160 South Industrial Blvd.
Calhoun, GA 30701

## Section 09 68 13

# CARPET TILE

**This document is intended as a suggested guide for editing your architectural guide specification.**

**Mohawk Group will not be held liable for damages arising out of the use of any information or specifications found in this document. Make sure you have the latest publication for this specification.**

**Product selection and accuracy of all project specifications are the specifiers or designer's responsibility.**

## PART 1 – GENERAL INFORMATION

### 1.01 SECTION INCLUDES:

Manufacturers
Testing Protocols
Performance Requirements
Product Specifications
Warranties
Exclusions
Installation
Maintenance
Accessories

### 1.02 REFERENCES (INDUSTRY STANDARDS)

A. American Association of Textile Chemists and Colorists (AATCC):

1. AATCC 16 – Test Method for Colorfastness to Light
2. AATCC 107 – Test Method for Colorfastness to Water
3. AATCC 129 – Test Method for Colorfastness to Ozone in the Atmosphere under High Humidity.
4. AATCC 134 – Test Method for Electrostatic Propensity of Carpets.
5. AATCC 165 – Test Method for Colorfastness to Crocking: Carpets – AATCC Crock Meter Method
6. AATCC 175 – Test Method for stain Resistance: Pile Floor Coverings

B. American Society for Testing and Materials (ASTM):

1. ASTM D418 – Methods for Testing Pile Yarn Floor Covering Construction
2. (Finished Pile Thickness only)
3. ASTM E648 – Test Method for Critical Radiant Flux of Floor Covering Systems
4. ASTM E662 – Test Method for Specific Optical Density of Smoke

C. International Standards Organization (ISO):

1. ISO 2551 – Test Method for Dimensional Stability (Aachen Test)

D. Carpet and Rug Institute (CRI):

1. CRI Indoor Air Quality Testing and Labeling Program

## 1.03 ITEMS TO DELIVER

A. Provide the product's Technical Specifications data sheet as well as all installation and maintenance instructions.

B. When required, supply floor drawings and installation plans.

C. Supply a set of samples

1. Submit standard-size carpet tile samples of each type of carpet, in each specified pattern, color and construction.

2. Any alternates to specified products must be submitted for approval by a representative of the end user or architect/design firm at least ten (10) working days prior to bid or proposal.

a. Submit two (2) sets of samples for each carpet type.

b. No carpet shipments are permitted until acceptance of final samples is given by representative of the end user or architect/design firm, certifying that samples are the approved color, pattern and texture.

2. Custom Color only

a. A representative of the end user or architect/design firm, certifying that the samples are the approved color, pattern and texture, shall sign high quality color samples.

b. Samples submitted are assumed to be the manufacturer's best obtainable match to the color described under Materials Section.

c. Must have federally registered Branded trademark.

D. When required, provide Mohawk Group's attestation, certified by an independent laboratory, confirming that the flooring complies with the fire standards of the following tests:

| | | |
|---|---|---|
| 1. | Radiant Panel: ASTM E648: | >.45 watts/sq. cm: Class 1 |
| 2. | Smoke Density: ASTM E662: | 450 Flaming Mode - Maximum |
| 3. | Static Generation: AATCC 134: | 3.5 KV - Maximum |
| 4. | Lightfastness: AATCC 16E: | Min 4.0 at 40 hrs. |
| 5. | Crocking: AATCC 165: | 4.0 – Wet/Dry |
| 6. | Cold Water Bleed: AATCC 107: | 3.0 - Minimum |
| 7. | Ozone Fade: AATCC 129: | 3.0 - Minimum |
| 8. | Soil Protection: AATCC 189: | 500 PPM Min. |
| 9. | CRI Green Label Plus Air Quality Certification: | Pass |
| 10. | CRI Appearance Retention Rating | 3.0 minimum – Heavy Traffic<br>3.5 minimum – Severe Traffic |
| 11. | Aachen Test: ISO 2551 | Less than .15% shrinkage or growth |

12. Stain protection: AATCC 175: Equal to or greater than 8.0 on Red 40 stain test with 100 revolutions of the Taber Abrader (1,000 gram weight per H-18 wheel) then stain test in the abraded area.

<u>Special Performance Requirements</u>

1. Must have Soil and Stain Resist treatment
2. Fiber must have modified delta cross-section w/hollow core
3. Must be at least 20 dpf fiber
4. Must pass GSA requirements for permanent stain resistant carpet
5. Backing must pass British Spill Test and 10,000 Impact Test

E. Provide manufacturer's lifetime warranties for:

1. Wear
2. Static
3. Edge Ravel
4. Zippering

5. Delamination
6. Dimensional Stability
7. Supplemental Fiber Warranties:
    a. Lifetime Stain Warranty
    b. Lifetime Warranty against color transfer wet or dry
    c. Lifetime Warranty against wet fastness
    d. 10 Year Colorfastness to Light
    e. 10 Year Colorfastness to Atmospheric contaminants

## 1.04 QUALITY ASSURANCE

A. Have Mohawk Group flooring installed by an installer qualified in the installation of specified flooring.

B. In accordance with the technical instructions in the installation instructions, use all accessories recommended by Mohawk Group when installing its flooring.

