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.

The technical description, requirements and limitations expressed herein do not constitute an endorsement, approval or acceptance by the Department of Housing and Urban Development (HUD/FHA) of the subject matter, and any statement or representation, however made, indicating approval or endorsement by the Department of Housing and Urban Development is unauthorized and false, and will be considered a violation of the United States Criminal Code 18, U.S.C. 709.

Any reproduction of this Bulletin must be in its entirety and any use in sales promotion or advertising is not authorized.

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considered a part of the HUD Minimum Property Standards and shall remain effective until this bulletin is canceled or superseded.
HUD BUILDING PRODUCT STANDARDS AND CERTIFICATION PROGRAM
FOR CARPET

ADMINISTRATION AND PROCEDURES:

This certification program shall be administered by organizations
that qualify under the Administrator Qualifications and Procedures
FOR HUD Building Product Certification Programs, 24 CFR 200.935,
except as modified by the provisions of this Use of Materials
Bulletin (UM).

Procedures for carrying out the certification program shall be in
accordance with 24 CFR 200.935, as supplemented by Section
200.944 which provides that:

1. The Administrator shall issue to the manufacturer a
label, stamp, or mark containing the Administrator’s
validation mark, manufacturer’s statement of conformance
to UM 44d, and manufacturer’s name or code identifying
the plant location.

2. The certification label, stamp, or mark shall be
applied to each carpet at least every six feet, not
less than one foot from the edge.

3. Every six (6) months, three (3) samples and 1 annual
field sample of carpet shall be submitted to the
Administrator for testing in a laboratory accredited by
the National Voluntary Laboratory Accreditation Program
(NVLAP) of the U. S. Department of Commerce.

4. The Administrator also shall review the quality assurance
procedures every six (6) months to assure that they are
being followed by the manufacturer.

This standard applies to pile yarn floor covering materials
designated as first quality, tufted, woven, bonded or knitted
carpet, free from objectionable visual blemishes and physical
defects. The standards includes the backing material, secondary,
unitary, attached cushion (foam-backed), fibers used in the pile
and extended into the backing, structure of the yarns, and weight
and density of the yarn material. Minimum requirements and test
methods required for carpet products to be acceptable under HUD
programs are contained in the Bulletin.
GENERAL:

This Bulletin is written with the assumption that the property owner follows an adequate carpet maintenance schedule since manufacturers stress that their guarantees are valid only if this is done. The manufacturer's recommended maintenance program shall be supplied to the occupant of each unit through the builder at settlement or at the time of occupancy.

Carpet shall be of good service quality and free of fiber adulterants, and shall show no obvious deficiencies or objectionable streaks, poorly dyed areas or other manufacturing defects resulting from poor quality control. It shall exhibit adequate resiliency, abrasion resistance, appearance, pattern, and texture retention. The use of fluorochemical or equivalent soil and stain repellent treatments is permitted.

TYPES AND CLASSES OF CARPET:

**Type I - Single Family and Multi-Family Dwelling Units**

*Class 1.* For moderate traffic use. Not all textures are recommended for stairs.

*Class 2.* For heavy traffic use at all levels.

**Type II - Housing for Elderly and Care-Type Housing**

*Class 1.* For moderate traffic use.

*Class 2.* For heavy traffic use at all levels but specifically for public areas such as lobbies and corridors. Carpet installed in corridors and exit ways outside of living units is restricted to single level pile.

TEXTURES:

*Texture A - Level or Textured Loop:* Level uncut pile with a height differential of not more than 1/16".

*Texture B - Multi-Level:* Two or more levels of pile with pile height differential greater that 1/16", either cut and/or uncut.

*Texture C - Plush:* Level cut pile, made from non-heatset yarns.

*Texture D - Twist:* Cut pile, made from hard twist heat set yarns.

*Texture E - Level Cut and Loop:* Level pile, cut and uncut, made from heatset and/or non-heatset yarns.
Texture F - Cut Pile Heatset - Piled: Single level or multilevel
cut or cut-and-loop pile, made from
balanced heatset and plied yarns.

Texture G - Cut Pile Heatset - Singles: Single level cut pile,
made from heatset single yarn.

