DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	USE OF MATERIALS BULLETIN NO 72a
ASSISTANT SECRETARY FOR HOUSING FEDERAL HOUSING COMMISSIONER TO:DIRECTORS, HOUSING DEVELOPMENT DIVISION	Date Issued: August 15, 1993
SUBJECT: HUD BUILDING PRODUCT STANDARDS AND CERTIFICATION PROGRAM FOR CARPET CUSHION	

Members of the HUD staff processing cases and inspecting construction, shall use this information in determining acceptability of the subject products for the use indicated.

This bulletin should be filed with bulletins on Special Methods of Construction and Materials as required by prescribed procedures. Additional copies may be requisitioned by the Field Offices.

Subject to good workmanship, compliance with applicable codes, and the methods of application listed herein, the products described in this bulletin may be considered suitable for HUD housing programs, including Housing for the Elderly and Care-Type Housing.

The eligibility of a property under these programs is determined on the property as an entity and involves the consideration of underwriting and other factors not indicated herein. Thus, compliance with this bulletin should not be construed as qualifying the property as a whole, or any part thereof, as to its eligibility.

The method of application for the products listed herein are considered a part of the HUD Minimum Property Standards and shall remain effective until this bulletin is cancelled or superseded.

HUD BUILDING PRODUCT STANDARDS AND CERTIFICATION PROGRAM
FOR CARPET CUSHION

GENERAL - ADMINISTRATIVE AND PROCEDURES:

This certification program shall be administered by organizations that qualify under the Administrator Qualifications and Procedures of the HUD Building Product Standards and Certification Program, described in 24 CFR 200.935, except as modified by the provisions of this Use of Materials Bulletin No. 72a. Copies of these Administrator Qualifications and Procedures for the HUD Building Products Standards and Certification Program may be obtained from:

Department of Housing & Urban Development
Office of Manufactured Housing & Regulatory Functions
451 Seventh Street, SW, Attention Mail Room B-133
Washington, DC 20410

The procedures for carrying out the certification program for carpet cushion shall be in accordance with 24 CFR Section 200.935 and with Section 200.948 which supplements 200.935 by providing that:

1. The certification label containing the Administrator's mark shall be permanently affixed on the product.

2. The following additional information shall be on the certification label(every 10 linear feet):

   (a) The manufacturer's name.

   (b) The manufacturer's statement of conformance to UM 72a and type and class.

3. At least every six months, the Administrator shall visit the manufacturer's facility to select a sample of each certified carpet cushion for testing by a laboratory accredited by the National Voluntary Laboratory Accredited Program (NVLAP) of the U.S. Department of Commerce.

   The Administrator also shall review the quality assurance procedures every six months to assure that they are being followed by the manufacturer.

STANDARDS:

All carpet cushion shall be tested, in conformance with the requirements in Table 1. The maximum thickness of each class commercially available, shall be tested.

