DDD-C-95
April 16, 1965
SUPERSEDING
(see 6.4)

FEDERAL SPECIFICATION

CARPETS AND RUGS, WOOL, NYLON, ACRYLIC, MODACRYLIC

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration for the use of all Federal agencies

1 SCOPE AND CLASSIFICATION

1.1 **Scope** This specification covers requirements for carpets and rugs intended for use as floor coverings

1.2 **Classification**

1.2.1 *Types and classes* The carpets and rugs shall be of the following types and classes as specified (see 6.2)

Type I—Axminster
- Class 1—Single level cut pile pattern (25 oz sq yd pile)

Type II—Velvet
- Class 1—Single level cut pile
  - Subclass A—(29 oz sq yd pile)
  - Subclass B—(52 oz sq yd pile)
- Class 2—Single level cut pile—twist
- Class 3—Single level loop pile—woven thru back
- Class 4—Profile wire loop pile
  - Subclass A—(25 oz sq yd pile)
  - Subclass B—(34 oz sq yd pile)
- Class 5—Single level loop pile—woven thru back—filament nylon
- Class 6—Multilevel loop—woven thru back
- Class 7—Profile wire loop—woven thru back—filament nylon

Type III—Wilton
- Class 1—Cut pile, carved pile
- Class 2—Multilevel loop pile
- Class 3—Multilevel cut and loop pile
- Class 4—Single level loop pile—woven thru back

Type IV—Tufted
- Class 1—Multilevel loop pile—filament nylon
- Class 2—Multilevel loop pile
- Class 3—Single level cut pile
  - Subclass A—(27 oz/sq yd pile)
  - Subclass B—(35 oz/sq yd pile)
- Class 4—Single level loop pile
  - Subclass A—(33 oz/sq yd pile)
  - Subclass B—(42 oz/sq yd pile)
- Class 5—Cut and uncut pile
  - Subclass A—(26 oz/sq yd pile)
  - Subclass B—(36 oz/sq yd pile)

Type V—Knitted
- Class 1—Single level loop pile
  - Subclass A—(28 oz sq yd pile)
  - Subclass B—(37 oz sq yd pile)
- Class 2—Multilevel loop pile

Type VI—Modified
- Class 1—Single level loop pile—attached rubber cushion
- Class 2—Single level loop pile—twist

2 APPLICABLE SPECIFICATIONS, STANDARDS AND OTHER PUBLICATIONS

2.1 **Specifications and standards** The following specifications and standards of the issues in effect on date of invitation for bids or request for proposal form a part of this specification to the extent specified herein

Federal Specifications

UU-P-268—Paper, Kraft Untreated Wrapping
UU-T-111—Tape, Paper, Gummed (Sealing and Securing)
CCC-T-191—Textile Test Methods
PPP-B-35—Bags Textile, Shipping, Burlap, Cotton and Waterproof Laminated

PPP-B-576—Box, Wood Cleated Veneer, Paper Overlaid
PPP-B-591—Boxes Fiberboard Wood-Cleated
PPP-B-601—Boxes Wood Cleated-Plywood
PPP-B-621—Boxes, Wood Nailed and Lock-Corner
PPP-B-636—Box, Fiberboard
PPP-B-640—Boxes Fiberboard, Corrugated, Triple Wall

Federal Standards

Fed Std No 102—Preservation, Packaging, and Packing Levels
Fed Std No 123—Marking For Domestic Shipment (Civilian Agencies)

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index The Index which includes cumulative monthly supplements as issued is for sale on a subscription basis by the Superintendent of Documents U S Government Printing Office Washington, D C 20402

(Single copies of this specification and other procurement specifications required by activities outside the Federal Government for bidding purposes are available without charge at the General Services Administration Regional Offices in Boston New York Washington D C Atlanta Chicago, Kansas City Mo Dallas Denver San Francisco Los Angeles and Seattle Wash

(Federal Government activities may obtain copies of Federal Specifications Standards and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies)

Military Specification

MIL-L-10547—Liners Case and Sheet Overwrap Water-Vaporproof or Waterproof Flexible

Military Standards

MIL-STD-105—Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-129—Marking for Shipment and Storage

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer)

2 2 **Other publications** The following documents form a part of this specification to the extent specified herein Unless otherwise indicated the issue in effect on date of invitation for bids or request for proposal shall apply

Federal Trade Commission

Textile Fiber Product Identification Act

(Copies may be obtained without charge from the Federal Trade Commission Washington 25, D C)

American Society for Testing and Materials (ASTM) Standards

D-418-42—Woven Pile Floor Coverings
D 1116-55T—Resistance of Pile Floor Coverings to Insect Pest Damage
D-1335-60T—Tuft Bind of Pile Floor Coverings
D-1486-57T—Tufted Pile Floor Coverings

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

(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 Samples

3 1 1 *Standard sample* When a standard sample is available the finished carpets or rugs shall match the standard sample for shade and shall be equal to or better than the standard sample with respect to all characteristics for which the standard sample is referenced (see 6 3)

3 1 2 *Bid sample* Unless otherwise specified (see 6 2) at the time of submission of bid, the bidder shall submit to the contracting officer three pieces, a minimum of 8 inches square each, of each type and class

of carpet he proposes to furnish for determination of acceptability of color, appearance, and texture A sample of binding tape at least 6 inches long shall be attached to carpet samples of each color which bidder proposes to furnish After award of contract one approved sample shall be returned to the contractor, one shall be forwarded to the cognizant Government quality control activity and one shall be retained by the contracting officer

3.2 Material

3 2 1 *Pile yarn* The pile yarn shall be made of 100 percent wool, nylon, acrylic or modacrylic fiber or blends of these fibers in yarn exclusive of ornamentation Not less than 20 percent of any of the above fibers shall be used when blended with other fibers and such blends cannot consist of more than two fibers Unless otherwise specified (see 6 2), spun yarn shall be at least 2-ply The required pile yarn shall be as specified (see 6 2) except as indicated in tables I through VI

3 2 1 1 *Wool* Wool shall be thoroughly scoured carpet type fiber which has never been reclaimed from any woven, tufted, knitted, or felted products The wool yarn shall contain a minimum of 97 percent wool based on the dry weight of the specimen when tested as specified in 4 2 1

3 2 1 2 *Staple nylon* Staple nylon shall be carpet type fiber with average fiber size of 15 denier or coarser, which has never been reclaimed from any woven, tufted knitted, or felted products The finished yarn shall contain not more than 2 0 percent chloroform soluble material when tested as specified in 4 2.1

