SECTION 096816 - SHEET CARPETING

Revise this Section by deleting and inserting text to meet Project-specific requirements.

Verify that Section titles referenced in this Section are correct for this Project's Specifications; Section titles may have changed.

1. GENERAL
   * + 1. RELATED DOCUMENTS
          1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
       2. SUMMARY
          1. Section Includes:

Insert fusion-bonded, needle-punched, knitted, or another carpet construction if required.

Tufted carpet.

Woven carpet.

Carpet cushion.

* + - * 1. Related Requirements:

Retain subparagraphs below to cross-reference requirements Contractor might expect to find in this Section but are specified in other Sections.

Section 096513 "Resilient Base and Accessories" for resilient wall base and accessories installed with carpet.

Section 096813 "Tile Carpeting" for modular carpet tiles.

* + - 1. REFERENCES
         1. AATCC - The American Association of Textile Chemists and Colorists, Research Triangle Park, NC 27709, [www.aatcc.org](http://www.aatcc.org).
         2. CRI – Carpet and Rug Institute, Dalton, GA 30722-2048, www.carpet-rug.com.
      2. PREINSTALLATION MEETINGS

Retain "Preinstallation Conference" paragraph below if Work of this Section is extensive or complex enough to justify a conference.

* + - * 1. Preinstallation Conference: Conduct conference at Project site.

Retain subparagraph below if additional requirements are necessary.

Review methods and procedures related to carpet installation including, but not limited to, the following:

Retain first subparagraph for occupied buildings if delivery must be controlled and coordinated, for example, for tenant spaces in occupied office buildings with multiple tenants.

Review delivery, storage, and handling procedures.

Review ambient conditions and ventilation procedures.

Review subfloor preparation procedures.

If needed, insert list of conference participants.

* + - 1. SUBMITTALS
         1. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
         2. Manufacturer’s installation instructions shall be provided along with product data.
         3. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
         4. Product Data: For each type of product.

Include manufacturer's written data on physical characteristics and durability, including the following:

Trade name and number.

Manufacturer.

Address of mill constructing carpet.

Construction type.

Gage.

Stitches per inch.

Pile height.

Face yarn.

Face yarn weight.

Weight density factor.

Primary backing.

Secondary backing.

Total weight.

Dye method.

Tuft bind.

Static resistance.

Flammability.

Adhesive.

Seam sealer.

Include manufacturer's written installation recommendations for each type of substrate.

* + - * 1. Sustainable Design Submittals:
        2. Shop Drawings: For carpet installation, showing the following:

Retain, delete, or revise subparagraphs below to suit Project.

Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet.

Carpet type, color, and dye lot.

Retain first subparagraph below only for large installations where multiple dye lots are unavoidable.

Locations where dye lot changes occur.

Seam locations, types, and methods.

Type of subfloor.

Type of installation.

Pattern type, repeat size, location, direction, and starting point.

Pile direction.

Types, colors, and locations of insets and borders.

Types, colors, and locations of edge, transition, and other accessory strips.

Transition details to other flooring materials.

Retain subparagraph below if applicable.

Type of carpet cushion.

Retain "Samples" paragraph below for single-stage Samples. Retain "Samples for Initial Selection" and "Samples for Verification" paragraphs for two-stage Samples.

* + - * 1. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

Carpet: 12-inch- square Sample.

Exposed Edge, Transition, and Other Accessory Stripping: 12-inch- long Samples.

Retain "Carpet Cushion" subparagraph below if applicable.

Carpet Cushion: 6-inch- square Sample.

Carpet Seam: 6-inch Sample.

Retain "Mitered Carpet-Border Seam" subparagraph below if applicable.

Mitered Carpet-Border Seam: 12-inch- square Sample. Show carpet pattern alignment.

* + - * 1. Samples for Initial Selection: For each type of product.

Include Samples of exposed edge, transition, and other accessory stripping involving color or finish selection.

* + - * 1. Samples for Verification: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

Carpet: 12-inch- square Sample.

Exposed Edge, Transition, and Other Accessory Stripping: 12-inch- long Samples.

Retain "Carpet Cushion" subparagraph below if applicable.

Carpet Cushion: 6-inch- square Sample.

Carpet Seam: 6-inch Sample.

Retain "Mitered Carpet-Border Seam" subparagraph below if applicable.

Mitered Carpet-Border Seam: 12-inch- square Sample. Show carpet pattern alignment.

