



ALBUQUERQUE PUBLIC SCHOOLS

Department of Facility Design & Construction
Department of Maintenance & Operations

MODULAR CARPET TILE STANDARDS

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APS Modular Carpet Tile Specification

PART 1 GENERAL

1.1 Description of Work

- .1 Provide and install all modular carpet and installation work as required by contract documents and their specifications.

1.2 Quality Assurance

. 1 Manufacturer –

- .1 The carpet manufacturer shall have no less than fifteen years of production experience with modular carpet similar to type specified. Published product literature of carpet manufacturer shall clearly indicate compliance of products with requirements of this section.
- .2 Commitment to quality - carpet manufacturer shall provide verification of its registration to the ISO 9001/9002 Quality Management System.
- .3 Commitment to Environmental sustainability - carpet manufacturer shall demonstrate environmental responsibility through programs of source reduction, recycling, reuse, water conservation and conservation of raw material usage; and registration in the ISO 14001 Environmental Management System.
- .4 Response to RFQ shall be accompanied by a letter confirming compliance signed off by an Officer of the Company.
- .5 All products offered by the manufacturer meeting environmental standards provided in this specification shall be “standard running line” products and shall be available with no minimum order (single box availability) and require no overage. Manufacturer shall guarantee availability of post-consumer content product in fiber and backing, individually.

. 2 Installation Provider –

- .1 The installation provider shall be directly responsible for the quality of the completed floorcovering installation, including the quality of both the materials and labor used in the installation. The installation provider shall directly warrant to owner that all products, materials and services related to the floorcovering installation (including any floorcovering(s), or other products or materials used in the installation) meeting specifications set forth herein. The product warranty required herein shall be provided directly by the carpet manufacturer.
- .2 The installation provider shall have successful carpet installation experience on work similar to the work of this Section.

1.3 Submittals – Please submit each of the following with your bid (unless otherwise noted):

- . 1 Manufacturer’s Data - Two (2) copies of carpet manufacturer’s construction specifications, performance specification, environmental performance and installation instructions for carpet and related items specified.
- . 2 Fiber Verification – Certification from the fiber producer verifying use of the premium branded type 6,6 fiber.

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- . 3 Premium branded fibers are identified as Universal or Aquafil fibers extruded by independent fiber producers and having a modification ratio between 1.7 and 1.9. Fibers extruded by carpet mills will be considered “non-premium” for purposes of this specification.
- . 4 All applicable product warranties provided by manufacturer.
- . 5 Installation provider’s proof of insurance, copy of contractor’s license, and worker’s compensation certificate.
- . 6 Five (5) current project references for installation provider, with scope, date, and customer contact with phone number in compliance letter.
- . 7 Samples – Customary (standard) size carpet samples of each type of carpet, in each specified pattern, color, and construction.
- . 8 Any alternatives to specified product(s) or approved manufacturers, to be considered, shall be submitted for approval at least ten (10) working days prior to bid or proposal to be considered.
- . 9 Maintenance Instructions - Two (2) copies of the manufacturer’s carpet maintenance instructions.

1.4 Warranty

- . 1 Provide the following written warranties by carpet manufacturer for a period of not less than 20 years:
 - .1 Wear - Surface fiber wear shall not be more than 10% by weight in 20 years. (Note: Wear warranty of acceptable manufacturer shall not require use of chair pads and lifetime warranties are not acceptable.)
 - .2 Static - Static generation shall be less than 3.0 kV at 70° F, and 20% R.H.
 - .3 No delamination
 - .4 No edge ravel
 - .5 No dimensional instability (i.e., shrinkage, curling and doming) which adversely affect the ability of the tile to lie flat
- . 2 Submit manufacturer’s National Voluntary Laboratory Accreditation Program (NVLAP) certified test results to show that carpet meets or exceeds product performance specification criteria for carpet testing requirements under Section 2.1 hereof.
- . 3 Installation provider shall warrant all installation services will be free from defects in workmanship for a period of at least one (1) year following their completion, and that in the event of defective services, the installation provider will re-perform the affected services and, as necessary, supply new products of the same or similar grade sufficient to repair or replace products adversely affected.

