

1 General

1.1 **SUMMARY**

.1 Section Includes

- .1 Labour, Products, equipment and services necessary to complete the Work of this section.
- .2 Work of this section includes but not limited to the following:
  - .1 Supply and Install Carpet tiles.
  - .2 Supply and Install accessories to complete installation

1.2 **REFERENCES**

.1 Conform to the latest edition of the following:

- .1 ASTM E648 - Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
- .2 CAN/ULC S102.2-M - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
- .3 CGSB 4-GP-129 - Carpets, Commercial
- .4 NFPA-99 - National Fire Protection Association, Health Care Facilities

1.3 **SUBMITTALS**

.1 Samples

- .1 Submit in accordance with Section 01 33 00.
- .2 Submit two 300 mm x 300 mm samples of each type carpet specified.

.2 Shop Drawings

- .1 Submit in accordance with Section 01 33 00.
- .2 Illustrate carpeted floor pile direction, patten of installation and seaming diagram (location and length).

.3 Product Data:

- .1 Submit manufacturer's literature for flooring describing performance, sizes, pattern and compliance with requirements in this specifications.
- .2 Submit adhesive product data confirming specified requirement.

1.4 **DELIVERY, STORAGE AND HANDLING**

- .1 Deliver materials in original, factory sealed rolls, containers and wrappers. Handle and store and prevent damage, contamination and deterioration to Work of this section.
- .2 Clearly mark carpet with register number and dye lot on each bale.

1.5 **PROJECT/SITE ENVIRONMENTAL REQUIREMENTS**

- .1 Moisture: Ensure substrate is within moisture limits prescribed by manufacturer.
- .2 Temperature: Maintain ambient temperature of not less than 18°C (64.4°F) from seventy-two hours before installation to at least seventy-two hours after completion of work.
- .3 Relative humidity: Maintain relative humidity between 10% and 65% RH for forty-eight hours before, during and forty-eight hours after installation.
- .4 Safety: Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials.
- .5 Ventilation: Provide continuous ventilation during and after carpet application. Run ventilation system twenty-four hours per day during installation; provide continuous ventilation for seven days after completion of carpet installation.

1.6 **EXTRA STOCK**

- .1 Upon completion of the Work, deliver a minimum of 10% (to the nearest full carton) of total amount of each type of tile as required for Owner's future maintenance purpose.
- .2 Ensure such tiles are from same production run as tiles installed, and boxes are clearly labelled.

1.7 **WARRANTY**

- .1 Warrant Work of this section against defects and deficiencies for the periods stated below from date Work is certified as substantially performed in accordance with the Contract.
  - .1 Manufacturer's Warranty: Ten years against unravelling, wear, colour fading and deterioration of backing materials, including materials and workmanship detrimental to appearance or performance.
  - .2 Installer's Warranty: Two years against loose fitting, breaking of seams or breaking away from sub-base.
- .2 Promptly make good defects and deficiencies which become apparent within the Warranty Period by replacing defective Work satisfactory to the Consultant and at no expense to the Owner.

2 **Products**

2.1 **MATERIALS**

- .1 Carpet Tile (CPT-1 to CPT-45):
  - .1 ~~Dual tone with~~Provide with pressure sensitive adhesive with releasable bonding properties to allow for easy carpet tile removal or replacement.
  - .2 Refer to Schedule 09 06 00 Finishes Schedule for manufacturer, colour, size, installation method and location.

2.2 **ACCESSORIES**

- .1 Sub-floor filler: White premix latex floor leveller by Projex.
- .2 Adhesive: Solvent-free, of type as recommended by carpet manufacturer.
- .3 Base gripper: Type as recommended by carpet manufacturer.

- .4 Multi-purpose latex sealer: for sealing carpet edge as recommended by carpet manufacturer.
- .5 Transition Strips (TS-1 and TS-2): Refer to Finishes Schedule for approved type, supplier, colour, and locations.