* + - * 1. Product Schedule: For carpet[**and carpet cushion**]. Use same designations indicated on Drawings.

Retain "Sustainable Product Certification" paragraph if products certified according to ANSI/NSF 140 are required.

* + - * 1. Sustainable Product Certification: Provide ANSI/NSF 140 certification for carpet products.

Coordinate "Qualification Data" paragraph below with qualification requirements in "Quality Assurance" Article.

* + - * 1. Qualification Data: For Installer.
        2. Product Test Reports: For carpet[**and carpet cushion**], for tests performed by a qualified testing agency.
        3. Sample Warranties: For special warranties.
      1. CLOSEOUT SUBMITTALS
         1. Maintenance Data: For carpet to include in maintenance manuals. Include the following:

Methods for maintaining carpet, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.

Precautions for cleaning materials and methods that could be detrimental to carpet[**and carpet cushion**].

* + - 1. MAINTENANCE MATERIAL SUBMITTALS
         1. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

Carpet: Full-width rolls equal to 5 percent of amount installed for each type indicated, but not less than 10 sq. yd..

* + - 1. QUALITY ASSURANCE
         1. Installer Qualifications: The persons installing the tile carpeting and their Supervisor shall be experienced in carpeting installation, including the requirements of the tile carpeting manufacturer, and shall have been regularly employed by a company engaged in installation of carpeting for a minimum of 5 years.

Furnish to the Director’s Representative the names and addresses of 5 similar projects which the foregoing people have worked on during the past 3 years.

* + - * 1. Certifications: Furnish certification from tile carpeting installer that the substrate surfaces have been examined and are acceptable for installation of the Work of this Section.

Indicate area of floors represented by mockups on Drawings or draw mockups as separate elements.

* + - * 1. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

Build mockups at locations and in sizes shown on Drawings.

Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

* + - 1. DELIVERY, STORAGE, AND HANDLING
         1. Comply with the Carpet and Rug Institute's CRI 104.
         2. Deliver carpet in original mill protective covering with mill register numbers and tags attached.
      2. FIELD CONDITIONS
         1. Comply with the Carpet and Rug Institute's CRI 104 for temperature, humidity, and ventilation limitations.
         2. Environmental Limitations: Do not deliver or install carpet[**and carpet cushion**] until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.

Retain first paragraph below if products are adhesively applied to concrete substrates. Revise to suit Project.

* + - * 1. Do not install carpet[**and carpet cushion**] over concrete slabs until slabs have cured, are sufficiently dry to bond with adhesive, and have pH range recommended by carpet manufacturer.
        2. Do not install the Work of this Section until painting, finishing Work, and Work of other trades has been completed.
        3. Where demountable partitions or other items are indicated for installation on top of carpet, install carpet before installing these items.
      1. WARRANTY

Revise "Special Warranty for Carpet" paragraph below if manufacturers have separate warranties for various characteristics.

* + - * 1. Special Warranty for Carpet: Manufacturer agrees to repair or replace components of carpet installation that fail in materials or workmanship within specified warranty period.

Warranty does not include deterioration or failure of carpet due to unusual traffic, failure of substrate, vandalism, or abuse.

Failures include, but are not limited to, the following:

More than 10 percent loss of face fiber, edge raveling, snags, and runs.

Loss of tuft bind strength.

Excess static discharge**.**

Delamination.

Verify available warranties and warranty periods for carpet.

Warranty Period: 15 years from date of Substantial Completion.

* + - * 1. Special Warranty for Carpet Cushion: Manufacturer agrees to repair or replace components of carpet cushion installation that fail in materials or workmanship within specified warranty period.

Warranty includes removal and replacement of carpet and accessories required by replacement of carpet cushion.

Warranty does not include deterioration or failure of carpet cushion due to unusual traffic, failure of substrate, vandalism, or abuse.

Failure includes, but is not limited to, permanent indentation or compression.

Verify available warranties and warranty periods for carpet cushion.

Warranty Period: 15 Insert number years from date of Substantial Completion.

If Installer warranty is available and required, insert here.

1. PRODUCTS

Manufacturers and products listed in SpecAgent and Masterworks Paragraph Builder are neither recommended nor endorsed by the AIA or Deltek. Before inserting names, verify that manufacturers and products listed there comply with requirements retained or revised in descriptions and are both available and suitable for the intended applications.

* + - 1. TUFTED CARPET <**Insert designation**>

Copy this article and re-edit for each product.