TABLE 1 REQUIREMENTS FOR CARPET CUSHION

Type	Characteristics	Class 1	Class 2	Test Method
A. Prime	density lbs./cu. ft. -5%	2.2		ASTM D 3574-91
	thickness in. -5%	0.37	not	
	comp. set max. % at 50% def.	15.0	rec. for	
	tensile strength lbs. min.	10.0	Class 2	
	elongation % min.	100.0		
	CFD psi. at 65% def. min.	0.7		
B. Grafted Prime	density lbs./cu. ft. -5%	2.7	2.7	ASTM D 3574-91
	thickness, in. -5%	0.37	0.25	
	comp. set max . % at 50% def.	15.0	15.0	
	tensile strength, lbs. min.	10.0	10.0	
	elongation, % min.	100.0	100.0	increase ∝ to
	CFD psi. at 65% def. min.	1.4	1.4	density
	IFD psi. max. 5%	120.0	120.0	
C. Densified Prime	elongation % min.	100.0	100.0	ASTM D 3574-91
	density lbs/cu. ft. -5%	2.2	2.7	
	thickness in - 5%	0.31	0.25	
	comp. set max. % at 50 % def.	15.0	15.0	
	tensile strength lbs. min.	10.0	10.0	
	(CFD) psi. at 65% def. min.	0.7	1.30	
D. Bonded	density lbs./cu. ft. -5%	5.0	6.5	ASTM D 3574-91
	thickness in. -5%	0.37	0.375	
	comp. set max. % at 50% def.	15.0	15.0	8 lbs/cu.ft is
	tensile strength lbs. min.	5.0	6.0	acceptable
	elongation % min.	45.0	45.0	
	particle size in max.	0.5	0.5	
	debis max. %	1.0	1.0	
	(CFD) psi. at 65% def.	4.0	4.5	
E. Mechanically Frothed	elongation % min.	45.0	45.0	ASTM D 3676-89
	density lbs./cu. ft. -5%	10.0	12.0	
	thickness in. -5%	0.25	0.25	
	comp. set max. at 50% def.	15.0	15.0	
	ash content, max.	50.0	50.0	ASTM D 297-90
	comp. res. psi. at 25% def. min.	2.5	4.0	
F. Rubberized Hair	weight, oz./sq. yd. -5%	40.0	50.0	ASTM D 3676-89
	thickness in. -5%	0.27	0.37	
	density lbs./cu. ft. -5%	12.3	11.1	
	comp. set max. % at 24% def.	15.0	15.0	ASTM D 1667-90
	tensile strength, lbs. min.	30.0	30.0	ASTM D 2646-87
	min. fiber by weight %	85.0	85.0	ASTM D 629-88
G. Rubberized Jute	weight, oz/sq. yd. -5%	32.0	40.0	ASTM D 3676-89
	thickness, in. -5%	0.31	0.37	
	density, lbs/cu. ft.-5%	8.5	8.9	
	comp. set max. %	20.0	20.0	ASTM D 1667-90
	tensile strength lbs. min.	30.0	30.0	ASTM D 2646-87
	min. fiber by weight %	85.0	85.0	ASTM D 629-88
H. Synthetic Fibers	weight, oz/sq. yd. -5%	22.0	28.0	ASTM D 3676-89
	thickness, in. -5%	0.25	0.30	
	density, lbs/cu. ft. -5%	6.5	6.5	
	comp. set max. %	20.0	20.0	ASTM D 1667-90
	tensile strength, lbs. min.	30.0	30.0	ASTM D 2646-87
	cellulosic % max.	5.0	5.0	ASTM D 629-88
	min. fiber by weight %	85.0	85.0	
I. Resinated Recycled Textile Fibers	weight, oz/sq. yd. -5%	24.0	30.0	ASTM D 3676-89
	thickness in. -5%	0.25	0.30	
	density, lbs/cu. ft. -5%	7.3	7.3	
	comp. set max. % at 50% def.	20.0	20.0	ASTM D 1667-90
	tensile strength lbs. min.	30.0	30.0	ASTM D 2646-87
	min. fiber %	85.0	85.0	ASTM D 629-88
	max. cotton fiber %	10.0	10.0	
	resin solids no fillers %	100.0	100.0	
J. Flat Rubber	weight oz/sq. yd. -5%	56.0	64.0	ASTM D 3676-89
	density lbs/cu. ft. -5%	18.0	21.0	ASTM D 3676-89
	thickness in. -5%	0.22	0.22	ASTM D 3676-89
	comp. set max. % at 50% def.	15.0	15.0	ASTM D 2646-87
	tensile strength lbs. min.	8.0	8.0	ASTM D 3676-89
	CFD psi. at 45% def. min.	0.25	1.0	
K. Rippled Rubber	weight oz./sq. yd. -5%	48.0	64.0	ASTM D 3676-89
	density, lbs./cu. ft. -5%	14.0	16.0	ASTM D 3676-89
	thickness, in. -5%	0.28	0.33	ASTM D 3676-89
	comp. set max. % at 50% def.	20.0	20.0	ASTM D 3676-89
	tensile strength, lbs. min.	8.0	8.0	ASTM D 2646-87
	comp. res., psi. at 25% def. min.	0.5	0.8	ASTM D 3676-89

Note: The maximum thickness for cushion is 0.5 inches. Class 1 is used for light and moderate traffic such as living, dining, bed and recreational rooms. Class 2 is used for multifamily facilities, lobbied, corridors, and all stair applications.

INSTALLATION:

The installation of carpet cushion shall be in accordance with the manufacturer's installation instructions.

ADMINISTRATORS:

Qualified organizations interested in becoming Administrators under the HUD Building Product Standards and Certification Program for Carpet Cushion shall submit their request to HUD Headquarters, Office of Manufactured Housing & Regulatory Functions, 451 7th Street, SW, Attention Mail Room B-133, Washington DC 20410.

HUD Field Offices will maintain a file of all directories furnished by the Administrators and accept only products listed in the directories. The following Administrators have been accepted by HUD as qualified to validate carpet cushion under Use of Materials Bulletin No. 72a.

MEA Certification, Inc.
600 Rouze Way, Suite C1
Roswell, GA 30076

Associated Laboratories, Inc.
P. O. Box 15705
Dallas, TX 75215

ETL, Inc.
Route 11, Industrial Park
Cortland, NY 13045