USE AND INSTALLATION:

This Bulletin covers the use of wall-to-wall carpet and carpet with
attached cushion for interior application in multifamily, one- and
two-family, housing for the elderly, and nursing homes. Carpet
shall be installed by experienced and qualified installers
following acceptable carpet laying techniques, and the following
requirements:

1. Installation shall comply with the manufacturer’s
   instruction, or the minimum requirements of the Carpet
   Reference Guide for Installation of Residential Textile
   Floor Covering Materials.” If installation is over
   existing floors or those in need of renovating, the
   same verification of acceptable moisture, tolerances
   and evenness as for new construction is required.
   Patching of substrates shall be done in accordance with
   the patching material manufacturer.

2. Various medical and care-type facilities may require
   that carpet be installed by direct gluedown method
   without intervening cushion. Installation in such
   cases shall conform to the carpet manufacturer’s
   printed instructions or CRI-105, and cracks and
   depressions shall be filled by recommended procedures.
   Cracks, depressions, and ridges shall not be excessive
   prior to patching.

3. Carpet installed by the “stretched-in” method shall use
tackless strips over detached carpet with attached
   cushion acceptable to HUD. Foam-back and unitary back
   carpet shall be installed by gluedown methods or other
   techniques recommended by the manufacturer. Installer
   agrees that within one year, if restretching is
   required by HUD, it shall be done in a professional
   manner and at no expense to the owner of the premises.

*Copies are available from: Carpet and Rug Institute,
P. O. Box 2048, Dalton, GA 30720
4. Carpet shall not be used as a finish flooring material in kitchens, bathrooms, laundry rooms, or other similar service areas.

5. New carpet installations shall have provisions for adequate air ventilation during and after the installation to help eliminate the existence of any odors opening windows and doors utilizing exhaust fans or operating ventilation systems are recommended.

REQUIREMENTS AND TEST METHODS FOR CARPET:

Carpet and carpet with attached cushion shall be tested in accordance with Table 1, 4 and 5 "Minimum Carpet Requirements and Test Methods." Tests or determinations are not required for all colors unless it appears that such colors or dyeing techniques could unfavorably change the values so obtained or unless the color itself is involved in test procedure.

The pile weights and densities for each of the above yarns for each texture of carpet are shown in Tables 2 and 3. The values are expressed as minimum, therefore, no minimum tolerances are allowed.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value, Minimum</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pile Weight (oz/yd²)</td>
<td>Tables 2 &amp; 3</td>
<td>ASTM D 418-92¹</td>
</tr>
<tr>
<td>Density (oz/yd²)</td>
<td>Tables 2 &amp; 3</td>
<td>N/A</td>
</tr>
<tr>
<td>Tuft Bond (lbf)</td>
<td>6.2 for loop</td>
<td>ASTM D 1335-67¹</td>
</tr>
<tr>
<td></td>
<td>6.2 for cut &amp; loop (loop only)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.0 for cut pile</td>
<td></td>
</tr>
<tr>
<td>Dry Breaking Strength (Finished Carpet)</td>
<td>100</td>
<td>ASTM D 2646-87¹</td>
</tr>
<tr>
<td>Delamination Strength of secondary backing (lbf/in)</td>
<td>2.5</td>
<td>ASTM D 3936-80¹</td>
</tr>
<tr>
<td>Colorfastness to light (xenon arc) (Gray Scale rating)</td>
<td>4 (after 40 AATCC fading units)</td>
<td>AATCC 16E-82²</td>
</tr>
<tr>
<td>Crocking (Color Transference Chart)</td>
<td>4</td>
<td>AATCC 165-86</td>
</tr>
</tbody>
</table>

¹Copies are available from American Society for Testing & Material (ASTM) 1916 Race St. Philadelphia, PA 19103
²Copies are available from American Association of Textile Chemist & Colorists (AATCC) P. O. Box 12215, Research Triangle Park, NC 27709
1. **Average Pile Weight (W)**: In determining pile weights, no allowance shall be made for the inclusion of any fibers needled or flocked onto or into the primary backing prior to tufting or weaving. Any process which is designed primarily to increase the total yarn weight and which is not integrally a part of the knitting, weaving, or tufting manufacturing process shall not be considered.

