

Modify Division 09 by adding the following new section 09 60 00. Remainder of Division is unchanged.

09 60 00 FLOORING

096810 Carpet Tile

- A. All tile must meet the criteria contained within the NSF140-2010 guidelines at the platinum level. Additionally, this standard has been augmented to include the following tile characteristics:
1. All carpet will contain only solution and yarned (or spaced) dyed fibers.
 2. Solution and yarned (or spaced) dyed fibers will be either Nylon 6 or Nylon 6,6 only with either a Modified Delta or Four Core Hallow Filament fiber shape (modification ratio of 1.2 to 2.8).
 3. Backings will be made of a minimum of 50% recycled material.
 4. Face fiber shall contain no less than 20% recycled content.
 5. For all modular carpet tile yarned dyed (or spaced dyed) fibers shall not constitute no more than thirty-five percent (35%) of the face fibers.
 6. All carpet will have a face weight between 12 and 24 ounces.
 7. Based on the manufacturer selected, the carpet shall be constructed of the following:
 - a. Interface - multi-level loop, cut loop, tip shear (controlled such that no more than twenty to 30 percent(20-30%) of the loop is sheared), and level loop patterns.
 - b. Shaw - multi-level, level, graphic, textured, pattern and random tip-shear (controlled such that no more than twenty to thirty percent (20 – 30%) of the loop tip is sheared) loop patterns.
 - c. Tandus - multi-level loop, syntex cut controlled to no more than twenty to thirty percent (20 - 30%), or level loop patterns.
 8. All carpet fiber to be bulk continuous fibers (no staple fibers).
 9. Density ratings for installation of tile:
 - a. Light traffic areas will have a minimum density rating of 4,000 oz/square yard.
 - b. Moderate traffic areas carpet is to have a minimum density rating of 4,900 to a maximum rating of 6,000 oz/square yard.
 - c. Heavy traffic areas carpet should have a density rating from 6,000 to 7,000.
 - d. Extra heavy traffic areas density ratings shall be in excess of 7,000. It should be noted that carpets with density ratings at this level prone to crushing and should be avoided. If it is decided to still advance the installation along these lines careful study of carpet styles must be undertaken in order to identify the proper carpet for the task.
 - e. Determination of traffic levels will be in accordance with the Carpet and Rug Institute guidelines sub-category Education, located at:
http://carpet-rug.org/pdf_word_docs/guidelines_for_levels_of_traffic.pdf. It has been amended to add Lobby, Entranceways, and Corridors to the Heavy Traffic category and Conference Room to the Moderate Traffic Category
 10. No glue based adhesives to be used for carpet installation with the exception of these areas: sloped/inclined surfaces (regardless of slope), raised floors over pressurized plenum, vertical surfaces, stairs, areas subject to heavy rolling loads (all these areas are required to be glue based). And areas, which upon consultation with the Office of Physical Plant personnel and manufacturer, are determined to be large as related to square yardage (which may require

partially glued based installation). No wet set applications will be permitted to be employed the installation process in the so noted areas. The following are the only acceptable non-glue based adhesives:

- a. For Interface: Tactile System.
 - b. For Shaw and Patcraft: Lock-Dots System
 - c. For Tandus: RS System
11. Warranty for all tile products and accessories will be no less than 20 years.
 12. Carpet shall be installed as per the most current version of the manufacturer's recommendations, and guidelines, including for subfloor preparation, installation conditions and methods. Manufacturer shall be one of the following (Manufacturer provided Penn State specific websites with acceptable styles will be available soon):
 1. InterfaceFLOR, 1503 Orchard Hill Road, LaGrange, Georgia, 30240
 2. Shaw Industries, Inc.(including Patcraft) d/b/a Shaw Contract Group, 616 East Walnut Avenue, Dalton, Georgia, 30721
 3. Tandus US, LLC 311 Smith Industrial Blvd., Dalton, Georgia, 30722

END of revision

Update Commentary:

Section was updated primarily for the following reasons:

- 1) Add carpet tile requirements to standards.