3 2.1.3 *Filament nylon* Filament nylon shall be continuous filament high bulk or textured carpet type yarn Individual filament size shall average 15 denier or coarser. Filament nylon shall be used only in those fabrics where specified in the tables of physical requirements The finished yarn shall contain not more than 2 0 percent chloroform soluble material when tested as specified in 4 2 1

3 2 1 4 *Acrylic* Acrylic shall be carpet type fiber, with average fiber size of 15 denier o coarser which has never been reclaimed from any woven, tufted, knitted, or felted products The finished yarn shall contain not more than 2 0 percent chloroform soluble material when tested as specified in 4 2.1

3.2.1.5 *Modacrylic* Modacrylic shall be carpet type fiber, with average fiber size of 15 denier or coarser, which has never been reclaimed from any woven, tufted, knitted, of felted products The finished yarn shall contain not more than 2 0 percent chloroform soluble material when tested as specified in 4 2 1

3 2 2 *Chain, filling, and stuffer yarns* The chain, filling, and stuffer yarns for types I, II, and III carpets or rugs shall be as specified in tables I through III The chain and filling yarns for types V and VI carpets or rugs shall be as specified in tables V and VI

3.2 3 *Backing material* The backing material shall be a woven fabric of either jute or cotton, weighing not less than 9 2 ounces per square yard

3.2 4 *Backing reinforcement* The backing reinforcement shall be a woven or knitted fabric weighing not less than 6.0 ounces per square yard

3.2 5 *Attached rubber cushioning* The rubber cushioning shall be of the following classes

Class 1—Rubber cushioning manufactured and cured in place affixed to the back of the carpet or rug in seamless widths

Class 2—Rubber cushioning prepared and manufactured prior to application to the carpet or rug and affixed to the carpet or rug in strip form by means of an adhesive

The compound used in making the cushioning shall be made from natural or synthetic latex or a mixture of natural and synthetic latices. The cushioning shall be free of objectionable odor and shall have a skin on the floor side when affixed to the carpet or rug.

The rubber cushioning shall meet the following requirements:

a. Cushioning shall average not less than 3/16 inch.

b. The weight per square yard shall be not less than 3.50 pounds nor more than 4.25 pounds.

c. The compressibility shall be not less than 5 pounds nor more than 9 pounds.

d. The compression set shall be not more than 15 percent.

e. Class 1 cushioning should tear before pulling free from carpet. Class 2 cushioning attached to carpet or rug in strip form by an adhesive shall have a minimum strip strength of 2.0 pounds per inch of width.

f. When subjected to an accelerated aging test the cushion shall not deteriorate.

3.2.6 *Back coating.* The back coating compound shall be a synthetic resin or natural or synthetic latex compound.

3.3 **Color and matching.** The color shall be as specified (see 6.2) and shall match the standard sample when available, under natural (north sky) daylight or artificial daylight having a color temperature of 7500 Kelvin (K.) and shall be a good approximation to the standard sample under incandescent lamplight at 2800° K. when tested as specified in 4.5.14.

3.3.1 *Colorfastness.* The carpeting or rugs shall show fastness to light and wet-method cleaning equal to or better than the standard sample. When no standard sample is established the carpeting or rugs shall show good fastness to wet-method cleaning and light. They shall show a rating of good for light colors after 20 standard fading hours (2000 Langleys) and for dark colors after 40 standard fading hours (4000 Langleys). The supplier is to submit with his bid and samples a certified list of the colors, identification of these colors by the bidder's color number, and the category of "light" or "dark" into which each color is classified by the supplier. This list is to be submitted for each pattern and coloration. Testing shall be as specified in 4.4.

3.4 **Physical requirements.** The finished carpets and rugs shall conform to the physical requirements specified in tables I through VI. The weights given in these tables are exclusive of back coating.

3.4.1 *Tolerances.* Tolerances of minus 6.0 percent will be allowed for pile and total weight only. All other requirements shown in tables I thru VI are minimum. This does not prohibit the increase of any or all constituents listed.

3.5 **Shrinkage.** The shrinkage shall not exceed 3.0 percent in either the length or the width when tested as specified in 4.4.

3.6 **Moth repellency.** A moth repellent compound shall be properly applied to the wool pile component of carpets and rugs and shall have an insect resistance classification of not less than "resistant" when tested as specified in 4.4.

3.7 **Construction.**

3.7.1 *Applicable to types and classes.*

3.7.1.1 *Types I and II, all classes and type III, classes 1, 2, and 3.* Types I and II, all classes, and type III, classes 1, 2, and 3 carpets or rugs shall be coated on the back or floor side with the coating compound as specified in 3.2.6. The minimum amount of coating compound shall be as specified in tables I and II.

3.7.1.1.1 *Type III, class 4.* Type III class 4 carpets or rugs do not require any back coating.

3.7.1.2 *Type IV, all classes.*

3.7.1.2.1 *Backing material.* Type IV, all classes carpets or rugs shall have a backing

material as specified in 3.2.3 into which the tufts are needled to form the carpet or rug.

3.7.1.2.2 *Backing reinforcement.* Type IV, all classes carpets or rugs shall have a backing reinforcement as specified in 3.2.4 applied to the back or floor side of the carpet or rug using the backing compound specified in 3.2.6. The adherence shall be such that the strip requirement shall be a minimum of 2.0 pounds per inch of width when tested as specified in 4.4.

3.7.1.3 *Type V, all classes.* Type V, all classes carpets and rugs shall be coated on the back or floor side with the coating compound specified in 3.2.6. The minimum amount of coating compound shall be as specified in table V.

3.7.1.4 *Type VI, all classes.* Type VI, all classes carpets or rugs shall be coated on the back or floor side with the coating compound specified in 3.2.6. The minimum amount of coating compound shall be as specified in table VI.

3.7.1.4.1 *Rubber cushioning.* Type VI, class 1 carpets and rugs shall have rubber cushioning as specified in 3.2.5 affixed to the floor side of the carpet or rug. Additionally type II, classes 3, 5, 6 and 7, and type V carpets and rugs shall be supplied with rubber cushioning when specified (see 6.2).

3.7.2 *Edges.* Unless otherwise specified (see 6.2), type II classes 3, 5 and 6 carpets or rugs, shall have cut edges beveled and sealed. Cut edges of all other types and classes shall be bound as specified in 3.7.2.1, except for carpeting supplied specifically for wall-to-wall installation (see 6.2) and carpets and rugs with attached rubber cushioning. The edge treatment for carpets and rugs with attached rubber cushioning shall be as follows:

a. For wall-to-wall installations, the full thickness of cushioning must extend even with the edges of carpet material on all sides.

b. Cushioning for carpets and rugs other than for wall-to-wall installation shall cover the entire rug with the exception of a 1-5/8 ± 3/8 border inward from all edges of the rug. All rug or carpet edges shall touch the floor.

