

1.0 **GENERAL**

1.1 **Related Work and UBC Guidelines**

- .1 *Section 01 74 00 Cleaning and Waste Management for final cleaning and waste management procedures.*
- .2 *Section 03 33 00 Architectural Concrete*
- .3 Section 09 00 10 Finishes – General Requirements
- .4 *Section 10 00 10 Special Room Requirements*
- .5 *UBC LEED Implementation Guide*
- .6 UBC Learning Space Guidelines

1.2 **Related External Documents**

- 1. *Latest edition of the British Columbia Building Code (BCBC) for provision of assistive listening devices in classrooms, auditoria and meeting rooms over 100sqm and where such devices are to be installed under new carpet flooring.*
- 2. *Latest edition of the National Floor Covering Association of Canada (NFCA) - Floor Covering Reference Manual.*
- 3. CCI Canadian Carpet Institute Supplement.
- 4. CAN/CGSB-4.155: Flammability of Soft Floor Coverings.
- 5. CAN/ULC-S102.2: Standard Method of Test for Surface Burning.

1.3 **Description**

- .1 *Work in this section includes* carpet tile, direct glue-down carpet and related accessories.

1.4 **Coordination**

- .1 *The Guidelines apply to all work completed within buildings on both UBC Vancouver and UBC Okanagan campuses unless stated otherwise.*
- .2 *In instances where conflicts are found between these guidelines and provincial regulations or codes, please notify the UBCV Technical Review Team Architect or UBCO Facilities Management.*
- .3 *These guidelines are intended to be read by design consultants and their content integrated into construction drawings and specifications. Construction documents are not to reference the technical guidelines directly.*
- .4 *The Coordinating Registered Professional (CRP) is required to coordinate these requirements with other disciplines.*

1.5 **Submittals**

- .1 Before Start of Work (*only for Construction Office Projects*)
 - .1 Manufacturer's product data verifying compliance with specification requirements for carpet types and accessories specified.
 - .2 Manufacturer's full range of carpet colors and patterns available for specified carpet types for review and selection.
 - .3 Two 400 mm (16") square samples of each type and of each color of carpet to be used. For carpet with pattern repeat, submit a minimum of three repeats of the pattern.
 - .4 Manufacturer's product data and material / color range of carpet accessories for review and selection.
- .2 *At Handover*
 - .1 Manufacturer's maintenance data and cleaning instructions for each type of carpet installed.

- .2 Turn over to the UBC Project Manager all carpet pieces remaining at job completion. No carpet scraps shall be removed from the site without the UBC Project Manager's written approval.
- .3 Contractor to ensure that carpet installations are protected from traffic damage with suitable covering (such as un-dyed untreated paper) until floor *finish* has been *handed* over and accepted by the *Facilities Custodial Services Operations Manager*. Typically, also provide two large sections of surplus carpet cuttings and place at entry doors so that they can be used as doormats by other trade personnel entering the carpeted area.
- .4 *Warranties as noted in 1.6.3.*

1.6 Quality Control and Assurance

- .1 Quality Assurance
 - .1 Conform to NFCA Specification Standards Manual requirements for all products and installation, and all manufacturers' written instructions.
 - .2 Flooring contractors to be a member in good standing with the National Floor Covering Association of Canada (NFCA).
 - .3 Site inspection required prior to installation of flooring material.
- .2 Quality Control
 - .1 Hygrometer moisture tests on concrete shall not exceed 65% per CCI Manual, or stricter manufacturer requirements.
 - .2 Test new and suspect concrete floors for alkalinity and neutralize in accordance with NFCA/CCI recommendations. *When installing carpet flooring on concrete*, carpet manufacturer's representative to review carpet seaming and installation to ensure conformance with guarantee requirements and submit a written report to the Consultant and UBC Project Manager confirming same.
- .3 Warranties
 - .1 In addition to any other required warranties, provide the following written minimum guarantees or warranties to commence at Date of Substantial Performance, and details of guarantees or warranties that exceed noted minimum requirements.
 - .2 By Fiber Manufacturer
 - .1 Ten (10) year abrasive wear guarantee that carpet fiber will provide specified level of appearance, subject to proper care and maintenance.
 - .2 Ten (10) year color fastness to light.
 - .3 Ten (10) year color fastness to atmospheric contaminants.
 - .3 By Carpet Manufacturer
 - .1 Ten (10) year against unraveling, zippering, and delimitation / deterioration of backing not to exclude wet or steam cleaning methods.
 - .4 By Carpet Installer
 - .1 One (1) year that all seams will remain sound and tight and carpet will not break away from adhesive.
 - .5 By Adhesive Manufacturer
 - .1 Ten (10) year, including labor and material, against adhesive failure.

