel or aluminum exposed grid suspension framework | Commercial | Not applicable | Not applicable |
| # Furniture | Vinyl upholstery | CCC-A-680, class 2, treatment (a) 1 | FED-STD-191, method 5903 | Char length _____ 3 inch After flame _____ 2 sec |
| | Vinyl upholstery | CCC-C-700, class 4, treatment a (1) | FED-STD-191, method 5903 | Char length _____ 3 inch After flame _____ 2 sec |
| | Aromatic polyamide upholstery | Commercial | FED-STD-191, method 5903 | Char length _____ 5 inch After flame _____ 1 sec |
| | Treated cotton ticking | CCC-C-436, type II, class 2 | FED-STD-191, method 5903 | Char length _____ 5 inch After flame _____ 2 sec |

See footnotes at end of table.

MIL-STD-1623A (SHIPS)
20 May 1974

Table I - Material requirements (cont'd).

| Category | Material | Specification | Fire test | Maximum Test limits |
|--|--|-------------------------------|-------------------------------------|--|
| # Furniture (cont'd) | Neoprene cushioning and mattresses | MIL-R-20092, type II, class 4 | ASTM E162-67 | Flame spread index _____ 10 |
| | High pressure laminate for table tops | MIL-T-17171, Type I | ASTM E84-70 (bonded) | Flame spread _____ 75 Smoke developed _____ 50 Thickness _____ 0.062 inch |
| # Draperies and curtains ^{3/} | Fibrous glass | CCC-C-1703 | FED-STD-191, method 5903 STP 422 | Char length _____ 1.5 inch After flame _____ 1 sec After glow _____ 2 sec DM corrected _____ 20 |
| | Polyaramid | MIL-C-24500 Type I | FED-STD-191, method 5903 STP 422 | Char length _____ 5 inch After flame _____ 1 sec After glow _____ 5 sec DM corrected _____ 20 |
| | Polyaramid/ Noroloid NOVOLOID <i>yes</i> | MIL-C-24500 Type II | FED-STD-191, method 5903 STP 422 | Char length _____ 5 inch After flame _____ 1 sec After glow _____ 5 sec DM corrected _____ 20 |
| # Adhesives ^{4/} | Contact adhesive (sheathing on surface ships) | MMM-A-130 | | |
| | Contact adhesive (sheathing on submarines) | MIL-A-24179, Type I | | |
| | Deck tile adhesive | MIL-A-21016 | | |
| | Carpet cement | Commercial | | |
| | Bead sealer | MIL-D-17951 | | |
| | Thermal insulation | MIL-A-3316, class I | | |
| | Thermal insulation cement | SS-C-160 | | |
| | Damping tile cement | MIL-A-24456 | | |
| # Deck coverings | Vinyl asbestos tile | MIL-T-18830 | FED-STD-501, method 6411 | Char length _____ 10 inch Combustion + ignition _____ 4.0 min |
| | Vinyl tile | SS-T-312, type III | FED-STD-501, method 6411 | Char length _____ Combustion + ignition _____ |
| | Vinyl sheet | L-F-450 | FED-STD-501, method 6411 | Char length _____ Combustion + ignition _____ |
| | Rubber roll | SS-T-312, type II | ASTM E162-67 | Flame spread index _____ 25 |

See footnotes at end of table

MIL-STD-1623A (SHIPS)
20 May 1974

Table I - Material requirements (cont'd).