3.7.2.1 *Binding.* Cut edges shall be bound with a 1-1/2 ± 1/8 inch woven cotton tape having not less than 100 total ends and 27 picks per inch and weighing not less than 0.27 ounces per linear yard. The color of the tape shall be a reasonable match of the pile.

3.7.3 *Seaming.* Standard seamless broadloom widths shall be used unless the size required necessitates seaming. Seams shall be kept to the minimum practicable. Seams, where required, are to be sewn or taped (not both) as specified. Seams on carpets and rugs without attached rubber cushioning shall have a breaking strength of not less than 100 pounds when tested as specified in 4.4. Tape used in making seams shall be a minimum of 2-1/2 inches wide. Seams on carpets and rugs with attached rubber cushioning shall be made with single face pressure sensitive-adhesive tape, 3 inch minimum width equal to type OA620 of the Seamless Rubber Company, type 213 of the Kendall Company or type 623 of the Hampton Manufacturing Company. In addition, adhesive shall be applied to both edges of the carpet and rubber cushioning at the joint. These edges shall be brought together to insure intimate contact of the adjoining edges after application of the adhesive.

3.8 **Size and pattern.** The length, width and pattern of the carpets and rugs shall be as specified (see 6.2).

3.8.1 *Dimensional tolerance.* The dimensional tolerances shall be as follows:

Cut rugs—width or length—not more than 1 percent less than specified.

Rolls—width—not more than 1 percent less than specified.

Length—not less than specified nor more than 10 percent longer than specified.

Individual roll—not more than 1 yard less than indicated on piece ticket
Total yardage in sample—total gross length of all pieces in sample not less than the total gross length marked on piece tickets

3.9 **Flame resistance** The flame resistance of carpets and rugs shall be such that the longest diameter of the charred area shall not exceed 2 inches when tested for flame resistance as specified in 4.4

3.10 **Fiber identification.** Each carpet and rug shall be labeled, ticketed, or invoiced for fiber content in accordance with the Textile Fiber Products Identification Act

3.11 **Workmanship** Carpets and rugs shall conform to the quality and grade of product established by this specification The occurrence of defects shall not exceed the applicable acceptable quality levels (AQLs)

TABLE I *Physical requirements—type I*

Class	1
Description	Single level cut pile pattern
Tufts/sq in.	47
Shots/row	8
Weight oz/sq yd.	
Pile	25
Total	55
Tuft length/in.	Min 0.700 Max 0.875
Material	
Pile	See 3.2.1
Chain	Cotton and/or rayon
Filling	Jute or kraftcord
Stuffer	Cotton and/or rayon
Back coating oz sq yc	6
Tuft bind (oz.)	18

TABLE II *Physical*

Class	1		2	3
Description	Single level cut pile	plain	Single level cut pile twist	Single level loop pile woven thru back
Subclass	A	B		
Tufts/sq in	56	58	64	60
Shots wire	2	2	2	2
Weight oz/sq yd.				
pile	29	52	34	42
Total	48	78	58	60
Pile height	Min 0.210 Max 0.290	Min 0.500 Max 0.625	Min 0.200 Max 0.290	Min 0.240 Max 0.310
Material				
pile	See 3.2.1		See 3.2.1	See 3.2.1 excluding nylon & nylon blends
Chain	Cotton and or rayon		Cotton and or rayon	Cotton and/or rayon
Filling	Cotton and/or rayon or jute		Cotton and/or rayon, or jute	Cotton and/or rayon, or jute
Stuffer	Cotton jute or kraftcord		Cotton jute or kraftcord	Cotton jute or kraftcord
Back coating oz sq yd	8		8	8
Tuft bind (oz.)	16		16	80
Ply twist turns (per inch)	Min 1.5 Max 3.5		Min 6.5 Max 8.5	Min 1.5 Max. 3.5

[1] Pile height differential—minimum 0.180

[2] Pile height differential—minimum 0.060

TABLE III *Physical requirements—type III*

Class	1	2	3	4
Description	Cut pile, carved	Multilevel loop	Multilevel cut and loop	Single level loop woven thru back
Tufts/sq in	56	86	40	52
Frames	1 or 2	2	2	3
Shots/wire	2	2	2	2
Weight oz/sq yd				
pile	35	36	41	48
Total	53	55	60	72
Pile height	Min 0.160 Max 0.500	Min 0.125 Max 0.400	Min 0.170 Max 0.425	Min 0.250 Max 0.320
Pile height differential	Min 0.250	Min 0.150	Min. 0.100	—
Material				
pile	See 3.2.1	See 3.2.1 excluding nylon and nylon blends	See 3.2.1 excluding nylon and nylon blends	See 3.2.1 excluding nylon and nylon blends
Chain	Cotton and/or rayon	Cotton and/or rayon	Cotton and/or rayon	Cotton and/or rayon
Filling	Cotton and or rayon or jute	Cotton and/or rayon, or jute	Cotton and/or rayon, or jute	Cotton and/or rayon, or jute
Stuffer	Cotton jute or kraftcord	Cotton, jute or kraftcord	Cotton, jute or kraftcord	Cotton, jute or kraftcord
Back coating oz/sq yd	10	10	10	—
Tuft bind (oz)	16	32	32	80
Pile twist turns (per inch)	Min 1.5 Max 3.5	Min 1.5 Max 3.5	Min 1.5 Max 3.5	Min. 1.5 Max. 3.5

requirements—type II

4[1]		5	6[2]	7[1]
Profile wire loop		Single level loop pile woven thru back	Multilevel loop woven thru back	Profile wire loop woven thru back
A	B			
58	46	32	34	48
2	2	2	2	2
25	34	29	44	22
48	58	50	64	40
Min. 0.125 Max 0.370		Min 0.200 Max 0.290	Min. 0.190 Max 0.370	Min. 0.125 Max. 0.370
See 3.2.1 excluding nylon & nylon blends		100 percent filament nylon see 3.2.1.3	See 3.2.1 excluding nylon & nylon blends	100 percent filament nylon see 3.2.1.3
Cotton and/or rayon		Cotton and/or rayon	Cotton and/or rayon	Cotton and/or rayon
Cotton and/or rayon, or jute		Cotton and/or rayon, or jute	Cotton and/or rayon, or jute	Cotton and/or rayon, or jute
Cotton, jute or kraftcord		Cotton, jute or kraftcord	Cotton jute or kraftcord	Cotton, jute or kraftcord
8		6	8	6
32		80	80	80
Min 1.5 Max 3.5		Min 1.0 Max. 3.0	Min 1.5 Max. 3.5	Min. 1.0 Max. 3.0