PART 2 PRODUCTS

2.1 Modular Carpet Tile Performance Standards. Modular carpet tile shall meet the following performance standards:

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0.1	Carpet Flammability	
	.1 Pill Test (ASTM D2859 or CPSC FF-1-70)	Passes
	.2 Radiant Panel Test (ASTM E648)	≥ 0.45 watts/cm ² , Class 1
0.2	Smoke Density (ASTM E662)	≤ 450 Flaming Mode
0.3	Dimensional Stability (Aachen Method Din 54318)	≤ 0.1% change
0.4	Static Generation at 70° F (AATCC 134 w/ neolite)	≤ 2.5 kV at 20% R.H.
0.5	Lightfastness (AATCC 16E)	≥ 4.0 after 60 hours
0.6	Gas Fade (AATCC 23)	4
0.7	Ozone Fade (AATCC 109)	4
0.8.1	Antimicrobial (ASTM E2471-05)	The carpet primary backing should display a minimum performance rating of "CI" (complete inhibition) or "PI" high (partial inhibition high < 10% coverage) against the three challenge microorganisms
0.8.2	Antimicrobial (AATCC 174, Part II)	≥ 90.0% reduction
0.9	Fungicidal (AATCC 174, Part III)	No growth
0.10	Soil/Stain Protection (AATCC 175-1991)	≥ 8.0 on the Red 40 Stain Scale
0.11	Sustainable Carpet Assessment Standard – NSF/ANSI 140	Platinum, as certified by 3 rd party
0.12	Carpet & Rug Institute Green Label Plus	Any and all products shall pass Carpet & Rug Institute Green Label Plus. Certification number of the specified product category shall accompany submittal.

2.2 Product Construction Specification. Modular carpet tile shall meet the following construction specifications:

1. Yarn System: 100% Universal Type 6,6 Nylon with post consumer content. Fiber shall have a cross-section modification ratio between 1.7 and 1.9.
2. Dye Method: 100% Solution Dyed
3. Construction: Tufted
4. Patterning: Integrated (topical application or wet printed patterning not allowed)
5. Texture: Textured Loop
6. Gauge: 1/12
7. Green Label Plus
8. Pile Weight: Maximum 20 oz per yard: Primary Backing: Non-woven polyester. Woven primary backings not allowed.
9. Secondary Backing: Fiberglass Reinforced Thermoplastic Composite (polyolefin-free) Glasbac RE. Secondary backing shall be 100% recyclable at the end of its useful life. Claims of 'recyclable' shall meet the Federal Trade Commission Part 260 -- Guides for the Use of Environmental Marketing Claims 260.7(d).

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10. Soil/Stain Resistance: Application by fiber producer and manufacturer required.
11. Antimicrobial: Antifungal and Antibacterial ASTM E 2471-05 Standard Test Method for Use of Seeded Agar for Screening Assessment of Antimicrobial Activity in Carpet. Minimum allowable growth ratings on washed and unwashed carpet samples after 72 hours incubation are complete to partial inhibition (<10% sample coverage) on shaven primary and unshaven fiber layers. Or, if AATCC 174 Parts II & III (AATCC 171 Washed) is used, shall pass both Part II and Part III of AATCC 174 with a minimum of 90% reduction both gram negative and gram positive bacteria and no visible growth against the fungi.

2.3 Environmental Specifications

- .1 Recycled Content by total product weight: minimum of 69% total recycled content, 30% of which must be post consumer. Fiber must contain post consumer content as well.
- .2 Recycled versus Recyclable – Primary consideration will be given to carpet products in the following order of priority: (A) use of post consumer recycled content in both fiber and backing, (B) post consumer recycled content in the backing, (C) 100% recyclable product. Claims shall meet the Federal Trade Commission Part 260 -- Guides for the Use of Environmental Marketing Claims.
- .3 Product platform shall have a 3rd party verified Environmental Product Declaration following ISO 14025 guidelines and a 3rd party verified Life Cycle Assessment following ISO 14040 guidelines.
- .4 Carbon footprint of the Product – Submission shall state the average quantity of greenhouse gas emissions associated with the entire life cycle of the product from raw material extraction through end-of-life, a description of the emission reduction credits used to offset the global warming footprint, and the name of the 3rd party verifying these claims.

