MILITARY STANDARD

FIRE PERFORMANCE REQUIREMENTS AND APPROVED SPECIFICATIONS FOR INTERIOR FINISH MATERIALS AND FURNISHINGS (NAVAL SHIPBOARD USE)

TO ALL HOLDERS OF MIL-STD-1623D(SH):

1. THE FOLLOWING PAGES OF MIL-STD-1623D(SH) HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
3	3 July 1985	3	7 December 1981
4	7 December 1981	(REPRINTED WITHOUT CHANGE)	
7	7 December 1981	(REPRINTED WITHOUT CHANGE)	
8	3 July 1985	8	7 December 1981

2. Holders of MIL-STD-1623D(SH) will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the Military Standard is completely revised or canceled.

Preparing activity:
Navy - SH
(Project 19GP-N006)

MILITARY - Continued

MIL-I-24172 - Insulation, Plastic, Cellular Polyurethane, Rigid, Preformed and Foam-in-Place.
MIL-P-24191 - Plastic Sheet, Cast, Acrylic, Shipboard Application (Illumination and Signal Lighting).
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.
MIL-L-24518 - Laminate, Vinyl Film-Aluminum, Decorative.
MIL-D-24613 - Deck Covering Materials, Interior, Cosmetic Polymeric.

STANDARDS

FEDERAL

FED-STD-191 - Textile Test Methods.
FED-STD-372 - Test for Critical Radiant Flux of Carpet Flooring Systems (Flooring Radiant Panel Test).
FED-STD-406 - Plactics: Methods of Testing.
FED-STD-501 - Floor Coverings, Resilient, Nontextile: Sampling and Testing.

PUBLICATIONS

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 quarters, 400 Seventh Street, S.W., Washington, DC 20591.)

(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific acquisition functions should be obtained from the contracting 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 Institute, 1000 - 16th Street, N.W., Washington, DC 20036.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

D 635 - Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics In a Horizontal Position.
D 2843 - Density of Smoke from the Burning or Decomposition of Plastics.
E 84 - Surface Burning Characteristics of Building Materials.

Supersedes page 3 of 7 December 1981.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) - Continued
E 162 - Surface Flammability of Materials Using a Radiant Heat Energy Source.
E 662 - Specific Optical Density of Smoke Generated by Solid Materials.

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

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 indicate maximum limits in both application and fire tests.

TABLE 1. Material requirements.

Category	Material	Specification	Fire test	Maximum test limits	
Bulkhead sheathing 1/	High pressure laminate	MIL-P-17171, type IV	ASTM E 84	Flame spread Smoke developed	25 15
	Fabric-backed vinyl	CCC-W-408, type II	ASTM E 84	Flame spread Smoke developed Thickness	25 75 0.035 inch
	PVC film-aluminum laminate	MIL-L-24518	ASTM E 84	Flame spread Smoke developed Thickness film Thickness aluminum	25 75 0.011 inch 0.063 inch
	CRES panel	ANSI type 304, finish 4	Not required	Not required	
	High pressure laminate pre-bonded to aluminum	MIL-P-17171	ASTM E 84	Flame spread Smoke developed Thickness aluminum	25 15 0.050 inch
	PVF film-aluminum laminate	L-P-1040, type II, grade A, class 1	ASTM E 84	Flame spread Smoke developed Thickness film Thickness aluminum	25 75 0.004 inch maximum 0.063 inch

See footnotes at end of table.

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TABLE I. Material requirements. - Continued

Category	Material	Specification	Fire test	Maximum test limits
Draperies and curtains 6/ continued	Polyaramid	MIL-C-24500, type I	FED-STD-191, method 5903 ASTM E 662	Char length 5 inch After flame 1 sec After glow 25 sec D_m corrected 20
	Polyaramid/ Novoloid	MIL-C-24500, type II	FED-STD-191, method 5903 ASTM E 662	Char length 3 inch After flame 1 sec After glow 25 sec D_m corrected 20
Deck coverings 8/	Fire-retardant plastic	MIL-T-18830 7/	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 inch
	Vinyl tile	SS-T-312, 7/ type III	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Vinyl sheet	L-F-450 7/	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Rubber tile	SS-T-312, 7/ type II	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Vinyl tile or sheet with backing	L-F-475 7/	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Threads non-skid	MIL-D-17951	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Epoxy non-skid	MIL-D-23003	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Latex underlay	MIL-D-3135	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Terrazzo	MIL-D-3134, type 1, class 1, type I, class 2	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min

See footnotes at end of table.

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TABLE I. Material requirements. - Continued

Category	Material	Specification	Fire test	Maximum test limits
Deck coverings 8/ continued	Latex mastic	MIL-D-3134, type II	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Latex concrete	MIL-D-21631	FED-STD-501, method 6411	Char length 3 inch Combustion time 4.0 min
	Magnesium aggregate	MIL-D-16680 and MIL-D-18873	FED-STD-501, method 6411	Char length 3 inch Combustion time 4.0 min
	Standing rubber mat	MIL-M-910	Not required	Not required
	Electrical grade mat or sheet	MIL-M-15562 7/	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Carpet	DDD-C-95, type II, class 1, 2, or 4	FED-STD-372 ASTM E 662	Incident radiant energy 0.5 watts/cm^2 (minimum) D_m corrected 450
	Spray-on non-skid	MIL-D-24483	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min
	Barber shop mat	ZZ-M-42	Not required	Not required
	Interior cosmetic polymeric	MIL-D-24613	FED-STD-501, method 6411	Char length 10 inch Combustion time 4.0 min

See footnotes at end of table.

Supersedes page 8 of 7 December 1981.

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