2. **Minimum Pile Weight of Blend**: Compute by multiplying the average percent of each fiber in the blend by the pile weights. To compute a requirement for any given blend, follow the procedure outlined below. If, for a blend composed of 30% nylon and 70% wool, each of whose minimum yarn weights are respectively 22 and 35, the minimum yarn weight for this mixture would be calculated as follows:

<table>
<thead>
<tr>
<th>Fiber</th>
<th>Percent</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nylon</td>
<td>0.30</td>
<td>22</td>
</tr>
<tr>
<td>Wool</td>
<td>0.70</td>
<td>35</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>6.6 oz/sq yd (Nylon)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24.5 oz/sq yd (Wool)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31.1 oz/sq yd (Total)</td>
</tr>
</tbody>
</table>

3. **Average Percent of Fibers in Blend**: The average percent of the fibers shall be determined by AATCC Test Method 20 A. The carpet shall meet the minimum requirements for the fibers in the blend.

4. **Average Pile Thickness (t)** (all carpet except Textures F and G): The average pile thickness in inches shall be computed in accordance with ASTM D 418.

5. **Average Tuft Height (T)**: Average tuft height for Textures F and G shall be the tuft height above the backing as determined by ASTM D 418.

6. **Average Pile Density (D)**: The average pile density shall be weight per unit volume in ounces of total pile yarn per cubic yard.

   \[
   D = \frac{36W}{(t \text{ or } T)}
   \]
<table>
<thead>
<tr>
<th>Class</th>
<th>Texture</th>
<th>Nylon</th>
<th>Polypropylene</th>
<th>Polyester</th>
<th>Acrylic</th>
<th>Wool</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BCF*</td>
<td>Staple</td>
<td>BCF</td>
<td>Staple</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wt Density</td>
<td>Wt Density</td>
<td>Wt Density</td>
<td>Wt Density</td>
<td>Wt Density</td>
</tr>
<tr>
<td>Class 1 Moderate Traffic</td>
<td>A. Level or Tex. Loop</td>
<td>20 3300</td>
<td>20 3600</td>
<td>33 3550</td>
<td>35 3450</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B. Multilevel</td>
<td>23 2850</td>
<td>24 3400</td>
<td>38 3050</td>
<td>40 2950</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. Flush</td>
<td>24 2600</td>
<td>24 2600</td>
<td>40 2850</td>
<td>42 2700</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. Twist</td>
<td>24 2950</td>
<td>28 3250</td>
<td>37 3050</td>
<td>38 2950</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. Level Cut &amp; Loop</td>
<td>24 3200</td>
<td>24 3200</td>
<td>32 3700</td>
<td>37 3300</td>
<td>38 3200</td>
</tr>
<tr>
<td></td>
<td>F. Cut Pile Heat Set Plied</td>
<td>24 625</td>
<td>32 2800</td>
<td>32 1550</td>
<td>40 2300</td>
<td>42 2400</td>
</tr>
<tr>
<td></td>
<td>G. Cut Pile Heat Set Singles</td>
<td>24 1150</td>
<td></td>
<td></td>
<td></td>
<td>32 2300</td>
</tr>
<tr>
<td>Class 2 Heavy Traffic</td>
<td>A. Level or Tex. Loop</td>
<td>26 4000</td>
<td>26 4350</td>
<td>39 4800</td>
<td>40 4550</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B. Multilevel</td>
<td>30 3500</td>
<td>32 3600</td>
<td>45 4800</td>
<td>46 4000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. Flush</td>
<td>32 3350</td>
<td>32 4500</td>
<td>46 3850</td>
<td>48 3850</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. Twist</td>
<td>32 3350</td>
<td>36 3950</td>
<td>45 4200</td>
<td>46 4000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. Level Cut &amp; Loop</td>
<td>20 3850</td>
<td>20 3850</td>
<td>39 4100</td>
<td>43 4500</td>
<td>45 4350</td>
</tr>
<tr>
<td></td>
<td>F. Cut Pile Heat Set Plied</td>
<td>30 1440</td>
<td>32 1440</td>
<td>40 1920</td>
<td>45 2600</td>
<td>46 2650</td>
</tr>
<tr>
<td></td>
<td>G. Cut Pile Heat Set Singles</td>
<td>32 1530</td>
<td></td>
<td></td>
<td></td>
<td>40 2900</td>
</tr>
</tbody>
</table>

*BCF Bulk Continuous Filament  **For Blended Purposes Only
Table 3 Minimum Weight & Density Requirements for Type II Elderly & Care Facilities