2.4 Minimum Antimicrobial Construction Standards in Addition to Product Specifications

- .1 Antimicrobial preservative, registered by the EPA for use in carpeting, with broad spectrum efficacy against the growth of bacteria and fungi for a minimum of 15 years, assuming proper maintenance. The antimicrobial ingredient shall meet standards set by the U.S. General Services Administration (GSA) for Antimicrobial Carpet as supported by independent lab testing less than six months old.
 - .1 Manufacturer shall provide a stamped EPA technical data sheet for carpet. Antimicrobial preservative shall contain no arsenic, formaldehyde or heavy metals (tin, lead, mercury, silver, copper or zinc), be non-halogenated (no fluorine, chlorine, bromine or iodine) and non-phenolic. Blends of amine neutralized phosphated esters are preferable. Antimicrobial shall have low water solubility (30ppm), a vapor pressure of 12mm Hg at 27° C, and an oral LD₅₀ toxicity rate less than 2.4 grams/kg.
 - .2 The Antimicrobial preservative shall be incorporated into the primary backing of the product during the manufacturing process, not topically applied to the carpet fibers.
 - .3 The antimicrobial treated carpet when new shall pass GSA parameters for treated carpets via AATCC method 174 parts II and III. Initial performance shall be 90% reduction of the microorganisms (Staphylococcus aureus 6538 and Klebsiella pneumoniae 4352) and no fungal growth on either the primary backing or fibers both on washed (AATCC method 174) and non-washed samples. The Standard Test Method for Use of Seeded Agar for Screening Assessment of Antimicrobial Activity in Carpet (ASTM E 2471-05) may be used in lieu of AATCC method 174 parts II and III.

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- .4 The antimicrobial treated carpet shall maintain, for the warranted life of the carpet, a minimum of 90% reduction of the microorganisms (Staphylococcus aureus 6538 and Klebsiella pneumoniae 4352) listed in AATCC method 174 part II, provided the carpet is maintained as specified. Additionally, the antimicrobial treated carpet shall maintain a "no macroscopic growth" rating against Aspergillus niger 6275 at the primary backing in accordance with AATCC 174 part III.
- .5 The preservative shall be biodegradable and not toxic to non-target species.
- .6 Efficacy of the preservative should be documented in professional peer reviewed scientific publications.

2.5 Related Carpet Materials

- .1 Leveling compound - Latex type as recommended by carpet manufacturer. Shall be compatible with carpet and curing/sealing compound on concrete.
- .2 Glue - Installation shall be free of glue (sprayed or spread)
- .3 Installation connectors - Compounded acrylic adhesive, applied to PET polyester backing with PET polyester release liner (clear 3" x 3" polyester squares with small quantity of a pressure sensitive adhesive applied on one side of the polyester film). The squares connect the carpet modules together to form a stable surface over hard surface. The connectors shall contain no liquid components, have "zero" calculated VOC's and help to minimize floor prep in all future installations.
- .4 Carpet edge guard, non-metallic - Extruded or molded heavy duty vinyl or rubber carpet edge guard of size and profile indicated, and with minimum two inch wide anchorage flange; colors selected by architect/designer from among standard colors available within the industry.
- .5 Ancillary materials - To be selected by installation provider to meet specifications and project requirements.

PART 3 EXECUTION

3.1 Pre-Installation Requirements

- .1 All existing carpet and existing carpet waste shall be reused or recycled. A reclamation plan shall be submitted that will provide directions for the reclamation of all carpet at the job site. Carpet recycling options consist of:
 - .1 **Repurposing** - reusing the product in another application such as facilitating the donation of used carpeting to charities and other nonprofit organizations.
 - .2 **Closed Loop Recycling** - turning waste materials into new materials of the same value, such as vinyl backing into vinyl backing and nylon yarn into nylon carpet yarn.
 - .3 **Open Loop Recycling** - creating other product types from reclaimed carpet. For example, turning nylon face fiber into automotive parts or carpet padding, including nylon face fiber in recycled backings.
 - .4 **Waste-to-Energy** - using carpet for waste-to-energy. In the case of waste-to-energy, manufacturer shall justify why carpet cannot be recycled.

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- .5 **Landfill or incineration** – are not approved disposal methods.
- .2 **Description of Reclamation Services** - Carpet shall be removed from the existing installation and prepared for pickup based on the type of material and reclamation option selected. Specifications for removal from the jobsite include:
 - .1 Removal of carpet tile for recycling
 - .1 Carpet tile shall be palletized and secured for shipping, (i.e., shrink wrap, banding, strapping).
 - .2 Carpet tile shall be kept dry and free of any moisture damage.
 - .3 Carpet tile shall be clean of any non-carpet debris.
 - .2 Removal of performance broadloom for recycling.
 - .1 Performance broadloom shall be rolled, palletized and secured for shipping. Cut pieces of performance broadloom shall also be acceptable, provided they are secured for shipping.
 - .2 Performance broadloom shall be kept dry and free from moisture damage.
 - .3 Rolls shall be clean of any non-carpet debris, front and back, other than ordinary soiling in normal use.
 - .3 Removal of broadloom carpet for recycling.
 - .1 Rolled carpet shall not exceed six (6) feet in length x one (1) foot diameter. Width may vary from 2 feet to 12 feet.
 - .2 Carpet shall be accumulated and kept dry for shipping and processing.
 - .3 Rolls shall be clean of any non-carpet debris, front and back, other than ordinary soiling in normal use.
 - .4 Repurposing of carpet material.
 - .1 Approval of old carpet for possible donation shall be determined at the jobsite.
 - .5 All possible recycling options shall be clearly presented and submitted in writing to owner and specifier prior to job start. A written description of the used carpet disposal process is required.
 - .1 Description shall contain information as to complete process of diversion from landfill.
 - .2 A certificate shall be furnished upon request verifying the reclamation of the carpet and the pounds of material diverted from the landfill.