## 2.3 TESTS

- .1 Carpet shall have been tested to, and passed the following test requirements:
  - .1 Flooring radiant panel test (ASTM E-648): mean average critical radiant flux of 0.45 w/sq.cm or higher.
  - .2 Flammability: The following aspect shall comply with requirements of CGSB 4-GP-129 and requirements of authorities having jurisdiction, when tested to CAN/ULC S102.2:
    - .1 Flame spread
    - .2 Fuel contribution
    - .3 Smoke developed
  - .3 Electrostatic propensity (AATCC 134): Not more than 2 kV.
  - .4 Surface resistivity (NFPA 99): Not more than  $2 \text{ kV} \times 10^{10} \text{ ohms}$ .
  - .5 Seconds (NFPA 99): 5000 - 500 V not more than 0.5; 5000 - 0 V not more than 2.0 V.

## 3 Execution

### 3.1 PREPARATION

- .1 Inspect substrate surfaces floor substrate is suitable to receive the floor finish material. Report any unsatisfactory conditions to the Consultant. Starting work shall imply acceptance of surfaces.
- .2 Ensure floors are dry and free from dust, dirt, oil, paint, grease, sealers and and other contaminants.
- .3 Repair depressions and cracks with latex base compound. Sweep and vacuum surfaces before laying carpet.
- .4 Grind ridges and high spots smooth and level.

### 3.2 INSTALLATION - GENERAL

- .1 Install carpet tiles in accordance with manufacturer's written directions.
- .2 Apply adhesive by brush or roller. Do not spray.
- .3 Anchor securely around projections and contours.

### 3.3 INSTALLATION

- .1 Install in accordance with manufacturer's printed directions.
- .2 Commence installation after other trades have completed their work in areas to receive carpet Work.

- .3 Lay carpet with pile in same direction throughout a given floor area. A change in direction of pile will only be permitted in visually isolated areas which cannot be viewed simultaneously with other carpeted areas of same selection.
- .4 Lay carpet by direct glue-down system according to printed instruction procedures of manufacturer of carpet being installed. Lay carpet tile without evidence of seams.
- .5 Lay carpet with adhesive. Wait for glue to set before stretching carpet.
- .6 Where carpet meets ceramic tile, double glue carpet 600 mm from the tile.
- .7 Cut carpet to fit accurately around perimeter of room, into all recesses, and around fixtures.
- .8 Keep seams to a minimum. When making seams, overlap the carpet by at least one row of tufts. Position seams so that where possible:
  - .1 The seams run the length of the area.
  - .2 Main traffic runs along rather than across the seam.
  - .3 Incident light does not strike across the seam.
  - .4 Avoid seams perpendicular to doorway openings.
  - .5 Seams are away from areas subject to pivoting traffic.
- .9 Position edges of carpet in door reveals directly under door bottom.
- .10 Extend floor carpet up at walls to specified height and into cap strip to form a coved carpet base.
- .11 Roll down carpet into adhesive bed using 45 kg roller. Roll in both directions. Do not over-roll.
- .12 Make cut-outs for all floor mounted items where they occur on carpet. Keep holes to an absolute minimum diameter to allow services involved to pass through, and diameter of holes shall be such that trim will completely hide hole when installed. Cooperate and coordinate with electrical trade to ensure correct location of outlets is obtained.
- .13 Glue carpet to access box covers. Use glue recommended by carpet manufacturer.
- .14 Install transition strip at exposed carpet edges and where carpet terminates flush with other surfaces, or where transition is made to another material. Where carpet meets tile, leave carpet maximum 1.6 mm higher than the tile.
- .15 Ensure entire carpet installation is level, flush across seams, continuous in texture, patterns and colour. Ensure joints are invisible and surface is free of wrinkles, bubbles and other defects.

### 3.4 **CLEANING**

- .1 On completion, remove dirt, carpet scraps, etc., from surfaces of carpet.
- .2 Clean carpet with beater-type vacuum cleaner.
- .3 Remove any soiled spots or excessive adhesive with spot remover as recommended by carpet manufacturer.
- .4 Remove loose pieces of face yarn by cutting with sharp scissors.

- .5 Protect carpet areas with 6 mil polyethylene sheets. Tape joints to prevent shifting.
- .6 On completion, permit Owner's Representative to inspect waste carpet scraps for possible retention for future repairs before removal from site. This is in addition to maintenance materials specified herein.

3.5 **PROTECTION**

- .1 Protect carpet from traffic for 48 hours minimum after installation and from damage
- .2 Protec from damage for the during construction.
- .3 Repair damage to materials cause by carpet installation.

End of Section

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