



Date Issued: September 14, 2009  
Subject : Section 09680 - Carpet

Reference: Independent Living BC Non-Profit Housing Design  
and Construction Standards, Revised October 2006  
Provincial Homelessness Initiative Design Guidelines  
& Construction Standards, October 2006

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**SUBJECT:**

Revisions to BC Housing's Carpet standard as described in Section 5 Carpet, Section 09680 for Independent Living BC Non-Provincial Housing Design and Construction Standards, Revised October 2006, and the Provincial Homelessness Initiative Design Guidelines and Construction Standards, October 2006.

**PURPOSE:**

Provide moisture impervious polyurethane secondary backing to wheelchair accessible suites and dense moisture impervious cushion backing to all other tenant suites for Independent Living BC Non-Provincial Housing Design and Construction Standards where the cushion or the moisture impervious backing should be chemically and mechanically bonded with the carpet to keep the spills at the surface for effective cleanup and to increase comfort and maintain the carpet's original appearance by absorbing traffic.

Considering end users, cost effectiveness and the performance, carpet blended with nylon fibre for tenant suites for Independent Living BC Non-Provincial Housing Design and Construction Standards has been replaced with 100% BCF olefin fiber.

Provide more illustrated installation and execution criterion for both Independent Living BC Non-Provincial Housing Design and Construction Standards and Provincial Homelessness Initiative Design Guidelines and Construction Standards.

**DESCRIPTION:**

**ILBC Standard, Section 5 Resilient Flooring**

Delete Section 5 Carpet, Section 09680, page 182-185 in its entirety and replace with:  
Carpet, Section 09680, 3 pages

**PHI Standard, Section 5 Resilient Flooring**

Delete Section 5 Carpet, Section 09680, page 156-157 in its entirety and replace with:  
Carpet, Section 09680, 3 pages

**END**

Technical Bulletin No 27-2009

**Carpet**  
**Section 09680**  
**(ILBC)**

For

BC Housing New Construction Projects

## CARPET

### 1.0 General

- Workmanship and materials must conform to the *Specification Standards Manual* as published by the National Floor Covering Association, latest edition.
- Low pile, level-loop carpet in common areas. Low pile, level loop carpet with high – density moisture impervious secondary backing installed in all suites. All installations to be glued-down.
- Provide wood base and quarter round to all areas finished in carpet.
- Provide trims and accessories that will not pose a hazard to persons with mobility aids.
- Submit samples of all carpet, accessories and seam layout to Consultant and Owner for review prior to installation.
- Provide a minimum of five percent of each type and colour of carpet supplied, for the Owner's maintenance of floors. Neatly package, mark and leave on site in a location as directed by the Consultant.

### 2.0 Products

- Carpet For Suites and Common Areas: 1830 mm (6'-0"), 1980 mm (6'6") or 3660 mm (12'0") wide broadloom from Kraus Montreux 28, Shaw Langan II 26 or approved alternative
  1. **Pile Fibre:** 100% Olefin
  2. **Construction:** Interlocking level loop
  3. **Pile Weight:** Minimum 882 g/m<sup>2</sup> (26 oz/yd<sup>2</sup>).
  4. **Pile Height:** 4.5mm - 5.0 mm (0.177" - 0.19")
  5. **Machine Gauge:** 39.4 rows/10cm (1/10)
  6. **Stitch Count:** Minimum 46.1 stitches/10cm (11.7 spi)
  7. **Density Factor:** Minimum 10.5 kilotex/cm<sup>2</sup>
  8. **Yarn Construction:** 100% bulked continuous filament