3.2 Installation

- .1 General
 - .1 Modules should be designed such that they create a “floating floor” with no adhesion to the slab, eliminating any future floor preparation charges on subsequent installations.
 - .2 Comply with manufacturer’s instructions and recommendations. A “no-glue” waterless method of installation is preferred using materials described in 2.5.3. above. In the event

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a releasable glue method of installation is required for any part of the installation, the following adhesive description applies. Adhesive shall be water-based and allow for removal of carpet tile at any time without damage to carpet or substrate. Adhesive shall contain an antimicrobial preservative and have "zero" calculated VOC's.

- .3 Install carpet under open-bottom obstructions and under removable flanges and furnishings, and into alcoves and closets of each space.
 - .4 Provide cut outs where required. Conceal cut edges with protective edge guards or overlapping flanges.
 - .5 Run carpet under open bottom items such as heating convectors, and install tight against walls, columns and cabinets so the entire floor area is covered with carpet. Cover over all floor type door closures.
 - .6 Install edging guard at all openings and doors wherever carpet terminates, unless indicated otherwise.
 - .7 Cutting shall be done in accordance with the manufacturer's recommendation, using the tools designed for the carpet being installed.
 - .8 Use leveling compound where necessary. Any floor filling or leveling shall have a minimum of 4'0" of feather.
 - .9 Expansion joints - Do not bridge building expansion joints with continuous carpeting.
- .2 Installation
- .1 Install carpet according to carpet manufacturer's printed instructions and in accordance with the Carpet and Rug Institute's Installation Standard.
 - .2 Chair Pads shall not be recommended or required within installation instructions

3.3 Cleaning and Protection

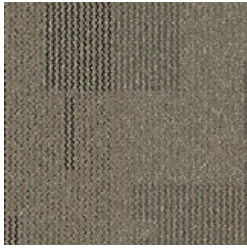
- .1 On completion of the installation in each area, all dirt, carpet scraps, etc. shall be removed from the surface of the carpet.
- .2 Remove debris, and sort pieces to be saved from scraps to be repurposed or recycled.
- .3 Construction manager shall protect carpeting against damage during construction.
- .4 At the completion of the work and when directed by the construction manager, vacuum carpet using commercial dual motor vacuum of type recommended by carpet manufacturer. Remove spots and replace carpet where spots cannot be removed. Remove rejected carpeting and replace with new carpeting. Remove any protruding yarns with shears or sharp scissors.

3.4 Inspection

- .1 Upon completion of the installation, manufacturer and installer shall verify and certify that work is complete, properly installed and meets all specification herein.
- .2 Preliminary Acceptance - Upon completion of the carpet installation of each floor, such installation shall be inspected by owner, the construction manager and installation provider.

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- 3.5 Environmental Impact and Measurements.** The manufacture of all modular carpet tile shall meet the following criteria:
- .1 Greenhouse gas emissions from purchased electricity and on-site combustion attributable to the manufacturing process shall average 0.57 kg of carbon dioxide or less per square meter (1.06 lbs per square yard).
 - .2 Non renewable energy per unit of production during the manufacturing process shall average 6,200 k or less per square meter (4,900 BTU per square yard).
 - .3 Solid waste generated at the manufacturing process regardless of disposal method shall average 0.14 kg or less per square meter (0.25 lbs per square yard).
 - .4 Water intake for manufacturing purposes during the manufacturing process shall average 2.3 liters or less per square meter (0.5 gallons per square yard).