C. Follow the instructions specified in the most recent version of Mohawk Group's installation instructions.

D. Corporate Social Responsibility
Corporate social responsibility requirements: Manufacturer shall meet the corporate social responsibility as outlined below.

1. GRI Reporting: Manufacturer to have a corporate sustainability report (CSR) as per the GRI G4 guidelines.
2. Health and Wellness: Manufacturer to have on-site health clinics and biometric screenings, or health facilities displaying commitment towards health and wellness.
3. United Nations Sustainable Development Goals (UN SDGs):
Manufacturer must identify and commit to at least part of the UN SDGs as applicable to their organization and industry.
    a. Facility certifications: Product's manufacturing facility shall be ISO 9001 certified. Manufacturer to have at least one green building certification for their own facilities – LEED, Living Building Challenge or WELL Building Standard.

## 1.05 DELIVERY, HANDLING, STORAGE

A. Deliver the flooring to the installation site in Mohawk Group's original packaging. Indicate the project name and handling instructions on the outside of the boxes.

B. Advise the carrier of any damaged material and indicate it on the packing slip.

C. Store the flooring inside, sheltered from extreme hot or cold temperatures. Place the material on a smooth level floor or where there is uniform solid support in a clean, dry well-ventilated area. Unstack the pallets. The long-term storage temperature must be maintained between 65°F (18°C) and 85°F (29°C). Protect adhesive and flooring material from freezing, extreme heat and direct sun exposure.

D. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and after the installation by maintaining the room temperature between 65°F (18°C) and 85°F (29°C). The pallets should be unstacked 24 hours prior to use.

E. Afterwards, maintain the room temperature between 65°F (18°C) and 85°F (29°C). Protect the material from direct sources of heat such as air vents and other types of heaters.

F. Install the flooring after all other finishing work, including painting, have been completed.

# PART 2 - PRODUCTS

## 2.01 MANUFACTURER

Mohawk Group, 160 S. Industrial Blvd, Calhoun GA 30701 Telephone 800.241.4494. Website: www.mohawkgroup.com
Contact:
@mohawkind.com

## 2.02 CARPET TILE CONSTRUCTION

A. Characteristics

| | |
|---|---|
| **Style Name** | **exploreD BT609** |
| Collection | Fractal Findings |
| Product Type | Carpet Tile |
| Size | 24” x 24” |
| Construction | Tufted |
| Surface Texture | Textured Patterned Loop |
| Fiber Type | ColorStrand® Nylon |
| Dye Method | Solution Dyed |
| Stain Release Technology | EcoSentry Plus Stain Protection |
| Soil Release Technology | EcoSentry Soil Protection |
| Backing | EcoFlex Matrix |
| Tufted Pile Weight | 19 oz per sq. yd. (644 g/m2) +/- 5% |
| Gauge | 1/12” (47.00 rows per 10 cm) |
| Stitches per Inch | 12 (47.2 per 10 cm) |
| Total Thickness | 0.231” +/- 5% |
| Density | 5,516 |
| Recommended Installation Method | Brick Ashlar, Multi Directional, Quarter Turn, Vertical Ashlar |
| Foot Traffic Recommendation TARR | Heavy |
| **Sustainability** | |
| Embodied Carbon | 7.97 kg CO2e/m2 |
| Carbon Handprint | -8.37 kg CO2e/m2 |
| Beyond Carbon Neutral | -0.4 kg CO2e/m2 |
| Total Recycled Content | 41.33% |
| Pre-Consumer Recycled Content | 41.33% |
| Multi-Attribute Certification | Living Product Challenge |
| EPD | EcoFlex Matrix EPD |
| HPD | EcoFlex Matrix HPD |
| NSF 140 | EcoFlex Matrix - NSF 140 Gold |
| **Style Name** | **discoverD BT6109** |
| Collection | Fractal Findings |
| Product Type | Carpet Tile |
| Size | 24” x 24” |
| Construction | Tufted |
| Surface Texture | Textured Patterned Loop |
| Fiber Type | ColorStrand® Nylon |
| Dye Method | Solution Dyed |
| Stain Release Technology | EcoSentry Plus Stain Protection |
| Soil Release Technology | EcoSentry Soil Protection |
| Backing | EcoFlex Matrix |
| Tufted Pile Weight | 19 oz per sq. yd. (644 g/m2) +/- 5% |
| Gauge | 1/12” (47.00 rows per 10 cm) |
| Stitches per Inch | 12 (47.2 per 10 cm) |
| Total Thickness | 0.238” +/- 5% |

| | |
|---|---|
| Density | 6,000 |
| Recommended Installation Method | Brick Ashlar, Multi Directional, Quarter Turn, Vertical Ashlar |
| Foot Traffic Recommendation TARR | Heavy |
| **Sustainability** | |
| Embodied Carbon | 7.97 kg CO2e/m2 |
| Carbon Handprint | -8.37 kg CO2e/m2 |
| Beyond Carbon Neutral | -0.4 kg CO2e/m2 |
| Total Recycled Content | 41.33% |
| Pre-Consumer Recycled Content | 41.33% |
| Multi-Attribute Certification | Living Product Challenge |
| EPD | EcoFlex Matrix EPD |
| HPD | EcoFlex Matrix HPD |
| NSF 140 | EcoFlex Matrix - NSF 140 Gold |

Refer to the product's Technical Specifications data sheet for detailed specifications.

