

**Suggested Antron® nylon type 6,6 specification for areas with Severe traffic and soiling where spills are likely and sunlight/environmental contaminant exposure will be high - Tile**  
[ ] indicates an option for use

## PART TWO PRODUCTS

### 2.1 MATERIALS

**2.1.1 Carpet:** Throughout this contract shall be of the same type and manufacture. Carpeting shall be:

**2.1.1.1 Yarn:** 100% Antron® nylon type 6,6 bulk continuous filament (BCF) nylon. Four-hole hollow filament fiber shape for optimum soil release and hiding capability. Fiber shape to have maximum Modification Ratio of 1.5 for soil release and texture retention. Fiber identification per AATCC TM 20. **[No substitutions allowed].**

**2.1.1.2 Static Control:** By permanent means (i.e. antistatic filaments) and without chemical treatment. Static generation below 3.5 kilovolts using AATCC TM 134 [Electrostatic Propensity (Step)].

**2.1.1.3 Construction:** Tufted or woven, level or multi-level loop pile with maximum pile height variation of 1/32 inch.

**2.1.1.4 Dye Method:** 100% solution dyed or combination of solution dyed with up to 33% of Antron® Legacy™ space dyed product.

**2.1.1.5 Pile Weight:** Minimum 17 oz/yd<sup>2</sup>, ASTM D5848 test method.

**2.1.1.6 Primary Backing:** Tufted - 100% woven or non-woven synthetic.

**2.1.1.7 Secondary Backing:** High performance, moisture impermeable modular backing system. Manufacturer representative to supply detailed information on performance properties.

**2.1.1.8 Resistance to Delamination:** ASTM D3936 test method: minimum 3.5 lbs/inch, no delamination.

**2.1.1.9 Tuft Bind:** ASTM D1335 test method. Must resist a minimum of 10 lbs.-force, loop pile only.

**2.1.1.10 Dimensional stability:** Aachen method/ ISO 2551. Maximum Change +/- 0.20%.

**2.1.1.11 Flammability:**

**Critical Radiant Flux:** ASTM E648 test method, glue down. Must meet NFPA Class I (>0.45 watts/cm<sup>2</sup>) and/or federal, state or local requirements.

**Smoke Density:** ASTM E662 test method, rating to be less than 450 Dm in flaming mode (or to State Code).

**Federal Flammability standard:** CPSC FF1-70 (Methenamine Pill test, ASTM D2859 test method). Must pass.

**2.1.1.12 Colorfastness to Light:** SDN only: AATCC TM 16 part 3 to 200 AFU; minimum rating of 3-4 using AATCC Gray Scale for Color Change.

**2.1.1.13 Colorfastness to atmospheric contaminants:** SDN only: AATCC TM 164 (fade resistance to oxides of nitrogen) and AATCC TM 129 (fade resistance to ozone) for 2 cycles; minimum rating of 3 using AATCC Gray Scale for Color Change.

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**2.1.1.14 Colorfastness to crocking:** AATCC TM 165, minimum rating of 4 using the AATCC Chromatic Transference Scale both wet and dry.

**2.1.1.15 Stain Resistance:** AATCC TM 175 Stain Resistance test; minimum rating of 8 using AATCC Red 40 Stain Scale.

If SDN, AATCC TM 171 (HWE) for 2 cleanings, followed by AATCC TM 175 Stain Resistance test; minimum rating of 8 using AATCC Red 40 Stain Scale.

**2.1.1.16 Soil Resistance:** Antron® Lumena DNA™ with permanent, built-in soil protection or DuraTech® soil resistance treatment on carpet with Antron® Lumena™ or Antron® Legacy™ fiber.

**2.1.1.17 Coloration/Patterning:** Minimum 5 color hues. Recommended: Hue values to be in medium to medium-dark range with random or complex patterning for optimum soil hiding capability. Higher soiling risk with gold and yellow colorways.

**2.1.1.18 Texture Retention Rating:** Vettermann Drum test method, ASTM D5417, for 22,000 cycles with a minimum rating of a 3.0 for severe traffic. Rating using the appropriate Commercial Reference Scale for the construction per ASTM D7330 test method.

**2.1.1.19 Recycling:**

Used Carpet: Remove carpet and recycle regardless of manufacturer, fiber type or construction. Reclamation Agency and Carpet Remover shall certify in writing that Used Carpet was removed and recycled. Landfills are not an option.

The specifier reserves the right to choose the appropriate product, based on weighted evaluation.

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