

**LUXURY VINYL TILE**

**09650 - 1**

**SECTION 09650 – LUXURY VINYL TILE**

**Part 1 – General**

**RELATED DOCUMENTS:**

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this section.

**DESCRIPTION OF WORK:**

Extent of luxury vinyl tile flooring and accessories is shown on drawings and in Material and Room Finish Schedules.

**QUALITY ASSURANCE:**

Manufacturer: Provide each type of luxury vinyl tile and accessories as produced by a single manufacturer, including recommended primers, adhesives, sealants and leveling compounds.

Fire Test Performance: Provide luxury vinyl tile flooring which complies with the flooring fire test performance criteria as determined by an independent testing laboratory acceptable to authorities having jurisdiction.

Flame Spread: > 0.45 watts/cm<sup>2</sup> Class I – ASTM E-648

Smoke Density: < 450 per ASTM E 662

**SUBMITTALS:**

Product Data: Submit manufacturer's technical data for each type of luxury vinyl tile and accessory.

Samples for initial Selection Purposes: Submit manufacturer's standard color charts in form of actual sections of luxury vinyl tile, including accessories, showing full range of colors and patterns available, for each type of luxury vinyl tile required.

Samples for Verification Purposes: Submit the following samples of each type, color and pattern of luxury vinyl tile required, showing full range of color and pattern variations.

- Full size tile samples.
- 6" long samples of resilient bases, including preformed corners.
- 6" long samples of resilient edge strips.
- 2 ½" long samples of luxury vinyl tile accessories.
- Other materials, such as stair tread units, etc., as required.

Certification for Fire Test Performance: Submit certification from independent testing laboratory acceptable to authorities having jurisdiction that luxury vinyl tile complies with fire test performance requirements.

Bond and Moisture Tests: Submit location diagrams and results. It is essential that moisture tests be taken on all concrete floors regardless of the age or grade level. Check moisture content does not exceed 2.5% by weight (calcium carbide test method) or moisture emissions do not exceed 3 lbs. Water/24 hours/1000 sq. ft. (calcium chloride test method) by conducting moisture tests, around the perimeter of the room, at columns and where moisture may be evident. Calcium chloride tests and/or calcium carbide tests must be done in accordance with ASTM F-1869 and to instructions. It is the responsibility of the owner or his agent to provide adequate moisture testing by an independent agency acceptable to the floor covering manufacturer for products specified within this document

Maintenance Instruction: Submit two copies of manufacturer recommended maintenance practices for each type of luxury vinyl tile flooring and accessory required.

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**PROJECT CONDITIONS:**

Maintain minimum temperature as instructed by material manufacturers but not less than 65° F (18° C) in spaces to receive luxury vinyl tile for at least 48 hours prior to installation, during installation and for not less than 48 hours after installation. Store luxury vinyl tile materials in spaces where they will be installed for at least 48 hours before beginning installation. Subsequently, maintain minimum temperature of 55° F (13° C) in areas where work is completed.

Install luxury vinyl tile and accessories after other finishing operations, including painting, have been completed. Do not install luxury vinyl tile over concrete slabs until the latter have been cured and are sufficiently dry to achieve bond with adhesive as determined by the luxury vinyl tile manufacturer's recommended bond and moisture test. Do not take tests later than ten days prior to scheduled installation. Notify Architect immediately of unsatisfactory conditions.

**PART 2 – PRODUCTS**

**MANUFACTURER:**

**POLYFLOOR LTD.**

(a Halstead Flooring Co.)  
P.O. Box 3, Radcliffe New Road, Whitefield  
Manchester, M45 7NR, U.K.

**DISTRIBUTOR:**

**GERBERT LTD.**  
P.O. Box 4944  
Lancaster, PA 17604-4944  
Phone 1-888-359-5466 - 717-299-5035  
Fax 1-717-394-1937

Products are available through contract flooring dealers.

**LUXURY VINYL TILE COLORS AND PATTERNS:**

Provide color and patterns as indicated, or if not indicated in Materials Schedule and/or drawings as selected by Architect from manufacturer's standards.

**RESILIENT TILE:**

Polyflor Expona Art and Design Collection

Size:

Wood	152 x 914 mm (nominal = 6" x 36")
Wood Premium Edition	152 x 914 mm (nominal = 6" x 36")
Wood # 6104	102 x 914 mm (nominal = 4" x 36")
Granite	457 x 457 mm (nominal = 18" x 18")
Ambiance	457 x 457 mm (nominal = 18" x 18")
Invento	457 x 457 mm (nominal = 18" x 18")
Rustica	457 x 457 mm (nominal = 18" x 18")
Fuego	457 x 457 mm (nominal = 18" x 18")
Marble	457 x 457 mm (nominal = 18" x 18")
Ambiance Premium	457 x 457 mm (nominal = 18" x 18")
Travertine Slate	305 x 610 mm (nominal 12" x 24")
Tierra	305 x 305 mm (nominal 12" x 12")

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Gauge: 3.0mm (1/8" nominal)  
Wear Layer: .70mm (nominal 0.03")

**LUXURY VINYL TILE**

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Standard: Comply w/ASTM F 1066, ASTM E648, and ASTM E662

Static Load Limit: ASTM F970(m), 750 psi

Thickness: 3.0mm

Edge Treatment: Square only, not beveled

Polyflor Expona

Performance/General	ASTM F-1066
Flame Spread	ASTM E648 >0.45 watts/cm <sup>2</sup> Class 1
Smoke Density	ASTM E662 < 450 pass
Load	ASTM F970(m) – 750 PSI
Abrasion Resistance	EN 649: 1996 Group T
Slip Measurement	ASTM D2047 >0.5

**PART 3 – EXECUTION**

**INSPECTION:**

Require installer to inspect subfloor surfaces to determine that they are satisfactory. A satisfactory subfloor surface is defined as one that is smooth and free from cracks, holes, ridges, or coatings preventing adhesive bond and other defects impairing performance or appearance.

Concrete subfloors: Verify that concrete slabs comply with ASTM F710 and the following:

Slab substrates are dry and free of curing compounds, sealers, hardeners and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by flooring manufacturer.

Do not allow luxury vinyl tile work to proceed until subfloor surfaces are satisfactory.

**PREPARATION:**

Prepare subfloor surface as follows:

Inspection of existing sub—floor: A solid, dry, clean sub-floor is required for the installation of all Polyflor materials.

Use cementitious leveling and patching compounds as recommended by luxury vinyl tile manufacturer for filling small cracks, holes and depressions and leveling subfloors. This contractor shall be responsible for leveling new or existing floors whose surface varies up to 5/16". Notify Owner, Architect and General Contractor in

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writing where substrate varies more than above before proceeding with the work. **Gypsum based leveling compounds will not be accepted.**

Use cementitious leveling and patching compounds as recommended by luxury vinyl tile manufacturer for filling small cracks, holes and depression in subfloors.

Remove coatings from subfloor surfaces that would prevent adhesive bond, including curing compounds incompatible with luxury vinyl tile adhesives, paints, oils, waxes and sealers.

Broom clean or vacuum surfaces to be covered, and inspect subfloor.

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