<table>
<thead>
<tr>
<th>Class</th>
<th>Texture</th>
<th>Nylon BCF' Wt</th>
<th>Density</th>
<th>Staple Wt</th>
<th>Density</th>
<th>Polycarbonate BCF Wt</th>
<th>Density</th>
<th>Staple Wt</th>
<th>Density</th>
<th>Polypropylene Staple Wt</th>
<th>Density</th>
<th>Acrylic Staple Wt</th>
<th>Density</th>
<th>Wool Wt</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 1 Moderate Traffic</td>
<td>A. Level or Tex. Loop</td>
<td>20</td>
<td>3300</td>
<td>22</td>
<td>3450</td>
<td>20</td>
<td>3600</td>
<td>24</td>
<td>4000</td>
<td>33</td>
<td>3550</td>
<td>35</td>
<td>3450</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B. Multilevel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. Plush</td>
<td>24</td>
<td>2600</td>
<td>24</td>
<td>2600</td>
<td>24</td>
<td>3200</td>
<td>24</td>
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<td>32</td>
<td>3700</td>
<td>38</td>
<td>3200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. Twist</td>
<td>24</td>
<td>2950</td>
<td>24</td>
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<td>28</td>
<td>3250</td>
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<td>3050</td>
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<td>2950</td>
<td>38</td>
<td>3200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class 2 Heavy Traffic</td>
<td>E. Level Cut &amp; Loop</td>
<td>24</td>
<td>1250</td>
<td>24</td>
<td>1250</td>
<td>32</td>
<td>4000</td>
<td>32</td>
<td>1550</td>
<td>40</td>
<td>2300</td>
<td>42</td>
<td>2400</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>F. Cut Pile Heat Set Plied</td>
<td>24</td>
<td>1250</td>
<td>24</td>
<td>1250</td>
<td>32</td>
<td>4000</td>
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<td>1550</td>
<td>40</td>
<td>2300</td>
<td>42</td>
<td>2400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>G. Cut Pile Heat Set Singles</td>
<td>24</td>
<td>4000</td>
<td>24</td>
<td>4000</td>
<td>28</td>
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</tr>
<tr>
<td></td>
<td>C. Plush</td>
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<td>4000</td>
<td>28</td>
<td>4000</td>
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<tr>
<td></td>
<td>D. Twist</td>
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<td>3500</td>
<td>32</td>
<td>3500</td>
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<td>4200</td>
<td>50</td>
<td>4000</td>
<td>45</td>
<td>4350</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. Level Cut &amp; Loop</td>
<td>28</td>
<td>3850</td>
<td>28</td>
<td>3850</td>
<td>28</td>
<td>4000</td>
<td>39</td>
<td>4100</td>
<td>43</td>
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<td>45</td>
<td>4350</td>
<td></td>
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<tr>
<td></td>
<td>F. Cut Pile Heat Set Plied</td>
<td>32</td>
<td>3600</td>
<td>32</td>
<td>3600</td>
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<td>4500</td>
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<td></td>
<td>G. Cut Pile Heat Set Singles</td>
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</tr>
</tbody>
</table>

BCF Bulk Continuous Filament

For Blend Purposes Only
TABLE 4. Physical Requirements for Attached Cushion (Flowed-On)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Urethane Class 1</th>
<th>Urethane Class 2</th>
<th>Latex Foam Rubber Class 1</th>
<th>Latex Foam Rubber Class 2</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight, min., (oz/yd²)</td>
<td>9.0</td>
<td>32</td>
<td>38</td>
<td>46</td>
<td>ASTM D 3676</td>
</tr>
<tr>
<td>Thickness, min., (inches)</td>
<td>0.225</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8</td>
<td>ASTM D 3676</td>
</tr>
<tr>
<td>Density, min., (pcf)</td>
<td>3.2</td>
<td>14</td>
<td>17</td>
<td>20</td>
<td>ASTM D 3676</td>
</tr>
<tr>
<td>Compression Set, max. (%)</td>
<td>15*</td>
<td>10*</td>
<td>15</td>
<td>15</td>
<td>ASTM D 3574</td>
</tr>
<tr>
<td>Compression Resistance min., psi</td>
<td>1.5</td>
<td>9</td>
<td>5</td>
<td>6</td>
<td>ASTM D 3676</td>
</tr>
<tr>
<td>Delamination Strength</td>
<td></td>
<td>2.5</td>
<td>2.0</td>
<td>2.5</td>
<td>ASTM D 3676</td>
</tr>
<tr>
<td>Accelerated Aging Heat Aging</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>ASTM D 3676</td>
</tr>
<tr>
<td>Fade-O-Meter Aging 20 Hours</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>AATCC 16-3</td>
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<tr>
<td>Ash Content, max. (%)</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>ASTM D 297</td>
</tr>
</tbody>
</table>

*After 30 minute recover at 150°F (70°C)
YARN AND FIBER REQUIREMENTS:

1. Certification and Testing

During the course of manufacture of carpet yarns and fibers, the producers shall conduct continuing tests of their products, not only to maintain a continuing quality control of their output but also to furnish a reliable specification statement to their customers.