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9. **Pre-finish Treatment:** Hot water scoured and extracted
10. **Colouration:** Solution dyed
11. **Ravel Test Performance:** Must prevent ravelling when tested to PTL-CR (center) and PTL-ER (edge)
12. **Flammability:** CGSB 4-GP-129 or minimum Class II under ASTM E-648
13. **Static Generation:** Maximum 3.5kV under AATCC Method 134
14. **Light Fastness:** L5
15. **Resistance to Change on Wet Cleaning:** Grey Scale 5 to AATCC 16E
16. **Indoor Air Quality:** CCI/CRI Green Label Plus requirement
17. **Primary Backing:** Woven synthetic
18. **Secondary Backing:**
  - **Common Areas:**  
Kraus Tufbac-Woven Synthetic, Shaw Stalok Pattern or approved alternative directly glue-down
  - **Wheelchair Accessible Suites:**  
Kraus Spillguard, Shaw Stalok Laminate or approved alternative with moisture impervious underlay. If cushion applied thickness should not be more than 2.38 mm (3/32") with minimum density 288.33 kg/m<sup>3</sup> (18lb/ft<sup>3</sup>) polyurethane backing chemically and mechanically bonded to the carpet. Cushion seams must be at right angle to the carpet seams or offset at least 6".
  - **Other Tenant Suites:**  
Kraus Spillguard, Shaw Stalok Cushion 18 or approved alternative with moisture impervious cushion of minimum density 288.33 kg/m<sup>3</sup> (18lb/ft<sup>3</sup>) polyurethane backing chemically and mechanically bonded to the carpet. Cushion seams must be at right angle to the carpet seams or offset at least 6".
19. **Warranty Classifications:**
  - Life time commercial wear warranty
  - Life time zipper-lock and no edge ravel warranty
  - Life time stain free warranty
  - Life time anti-shock warranty
20. **Installation:** Direct glue-down

### 3.0 Execution

- Carpet must be installed in accordance with Carpet & Rug Institute standards CRI-104 (commercial carpet) and CRI-105 (residential carpet).
- It is recommended to vacuum the existing carpet before removal and subfloor prior to install the new carpet.
- Subfloor cracks, holes and flooring irregularities must be adequately repaired to ensure a smooth, finished appearance and to prevent accelerated wear.
- To minimize wrinkling and bucking and to facilitate installation, carpet should be unrolled and allow relaxing for a minimum of 24 hours at temperature between 18-35°C.
- Lay all carpet in the same direction. All pile must have the same directional fall and run as that of adjacent pieces.
- Seams should be kept to a minimum and positioned as recommended:
  - Do not place seams in heavy traffic areas.
  - All seams must be sealed with an appropriate seam adhesive.
  - Seams are not permitted perpendicular to doorways and entries. Where seams occur at corridor change of direction, follow wall line parallel to carpet direction.
  - Natural light should not strike across the seam.
- Cut and fit carpet for floor outlets, cover plates, and other projections. Cut openings neat, to a minimum size, and thoroughly secured around all edges. Cut carpet evenly along walls and butt tight with no raw edges showing.
- Install edge strips at all intersections of carpeting with finish floors of other materials. Edge strips shall provide a smooth transition to avoid tripping hazard. Round metal edges should be avoided.
- Inspect carpet closely and remove any soiled spots or excess adhesive with the proper spot remover or solvent. Remove all loose pieces of face yarn with sharp scissors.
- For cushion backing use premium multi-purpose or releasable adhesive.
- Floor traffic should be avoided for a min of 24 hrs to allow the adhesive to adequately cure and avoid rolling traffic for a min of 48 hrs. Provide protection against damage to the carpet by closing off the area or room to all unauthorized traffic or by covering the carpet with protective covering. Exposure to water from cleaning and other sources should be restricted for a min of 30 days.

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- Vacuum and clean the carpet just prior to Substantial Performance to the satisfaction of the Consultant.

END OF SECTION

Technical Bulletin No 27-2009

**Carpet**  
**Section 09680**  
**(PHI)**

For

BC Housing New Construction Projects

## CARPET

### 1.0 General

- Workmanship and materials must conform to the *Specification Standards Manual* as published by the National Floor Covering Association, latest edition.
- Low pile, level-loop carpet with high –density, moisture impervious secondary backing installed in office areas. All installations to be glued-down.
- Provide wood base and quarter round to all areas finished in carpet.
- Provide trims and accessories that will not pose a hazard to persons with mobility aids.
- Submit samples of all carpet, accessories and seam layout to Consultant and Owner for review prior to installation.
- Provide a minimum of five percent of each type and colour of carpet supplied, for the Owner's maintenance of floors. Neatly package, mark and leave on site in a location as directed by the Consultant.