Insert drawing designation. Use these designations on Drawings to identify each product.

Sheet carpeting below is similar to tile carpeting used on design and construction floors in the Corning Tower. This tile carpeting is suitable for most locations when a “general all purpose” carpeting is required. Consult tile carpeting manufactures’ literature and modify properties below if other tile carpeting types are required for aesthetics, plushness, etc.

* + - * 1. [Manufacturers:](http://www.specagent.com/Lookup?ulid=9641) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Atlas Carpet Mills, Inc](http://www.specagent.com/Lookup?uid=123457134607).

[Mannington Mills, Inc](http://www.specagent.com/Lookup?uid=123457134616).

[Shaw Contract Group; a Berkshire Hathaway company](http://www.specagent.com/Lookup?uid=123457134625).

Approved equivalent.

Generally retain "Color" and "Pattern" paragraphs below unless they are described by product designation inserted above.

* + - * 1. Color: [**As indicated by manufacturer's designations**] [**Match Director’s Representative's samples**] [**As selected by Director’s Representative from manufacturer's full range**].
        2. Pattern: [**As indicated by manufacturer's designations**] [**Match Director’s Representative's samples**][**As selected by Director’s Representative from manufacturer's full range**].
        3. Fiber Content: 100 percent nylon 6, 6.
        4. Pile Characteristic: Tufted, textured loop pile (Random Pattern).
        5. Density: Minimum 5,000 oz./cu. yd..

Test method in "Pile Thickness" paragraph below is applicable only to finished level-loop and cut-pile constructions with tuft heights less than 0.25 inch. See the Evaluations for an explanation of pile thickness, pile height, and tuft height.

* + - * 1. Pile Thickness: Minimum 0.130 inches for finished carpet according to ASTM D6859.
        2. Stitches: Minimum 8.3 per inch.
        3. Gage: Minimum 1/8 ends per inch.

Do not include weight of backings in "Face Weight" paragraph below.

* + - * 1. Face Weight: 20 oz./sq. yd..

Retain one or more of "Primary Backing," "Secondary Backing," or "Backcoating" paragraphs below if describing backing construction instead of naming a proprietary backing system.

* + - * 1. Primary Backing: Woven polypropylene.
        2. Secondary Backing: Manufacturer's standard material.
        3. Backcoating: Manufacturer's standard material.
        4. Roll Width: 12 feet.
        5. Applied Treatments:

Retain "Applied Soil-Resistance Treatment" subparagraph below unless soil resistance is integral to carpet fiber or if soil resistance is not needed for Project; consult manufacturer.

Applied Soil-Resistance Treatment: Manufacturer's standard material.

Retain "Antimicrobial Treatment" subparagraph below unless antimicrobial treatment is integral to carpet or if antimicrobial treatment is not needed for Project; consult manufacturer.

Antimicrobial Treatment: Manufacturer's standard material.

Antimicrobial Activity: Not less than 2-mm halo of inhibition for gram-positive bacteria, not less than 1-mm halo of inhibition for gram-negative bacteria, and no fungal growth, according to AATCC 174.

* + - * 1. Sustainable Design Requirements:

Retain "Sustainable Product Certification" subparagraph below if compliance with ANSI/NSF 140 is required. Verify availability of certification with manufacturers.

Sustainable Product Certification: [**Silver**] [**Gold**] [**Platinum**] level certification according to ANSI/NSF 140.

* + - * 1. Performance Characteristics:

Flammability Certification:

Radiant Panel Flooring Flammability Test: NFPA 253. Class I, Minimum 0.45 watts per sq centimeter.

Methenamine Tablet Test: DOC-FF-1-70 and ASTM D 2859. Meet the “Standards for the Surface Flammability of Carpets”.

Smoke Density Test: NFPA 258 and ASTM E 662. Specific optical density (DM) of 450 or less (flaming).

Appearance Retention Rating: Severe traffic, 3.5 minimum according to ASTM D7330.

Retain or revise "Critical Radiant Flux Classification" subparagraph below after verifying requirements of authorities having jurisdiction.

Critical Radiant Flux Classification: Not less than 0.45 W/sq. cm according to NFPA 253.

Dry Breaking Strength: Not less than 100 lbf according to ASTM D2646.

Tuft Bind: Not less than 12 lbf according to ASTM D1335.

Retain "Noise Reduction Coefficient (NRC)" subparagraph below if required. Revise if Impact Insulation Class is available and is required to suit Project.