Installation Method



Non Directional

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Product The Standard **Color** 106176 Magma **Collection** Winning Team **Backing** GlasBac®

Product Specifications

Product Number	1467302500
Product Construction	Tufted Textured Loop
Yarn System	Post-Consumer Content Nylon
Yarn Manufacturer	Universal
Dye Method	100% Solution Dyed
Soil/Stain Protection	Protekt ² ®
Preservative Protection	Intersept®

	Imperial	Metric
Tufted Yarn Weight	15 oz/yd ²	509 g/m ²
Machine Gauge	1/12 in	47.2 ends/10cm
Pile Height	0.12 in	3 mm
Pile Thickness	0.074 in	1.9 mm
Stitches	7.7 /in	30.2 ends/10cm
Pile Density	7,297 oz/yd ³	270,571 g/m ³
Size	19.69 in x 19.69 in	50cm x 50cm

Performance Specifications

Flooring Radiant Panel	(ASTM E-648) Passes
Smoke Density	(ASTM E 662) ≤ 450
Flammability	Passes Methenamine Pill Test (DOC-FF1-70)
Lightfastness	(AATCC 16 - E) ≥ 4.0 @ 60 AFU's
Static	(AATCC - 134) < 3.0 KV
Dimensional Stability	AACHEN Din 54318 <.10%
Traffic Classification	Severe
Fiber Modification Ratio	1.7 to 1.9
Preservative Efficacy	(AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days (ASTM E-2471) Complete Inhibition

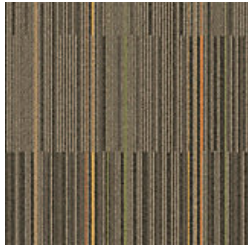
Health + Environmental Specifications

Carbon Footprint	
Embodied Carbon (Cradle to Gate)	6.58 Kg CO ₂ /M ²
Full Life Cycle Carbon Emissions	Certified Carbon Neutral Floors™
Total Recycled Content	57%
Recycled Content (Pre Consumer)	55%
Recycled Content (Post Consumer)	2%
Indoor Air Quality	Green Label Plus #GLP0820 CDPH 01350
Material Composition	Free of Added Heavy Metals, Ortho Phthalates, Formaldehyde, Fluorinated Chemicals (PFAS), and Halogenated Flame Retardants.
Disclosure of Environmental Impacts	Environmental Product Declaration
Disclosure of Product Ingredients	Health Product Declaration
Environmental Certifications	Green Circle Certified Environmental Facts NSF/ANSI 140 Gold
LEED v4	Contributes to multiple IEQ and MR credits
End of Life	Carpet to Carpet Recycling through ReEntry®

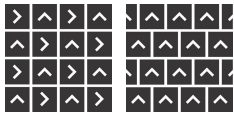
Technical Information

Installation	Interface Installation Guidelines
Maintenance	Recommended Interface Maintenance Guidelines
Reclamation	Recyclable through ReEntry® - Call 1.888.733.6873 (U.S.) / 1.866.398.3191 (Canada)

Warranty	15 Year Standard Carpet Warranty
Standard Backing	GlasBac®
Backing Options (Learn more)	CQuest™Bio, CQuest™GB, GlasBac®, CushionBac Renew™, GlasBac®RE, ReadyBac™
Tile Size Options	50cm x 50cm
Manufacturing Location	ISO 9001 & 14001 Certified facilities in Troup County, Georgia, United States



Installation Method



Quarter turn Brick

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Product Student Council **Colour** 178129 Imp **Collection** Class Rooms **Backing** GlasBac®

Product Specifications

Product Number	19BH202500	
Product Construction	Tufted Textured Loop	
Yarn System	Post-Consumer Content Nylon	
Yarn Manufacturer	Universal	
Dye Method	100% Solution Dyed	
Soil/Stain Protection	Protekt ² ®	
Preservative Protection	Intersept®	
	Imperial	Metric
Tufted Yarn Weight	18 oz/yd ²	610 g/m ²
Machine Gauge	1/12 in	47.2 ends/10cm
Pile Height	0.15 in	3.8 mm
Pile Thickness	0.103 in	2.6 mm
Stitches	10 /in	39.4 ends/10cm
Pile Density	6,291 oz/yd ³	233,269 g/m ³
Size	19.69 in x 19.69 in	50cm x 50cm

Performance Specifications

Radiant Panel	(ASTM E-648) Passes
Smoke Density	(ASTM E 662) ≤ 450
Lightfastness	(AATCC 16 - E) ≥ 4.0 @ 60 AFU's
Static	(AATCC - 134) < 3.0 KV
Dimensional Stability	AACHEN Din 54318 <.10%
Traffic Classification	Heavy
Fiber Modification Ratio	1.7 to 1.9
Preservative Efficacy	(AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days (ASTM E-2471) Complete Inhibition