### 2.0 Products

- Carpet For Office Areas: 1830 mm (6'-0"), 1980 mm (6'6") or 3660 mm (12'-0") wide broadloom from Kraus Montreux 28, Shaw Langan II 26 or approved alternative
  1. **Pile Fibre:** 100% Olefin
  2. **Construction:** Interlocking level loop
  3. **Pile Weight:** Minimum 882 g/m<sup>2</sup> (26 oz/yd<sup>2</sup>).
  4. **Pile Height:** 4.5mm - 5.0 mm (0.177" - 0.19")
  5. **Machine Gauge:** 39.4 rows/10cm (1/10)
  6. **Stitch Count:** Minimum 46.1 stitches/10cm (11.7 spi)
  7. **Density Factor:** Minimum 10.5 kilotex/cm<sup>2</sup>
  8. **Yarn Construction:** 100% bulked continuous filament
  9. **Pre-finish Treatment:** Hot water scoured and extracted

10. **Colouration:** Solution dyed
11. **Ravel Test Performance:** Must prevent ravelling when tested to PTL-CR (center) and PTL-ER (edge)
12. **Flammability:** CGSB 4-GP-129 or minimum Class II under ASTM E-648
13. **Static Generation:** Maximum 3.5kV under AATCC Method 134
14. **Light Fastness:** L5
15. **Resistance to Change on Wet Cleaning:** Grey Scale 5 to AATCC 16E
16. **Indoor Air Quality:** CCI/CRI Green Label Plus requirement
17. **Primary Backing:** Woven synthetic
18. **Secondary Backing:** Kraus Tufbac-Woven Synthetic, Shaw Stalok Pattern or approved alternative directly glue-down
19. **Warranty Classifications:**
  - Life time commercial wear warranty
  - Life time zipper-lock and no edge ravel warranty
  - Life time stain free warranty
  - Life time anti-shock warranty
20. **Installation:** Direct glue-down

### 3.0 Execution

- Carpet must be installed in accordance with Carpet & Rug Institute standards CRI-104 (commercial carpet) and CRI-105 (residential carpet).
- It is recommended to vacuum the existing carpet before removal and subfloor prior to install the new carpet.
- Subfloor cracks, holes and flooring irregularities must be adequately repaired to ensure a smooth, finished appearance and to prevent accelerated wear.
- To minimize wrinkling and bucking and to facilitate installation, carpet should be unrolled and allow relaxing for a minimum of 24 hours at temperature between 18-35°C.
- Lay all carpet in the same direction. All pile must have the same directional fall and run as that of adjacent pieces.

- Seams should be kept to a minimum and positioned as recommended:
  - Do not place seams in heavy traffic areas.
  - All seams must be sealed with an appropriate seam adhesive.
  - Seams are not permitted perpendicular to doorways.
  - Natural light should not strike across the seam.
  
- Cut and fit carpet for floor outlets, cover plates, and other projections. Cut openings neat, to a minimum size, and thoroughly secured around all edges. Cut carpet evenly along walls and butt tight with no raw edges showing.
  
- Install edge strips at all intersections of carpeting with finish floors of other materials. Edge strips shall provide a smooth transition to avoid tripping hazard. Round metal edges should be avoided.
  
- Inspect carpet closely and remove any soiled spots or excess adhesive with the proper spot remover or solvent. Remove all loose pieces of face yarn with sharp scissors.
  
- Floor traffic should be avoided for a min of 24 hrs to allow the adhesive to adequately cure and avoid rolling traffic for a min of 48 hrs. Provide protection against damage to the carpet by closing off the area or room to all unauthorized traffic or by covering the carpet with protective covering. Exposure to water from cleaning and other sources should be restricted for a min of 30 days.
  
- Vacuum and clean the carpet just prior to Substantial Performance to the satisfaction of the Consultant.

END OF SECTION