In support of the specific yarn and fiber requirements in this standard, HUD will also accept certain test data when supplied by the yarn or fiber manufacturer. In doing so, however, HUD will continue to assess full responsibility on the carpet manufacturer for failure to meet HUD requirements.

Test and requirements for the yarn or fiber may be covered by the yarn or fiber manufacturer's certificate of compliance in lieu of a similar certificate of compliance from the carpet manufacturer. If the yarn characteristics are such that it is the carpet manufacturer who is responsible for the ultimate set of properties, then the certificate of compliance must solely be the responsibility of the carpet manufacturer.

2. Materials for Pile Yarn. Fibers for the yarn shall not have been reclaimed from any woven, tufted, knitted, or felted products. The pile yarn shall be made of acrylic, modacrylic, nylon, polypropylene olefin, polyester, wool or blends of these fibers in yarns, exclusive of ornamentation and antistats. All spun yarns must have sufficient twist, entanglement wearability and performance, apart from meeting any weight or density requirements. Spun yarn shall be at least two ply for loop pile carpet. Not less than 9% of any of the above fibers shall be used with other fibers when they are part of a blend. Yarn setting shall be sufficient to assure texture retention under normal conditions of cleaning, shampooing and use.

Where blends are used, the major component shall be the governing fiber in construction interpretation, except for weights. Thus construction consisting of 70% wool and 30% nylon shall be treated as wool. Acrylic and modacrylic fibers may be blended together and shall be treated as a single fiber type.
Fiber denier and staple lengths are subject to normal manufacturing variations. However, no more than 15% variation in staple length shall be acceptable. Staple denier variation may be ± 15% in the individual fiber denier and ± 10% in the average denier.

a. **Acrylic.** Acrylic shall be carpet type staple fiber with an average fiber size of 15 denier or coarser and of specified fiber length. Minimum staple length shall be 3 1/2" on woolen system yarns and 6" on parallel (Modified Worsted) system yarns.

b. **Modacrylic.** Modacrylic shall be a carpet type staple fiber with an average fiber size of 15 denier or coarser and of specified fiber length. Minimum staple length shall be 3 1/2 inches on woolen system yarns and 6 inches on parallel (Modified Worsted) system yarns. Modacrylic is restricted in use in blends and shall not exceed 45%

c. **Nylon (Continuous Filament).** Continuous filament nylon shall be high bulk or textured carpet type yarn. Average filament size shall be 12 denier or coarser.

d. **Nylon (Staple).** Staple nylon shall be carpet type fiber with an average fiber size of 12 denier or coarser, and of specified fiber length. For level loop carpet, the staple length shall be a minimum of 6".

e. **Polyester (Staple).** Polyester shall be a carpet type staple fiber with an average fiber size of 12 denier or coarser and of specified fiber length.

f. **Polypropylene Olefin (Continuous Filament).** Continuous filament polypropylene olefin shall be high bulk or textured carpet type yarn. Average filament shall be a minimum of 15 denier or coarser.

g. **Polypropylene Olefin (Staple).** Polypropylene olefin shall be carpet type staple fiber with an average fiber size of 15 denier or coarser and a minimum staple of 6".

h. **Wool.** Wool shall be thoroughly scoured carpet type fiber. The yarn shall contain a minimum of 95%, based on the original dry weight of the specimen.
ACCEPTED ADMINISTRATORS:

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

The following Administrators have been accepted by HUD as qualified to certify carpet under this Use of Materials Bulletin No. 44d.

MEA  MEA Certification, Inc.  A.L.I, Inc.  
600 Houze Way, Suite C1  P. O. Box 15705  
Roswell, GA  30076  Dallas, TX  75215

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

HUD Field Offices will maintain a file of all Certified Carpet Directories furnished by the Administrators. Only carpet products in the Directories and identified by imprints on the back of the carpet, will be acceptable to HUD.