| Category | Material | Specification | Fire test | Maximum Test limits | |
|--------------------------------|----------------------------------|--|------------------------------|--|---|
| # | Vinyl tile or sheet with backing | L-F-475 | FED-STD-501, method 6411 | Char length _____ Combustion + ignition _____ | |
| # | Conductive linoleum | LLL-F-1238, type II, grade H | FED-STD-501, method 6411 | Char length _____ Combustion + ignition _____ | |
| # | Treads - non skid | MIL-D-17951 | FED-STD-501, method 6411 | Char length _____ 8 inch Combustion + ignition _____ 4.0 min | |
| # | Epoxy non-skid | MIL-D-23003 | FED-STD-501, method 6411 | Char length _____ 6 inch Combustion + ignition _____ 4.25 min | |
| # | Latex underlay | MIL-D-3135 | FED-STD-501, method 6411 | Char length _____ 8 inch Combustion + ignition _____ 4.5 min | |
| # | Terrazzo | MIL-D-3134, type I, class 1 type I, class 2 | FED-STD-501, method 6411 | Char length _____ 7 inch Combustion + ignition _____ 4.0 min | |
| # | Deck coverings (cont'd) | Latex mastic | MIL-D-3134, type II, class 1 | FED-STD-501, method 6411 | Char length _____ 7 inch Combustion + ignition _____ |
| # | Latex concrete | MIL-D-21631 | FED-STD-501, method 6411 | Char length _____ 3 inch Combustion + ignition _____ 4.0 min | |
| # | Magnesium aggregate | MIL-D-16680 | FED-STD-501, method 6411 | Char length _____ 3 inch Combustion + ignition _____ 4.0 min | |
| # | Standing rubber mat | MIL-M-910 | FED-STD-501, method 6411 | Char length _____ Combustion + ignition _____ | |
| # | Electrical grade rubber mat | MIL-M-15562 | FED-STD-501, method 6411 | Char length _____ 10 inch Combustion + ignition _____ | |
| # | Shower mat | MIL-M-19018 | FED-STD-501, method 6411 | Char length _____ Combustion + ignition _____ | |
| # | Beta fibrous glass carpet | Commercial | ASTM E162-67 without pad | Flame spread index _____ 25 | |
| # | Aromatic polyamide carpet | Commercial | ASTM E162-67 without pad | Flame spread index _____ 25 | |
| # | Spray-on non skid | MIL-D-24483 | FED-STD-501, method 6411 | Char length _____ 6 inch Combustion + ignition _____ 4.25 min | |
| # | Barber shop mat | ZZ-M-42 | FED-STD-501, method 6411 | Char length _____ Combustion + ignition _____ | |
| See footnotes at end of table. | | | | | |

MIL-STD-1623A (SHIPS)
20 May 1974

Table I - Material requirements (cont'd).

| Category | Material | Specification | Fire test | Maximum Test limits |
|--|---------------------|---------------------------|-----------------------------|--|
| # Thermal ^{5/} insulation | Insulating board | MIL-I-742 | U.S.C.G. 164.009 | Pass |
| | Pipe insulation | MIL-I-2781 | U.S.C.G. 164.009 | Pass |
| | Block insulation | MIL-I-2819 | U.S.C.G. 164.009 | Pass |
| | Insulating blanket | MIL-I-23128 | U.S.C.G. 164.009 | Pass |
| | Insulating felt | MIL-I-16411 | U.S.C.G. 164.009 | Pass |
| | Insulating block | HH-I-551 | U.S.C.G. 164.009 | Pass |
| | Insulating blanket | MIL-I-2818 | U.S.C.G. 164.009 | Pass |
| | Insulating felt | MIL-I-15475 | U.S.C.G. 164.009 | Pass |
| | Coating compound | MIL-C-19565 | ASTM E84-70 (bonded) | Flame spread _____ 25 Smoke developed _____ |
| | Coating compound | MIL-C-19993 | ASTM E84-70 (bonded) | Flame spread _____ 25 Smoke developed _____ |
| | Glass cloth | MIL-C-20079 | FED-STD-191, method 5903 | Char length _____ After flame _____ After glow _____ |
| | Pipe insulation | MIL-I-22344 | ASTM E84-70 (bonded) | Flame spread _____ 25 Smoke developed _____ |
| | Urethane foam | MIL-I-24172 | ASTM E84-70 (bonded) | Flame spread _____ 25 Smoke developed _____ |
| | End sealer | MIL-C-22395 | ASTM E84-70 (bonded) | Flame spread _____ 25 Smoke developed _____ |
| | PVC - Nitrile | MIL-P-15280 | ASTM E84-70 STP 422 | Flame spread _____ 25 Optical smoke density _____ 250 Thickness _____ 0.5 inch |
| # Acoustic materials | Acoustic board | MIL-I-22023 | ASTM E84-70 (bonded) | Flame spread _____ Smoke developed _____ |
| | Acoustic insulation | MIL-A-23054 | U.S.C.G. 164.009 | Pass |
| | PVC graphite | MIL-P-23653 class 1, 2 | ASTM E162-67 | Flame spread index _____ |
| | Epoxy-sand (sheet) | MIL-P-22581 | ASTM E162-67 | Flame spread index _____ |

See footnotes at end of table.