Noise Reduction Coefficient (NRC): <**Insert NRC**> according to ASTM C423.

Colorfastness to Crocking: Not less than 4, wet and dry, according to AATCC 165.

First option in "Colorfastness to Light" subparagraph below is minimum recommended by the Carpet and Rug Institute for carpet for general use; second option is for carpet installed in schools.

Colorfastness to Light: Not less than 4 after 80 AFU (AATCC fading units) according to AATCC 16, Option E.

First option in "Electrostatic Propensity" subparagraph below is typical for commercial carpet for general use; second option may be available for greater static control.

Electrostatic Propensity: Less than 3.5 kV according to AATCC 134.

Insert other performance characteristics to suit Project, such as smoke density, texture retention, or additional colorfastness characteristics.

* + - 1. WOVEN CARPET <**Insert designation**>

Copy this article and re-edit for each product.

Insert drawing designation. Use these designations on Drawings to identify each product.

* + - * 1. [Manufacturers:](http://www.specagent.com/Lookup?ulid=9642) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Bloomsburg Carpet Industries, Inc](http://www.specagent.com/Lookup?uid=123457134629).

[Langhorne Carpet Company](http://www.specagent.com/Lookup?uid=123457134631).

[Mohawk Carpet, LLC; The Mohawk Group](http://www.specagent.com/Lookup?uid=123457134633).

[Prestige Mills, Inc](http://www.specagent.com/Lookup?uid=123457134635).

[Stanton Carpet Corporation](http://www.specagent.com/Lookup?uid=123457134638).

Generally retain "Color" and "Pattern" paragraphs below unless they are described by product designation inserted above.

* + - * 1. Color: [**As indicated by manufacturer's designations**] [**Match Director’s Representative's samples**] [**As selected by Director’s Representative from manufacturer's full range**].
        2. Pattern: [**Match Director’s Representative's samples**].
        3. Fiber Content: [**100 percent wool**] [**80 percent wool; 20 percent nylon 6, 6**] [**80 percent wool; 20 percent nylon 6**].
        4. Face Construction: [**Axminster**] [**Wilton**] [**Velvet**].
        5. Pile Characteristic: [**Level-loop**] [**Cut**] [**Cut-and-loop**] pile.
        6. Density: <**Insert oz./cu. yd.**>.

Test method in "Pile Thickness" paragraph below is applicable only to finished level-loop and cut-pile constructions with tuft heights less than 0.25 inch. See the Evaluations for an explanation of pile thickness, pile height, and tuft height.

* + - * 1. Pile Thickness: <**Insert inches**> for finished carpet[**according to ASTM D6859**].
        2. Rows: <**Insert number of lengthwise tufts per inch**>.
        3. Pitch: <**Insert number of rows in 27 inches**>.

Do not include weight of backings in "Face Weight" paragraph below.

* + - * 1. Face Weight: <**Insert oz./sq. yd.**>.
        2. Total Weight: <**Insert oz./sq. yd.**> for finished carpet.
        3. Backing: [**Manufacturer's standard.**] [**As follows:**]

Retain "Chain Warp," "Stuffer Warp," "Shot or Fill Weft," and "Backcoating" subparagraphs below if retaining second option in "Backing" paragraph above; consult manufacturer.

Chain Warp: <**Insert material**>.

Stuffer Warp: <**Insert material**>.

Shot or Fill Weft: <**Insert material**>.

Backcoating: <**Insert backcoating**>.

* + - * 1. Applied Treatments:

Retain "Applied Soil-Resistance Treatment" subparagraph below unless soil resistance is integral to carpet fiber or if soil resistance is not needed for Project; consult manufacturer.

Applied Soil-Resistance Treatment: [**Manufacturer's standard material**] <**Insert treatment**>.

Retain "Antimicrobial Treatment" subparagraph below unless antimicrobial treatment is integral to carpet or if antimicrobial treatment is not needed for Project; consult manufacturer.

Antimicrobial Treatment: [**Manufacturer's standard material**] <**Insert treatment**>.

Antimicrobial Activity: Not less than 2-mm halo of inhibition for gram-positive bacteria, not less than 1-mm halo of inhibition for gram-negative bacteria, and no fungal growth, according to AATCC 174.

* + - * 1. Sustainable Design Requirements:

Retain "Sustainable Product Certification" subparagraph below if compliance with ANSI/NSF 140 is required. Verify availability of certification with manufacturers.