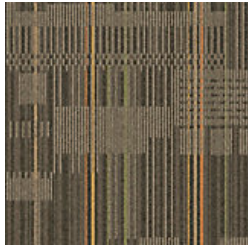
Health + Environmental Specifications

Carbon Footprint	
Embodied Carbon (Cradle to Gate)	6.58 Kg CO ₂ /M ²
Full Life Cycle Carbon Emissions	Certified Carbon Neutral Floors™
Total Recycled Content	
Recycled Content (Pre Consumer)	53%
Recycled Content (Post Consumer)	2%
Indoor Air Quality	Green Label Plus #GLP0820 CDPH 01350
Material Composition	Free of Added Heavy Metals, Ortho Phthalates, Formaldehyde, Fluorinated Chemicals (PFAS), and Halogenated Flame Retardants.
Disclosure of Environmental Impacts	Environmental Product Declaration
Disclosure of Product Ingredients	Health Product Declaration
Environmental Certifications	Green Circle Certified Environmental Facts NSF/ANSI 140 Gold
LEED v4	Contributes to multiple IEQ and MR credits
End Of Life	Carpet to Carpet Recycling through ReEntry®

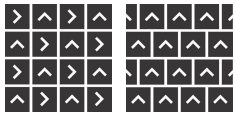
Technical Information

Installation	See Interface Installation Guidelines online
Maintenance	Recommended Interface Maintenance Guidelines
Reclamation	Recyclable through ReEntry® - Call 1.888.733.6873 (U.S.) / 1.866.398.3191 (Canada)
Warranty	15 Year Standard Carpet Warranty

Standard Backing	GlasBac®
Backing Options (Learn more)	CQuest™Bio, CQuest™GB, GlasBac®, GlasBac®RE, ReadyBac™, CushionBac Renew™
Tile Size Options	50cm x 50cm
Manufacturing Location	ISO 9001 & 14001 Certified facilities in Troup County, Georgia, United States



Installation Method



Quarter turn Brick

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Product Social Studies **Colour** 178145 Imp **Collection** Class Rooms **Backing** GlasBac®

Product Specifications

Product Number	19BH402500	
Product Construction	Tufted Textured Loop	
Yarn System	Post-Consumer Content Nylon	
Yarn Manufacturer	Universal	
Dye Method	100% Solution Dyed	
Soil/Stain Protection	Protekt ² ®	
Preservative Protection	Intersept®	
	Imperial	Metric
Tufted Yarn Weight	18 oz/yd ²	610 g/m ²
Machine Gauge	1/12 in	47.2 ends/10cm
Pile Height	0.15 in	3.8 mm
Pile Thickness	0.103 in	2.6 mm
Stitches	10 /in	39.4 ends/10cm
Pile Density	6,291 oz/yd ³	233,269 g/m ³
Size	19.69 in x 19.69 in	50cm x 50cm

Performance Specifications

Radiant Panel	(ASTM E-648) Passes
Smoke Density	(ASTM E 662) ≤ 450
Lightfastness	(AATCC 16 - E) ≥ 4.0 @ 60 AFU's
Static	(AATCC - 134) < 3.0 KV
Dimensional Stability	AACHEN Din 54318 <.10%
Traffic Classification	Severe
Fiber Modification Ratio	1.7 to 1.9
Preservative Efficacy	(AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days (ASTM E-2471) Complete Inhibition

Health + Environmental Specifications

Carbon Footprint	
Embodied Carbon (Cradle to Gate)	6.58 Kg CO ₂ /M ²
Full Life Cycle Carbon Emissions	Certified Carbon Neutral Floors™
Total Recycled Content	
Recycled Content (Pre Consumer)	56%
Recycled Content (Post Consumer)	2%
Indoor Air Quality	Green Label Plus #GLP0820 CDPH 01350
Material Composition	Free of Added Heavy Metals, Ortho Phthalates, Formaldehyde, Fluorinated Chemicals (PFAS), and Halogenated Flame Retardants.
Disclosure of Environmental Impacts	Environmental Product Declaration
Disclosure of Product Ingredients	Health Product Declaration
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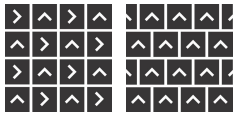
Technical Information

Installation	See Interface Installation Guidelines online
Maintenance	Recommended Interface Maintenance Guidelines
Reclamation	Recyclable through ReEntry® - Call 1.888.733.6873 (U.S.) / 1.866.398.3191 (Canada)
Warranty	15 Year Standard Carpet Warranty
Standard Backing	GlasBac®

Backing Options (Learn more)	CQuest™Bio, CQuest™GB, GlasBac®, GlasBac®RE
Tile Size Options	50cm x 50cm
Manufacturing Location	ISO 9001 & 14001 Certified facilities in Troup County, Georgia, United States