MIL-STD-1623A (SHIPS)
20 May 1974

Table I - Material requirements (cont'd).

| Category | Material | Specification | Fire test | Maximum Test limits |
|--------------------|---------------------------------|----------------------|--------------|--------------------------|
| Acoustic materials | Epoxy-sand (sprayable) | MIL-S-24062 | ASTM E162-67 | Flame spread index _____ |
| | Felt-chromate | Commercial | ASTM E162-67 | Flame spread index _____ |
| | Vibration damping plastic tiles | MIL-P-23653, class 3 | ASTM E162-67 | Flame spread index _____ |

- 1/ Maximum test limits are based upon material bonded to a non-combustible substrate.
- 2/ Maximum test limits are based upon material attached to, or supported by, a non-combustible substrate.
- # 3/ An 8-ounce weight shall be used for materials tested in accordance with FED-STD-191, method 5903.
- # 4/ Fire test limits are not required.
- 5/ Materials tested in accordance with U.S.C.G. 164.009 shall pass all requirements for incombustibility.

4. FIRE TEST PROVISIONS

4.1 Responsibility for testing. Unless otherwise required in the applicable material specification, the manufacturer is responsible for conducting fire tests as specified herein. Except as otherwise specified, the manufacturer may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any of the tests set forth herein where such testing is deemed necessary to assure compliance to prescribed requirements.

4.2 Methods of testing. Fire tests shall be conducted on materials as specified in table I and the notes therein. All fire test procedures shall be in accordance with prescribed standards and test methods, and, unless otherwise specified herein, no less than three specimens shall be tested on material of the same lot with results averaged (arithmetic means). The following tests apply:

4.2.1 Surface flammability.

- 4.2.1.1 ASTM E84-70 (Tunnel test).
- 4.2.1.2 ASTM E162-67 (Radiant panel).
- 4.2.1.3 FED-STD-501, Method 6411.

4.2.2 Vertical flame resistance.

4.2.2.1 FED-STD-191, Method 5903 - A minimum of five specimens from each of the warp and filling directions on material of the same lot shall be tested and their results averaged (arithmetic means).

4.2.3 Smoke generation.

- 4.2.3.1 ASTM E84-70 (Tunnel test).
- 4.2.3.2 STP 422 (NBS Smoke Chamber).

4.2.4 Test for incombustibility.

- 4.2.4.1 U.S.C.G. 164.009 (Heated Tube Test).

5. NOTES

- 5.1 This standard will be updated periodically as additional data becomes available.

MIL-STD-1623A(SHIPS)
20 May 1974

5.2 This standard will be implemented by the requirements of the applicable material specifications.

5.3 The materials specified in this standard reflect the present state-of-the-art.

5.4 THE MARGINS OF THIS STANDARD ARE MARKED "*" TO INDICATE WHERE CHANGES (ADDITIONS, MODIFICATIONS, CORRECTIONS, DELETIONS) FROM THE PREVIOUS ISSUE HAVE BEEN MADE. THIS WAS DONE AS A CONVENIENCE ONLY AND THE GOVERNMENT ASSUMES NO LIABILITY WHATSOEVER FOR ANY INACCURACIES IN THESE NOTATIONS. BIDDERS AND CONTRACTORS ARE CAUTIONED TO EVALUATE THE REQUIREMENTS OF THIS DOCUMENT BASED ON THE ENTIRE CONTENT IRRESPECTIVE OF THE MARGINAL NOTATIONS AND RELATIONSHIP TO THE LAST PREVIOUS ISSUE.

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