TABLE IV *Physical requirements—type IV*

Class	1[1]	2	3		4		5	
Description	Multilevel loop	Multilevel loop	Single level cut pile		Single level loop		Cut and uncut	
Subclass			A	B	A	B	A	B
Tufts/sq in	35	38	35	35	46	60	32	38
Weight oz sq yd pile	21	28	27	35	33	42	26	36
Pile height	Min 0.125 Max 0.500	Min 0.125 Max 0.500	Min 0.300 Max 0.500	Min 0.400 Max 0.500	Min 0.250 Min 0.320	Min 0.250 Min 0.320	Min 0.125 Max 0.560	Min 0.125 Max 0.560
Pile height differential	Min 0.125	Min 0.125					Min 0.125	Min 0.125
Materials								
Pile	100 percent filament nylon See 3.2.1.3	See 3.2.1 excluding nylon & nylon blends	See 3.2.1		See 3.2.1 excluding nylon & nylon blends		See 3.2.1 excluding nylon & nylon blends	
Tufts bind (oz)	100	100	50		100		50	
Ply twist turns (per inch)		Min 2.5 Max 4.5	Min 2.0 Max 4.0		Min 2.5 Max 4.5		Min 2.0 Max 4.0	

[1] Class 1 carpet or rug may be manufactured with one ply yarn

TABLE V *Physical requirements—type V*

Class	1		2
Description	Single level loop		Multilevel loop
Subclass	A	B	
Tufts sq in	36	26	25
Weight oz/sq yd pile	28	37	25
Total	52	58	45
Pile height	Min 0.190 Max 0.250	Min 0.230 Max 0.290	Min 0.150 Max 0.370
Pile height differential			Min 0.150
Materials			
Pile	See 3.2.1 excluding nylon & nylon blends		See 3.2.1 excluding nylon & nylon blends
Chain	Cotton rayon or nylon		Cotton, rayon or nylon
Filling	Jute or kraftcord		Jute or kraftcord
Back coating oz sq yd	14	14	18
Tuft bind (oz)	32		32
Ply twist turns (per inch)	Min 1.5 Max 3.5		Min 2.0 Max 4.0

TABLE VI *Physical requirements—type VI*

Class	1	2
Description	Single level loop pile-attached rubber cushion	Single level loop pile twist
Tufts/sq in	42	54
Weight oz sq yd pile	25	33
Total	35	44
Pile height	Min 0.125 Max 0.200	Min 0.250 Max 0.300
Materials		
Pile	See 3.2.1 excluding nylon & nylon blends except for 20 percent nylon 80 percent wool blend	See 3.2.1 excluding nylon & nylon blends
Chain	Cotton and/or rayon	Cotton and/or rayon
Filling	Cotton and/or rayon	Jute
Back coating oz/sq yd	6	16
Tuft bind (oz)	50	100
Ply twist turns (per inch)	Min 2.0 Max 4.0	Min 6.5 Max 8.5

4. SAMPLING, INSPECTION, AND TEST PROCEDURES

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements

4.2 Inspection for acceptance Except where otherwise specified by civil agencies inspection shall be in accordance with provisions of MIL-STD-105, except where otherwise indicated

4.2 1 *Testing of components and materials* In addition to the quality assurance provisions of the subsidiary specifications and standards, testing shall be performed on the components and materials listed in table VII where applicable The sample size (number of sample units) shall be as specified in table VIII The lot shall be unacceptable if one or more sample units fail to meet any specified requirement The lot size shall be expressed in terms shown in table VII The sample unit for each component or material shall be as specified in table VII

TABLE VII *Component testing*

Component and lot size expressed in terms of	Characteristic	Requirement paragraph	Test method	Sample unit
Pile yarn (lbs)	Material identification	3 2 1	[1]	1/2 lb
	Ply	3 2 1	Visual	
	Denier	3 2 1 2	4021 of CCC-T-191	
		3.2 1 3		
		3.2 1 4, & 3 2 1 5		
	Turns per inch	Tables II thru VI	4054 of CCC-T-191	
	Wool content	3 2 1 1	2101	
	Chloroform sol material	3 2 1.2	2611	
		3 2 1.3		
		3 2 1 4		
		3 2 1 5		
Chain filling and stuffer yarns (lbs ea)	Material identification	Tables I, II, III, V & VI	[1]	1 /2 lb
Backing material (yds)	Material identification	3 2 3	[1]	1/2 yd
	Weight	3 2 3	5041 of CCC-T-191	
Backing reinforcement (yd)	Weight	3 2 4	5041 of CCC-T-191	1/2 yd
Back coating compound (pt)	Material identification	3 2 6	[1]	1/2 pt
Rubber cushioning				
Class 1 (4 lbs ea)	Material identification	3.2 5	[1]	1/2 lb.
Class 2 (sq yc)	Material identification	3 2 5	[1]	1 sq yd
	Thickness	3 2 5	4 5 6 2	
	Weight	3 2 5	4 5 7 2	
	Compressibility	3 2 5	4 5 8 2	
	Compression set	3 2 5	4.5 9.2	
Binding	Material identification	3 7.2 1	1200 of CCC-T-191	1 yd.
	Width	3 7.2 1	Visual	
	Total ends	3 7.2.1	5050 of CCC-T-191	
	Picks per inch	3 7.2.1	5050 of CCC-T-191	
	Weight (oz /lin yd.)	3 7.2.1[2]	5041 of CCC-T-191	

[1] Acceptance of these characteristics shall be based on a supplier's certificate of compliance
[2] Except that the weight shall be reported to the nearest 0 01 ounce

TABLE VIII *Sample size*

Lot size (units)	Sample size
800 or less	2
801 to 22,000	3
22 001 and over	5

4.2.2 *Examination of the end item* The carpets (or rugs) shall be examined to determine conformance with the requirements of this specification Defects found during this examination shall be classified in accordance with 4.2.2.1, 4.2.2.2, and 4.2.2.3

4.2.2.1 *Visual examination* The defects listed in table IX shall be counted regardless of their proximity to one another except where two or more defects represent a single local condition of the carpet or rug in which case only the more serious defect shall be counted Continuous defects shall be counted as one defect for each yard or fraction thereof in which they occur The sample unit for this examination shall be one square yard The AQL shall be 2.5 major and 6.5 total defects (major and minor combined) per 100 units (square yards) The sample size shall be based on inspection level II of MIL-STD-105 The lot size shall be expressed in units of one square yard When examination is made of full rolls not more than one fifth of the total sample square yardage shall be examined on any one roll. When the lot consists of less than 5 rolls an approximate equal number of square yards shall be examined on each roll to yield the sample yardage When examination is made of cut rugs the number of rugs selected shall be sufficient to yield the sample yardage Visual examination shall be made at a distance of approximately six feet