Installation Method



Quarter turn Brick

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Product Reading Room **Color** 178137 Imp **Collection** Class Rooms **Backing** GlasBac®

Product Specifications

Product Number	19BH302500	
Product Construction	Tufted Textured Loop	
Yarn System	Post-Consumer Content Nylon	
Yarn Manufacturer	Universal	
Dye Method	100% Solution Dyed	
Soil/Stain Protection	Protekt ² ®	
Preservative Protection	Intersept®	
	Imperial	Metric
Tufted Yarn Weight	18 oz/yd ²	610 g/m ²
Machine Gauge	1/12 in	47.2 ends/10cm
Pile Height	0.15 in	3.8 mm
Pile Thickness	0.103 in	2.6 mm
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Lightfastness	(AATCC 16 - E) ≥ 4.0 @ 60 AFU's
Static	(AATCC - 134) < 3.0 KV
Dimensional Stability	AACHEN Din 54318 <.10%
Traffic Classification	Severe
Fiber Modification Ratio	1.7 to 1.9
Preservative Efficacy	(AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days (ASTM E-2471) Complete Inhibition

Health + Environmental Specifications

Carbon Footprint	
Embodied Carbon (Cradle to Gate)	6.58 Kg CO ₂ /M ²
Full Life Cycle Carbon Emissions	Certified Carbon Neutral Floors™
Total Recycled Content	
Recycled Content (Pre Consumer)	56%
Recycled Content (Post Consumer)	53%
Recycled Content (Post Consumer)	2%
Indoor Air Quality	Green Label Plus #GLP0820 CDPH 01350
Material Composition	Free of Added Heavy Metals, Ortho Phthalates, Formaldehyde, Fluorinated Chemicals (PFAS), and Halogenated Flame Retardants.
Disclosure of Environmental Impacts	Environmental Product Declaration
Disclosure of Product Ingredients	Health Product Declaration
Environmental Certifications	Green Circle Certified Environmental Facts NSF/ANSI 140 Gold
LEED v4	Contributes to multiple IEQ and MR credits
End of Life	Carpet to Carpet Recycling through ReEntry®

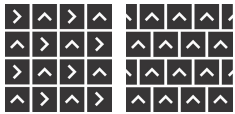
Technical Information

Installation	Interface Installation Guidelines
Maintenance	Recommended Interface Maintenance Guidelines
Reclamation	Recyclable through ReEntry® - Call 1.888.733.6873 (U.S.) / 1.866.398.3191 (Canada)
Warranty	15 Year Standard Carpet Warranty
Standard Backing	GlasBac®

Backing Options (Learn more)	CQuest™Bio, CQuest™GB, GlasBac®, GlasBac®RE
Tile Size Options	50cm x 50cm
Manufacturing Location	ISO 9001 & 14001 Certified facilities in Troup County, Georgia, United States



Installation Method



Quarter turn Brick

All product specifications reflect averages derived from product sample testing, are subject to normal manufacturing and testing tolerances and inherent pattern variances, and may be changed without notice. For more information about these and other important attributes of the product(s) described herein, including recycled content and product warranty information, please see www.interface.com/disclaimer.

Product Quiz Bowl **Colour** 178161 Imp **Collection** Class Rooms **Backing** GlasBac®

Product Specifications

Product Number	19BH602500
Product Construction	Tufted Textured Loop
Yarn System	Post-Consumer Content Nylon
Yarn Manufacturer	Universal
Dye Method	100% Solution Dyed
Soil/Stain Protection	Protekt ² ®
Preservative Protection	Intersept®

	Imperial	Metric
Tufted Yarn Weight	18 oz/yd ²	610 g/m ²
Machine Gauge	1/12 in	47.2 ends/10cm
Pile Height	0.15 in	3.8 mm
Pile Thickness	0.103 in	2.6 mm
Stitches	10 /in	39.4 ends/10cm
Pile Density	6,291 oz/yd ³	233,269 g/m ³
Size	19.69 in x 19.69 in	50cm x 50cm

Performance Specifications

Radiant Panel	(ASTM E-648) Passes
Smoke Density	(ASTM E 662) ≤ 450
Lightfastness	(AATCC 16 - E) ≥ 4.0 @ 60 AFU's
Static	(AATCC - 134) < 3.0 KV
Dimensional Stability	AACHEN Din 54318 <.10%
Traffic Classification	Severe
Fiber Modification Ratio	1.7 to 1.9
Preservative Efficacy	(AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days (ASTM E-2471) Complete Inhibition