Sustainable Product Certification: [**Silver**] [**Gold**] [**Platinum**] level certification according to ANSI/NSF 140.

* + - * 1. Performance Characteristics:

Appearance Retention Rating: [**Moderate traffic, 2.5**] [**Heavy traffic, 3.0**] [**Severe traffic, 3.5**] <**Insert number**> minimum according to ASTM D7330.

Retain or revise "Critical Radiant Flux Classification" subparagraph below after verifying requirements of authorities having jurisdiction.

Critical Radiant Flux Classification: Not less than [**0.45 W/sq. cm**] [**0.22 W/sq. cm**] according to NFPA 253.

Dry Breaking Strength: Not less than 100 lbf according to ASTM D2646.

Retain "Noise Reduction Coefficient (NRC)" subparagraph below if required. Revise if Impact Insulation Class is available and is required to suit Project.

Noise Reduction Coefficient (NRC): <**Insert NRC**> according to ASTM C423.

Colorfastness to Crocking: Not less than 4, wet and dry, according to AATCC 165.

First option in "Colorfastness to Light" subparagraph below is minimum recommended by the Carpet and Rug Institute for carpet for general use; second option is for carpet installed in schools.

Colorfastness to Light: Not less than 4 after [**40**] [**60**] <**Insert number**> AFU (AATCC fading units) according to AATCC 16, Option E.

First option in "Electrostatic Propensity" subparagraph below is typical for commercial carpet for general use; second option may be available for greater static control.

Electrostatic Propensity: Less than [**3.5**] [**2**] <**Insert number**> kV according to AATCC 134.

Insert other performance characteristics to suit Project, such as smoke density, texture retention, or additional colorfastness characteristics.

* + - 1. INSTALLATION ACCESSORIES

Delete paragraph below if carpet cushion is not required for the project. Carpet cushion is not used with most commercial installations typical of design and construction projects.

* + - * 1. Carpet Cushion: Sheet carpeting manufacturer’s recommended cushion material for substrates and specified sheet carpeting types.

Revise "Trowelable Leveling and Patching Compounds" paragraph below to suit Project.

* + - * 1. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by [**carpet**] [**carpet cushion**] manufacturer.

Revise "Adhesives" paragraph below to suit product(s) and Project. Retain second option for double-glue-down installations. Pressure-sensitive adhesives are commonly used for carpet tiles but can be used in carpet applications.

* + - * 1. Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended or provided by [**carpet manufacturer**] [**carpet and carpet cushion manufacturers**].

Retain "Tackless Carpet Stripping" paragraph below for stretch-in installations.

* + - * 1. Tackless Carpet Stripping: Water-resistant plywood, in strips as required to match cushion thickness and that comply with the Carpet and Rug Institute's CRI 104.
        2. Seam Adhesive: Hot-melt adhesive tape or similar product recommended by carpet manufacturer for sealing and taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.

Retain "Metal Edge/Transition Strips" paragraph below unless resilient edge strips for carpet tile are specified in Section 096513 "Resilient Base and Accessories." If retaining, revise to suit Project and indicate width requirements on Drawings.

* + - * 1. Metal Edge/Transition Strips: Extruded aluminum with [**mill**] <**Insert finish**> finish of profile and width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints.

1. EXECUTION
   * + 1. EXAMINATION
          1. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance.
          2. Examine carpet for type, color, pattern, and potential defects.
          3. Concrete Slabs: Verify that finishes comply with requirements specified in Section 033000 "Cast-in-Place Concrete" and that surfaces are free of cracks, ridges, depressions, scale, and foreign deposits.

Retain "Moisture Testing" subparagraph below if products are adhesively applied to concrete slabs. Excessive moisture vapor can cause failure of systems installed on slabs-on-grade. ASTM F1869 (anhydrous calcium chloride test) and ASTM F2170 (relative humidity test) both recommend one test per 1000 sq. ft., but no fewer than three tests per test area.

Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft., and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.

Retain "Anhydrous Calcium Chloride Test" or "Relative Humidity Test" subparagraph below, or both.

Option in "Anhydrous Calcium Chloride Test" subparagraph below is based on the Carpet and Rug Institute's CRI 104 and on floor-covering industry practices for adhered floor coverings to avoid adhesive failures.

Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.

The Carpet and Rug Institute's CRI 104 recommends a maximum 75 percent relative humidity, which is the maximum relative humidity generally recommended for adhered systems.

