

## **DIVISION 9 - FINISHES**

### **Section 09680 – Carpet and Carpet Tile**

#### **Introduction**

In general, broadloom carpet shall be direct glue down installation.

In certain limited and special cases (for example offices of senior academic or administrative officials requiring an "executive" environment), and only with specific permission from the Project Manager, a carpet or carpet tile with enhanced cushion backing may be used. Carpet stretched over carpet padding systems should *not* be specified.

Classrooms – Where carpeting is recommended by the design professional for classroom installations, only carpet tile shall be specified. In deciding to use carpet tile in classrooms, acoustical, comfort and appearance issues should be weighed against FM maintenance issues (UA PM to coordinate). In large classrooms i.e. auditorium or tiered classrooms, the use of carpet tile is restricted to aisles and entry levels. Do not specify carpet tiles under fixed seating.

Selection of carpet materials (and enhanced cushion backing systems) must adhere to all pertinent ADA requirements.

Selection of carpet materials (and enhanced cushion backing systems) should address the traffic characteristics, likelihood and types of potential staining agents, and required longevity of the installation.

Carpet selections should take advantage of sustainable carpet options as much as possible. Consideration should be given to the sustainable importance of toxins that the yarn systems may or may not have, the backings used, and the potential for re-cycled or "post-consumable" content.

When selecting carpet materials, consider that the carpet will be cleaned only annually. Specify materials choices which provide substantial wear and soil hiding characteristics. Also consider that regular vacuuming will be accomplished with heavy duty equipment. Delicate carpet requiring special attention will not prove durable.

Limit color choices to those which will provide substantial wear and soil hiding characteristics. Restrict solid color carpet to accent areas. Do not use light colors.

Where carpet is being installed directly over asbestos-containing resilient flooring ("encapsulation"), specify a releasable installation, using "peel-and-stick" materials or special adhesives. Encapsulation is decided by the University on a case by case basis.

Do not specify carpeted floor finishes in wet locations such as toilet rooms, locker rooms, wet laboratories, and other similar spaces. This includes small areas within larger spaces such as around coffee bars, drinking fountains, entry vestibules, etc.

Include carpet type, color and pattern selections, and any special layout provisions (borders, etc.) in the construction documents.

Coordinate requirements for resilient base and accessories with Section 09650.

#### **Part 1 - General**

- Require that manufacturer(s) and installer(s) demonstrate at least 5 years successful performance with similar installations.
- Require submission of manufacturer's technical literature, test reports, VOC content, and flame spread characteristics.

- Require submission of a seaming diagram, drawn to scale, clearly indicating all special features of each space required to receive a carpeted finish, and the planned seaming pattern.
- Require submission of an "as-built" color and material schedule for each carpet installed, with the closeout documents, including:
  - Descriptive location
  - Manufacturer
  - Carpet type (name and number)
  - Color, style and pattern (name and number)
  - Manufacturer's recommended cleaning procedures
  - Warranty provisions
- Require delivery to the Owner of maintenance stock, a minimum of 9 square yards or 3% of the total whichever is larger, with no individual piece smaller than 3'-0" and 9 square yards, for each type and color of carpet in the project. For small projects a minimum of 5% stock should be considered. Include the following wording with the maintenance stock specification - "It is unacceptable to consider this maintenance stock for standard installation overages. This is "attic stock" to arrive on site cleanly wrapped and labeled as "attic stock" for the client to use in future repair and maintenance. It is not considered as waste stock or overages that the contractor bids for installation purposes."
- Specify special warranty provisions as follows:
  - Two Year Installation Warranty: signed by the contractor and installer, agreeing to repair or replace defective materials and workmanship over a TWO year period.
  - 10 year, non-prorated manufacturer's warranty.
    - Delamination warranty: The backing will not delaminate for the life of the carpet.
    - Edge Ravel Warranty: The Manufacturer warrants that the carpet will not have continuous ends coming out at lengthwise seams for the life of the carpet.
    - Tuft Bind: The manufacturer warrants that the carpet has an average face yarn tuft bind of 20 pounds. This warranty is for the life of the carpet and applies only to loop pile carpet.
    - Static Warranty: The Manufacture warrants that the carpet will not give static discharges in excess of 3KV when tested under AATCC Test Method # 134-1979 for the life of the carpet.
    - No more than 10% loss of pile by weight
    - No zippering.
    - Chair pads must not be required to maintain the warranty.
    - Warranties must be from the carpet manufacturer, and must be offered as the manufacturer's warranty.

## **Part 2 - Products**

- Specify carpet, enhanced cushion backing (where required), adhesive, and seaming materials, which meet the University of Washington protocol for volatile organic compounds (voc), with the minimum possible content of voc, and in no case with a total voc content in excess of 0.50 mg per cubic meter.
- Specify carpet complying with these general criteria:
  - Flame spread - class I
  - Smoke density - less than 450
  - Static resistance - minimum of 3.0 kv
  - Tuft bind - minimum 20 lbs
  - Dyed fibers – only branded yarn dyed or solution dyed fibers shall be specified

- High Traffic Areas (libraries, conference rooms, classrooms, corridors, etc.)
  - Carpet fiber - type 6.6 cationic polymer nylon, 4 ply, hollow bcf filament, solution or yarn dyed.
  - Construction - woven
  - Texture - level loop
  - Density - 7,000
  - Face weight - 17 ounces per square yard minimum.
  - Primary backing - to meet warranty provisions above.
  - Secondary backing - to meet warranty provisions above.
  - Width - 12 ft for broadloom, 18" to 36" square for carpet tile.
- General Use Areas (offices, etc.):
  - Carpet fiber - type 6.6 cationic polymer nylon, 4 ply, hollow bcf filament, solution or yarn dyed.
  - Construction - tufted or woven.
  - Texture - level loop
  - Density - 5,000 to 7,000
  - Face weight - 17 ounces per square yard minimum.
  - Backing - unitary or action back.
  - Width - 12 ft. for broadloom, 18" to 36" square for carpet tile.
- Hospital / Medical Facilities:
  - Carpet fiber - type 6.6 cationic polymer nylon, 4 ply, hollow bcf filament, solution dyed (no yarn dyed allowed).
  - Construction - tufted or woven
  - Texture - level loop
  - Density - 5,000 to 7,000
  - Face weight - 25 ounces per square yard minimum.
  - Primary backing - 100% vinyl
  - Secondary backing - 3/16" closed cell vinyl cushion.
  - Width - 6 ft. for broadloom, 18" to 36" square for carpet tile.
- Residential Facilities:
  - Because of the variety of facilities (new, renovated, need for allergy free, long term and short term) that Residence Life deals with; the Consultant shall discuss with the User the appropriate type of material to be specified for the specific project.
- Carpet with Enhanced Cushion Backing:
  - Carpet fiber - type 6.6 cationic polymer nylon, 4 ply, hollow bcf filament, solution or yarn dyed.
  - Construction - tufted or woven
  - Texture - cut pile
  - Density - 5,000 to 7,000
  - Face weight - 25 ounces per square yard minimum.
  - Width - 6 foot or 12 ft. for broadloom, 18" to 36" for carpet tile.
- Specify that adhesives and seam sealers must be furnished by or approved by the carpet manufacturer.

### **Part 3 - Execution**

- Require floor leveling, for both new and renovation projects, in this Section.
- Require that installation be accomplished in accordance with manufacturer's recommendations, including seam gluing.
- Include requirements for pattern matching, color matching, and running the pile in the direction of anticipated traffic.
- Describe requirements protecting installed carpet until Substantial Completion in this Section.

### **End of Section 09680**