Choose from any of Mohawk Group's complete line of colors (indicate the item number).

This product was manufactured in a factory that has ISO 9001 and ISO 14001 certifications.

*All specifications are subject to normal manufacturing tolerances.*

## 2.03 ADHESIVE

Mohawk Group requires the use of the following adhesives to maintain the product warranty:

**EnPress Adhesive** (No moisture testing is required, provided no signs of visual moisture is present and existing adhesive has been reduced to a minimal residue.)

**FlexLok Tabs** (No moisture testing is required, provided no signs of visual moisture is present and existing adhesive has been reduced to a minimal residue.)

## 2.04 OTHER MATERIAL

A. Subfloor repairs: use a good-quality Portland cement-based compound modified with latex that has a minimal resistance to compression of 3500 lbs/sq. in. (246 kg/cm$^2$). to fill, smooth or level subfloor imperfections.

B. Self-levelling underlayment: use a Portland cement-based self-levelling underlayment modified with a polymer that has a minimal resistance to compression of 3500 lbs/sq. in. (246 kg/cm$^2$).

# PART 3 – EXECUTION

## 3.01 SITE INSPECTION

A. Examine the subfloor before installation to ensure that the surface is clean, dry, smooth, structurally sound and free from foreign substances that may adversely affect adhesion or cause discoloration. Furthermore, ensure that the subfloor is free of paint, varnish, adhesive, oil, grease, solvent and other foreign substances, including treatment compounds, sealers and curing compounds that may adversely affect adhesion or alter the appearance or durability the carpet tile.

B. Verify the surface to ensure there is no powder, scaling or mold. If there is, remove it with a mechanical sander and level with a good-quality cement-based Portland primer.

C. Slabs that have been either using a curing agent or a sealer will have to be treated to ensure that the adhesion has not been impaired.

D. Do not install on cement slabs that have been subjected to adhesive chemical abatement, unless an approved remediation system was used afterwards.

E. Report and rectify all unsatisfactory conditions. Do not start flooring installation until all rectifications have been completed.

## 3.02 SUBFLOOR PREPARATION

A. Level all rough surfaces and fill cracks and marks with a Portland cement-based patching compound modified with latex.

B. Mechanically remove all surface contaminants such as paint, oil, grease, varnish, adhesive as well as various other products such as treatment compounds.

C. Measure the humidity and pH levels (in situations where pH testing is required) in compliance with the following standards before installation:

1. ASTM F 2170, Relative Humidity (RH) test using in situ probes.
2. ASTM F 710, pH levels (test procedure 5.3.1).
3. The ASTM test frequency recommendation is 3 measures for the first 1,000 sq. ft. (92.9 sq. m) and one measure for each additional 1,000 sq. ft. (92.9 sq. m).

D. Ensure Moisture, Relative Humidity and pH tests have all been conducted and measurements meet manufacturer's recommendations.

E. In case of doubt, test the adhesion on the cement subfloor or other surface that will be covered by the flooring. Do the test using the specified flooring and recommended adhesive.

## 3.03 CARPET TILE FLOORING INSTALLATION

A. Install the flooring according to the latest version of Mohawk Group's installation instructions. Use the tools, adhesives, trowel types and procedures recommended in the instructions.

B. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and after the installation by maintaining the room temperature between 65°F (18°C) and 85°F (29°C). Afterwards, maintain the temperature between 65°F (18°C) and 85°F (29°C).

## 3.04 CLEANING AND PROTECTION

A. Remove all excess adhesive immediately after installation as recommended in Mohawk Group's installation instructions.

B. Before allowing traffic after installation, consult and follow the recommendations in Mohawk Group's installation instructions.

C. Following installation and cleanup, if the work of all other trades has not yet been completed, protect the flooring by laying sheets of non-staining brown Kraft paper, and then a layer of plywood sheets (rolls of non-staining heavy cardboard material could also be used for protection).

D. Follow the instructions in Mohawk Group's Maintenance Instructions when performing initial and regular maintenance procedures.

Please note that technical website documents prevail.

## 3.05 FLOORING RECLAMATION

A. Accepted Flooring

- Broadloom Carpet
- Carpet Tiles
- Carpet Pad
- LVT
- VCT

- SPC
- RPC
- Sheet Vinyl
- Laminate

B. Process

1. Complete the reclamation form on our website.
2. Gather the flooring for recycling and load it in the provided container.
   *Flooring type and condition requirements must be met. Please see guideline document for details.
3. Receive a certificate showing your positive impact on the planet.

C. Contact

| | |
|---|---|
| Phone | (877) 3RE-CYCL or (877)373-2925, |
| Email | reclaim@mohawkind.com . |
| Website | Mohawk Recover |

Please note that technical website documents prevail.

END OF SECTION