Relative Humidity Test: Using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.

Perform additional moisture tests recommended in writing by [**adhesive and carpet**] [**adhesive, carpet cushion, and carpet**] manufacturers. Proceed with installation only after substrates pass testing.

Retain the “Wood Subfloors” Article below for new wood subfloors.

* + - * 1. Wood Subfloors: Verify the following:

Underlayment over subfloor complies with requirements specified in Section 061600 "Sheathing."

Underlayment surface is free of irregularities and substances that may interfere with adhesive bond or show through surface.

Sheet carpeting is typically not installed over access flooring. If installation over access flooring is required, insert examination requirements here.

* + - * 1. Proceed with installation only after unsatisfactory conditions have been corrected.
      1. PREPARATION
         1. General: Comply with the Carpet and Rug Institute's CRI 104 and with carpet manufacturer's written installation instructions for preparing substrates.

Retain or revise first paragraph below to suit product and Project. Dimensions below are recommended by the Carpet and Rug Institute.

* + - * 1. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch wide or wider, and protrusions more than 1/32 inch, unless more stringent requirements are required by manufacturer's written instructions.
        2. Concrete Substrates: Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by [**adhesive and carpet**] [**adhesive, carpet, and carpet cushion**] manufacturers.

Sheet carpeting is typically not installed over access flooring. If installation over access flooring is required, insert preparation requirements here.

* + - * 1. Broom and vacuum clean substrates to be covered immediately before installing carpet.

Retain the “Existing Wood Subfloors” Article below for existing wood subfloors.

* + - * 1. Existing Wood Subfloors:

Nail loose and cracked boards.

Patch cracks and depressions with floor filler.

Remove wax using liquid stripper or sander.

Areas to Receive Direct Glue-Down Sheet Carpeting: Seal substrate with wood floor primer.

Retain “Existing Resilient Sheet Flooring” Article below for existing resilient sheet flooring substrates.

* + - * 1. Existing Resilient Sheet Flooring: Remove existing resilient sheet flooring.

Retain “Existing Resilient Tile Flooring” Article below for existing resilient tile flooring substrates.

* + - * 1. Existing Resilient Tile Flooring:

Remove wax using liquid stripper or mechanical removal.

Remove loose tiles and replace or patch as necessary.

* + - 1. INSTALLATION
         1. Comply with the Carpet and Rug Institute's CRI 104 and [**carpet manufacturer's**] [**carpet and carpet cushion manufacturers'**] written installation instructions for the following:

If retaining more than one subparagraph below, indicate locations of each method on Drawings or in schedules.

Direct-glue-down installation.

Double-glue-down installation.

Carpet with attached-cushion installation.

Preapplied adhesive installation.

Hook-and-loop installation.

Stretch-in installation.

Stair installation.

* + - * 1. Comply with carpet manufacturer's written instructions and Shop Drawings for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under the door in closed position.

Retain "Stretch-in Carpet Installation" subparagraph below if applicable.

Stretch-in Carpet Installation: Install carpet cushion seams at 90-degree angle with carpet seams.

Retain first paragraph below if carpet has pattern.

Match sheet carpeting pattern at seams.

Retain first paragraph below if carpet has pattern.

* + - * 1. Install [**pattern parallel to walls and borders**] [**as indicated on Drawings**].
        2. Seaming: Treat edges cut for seaming with seam sealer. Apply the sealer along the edge of the sheet carpeting at the point where the face yarn goes into the back. Immediately remove excess sealer from face of pile with cleaning solvent recommended by seam sealer manufacturer.
        3. Install borders with mitered corner seams.
        4. Do not bridge building expansion joints with carpet.
        5. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.
        6. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
        7. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on carpet as marked on subfloor. Use nonpermanent, nonstaining marking device.
      1. CLEANING AND PROTECTION
         1. Perform the following operations immediately after installing carpet:

Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.

Remove yarns that protrude from carpet surface.

Vacuum carpet using commercial machine with face-beater element.

* + - * 1. Protect installed carpet to comply with the Carpet and Rug Institute's CRI 104.

Retain first option in paragraph below if carpet cushion is required for stretch-in applications. Retain second option for glue-down applications and third for double-glue-down applications.

* + - * 1. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods recommended in writing by carpet manufacturer [**and carpet cushion manufacturer**] [**and carpet adhesive manufacturer**] [**and carpet cushion and adhesive manufacturers**].

END OF SECTION 096816