

**SECTION 09 68 00**  
**CARPETING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

Section specifies carpet, edge strips, adhesives, and other items required for complete installation.

**1.2 RELATED WORK**

- A. Color and texture of carpet and edge strip: See interior Design Finish Plans
- B. Resilient wall base: Section 09 65 13, RESILIENT BASE AND ACCESSORIES.

**1.3 QUALITY ASSURANCE**

- A. Carpet installed by mechanics certified by the Floor Covering Installation Board.
- B. Certify and label the carpet that it has been tested and meets criteria of CRI IAQ Carpet Testing Program for indoor air quality.

**1.4 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Product Data:
  - 1. Manufacturer's catalog data and printed documentation stating physical characteristics, durability, resistance to fading and flame resistance characteristics for each type of carpet material and installation accessory.
  - 2. Manufacturer's printed installation instructions for the carpet, including preparation of installation substrate, seaming techniques and recommended adhesives and tapes.
  - 3. Manufacturer's certificate verifying carpet containing recycled materials include percentage of recycled materials as specified.
- C. Samples:
  - 1. Carpet: "Production Quality" samples 300 x 300 mm (12 x 12 inches) of carpets, showing quality, pattern and color specified in Section 09 06 00, SCHEDULE FOR FINISHES.
  - 2. Floor Edge Strip (Molding): 150 mm (6 inches) long of each color and type specified.
  - 3. Base Edge Strip (Molding): 150 mm (6 inches) long of each color specified.
- D. Shop Drawings: Installers layout plan showing seams and cuts for sheet carpet and carpet module.

- E. Maintenance Data: Carpet manufacturer's maintenance instructions describing recommended type of cleaning equipment and material, spotting and cleaning methods and cleaning cycles.

#### **1.5 DELIVERY AND STORAGE**

- A. Deliver carpet in manufacturer's original wrappings and packages clearly labeled with manufacturer's name, brand, name, size, dye lot number and related information.
- B. Deliver adhesives in containers clearly labeled with manufacturer's name, brand name, number, installation instructions, safety instructions and flash points.
- C. Store in a clean, dry, well ventilated area, protected from damage and soiling. Maintain storage space at a temperature above 16 degrees C (60 degrees F) for 2 days prior to installation.

#### **1.6 ENVIRONMENTAL REQUIREMENTS**

Areas in which carpeting is to be installed shall be maintained at a temperature above 16 degrees C (60 degrees F) for 2 days before installation, during installation and for 2 days after installation. A minimum temperature of 13 degrees C (55 degrees F) shall be maintained thereafter for the duration of the contract. Traffic or movement of furniture or equipment in carpeted area shall not be permitted for 24 hours after installation. Other work which would damage the carpet shall be completed prior to installation of carpet.

#### **1.7 WARRANTY**

Carpet and installation subject to terms of "Warranty of Construction" FAR clause 52.246-21, except that warranty period is extended to two years.

#### **1.8 APPLICABLE PUBLICATIONS**

- A. Publication listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
- B. American National Standards Institute (ANSI):  
ANSI/NSF 140-10.....Sustainable Carpet Assessment Standard
- C. American Association of Textile Chemists and Colorists (AATCC):  
AATCC 16-04.....Colorfastness to Light  
AATCC 129-10.....Colorfastness to Ozone in the Atmosphere under High Humidities  
AATCC 134-11.....Electric Static Propensity of Carpets  
AATCC 165-08.....Colorfastness to Crocking: Textile Floor Conerings-AATCC Crockmeter Method
- D. American Society for Testing and Materials (ASTM):

ASTM D1335-05.....Tuft Bind of Pile Yarn Floor Coverings  
ASTM D3278-96 (R2004)...Flash Point of Liquids by Small Scale Closed-Cup  
Apparatus  
ASTM D5116-10.....Determinations of Organic Emissions from Indoor  
Materials/Products  
ASTM D5252-05.....Operation of the Hexapod Tumble Drum Tester  
ASTM D5417-05.....Operation of the Vettermann Drum Tester  
ASTM E648-10.....Critical Radiant Flux of Floor-Covering Systems  
Using a Radiant Heat Energy Source

