



PART 1 — GENERAL

1.0 SUMMARY

- A. Interior waterproof, washable, solid polymer suspended ceiling tiles:
 - 1. Commercial ceiling tiles [2' x 4', and 2' x 2'].
 - 2. Material Standards, Performance, and Qualifications.
 - 3. Installation and Material Protection.
 - 4. Product Care and Cleaning.
 - 5. Specification Language.
- B. Related sections and/or documents include the following:
 - 1. Parkland™ SPECTRATILE® LEED applicability: see section 1.5 F. LEED submittals. See manufacturer's product content statement available upon request.

1.1 RELATED SECTIONS

- A. Section 06050 Wood and Plastics.
- B. Section 09130 Acoustical Suspended Ceilings.
- C. Section 09500 Ceilings.

1.2 REFERENCED STANDARDS

- A. American National Standards Institute (ANSI).
- B. ASTM International (ASTM):
 - 1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 2. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
 - 3. ASTM B221M- Standard Specification for Aluminum Alloy/ Composition.
- C. American Wood Council (AWC).
- D. National Electrical Manufacturers Association (NEMA).
- E. National Fire Protection Agency (NFPA).
- F. Underwriters Laboratory (UL).

1.3 DEFINITION

- A. Parkland SPECTRATILE ceiling tiles defined as: Non-porous, solid waterproof polymer alloy ceiling tiles maintaining the same composition throughout the part, meeting applicable building materials standards; NEMA, UL, ANSI, ASTM, and NFPA and having minimum physical, performance, and environmental properties specified.
- B. Appearance: Monochrome colored, textured, ceiling tile.
- C. Fire Test Response Characteristics (2mm):
 - 1. Product passes flamespread and smoke developed standards for ASTM E-84 Class-A (I) surface burning characteristics per ASTM E-84.
 - 2. Product passes NFPA life safety code 10.2.7.3.2.

- 1.4 ** NOTE TO SPECIFIER **** Parkland SPECTRATILE installations provide a unique variety of features including waterproof composition and Class-A per ASTM E-84 flame and smoke characteristics.

1.5 SUBMITTALS

- A. Submit under provisions of Sections 06050, 09130, and 09500.
- B. Product Data: Full suite of documents available for panel frames and fasteners, including; Installation Guide, layout Guide, Various specialty guides, warranty and general information.
- C. Shop Drawings: SPECTRATILE tiles fit into standard commercial suspended ceiling grid-type systems. Show location of each item, dimensioned plans, details, attachment locations, notch and cutout locations, and any other components required prior to commencement of work.
 - 1. Show locations and sizes of cutouts, holes, and fixture information for wall panels.
 - 2. Show location of notches, mechanical penetrations, and special areas.



PART 1 — GENERAL (CONT.)

1.5 SUBMITTALS (continued)

- D. Samples: For each type of product specified, 3.5 inch x 5 inch square sample of SPECTRATILE material in specified texture and color.
- E. Engineering Calculations: General contractor or project architect shall submit any required engineering calculations as per local and state building codes, showing the installed panels and attachment systems meet all applicable project requirements and building codes.
- F. LEED Submittals:
 - 1. IEQ Credit 4.1 Low Emitting Materials: Adhesives and Sealants.
 - 2. Parkland SPECTRATILE components are not known to contain any VOC materials and have no intentionally added VOC content.
- G. Maintenance Data:
 - 1. See section 1.9, and Use and Care Guide for more information.

1.6 QUALITY ASSURANCE QUALIFICATIONS

- A. Parkland SPECTRATILE commercial grade heavy duty ceiling tiles comprised of 100% solid polymer alloy with high performance fire and smoke properties, maintaining specified ANSI/ NEMA/ASTM performance standards and having specified physical, performance, and environmental specifications. SPECTRATILE is available in a selection of finishes, and custom ceiling tiles are available from Parkland Plastics.
- B. Environment: Parkland Plastics materials shall be used in building interiors that are climate-controlled, with a typical ambient temperature between 55 and 80 degrees Fahrenheit (16 to 27 degrees C) and stable relative humidity at moderate indoor levels (typically 20%- 40% RH).
- C. Pre-Engineering: SPECTRATILE is a 100% solid polymer alloy ceiling tile, designed for the specified uses, spans and supporting grid system.
- D. Installer Qualifications: Work of this section shall be by an experienced installer with minimum two years experience.