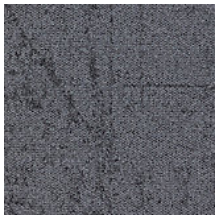
Health + Environmental Specifications

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Disclosure of Environmental Impacts	Environmental Product Declaration
Disclosure of Product Ingredients	Health Product Declaration
Environmental Certifications	Green Circle Certified Environmental Facts NSF/ANSI 140 Gold
LEED v4	Contributes to multiple IEQ and MR credits
End Of Life	Carpet to Carpet Recycling through ReEntry®

Technical Information

Installation	See Interface Installation Guidelines online
Maintenance	Recommended Interface Maintenance Guidelines
Reclamation	Recyclable through ReEntry® - Call 1.888.733.6873 (U.S.) / 1.866.398.3191 (Canada)
Warranty	15 Year Standard Carpet Warranty
Standard Backing	GlasBac®

Backing Options (Learn more)	CQuest™Bio, CQuest™GB, GlasBac®, GlasBac®RE
Tile Size Options	50cm x 50cm
Manufacturing Location	ISO 9001 & 14001 Certified facilities in Troup County, Georgia, United States



Installation Method



Non Directional

Interface European Manufacturing BV reserve the right to change or modify specifications.

Product Ice Breaker **Colour** 4282005 Gritstone

Product Specifications

Product Number	4282
Product Construction	Tufted Patterned Structured Loop Pile
Yarn System	100% Solution Dyed Nylon contains recycled content
Standard Backing	Graphlex®
Optional Backing(s) (Learn more)	ReCushion Bac®, SONE®, CQuest™ Bio
Size – Packaging	50 x 50 cm – 5 m² Box
Pile Yarn Weight	616 g/m² ± 5%
Total Weight	3810 g/m² ± 5%
Pile Height	3.7 mm +15% / - 10%
Total Thickness	6.6 mm ± 0.5 mm
Gauge – Ends per 10 cm	1/12 - 47.2
Tufts per m²	190,130/m² ±5%

Performance Specifications

Wear Classification	EN 1307 33 Heavy Contract					
Castor Chair Rating	≥2.4 (EN 985) Continuous Use					
Flammability	(EN ISO 9239-1) Euroclass Bfl-s1 (EN 13501-1)					
Light Fastness	≥7 (ISO 105-B02)					
Light Reflectance Value (LRV)	LRV – L value			LRV – Y value		
	33.5			7.77		
Dimensional Stability	≤0.2% (ISO 2551/EN 986)					
Impact Sound Insulation ΔL _w EN ISO 10140-3	25 dB					
Rating of Sound Absorption (α _w) EN ISO 11654	0.20					
Sound Absorption (α _s) EN ISO 354	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
	0.01	0.05	0.08	0.22	0.34	0.44

Environmental Specifications

Total Recycled Content	57.8%
Pre-Consumer (Total)	56.2%
Post-Consumer (Total)	1.6%
Yarn Recycled Content	75%
Pre-Consumer (Yarn)	65%
Post-Consumer (Yarn)	10%
Indoor Air Quality	GUT Prodis ID BCAD9D21 M1 Emission Certification - 2 Danish Indoor Climate French A+ GLP 9819 GUI Standard
Potential Green Building Contribution	
BREEAM (UK/International)	View potential BREEAM contribution
LEED (US/International)	View Potential Leed Contribution
HQE (France)	View Potential HQE Contribution
DGNB (Germany)	View Potential DGNB Contribution
Environmental Product Declaration	wc_epd-int-20170101-cbc1-en

Full Life Cycle Carbon Footprint	According to EPD or EPD calculation method
Embodied Carbon (Cradle to Gate)	9.6 kg CO ₂ eq./m ²
Full Life Cycle Carbon	Certified Carbon Neutral Floors™
Installation Impacts	
Installation Waste	In a typical installation (rectangular building, installed before walls) using the installation method below: Non-directional – 1-2% For reference: 2 m wide broadloom typically generates 7-10% installation waste
TacTiles®	Optimised for glue-free installation with TacTiles® connectors with virtually zero VOCs
End of Life Options	
Recycling	Can be returned through the Interface ReEntry scheme and be reused as raw material in new carpet tiles.
ReUse	Can be cleaned and reused in a non-critical location to extend its useful life.
Waste to Energy	Can be incinerated in appropriate waste to energy plant.

Technical Information

Installation	See recommended Interface installation guidelines
Maintenance	See recommended Interface maintenance guidelines
Warranty	15 years
Manufacturing Location	ISO 9001, 14001 & 45001 Certified Facilities in Europe

Performance Qualifications



Certifications