E. The Carpet and Rug Institute (CRI):

CRI 104-11.....Installation of Commercial Carpet

**PART 2 - PRODUCTS**

**2.1 MODULAR TILE CARPET -**

**C-2, C-3, C-4, C-5**

Construction:	Tufted
Surface Texture:	Level Cut & Loop
Gauge:	1/12 (49.00 rows per 10cm)
Density:	6686
Weight Density:	173,836
Sustainable Content:	Contains up to 15% rapidly renewable content by total weight and a minimum 35% pre-consumer recycled content by total weight
Stitches per inch:	10.7 (42.13 per 10cm)
Finished Pile Thickness:	.140" (3.56mm)
Dye Method:	Solution Dyed/Yarn Dyed
Backing Material:	EcoFlex ICT
Fiber Type:	SmartStrand Contract made with Dupont Sorona Triexta, Dupont Sorona Contains 37% rapidly renewable content by weight
Face Weight:	26.0 oz per sq. yd (882 g/m2)
Pattern Repeat:	Not Applicable
Size/width:	24" x 24" (.6096m x .6096m)
Soil Release Technology:	Sentry Soil Protection
GSA Stain Release Rating:	Pass
Installation Method:	Monolithic
Indoor Air Quality:	Green Label Plus 1258
Foot Traffic Recommendation:	Heavy
NSF 140:	Gold
Performance Static:	AATCC-134 Under 3.5 KV

Flammability	ASTM E648 Class 1 Glue Down
Smoke Density	ASTM E 662 Less than 400
Warranty:	Lifetime Limited Tile Warranty Lifetime Limited Stain Warranty Lifetime Static

**C-1**

Construction:	Tufted
Surface Texture:	Level Cut & Loop
Gauge:	1/12 (49.00 rows per 10cm)
Density:	7145
Weight Density:	185,770
Sustainable Content:	Contains up to 15% rapidly renewable content by total weight and a minimum 35% pre-consumer recycled content by total weight
Stitches per inch:	11.3 (44.49 per 10cm)
Finished Pile Thickness:	.131" (3.33mm)
Dye Method:	Solution Dyed/Yarn Dyed
Backing Material:	EcoFlex ICT
Fiber Type:	SmartStrand Contract made with Dupont Sorona Triexta, Dupont Sorona Contains 37% rapidly renewable content by weight
Face Weight:	26.0 oz per sq. yd (882 g/m2)
Pattern Repeat:	Not Applicable
Size/width:	24" x 24" (.6096m x .6096m)
Soil Release Technology:	Sentry Soil Protection
GSA Stain Release Rating:	Pass
Installation Method:	Monolithic
Indoor Air Quality:	Green Label Plus 1258
Foot Traffic Recommendation:	Heavy
NSF 140:	Gold
Performance Static:	AATCC-134 Under 3.5 KV
Flammability	ASTM E648 Class 1 Glue Down
Smoke Density	ASTM E 662 Less than 400
Warranty:	Lifetime Limited Tile Warranty Lifetime Limited Stain Warranty Lifetime Static

**C-6**

Construction:	Tufted
Surface Texture:	Textured Multi Colored Loop
Gauge:	1/10 (39.37 rows per 10cm)
Density:	5414
Weight Density:	108,280
Sustainable Content:	Contains a minimum 35% pre-consumer recycled content by total weight
Stitches per inch:	9.3 (36.61 per 10cm)
Finished Pile Thickness:	.131" (3.38mm)
Dye Method:	Solution Dyed/Yarn Dyed
Backing Material:	EcoFlex ICT
Fiber Type:	Colorstrand Nylon
Face Weight:	20.0 oz per sq. yd (678 g/m2)
Pattern Repeat:	Not Applicable
Size/width:	24" x 24" (.6096m x .6096m)
Soil Release Technology:	Sentry Plus
Installation Method:	Monolithic
Indoor Air Quality:	Green Label Plus 1098
Foot Traffic Recommendation:	Severe
NSF 140:	Gold
Performance Static:	AATCC-134 Under 3.5 KV
Flammability	ASTM E 648 Class 1 Glue Down
Smoke Density	ASTM E 662 Less than 450
Warranty:	Lifetime Limited Tile Warranty Lifetime Limited Stain Warranty Lifetime Static

**2.2 ADHESIVE AND CONCRETE PRIMER**

- A. Waterproof, resistant to cleaning solutions, steam and water, non-flammable, complies with air-quality standards as specified. Adhesives flashpoint minimum 60 degrees C (140 degrees F), complies with ASTM D 3278.
- B. Seam adhesives: Waterproof, non-flammable and non-staining.