TABLE IX *Classification of defects*

Examine	Defects	Classification	
		Major	Minor
Finish and appearance	Spot or stain		X
	Not evenly constructed, affecting appearance		X
	Marks across carpet	X	
	Discolored areas affecting appearance (variations in color due to crushing of pile shall not be considered a defect)		X
	Any noticeable unevenness on top surface affecting appearance		X
	Any objectionable speck of color other than specified, visible on top surface of pile		X
	Any obviously objectionable streak lengthwise of weave	X	
Material and workmanship	Tufts missing in pile		X
	Any hole or tear through to back	X	
	Seams (when specified), —not properly sewed or taped	X	
	Binding —edges not bound (when required)	X	
	—poor color match		X
	Back-coating skips		X
	Backing reinforcement (when specified) imperfectly applied wrinkles, poor adherence		X
	Attached rubber cushioning (when specified in contract) imperfectly applied poor adherence		X

4 2 2 2 *Overall examination.* Each defect listed shall be counted not more than once in each unit examined The sample unit for this examination shall be one roll or rug The number of rolls or rugs examined for visual examination shall be the sample size for this examination The lot shall be unacceptable if one or more of the following defects are found

Defects

Overall uncleanness
Color of pattern other than specified
Rancid or otherwise objectionable odor
Type not as specified
Edges of rugs not finished as required

4 2 2 3 *Dimensions examination* Each defect listed below shall be counted not more than once in each unit examined The sample unit for this shall be one roll or rug The number of rolls or rugs examined for visual examination (4 2 2 1) shall be the sample size for this examination The lot shall be unacceptable if one or more of the following defects are found

Cut rugs—Width or length more than 1 percent less than specified
Rolls—Width—more than 1 percent less than specified
—Length—less than specified or more than 10 percent longer than specified—more than 1 yard less than indicated on piece ticket Total yardage in sample—total gross length of all pieces in sample less than the total gross lengths marked on piece tickets

4.3 Examination of preparation for delivery. An examination shall be made to determine that marking requirements of section 5 are complied with Defects shall be scored in accordance with the list below The sample unit shall be one shipping container fully prepared for delivery with the exception that it need not be sealed The inspection level shall be S-2 and the AQL shall be 4 0 defects per 100 units

Examine	Defect
Markings (exterior & interior)	Omitted, incorrect, illegible, of improper size, location, sequence or method of application

4 4 **Testing of the end item** The method of testing specified in CCC-T-191, wherever applicable, and as listed in table XI, shall be followed Unless otherwise indicated, the physical and chemical values specified in section 3, tables of physical requirements, apply to the average of the determinations made on a sample unit for test purposes as specified in the applicable test methods The sample unit for each type and class shall be as specified in table X The sample size (number of sample units) shall be as specified in table VIII The lot size shall be expressed in units of one square yard Except for the requirements for weight of the back coating and the weight and thickness of the class 1 rubber cushioning the lot shall be unacceptable if one or more sample units fail to meet any specified requirement For the weight of the back coating and the weight and thickness of the class 1 rubber cushioning, the lot shall be unacceptable if the lot average fails to meet the specified requirement

TABLE X *Sample unit for end item testing*[1]

Types and classes	Sample unit
Types I, II, IV, and V, all classes Type III classes, 1 2 and 3 Type VI, class 1 (class 2 cushioning) Type VI, class 2	One 12 by 12 inch sample before coating and a square yard sample of the finished item
Type III class 4	One square yard sample of the finished item
Type VI class 1 (class 1 cushioning)	One 12 by 12 inch sample before coating, one square yard sample after coating and one square yard sample of the finished item.

[1] For seamed carpets or rugs without attached rubber cushioning, a seamed sample sufficient for testing shall be included in the sample unit.

TABLE XI *End item testing*

Characteristic	Requirement references	Test method
Tufts per square inch	Tables I thru VI	4.5.1
Shots	Tables I thru III	Visual[3]
Weight of pile yarn	Tables I thru VI	4.5.2
Total weight	Tables I, II, III, V, & VI	5040 or 5041[2]
Pile height & tuft length	Tables I thru VI	4.5.3
Pile height differential	Tables II, III, IV, & V	4.5.3
Weight of back coating[4]	Tables I, II III, V & VI	4.5.4
Tuft bind	Tables I thru VI	ASTM D-1335-60T
Adherence of backing reinforcement	3.7.1.2.2	4.5.5
Attached rubber cushioning		
Thickness (class 1)[4]	3.2.5	4.5.6.1
Weight (class 1)[4]	3.2.5	4.5.7.1
Compressibility (class 1)	3.2.5	4.5.8.1
Compression set (class 1)	3.2.5	4.5.9.1
Adherence (classes 1 & 2)	3.2.5	4.5.10
Accelerated aging (classes 1 & 2)	3.2.5	4.5.11
Colorfastness to light	3.3.1	5660[5]
to wet method cleaning	3.3.1	4.5.12
Shrinkage	3.5	4.5.12
Moth repellency (insect resistance)	3.6	ASTM D-1116-55T
Seam strength	3.7.3	5100
Flame resistance . . .	3.9	4.5.13

[1] One determination shall be made on each sample unit and the result reported as "pass or fail"

[2] When method 5041 is used, one specimen with an area of at least 16 square inches shall be used

[3] In the event of a dispute resulting from the test with method 5660, or as a result of suspected anomalous behavior of certain dye types or formulations the contracting officer shall authorize the exposure to natural light in accordance with method 5662

[4] The test results for each of these characteristics shall be reported as the lot average

4.5 Tests

4.5.1 *Tufts per square inch* Tufts per square inch shall be determined by multiplying the pitch per inch of pile yarn ends by the rows of pile per inch Pitch and rows per inch shall be determined in accordance with ASTM D-418-42 Pitch is defined as the number of pile yarn ends per inch of width of the fabric Rows is defined as the number of rows of tufts per inch of length (also referred to as the number of pile wires per inch for woven fabrics or stitches per inch for tufted)

4.5.2 *Weight of pile yarn* The pile yarn shall be separated from other yarns on a sample containing 16 sq inches To express weight of pile yarn per carpet or rug (36" by 36"), the weight of the pile shall be calculated as follows Weight of pile yarn (ounces) in 16 square inch sample X 81.0 = weight of pile yarn in ounces per square yard of carpet or rug

