

## **SECTION 09650 – RESILIENT FLOORING**

### **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 resilient flooring and accessories is shown on drawings and in Material and Room Finish schedules.

#### **QUALITY ASSURANCE:**

Manufacturer: Provide each type of resilient flooring and accessories as produced by a single manufacturer, include recommended primers, adhesives, sealant and leveling compounds.

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

<u>Flame Spread:</u>	> 0.45 watts/cm <sup>2</sup> Class I – ASTM E-648
<u>Smoke Density</u>	< 450 per ASTM E-662

#### **SUBMITTALS:**

Product Data: Submit manufacturer's technical data for each type of resilient flooring and accessory.

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

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

- 12" x 12" samples of sheet flooring
- 6" long samples of resilient bases, including preformed corners
- 6" long samples of resilient edge strips
- 2 1/2" long samples of resilient flooring 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 resilient flooring 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's recommended maintenance practices for each type of resilient 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 resilient flooring for at least 48 hours prior to installation, during installation and for not less than 48 hours after installation. Store resilient flooring 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 resilient flooring and accessories after other finishing operations, including painting, have been completed. Do not install resilient flooring over concrete slabs until the latter have been cured and are sufficiently dry to achieve bond with adhesive as determined by the resilient flooring 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:**

**POLYFLOR 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  
Email: [gerbertinfo@gerbertltd.com](mailto:gerbertinfo@gerbertltd.com)

Products are available through contract flooring dealers.

**RESILIENT FLOORING 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.

**VINYL SHEET SAFETY FLOORING:**

High vinyl content, mono-layered construction and non-directional design.

High vinyl content with backing: Provide nonlayered vinyl sheet with pattern and color extending through its full thickness and complying with the following requirements:

<u>Standards:</u>	Comply w/ASTM F 1303, ASTM E648, Class 1 and ASTM E662 Class I/A
<u>Static Load Limit:</u>	ASTM F970(M), 750 psi
<u>Thickness:</u>	.080" (2.0mm) unless otherwise noted
<u>Sheet Dimension:</u>	6 ft. 6 in x 66 ft nominal (2 M x 20 M)
<u>Welding Thread:</u>	Vinyl thread or rod as produced by the manufacturer of sheet vinyl flooring and intended for heat sealing of joints. Color to match field of sheet vinyl floor covering unless otherwise noted.
<u>Slip Measurement:</u>	ASTM D2047 >0.8 (Polysafe Astral, Design, Standard and Polysafe Vogue)

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**RESILIENT FLOORING**

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Polysafe Design and/or Polysafe Astral

Exclusively contains **Supratec+** polymer resin to give significant and sustainable maintenance benefits.

Performance/General	ASTM F1303
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 >0.7
Thickness Offered	2.0mm

Polysafe

Performance/General	ASTM F1303
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 >0.7
Thickness Offered	2.0mm & 2.5mm & 3.5mm

Polysafe Vogue

Performance/General	ASTM F1303
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 >0.7
Thickness Offered	2.0mm

**ACCESSORIES:**

Adhesive: Use only manufacturer approved adhesive. Adhesive available through dealers or Gerbert Ltd. Submit list of manufacturer approved adhesives to Architect for approval.

**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 resilient flooring work to proceed until subfloor surfaces are satisfactory.

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**RESILIENT FLOORING  
PREPARATION:**

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Prepare sub-floor 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 resilient flooring 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 writing where substrate varies more than above before proceeding with the work. **Gypsum based leveling compounds will not be accepted.**

Using cementitious leveling and patching compounds as recommended by resilient flooring 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 resilient flooring adhesives, paints, oils, waxes and sealers.

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

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