**2.3 EDGE STRIPS (MOLDING)**

- A. Vinyl Edge Strip: R-1
  - 1. Beveled floor flange minimum 2 ½" wide - 1/8" to .080" material
  - 2. Beveled surface to finish flush with carpet for tight joint and other side to floor finish.
  - 3. Color as specified in Interior Finish Plans

B. Vinyl Edge Strip: R-2

1. Beveled floor flange minimum 2 ½" wide - 3/8" to .080" material
2. Beveled surface to finish flush with carpet for tight joint and other side to floor finish.
3. Color as specified in Interior Finish Plans

C. Vinyl Edge Strip: R-3

1. Beveled floor flange minimum 2 ½" wide - ¼" to .080" material
2. Beveled surface to finish flush with carpet for tight joint and other side to floor finish.
3. Color as specified in Interior Finish Plans

**2.4 LEVELING COMPOUND (FOR CONCRETE FLOORS)**

- A. Provide Portland cement bases polymer modifier with latex or polyvinyl acetate resin manufactured specifically for resurfacing and leveling concrete floors. Products containing gypsum are not acceptable.
- B. Determine the type of underlayment selected for use by condition to be corrected.

**PART 3 - EXECUTION**

**3.1 SURFACE PREPARATION**

- A. Examine surfaces on which carpet tile is to be installed.
- B. Clean floor of oil, waxy films, paint, dust and deleterious substances that prevent adhesion, leave floor dry and cured, free of residue from curing or cleaning agents // and existing carpet materials //.
- C. Correct conditions which will impair proper installation, including trowel marks, pits, dents, protrusions, cracks or joints.
- D. Fill cracks, joints depressions, and other irregularities in concrete with leveling compound.
  1. Do not use adhesive for filling or leveling purposes.
  2. Do not use leveling compound to correct imperfections which can be corrected by spot grinding.
  3. Trowel to smooth surface free of trowel marks, pits, dents, protrusions, cracks or joint lines.
- E. Test new concrete subfloor prior to adhesive application for moisture and surface alkalinity per CRI 104 Section 6.3.1 or per ASTM E1907.

**3.2 CARPET INSTALLTION**

- A. Do not install carpet tile until work of other trades including painting is complete and dry.
- B. Install in accordance with CRI 104 direct glue down installation.
  1. Comply with indoor air quality recommendations noted in Section 6.5.

2. Maintain temperature in accordance with Section 15.3.
- C. Secure carpet tile to subfloor of spaces with adhesive applied as recommended by carpet tile manufacturer.
- D. Follow carpet tile manufacturer's recommendations for matching pattern and texture directions.
- E. Cut openings in carpet where required for installing equipment, pipes, outlets, and penetrations.
  1. Bind or seal cut edge of sheet carpet and replace flanges or plates.
  2. Use additional adhesive to secure carpets around pipes and other vertical projections.
- F. Carpet Tile:
  1. Install per CRI 104, Section 13, Adhesive Application.
  2. Lay carpet modules with pile in same direction unless specified otherwise on Interior Finish Plans
  3. Install carpet tiles so that cleaning methods and solutions do not cause dislocation of tiles.
  4. Lay carpet tiles uniformly to provide tight flush joints free from movement when subject to traffic.

### **3.3 EDGE STRIPS INSTALLATION**

- A. Install edge strips over exposed carpet edges adjacent to uncarpeted finish flooring.
- B. Anchor vinyl edge strip to floor with adhesive apply adhesive to edge strip and insert carpet into lip and press lip down over carpet.

### **3.4 PROTECTION AND CLEANING**

- A. Remove waste, fasteners and other cuttings from carpet floors.
- B. Vacuum carpet and provide suitable protection. Do not use polyethylene film.
- C. Do not permit traffic on carpeted surfaces for at least 48 hours after installation. Protect the carpet in accordance with CRI 104.
- D. Do not move furniture or equipment on unprotected carpeted surfaces.
- E. Just before final acceptance of work, remove protection and vacuum carpet clean.

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