4.5.3 *Pile height and tuft length and pile height differential* For single level pile fabrics pile height or tuft length shall be determined by the following methods

(a) Woven carpet—ASTM D-418-42

(b) Tufted and knitted carpet—ASTM D-1486-57T

For multilevel or profile wire carpet, use the following method A metal rule graduated in 1/100 inch approximately 3/4 inch wide and 0.040 inch thick shall be inserted between the lengthwise pile rows parallel thereto, and the height of pile in the high pile areas measured five times and the height of the pile in the low pile areas measured five times The areas measured shall

be selected so that lines drawn parallel to and perpendicular to the edge of the sample through the points of measurement shall be at least 2 inches apart The average of the five measurements in the high pile area shall be the high pile height and the average of the five measurements in the low pile area shall be the low pile height The difference between the high pile height and the low pile height shall be the differential pile height

4 5 4 *Weight of back coating* The weight of the carpet or rug after back coating shall be determined in accordance with method 5040 or 5041 of CCC-T-191 When method 5041 is used, one specimen with an area of at least 16 sq inches shall be used The results of this test shall be reported as the lot average The individual sample unit results obtained for the total weight characteristic (exclusive of back coating) shall be averaged and this result substracted from the lot average weight after back coating Tne difference obtained shall be the lot average weight of the back coating and shall be reported to the nearest ounce

4 5 5 *Adherence of backing reinforcement* The adherence of backing reinforcement shall be determined in accordance with method 5100 of CCC-T-191 except as noted below Cut finished samples with backing reinforcement applied, 2 inches wide in width direction by 6 inches long in length direction Strip the backing reinforcement from the test specimen for approximately 1-1 '2 inches at one of the 2 inch wide ends Set jaws 1 inch apart, clamp the loose end of the backing reinforcement in the lower jaw and the loose end of the carpet in the upper jaw Start tester and record the average load required to strip the backing reinforcement Make three tests average results, and divide by two to secure the pounds strip per inch of width The average shall be reported to the nearest 0 1 pound

4 5 6 *Thickness of rubber cushioning*

4 5 6.1 *Class* 1 *rubber cushioning* The specimen shall be one square yard of the finished item (with cushioning) The thickness between the two plane surfaces of the specimen shall be determined under a pressure of 0 100 pounds per square inch (p.s i.) (= 0 001 p s i) distributed over a circular area 3 00 inches = 0 01 inch (7 5 =) in diameter Apply pressure slowly to avoid impact and protect the specimen from vibration during the test Five readings shall be taken on the specimen and the average computed to the nearest 0.001 inch (millimeter) The results from the sample units in the sample size shall be averaged and computed to the nearest 0.001 inch (millimeter) This is the lot average thickness of the finished item A one square yard specimen of the carpet before application of cushioning shall be tested for thickness as specified above The results from the sample units in the sample size shall be averaged and computed to the nearest 0 001 inch (millimeter) This is the lot average thickness of the carpets before application of the cushioning The difference between the thickness before application of the cushioning and the thickness of the finished item shall be the average thickness of the rubber cushioning

4.5 6 2 *Class 2 rubber cushioning* The specimen shall be one square yard of the class 2 rubber cushioning The thickness shall be determined as specified in 4 5 6 1 and the results from each sample unit reported separately

4 5.7 *Weight of the rubber cushioning*

4.5 7 1 *Class* 1 *rubber cushioning* The specimen shall be one square yard of the finished item (with cushioning) The specimen shall be conditioned for a minimum of 4 hours under standard conditions of 70°F (= 2°F) and 65 percent (= 2 percent) relative humidity for testing The specimen shall be weighed to the nearest 0 01 pound per sq yard The results from the sample units in the sample size shall be averaged and computed to the nearest 0 01 pound per square yard This is the lot average

weight of the finished item A one square yard specimen of the carpet, before application of the cushioning, shall be tested for weight as specified above The results from the sample units in the sample size shall be averaged and computed to the nearest 0 01 pounds per square yard This is the lot average weight of the carpet before application of the cushioning The difference between the weight before application of the cushioning and the weight of the finished item shall be the lot average weight of the cushioning and shall be reported to the nearest 0 01 p s y

4 5 7.2 *Class 2 rubber cushioning* Specimen shall be one square yard of the class 2 rubber cushioning The weight shall be determined as specified in 4 5 7 1 and the results from each sample unit reported separately to the nearest 0 01 pound per sq yd

4 5 8 *Compressibility*

4.5 8 1 *Class 1 rubber cushioning* The specimen shall be a one-inch (2 5 cm) square sample, the thickness of the rubber cushioning, secured by dissecting the carpet materials using care to minimize the removal of rubber with the embedded carpet material The specimen shall be compressed to 75 percent of its original thickness Thickness shall be measured with a gauge having a circular foot one square inch (6 5 square centimeters) area under a load of 100 grams (g) (0 220 lbs) The number pounds required to compress the sample shall be the compressibility and shall be reported to the nearest pound

4 5 8 2 *Class 2 rubber cushioning* The compressibility of the class 2 cushioning shall be determined as specified in 4 5 8 1 except that the specimen shall be a one-inch (2 5 cm) square sample cut from full thickness of cushioning material before adhering to the carpet

4 5 9 *Compression set*

4 5 9 1 *Class 1 rubber cushioning* The specimen shall be a 2 by 2 inch square, the thickness of the rubber cushioning, secured in accordance with 4 5 8 1 The specimen shall be compressed 50 percent of its original thickness between two parallel plates The thickness shall be measured in accordance with 4 5 8 1 The sample compressed shall be placed in a Geer oven at 158°F (± 2°F) for 22 hours (± 1/2 hour) At the end of the specified time, the sample shall be removed from the plates and allowed to rest at room temperature for 30 minutes The thickness measurement shall be taken and substracted from the original thickness The loss in thickness shall be expressed as a percentage of the original thickness and reported to the nearest percent

4 5.9 2 *Class 2 rubber cushioning* The compression set of the class 2 cushioning shall be determined as specified in 4 5 9 1 except that the specimen shall be a 2 by 2 inch sample cut from the full thickness of cushioning material before adhering to the carpet

4 5 10 *Adherence*

4 5 10 1 *Class 1 rubber cushioning* A specimen of the finished carpet with rubber cushioning attached shall be subjected to accelerated aging by exposure in a circulating air oven for 96 hours at a temperature of 90 F (± 2 F) After removal of the sample from the oven and allowing it to cool to room temperature grasp the base carpet with the fingers of one hand and the thickness of the rubber cushioning with the fingers of the other hand and pull firmly in opposite directions The cushioning should tear before pulling free from the carpet