1.7 WARRANTY

- A. Provide manufacturer's warranty against defects in materials.
 - 1. Warranty shall provide material to repair or replace defective materials returned to manufacturer as specified in manufacturer's warranty.
 - 2. Warranty shall not cover damage caused by physical or chemical abuse, misuse, incompatibility of materials, improper installation, or inappropriate installation environment, or damage from insufficient anchoring into structure, adverse conditions at time of construction or thereafter, or aesthetic concerns over undressed or uncovered edges.
 - 3. Warranty shall be non-transferable to subsequent owners.
 - 4. Manufacturer's Warranty Period: 1 year.
 - 5. Ceiling tiles to be warranted by manufacturer.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Do not deliver components to project site until areas are ready for installation.
- B. Store SpectraTile® materials indoors at the temperature that the room will be during occupancy for at least 48 hours prior to installation. Verify the installation area has moisture levels suitable for indoor installation and use.
- C. Installer to handle materials to prevent damage to finished surfaces, place protective coverings over installation to prevent physical damage or staining, and for duration of project.

1.9 MAINTENANCE

- A. Removal of stains with common janitorial bleach-free cleaners. Occasional cleaning with a mild janitorial surface cleaner (e.g. Windex®, Formula 409®) will remove occasional dust or dirt, and maintain the beauty of exposed components.
 - 1. Routine and regular cleaning with mild soapy water solution.
 - 2. With routine cleaning dirt and stains will not build up, see Use and Care Guide for more information.
 - 3. SPECTRATILE can be pressure-washed with mild detergent with excellent results. **Use a fan spray pattern with pressure under 1000 PSI and keep nozzle at least 18" from surface.** Test pressure settings and distance from the nozzle to the tile surface for good results prior to commencement of work as excess pressures can damage surface finish.



PART 1 — GENERAL (CONT.)

1.9 MAINTENANCE (continued)

B. Acceptable Cleaning Materials:

- Soapy Water
- Formula 409® All Purpose Cleaner
- Fantastik® Multi-Purpose Cleaner
- Cascade® 5% detergent solution
- Windex Multi-Surface® Cleaner
- Kaboom® with OXI CLEAN® Stain Fighter
- Windex® Multi-Surface Cleaner with Vinegar
- SPECTRATILE surfaces may be sanitized with Clorox® Anywhere Hard Surface™ Daily Sanitizing Spray

PART 2 — PRODUCTS

2.0 MANUFACTURER

- A. Parkland Plastics™**
104 Yoder Drive
Middlebury, INDIANA
46540 USA
1-800-835-4110

2.1 PRODUCT DESCRIPTION

A. Description:

1. Parkland™ SPECTRATILE® ceiling tiles defined as non-porous, waterproof 100% polymer alloy ceiling tiles maintaining the same composition throughout the part, meeting applicable building; NEMA, UL, ANSI, ASTM, NFPA materials standards, and having minimum physical, performance, and environmental properties specified.

B. Thickness:

1. Parkland SPECTRATILE 2' x 2' tiles: .160" [5/32"]
2. Parkland SPECTRATILE Acoustic: 2' x 2', and 2' x 4'
3. Parkland SPECTRATILE Acoustic, all tiles: .250" [1/4"]

C. Tile sizes:

1. Parkland SPECTRATILE: 2' x 2', and 2' x 4'
2. Parkland SPECTRATILE 2' x 4' tiles: .200" [3/16"]

D. Tile finishes

- | | |
|---------------|-------------------|
| 1. Acoustic | 5. Repertoire |
| 2. Finale | 6. Stucco |
| 3. Fissured | 7. Stucco Tegular |
| 4. Millennium | |