2.0 DESIGN AND PERFORMANCE REQUIREMENTS

2.1 *Design Requirements*

- .1 Carpet tiles are preferred for their ease of installation *and ease of replacement*.
- .2 Carpet coloration *to be such that it requires* minimal maintenance and cleaning.
- .3 Carpet *specified* shall be first quality commercial grade carpet for heavy traffic usage as manufactured by a nationally recognized manufacturer.
- .4 Cross seams shall be avoided and will only be permitted where made unavoidable by carpet width or roll length. Avoid seams at doors and pivot points.

- .5 Flammability *as per* CAN/ULC-S102.2 shall be Flame Spread Rating of 300; Smoke Developed Classification of 500.
- .6 Environmental
 - .1 Carpet to be 14001 certified or equal, for recycled content.
 - .2 Source
 - .1 ISO 9002 quality audit certified.

2.2 Performance Requirements

- .1 Indoor Air Quality
 - .1 *Comply with the UBC LEED Implementation Guidelines for Indoor Air Quality requirements.*
- .2 Contractor to ensure that glued carpets are protected against damage from rolling loads for 48 hours after installation and protected by covering with plywood or hardboard where rolling traffic will occur (i.e. moving of equipment, etc.).
- .3 *Soil and stain protection:*
 - .1 Soil and stain protection shall be an integral lifelong stain proofing, i.e., inherent in or bonded to nylon fiber. Topical treatments are not acceptable.
- .4 Static control shall be *provided where needed*.
- .5 Anti-microbial protection shall be permanent treatment to prevent bacteria, fungi and bacteria growth lasting life of carpet. *Do not provide topical treatment.*
- .6 Disposal
 - .1 Carpet face must be 100% recyclable.
 - .2 Submit manufacturer's recycling program for each carpet type including percentage of recycled content contained in each product.

3.0 MATERIALS

3.1 Product Selection

- .1 Carpet construction shall meet the following minimum requirements:
 - .1 Construction shall be level loop or textured level loop.
 - .2 Dye Method :
 - .1 Solution dyed or other method providing permanent stain resistance (i.e., inherent in or bonded to nylon fiber).
 - .3 Plies shall be a minimum of 3.
 - .4 Pile height shall be 5.0 mm (0.197") maximum; 4.0 mm (0.144") minimum.
 - .5 Tuft Bind shall be a minimum 12 pounds, wet or dry.
 - .6 Gauge shall be minimum 39.4 col/10 cm (1/10") or better (a looser gauge may be allowed if Kilotex rating is sufficiently high).
 - .7 Stitch count shall be a minimum 40 / 10 cm (10 per inch).
 - .8 *Carpet yarn shall be* 100% first quality, type 6/6 or 6 bulk continuous filament (BCF) nylon.
 - .9 Yarn face weight shall be a minimum 950 gm/m² (28 oz/sq.yd), or better (a lesser weight may be allowed with a Type 2 or 3 backing system).
 - .10 Pile density factor (ASTM D418) shall be a minimum 12 Kilotex/cm².
- .2 Adhesives
 - .1 Premium grade, low VOC (solvent-free), waterproof type for direct glue down carpet application as recommended by carpet manufacturer for backing system and substrate / grade level and usage conditions, complete with guarantee against adhesive bond failure. Spread rates stipulated by the manufacturer are to be strictly adhered to.

END OF SECTION