4 5 10 2 *Class 2 rubber cushioning* The adherence (strip length) of the class 2 rubber cushioning shall be determined in accordance with 4 5 5

4 5 11 *Accelerated aging test* A piece of the rubber cushioning shall be placed in an oxygen bomb (not more than 1 ounce of rubber per 170 cubic inches of oxygen) at a

temperature of 158°F and a pressure of 300 pounds (± 10 pounds) per square inch for a period of 7 days Upon removal, sample should not be sticky and should not crack when bent back upon itself

4 5 12 *Shrinkage and colorfastness test* A 12 by 12 inch sample of the specified carpet shall be conditioned under standard conditions as defined in CCC-T-191 for a period of 24 hours Specimen shall then be marked and measured at three different locations in the length and width directions, immerse sample in 110°F water for 15 minutes mix 2 g of sodium alkylsulfate type of detergent with 50 g of water at 110°F and apply to pile surface of carpet Scrub sample with a soft bristle brush by stroking back and forth 20 times (10 times in each unilateral direction), and in both length and width directions, rinse well to remove majority of detergent squeeze and dry at 125°F until bone dry, again condition under standard conditions for 24 hours

4 5 12 1 *Shrinkage evaluation* The specimen shall be remeasured and the shrinkage computed using the following formula

$$\text{Shrinkage} = \frac{A - B}{A} \times 100$$ where A = Average of initial measurement and B = Average measurements after shampooing The shrinkage in both the length and width directions shall be reported to the nearest 0 percent

4 5 12 2 *Colorfastness evaluation* Colorfastness evaluation shall be conducted in accordance with method 5610 of CCC-T-191

4 5 13 *Flame resistance* This method covers the procedure for measuring flammability The test shall be carried out in a suitable sized chamber or box which is open at the top to provide adequate ventilation and which, at the same time protects the specimen and the ignition flame from drafts The box should be 12 inches by 12 inches by 9 inches The ignition media shall be Methenamine Timed Burning Tablet (Eli Lilly # 1588) The measuring device shall be a scale graduated in inches and tenths of inches Two test specimens, each 6 inches square, shall be cut from the fabric to be tested The test shall be done using 30 percent relative humidity This condition is to be arrived at by using a small laboratory drying oven in conjunction with the standard conditioned testing room From the psychrometric chart, it can be determined that air at 70°F and 65 percent relative humidity of 30 percent when heated to 94°F Set the oven controls to maintain this latter temperature, place the samples in the oven and allow them to come to equilibrium Without disturbing the configuration of the pile, the sample shall then be laid out in the test chamber smoothly, horizontally and without tension A burning tablet shall then be placed firmly in the center of the sample and ignited by touching a match carefully to the edge of the table so as not to contact the surface of the fabric The ignition flame and any propagated flame shall be allowed to burn to completion The longest diameter of the charred area shall be measured to the nearest tenth of an inch

4 5 14 *Color matching test.* A test specimen at least 8 inches square shall be mounted at an angle of 45° to the horizontal and compared with the standard sample, or the approved color sample furnished by the contracting officer, similarly mounted under the light conditions specified in 3 3 When an artificial light source is used it shall be placed so that its rays strike the sample normal to its surface The viewing distance shall be 18 to 24 inches

5 PREPARATION FOR DELIVERY

For civil agency procurement, the definitions and application of levels of packaging and packing shall be in accordance with Fed Std No 102

5.1 Packaging. Packaging shall be level A or C, as specified (see 6.2)

5 1 1 *Level A* Carpets or rugs, singly or in multiples, shall be tightly rolled Carpets or rugs six feet or more in width shall be

rolled open-width on a convolute or spiral wound chipboard tube, or a pole The tube shall have a minimum wall thickness of 0 25-inch with a minimum inside diameter of 2 inches For rolls weighing 200 pounds or more, regardless of width the tube shall have a minimum wall thickness of 0 375-inch with a minimum inside diameter of 3 inches The ends of the tube or pole shall be flush with or extend not more than one inch beyond each end of the maximum width of the rolled carpet or rug Carpets or rugs shall be secured from unwinding with cotton tape or twine placed approximately one-sixth of the width from each end Rolls wider than 36 inches shall have an additional fastening placed at the center of the roll Rolled and tied carpets or rugs shall be completely wrapped with 60-pound minimum basis weight kraft paper conforming to grade B of UU-P-268 All seams and folds of the paper wrap shall be securely sealed with 2-1 2 inch minimum width gummed paper tape conforming to class 2 of UU-T-111

5 1 2 *Level C* Carpets or rugs shall be packaged in accordance with the industry's practice

5 2 **Packing** Packing shall be level A B or C, as specified (see 6 2)

5 2 1 *Level A* Rolled carpets or rugs of one size type class subclass pattern and color only, packaged as specified in 5 1 shall be packed in a snug-fitting shipping container conforming to type CF class weather-resistant Voc style FOL of PPP-B-636, style A or B, class 2 of PPP-B-[illegible] class II of PPP-B-591, overseas type of PPP-B-601, class 2 style 2 or 4 of PPP-B-62[illegible] or class 2 grade A style A B or C of PPP-B-640 with style 3 or 4 ends Each shipping container shall be [illegible] type I grade C case liner conforming to MIL-L-10547 Each shipping container shall be closed and reinforced with flat steel strapping or tape banding in accordance with the appendix of the applicable container specification The weight of the contents of each double-faced fiberboard shipping container shall not exceed 65 pounds, nor shall the weight of the contents of each of the other shipping containers exceed 200 pounds, except when an individual roll exceeds this weight When this occurs the gross weight of the triplewall fiberboard shipping container shall not exceed 350 pounds When specified (see 6 2), individual rolls of carpets or rugs shall be inserted in snug-fitting laminated textile shipping bags conforming to type III, class 2, No P-14, style B of PPP-B-35 with waterproof sewn seams Cloth covered rolls shall have each open end closed with two double looped wire ties The wire ties shall be not less than 6 inches long of 0 072-inch thick galvanized soft iron or steel wire with a 1 2-inch diameter formed eye at each end The first wire tie shall be applied as close to the roll as possible The second wire tie shall be applied at a distance approximately 1 inch from the first wire tie The twisted ends of the wire ties shall alternate and face in opposite directions