E. Color: Matte White, (white or grey for acoustic), custom colors available.

2.2 PERFORMANCE CHARACTERISTICS

A. Product Performance Table

ASTM D-792	Specific Gravity	0.65 +/- 0.03
ASTM D-638	Tensile Strength	1422 psi
ASTM D-638	Tensile Modulus of Elasticity	108090 psi
ASTM D-790	Flexural Modulus of Elasticity	156450 psi
ASTM D-695	Compressive Strength	11840 +/- 1191 psi
ASTM D-790	Flexural Strength	1778 In. Lbs./ Sq. In.
ASTM D-256	IZOD Impact Strength	5.6 In.-Lb./inch of notch
ASTM D-648	Heat Deflection Temperature	122 Degrees F.



PART 2 — PRODUCTS (CONT.)

2.2 PERFORMANCE CHARACTERISTICS (continued)

A. Product Performance Table (Continued)

ASTM C-423	Noise Reduction Coefficient	0.65 NRC
Life Safety Code	Flammability (NFPA)	Passes 10.2.3.7.2
ASTM E-84	Smoke and Flamespread	Class-A (I) Classification*
ASTM D-3273	Mold and Mildew Resistance	10 (best) 1-10

*Based on Steiner tunnel testing per ASTM test standard E-84.

B. Institutional Affiliations and Approvals:

1. Complete NAHB stain testing results available.
2. Underwriters Laboratories: UL Classified under NFPA 286.
3. IBC 2603.10- passes.
4. Life Safety Code: Passes 10.2.3.7.2.
5. UL Classified.

2.3 MATERIAL QUALIFICATIONS

- A. SPECTRATILE scrap can be recycled as grade #3 material.
- B. Does not support the growth of mold or mildew.
- C. All products 100% fiberglass-free.
- D. All products 100% waterproof.

2.4 ACCESSORIES, ADHESIVES, AND SEALANT

- A. No accessories or adhesives are required to install SPECTRATILE.

PART 3 — EXECUTION [INSTALLATION PROCESS]

3.0 EXAMINATION

- A. Examine ceiling area site conditions for compliance with requirements for installation tolerances, and other conditions affecting performance of work.
- B. Prepare work area using the methods recommended by the manufacturer for achieving the best result for occupied use conditions.
- C. If site preparation is the responsibility of another installer, notify Architect in writing of any deviations from manufacturer's recommended installation and use conditions.

3.1 INSTALLATION

- A. Installer shall:
 1. Install ceiling tiles in support fixtures [grid] in accordance with approved specifications.
 2. Finish any cut tile edges or inside corners with a smooth edge and radius.
 3. Remove surface residue and clean entire surface.
- B. Clean entire installation surface, and protect installed areas required to prevent construction damage.

3.2 REPAIR

- A. Repair dinged or damaged panels with utility knife, plastic file, or fine sandpaper. Replace tiles that cannot be repaired to Architect's satisfaction.



PART 3 — EXECUTION [INSTALLATION PROCESS] (CONT.)

3.3 CLEANING AND PROTECTION

- A. Keep components clean during installation, or clean and cover with protective covering.
- B. Remove excess adhesives, sealants and other stains.
- C. Where specified, protect surfaces from damage during construction.

3.4 MATERIAL SCHEDULE

- A. Ceiling tiles:
 - 1. Pattern: _____
(Acoustic, Finale, Fissured, Millennium, Repertoire, Stucco, Stucco Tegular)
 - 2. Color: _____
(Matte White, Grey, Black, Mocha)

ARCHITECT'S SPECIFICATION:

SPECTRATILE

Ceiling tiles shall be of 100% waterproof solid polymer alloy material, not support the growth of mold or mildew, be washable, and pass life safety code 10.2.3.7.2, and ASTM E-84 Class A (I) for flame spread and smoke developed, and contain no fiberglass or fibrous materials.

For more information call: 800.835.4110 • or Visit: www.parklandplastics.com

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