5 2 2 *Level B* Rolled carpets or rugs of one size type class, subclass pattern and color only packaged as specified in 5 1 shall be packed in a snug-fitting shipping container conforming to type CF, class domestic style FOL of PPP-B-636, style A or B class [illegible] of PPP-B-576, class 1 style A or [illegible] PPP-B-591 domestic type style A or [illegible] PPP-B-601 class 1 style 2 or 4 of PPP-B-621, or class 1 grade A style A B or [illegible] of PPP-B-640, with style 3 or 4 ends Where specified (see 6 2), each shipping container shall be provided with a type I, grade C case liner conforming to MIL-L-10547 The minimum bursting strength of the double-faced fiberboard shall be 275 p s i Each shipping container shall be closed in accordance with the appendix of the applicable container specification The weight of the contents of each double-faced fiberboard shipping container shall not exceed the specification weight limitation, nor shall the weight of the contents of each of the other shipping containers exceed 200

pounds except when an individual roll exceeds this weight When this occurs, the gross weight of the triplewall fiberboard shipping container shall not exceed 350 pounds Alternatively, individual rolls of carpets or rugs shall be inserted in snug-fitting laminated textile shipping bags conforming to type III class 1, No P-5, style A or B of PPP-B-35 Cloth covered rolls have each open end closed with two double-looped wire ties The wire shall be not less than 6 inches long of 0 072-inch thick galvanized soft iron or steel wire with a 1/2-inch diameter formed eye at each end The first wire tie shall be applied as close to the roll as possible The second wire tie shall be applied at a distance approximately 1 inch from the first wire tie The twisted ends of the wire ties shall alternate and face in opposite directions

5 2 3 *Level C* Carpets or rugs, packaged as specified in 5 1 shall be packed in a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rate for such supplies Containers shall be in accordance with rules or regulations of carriers applicable to the mode of transportation

5.3 **Marking.**

5 3 1 *Civil agencies* In addition to any special markings required by the contract or order shipments shall be marked in accordance with Fed Std No 123

5 3 2 *Military requirements* In addition to any special marking required by the contract or order shipments shall be marked in accordance with MIL-STD-129

6 NOTES

6.1 **Intended use** As a guide in the selection of the quality of carpeting to be used in the various areas of use, the following suggestions are offered It should be kept in mind that each installation must be judged carefully as to the peculiar traffic conditions expected In some areas, it might be advisable to use a heavier, better grade due to the peculiar wear factors in these situations As a basis for estimating probable carpet performance in use the levels of traffic experienced can be broken down as follows

Light—Bedrooms, dressing rooms, some dining rooms in private homes

Medium—Living and dining rooms in private homes, private offices, motel and hotel bedrooms

Heavy—Commercial type installations in office buildings, public rooms, hotel lobbies, stairways and stores

Carpet having wool, acrylic, or modacrylic pile yarn in the range of approximately 20 ounces per square yard or more should be satisfactory for light traffic Fabrics of 25 ounces per square yard or more of pile yarn should be satisfactory for medium traffic areas Those having 36 ounces per square yard or more of pile yarn should be satisfactory for heavy traffic Carpet having 100 percent nylon pile yarn in weights of 20 ounces per square yard or more should be satisfactory for medium traffic Those having 28 ounces per square yard or more should be satisfactory for heavy traffic

6.2 Purchasers should exercise any desired options offered herein and procurement documents should specify the following

(*a*) Title, number, and date of this specification

(*b*) Type, class subclass and pile fiber required (see 1.2 1 and 3 2 1)

(*c*) When bid samples are not required (see 3 1 2)

(*d*) Ply of yarn when necessary (see 3.2 1)

(*e*) Color required (see 3 3)

(*f*) When rubber cushion is required for other than type VI class 1 carpets or rugs (see 3 7 1 4 1)

(*g*) Edge treatment for type II classes 3, 5, and 6 when other than specified (see 3 7 2)

(*h*) When carpet or rug required is for wall-to-wall installation (see 3 7.2)

(i) Length, width, and pattern of carpets or rugs (see 3.8).
(j) Selection of applicable levels of packaging and packing (see 5 1 and 5 2)
(k) Whether carpets or rugs shall be inserted in laminated textile shipping bags for level A shipment (see 5 2 1)
(l) Whether a case liner is required for containers (see 5 2 2)

6 3 **Standard sample.** For access to the standard sample, address the procuring office issuing the invitation for bids

6.4 **Supersession data.** This specification supersedes the following

Int Fed Spec DDD-C-0051b dated May 9, 1960
Fed Spec DDD-C-51a dated March 27 1942
Int Fed Spec DDD-C-0058 dated January 22, 1964
Fed Spec DDD-C-61c dated August 3, 1956
Int Fed Spec DDD-C-0071b dated May 5, 1960
Fed Spec DDD-C-71a dated July 3, 1934
Fed Spec DDD-C-80a dated March 31 1960
Int Fed Spec DDD-C-0085 dated July 21, 1958

6.5 **Tufts per square inch** The term "tufts per square inch" is used in the tables of physical requirements in lieu of other designations of construction, such as "pitch per inch" and "rows per inch", in order to allow for variations in these factors of pitch and rows between individual company fabrics offered to meet bid requirements The use of this designation for construction elements should result in broader industry-wide participation, more competitive bidding, greater style selectivity, and increased flexibility in procurement A tuft is to be considered a cut loop or two fibril or filament clusters of one pile yarn

CUSTODIANS:

Army—GL
Navy—YD
Air Force—69

Interested activities

Review

Army—MD
Navy—YD

Preparing activity

Army—GL

Reviewer information is current as of the date of this document For future coordination of changes to this document draft circulation should be based on the information in the current Federal Supply Classification Listing Of DOD Standardization Documents

SPECIFICATION ANALYSIS SHEET

Form Approved
Budget Bureau No 119 R004

INSTRUCTIONS

This sheet is to be filled out by personnel either Government or contractor involved in the use of the specification in procurement of products for ultimate use by the Department of Defense This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost Comments and the return of this form will be appreciated Fold on lines on reverse side staple in corner and send to preparing activity (as indicated on reverse hereof)

SPECIFICATION

ORGANIZATION (Of submitter) | CITY AND STATE

CONTRACT NO | QUANTITY OF ITEMS PROCURED | DOLLAR AMOUNT $

MATERIAL PROCURED UNDER A

☐ DIRECT GOVERNMENT CONTRACT ☐ SUBCONTRACT

1 HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?

A GIVE PARAGRAPH NUMBER AND WORDING

B RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

2 COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID

3 IS THE SPECIFICATION RESTRICTIVE

☐ YES ☐ NO IF "YES", IN WHAT WAY?

4 REMARKS (Attach any pertinent data which may be of use in improving this specification If there are additional papers attach to form and place both in an envelope addressed to preparing activity)

SUBMITTED BY (Printed or typed name and activity) | DATE

DD FORM 1 APR 64 1426 REPLACES NAVSHIPS FORM 4863 WHICH IS OBSOLETE C-8279

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