

LINOLEUM FLOORING

GENERAL INFORMATION

- 1.1 Linoleum Flooring, which is made from natural renewable and biodegradable materials, should be considered as a sustainable alternative to VCT and other flooring products containing vinyl, subject to review and acceptance by Facilities. Linoleum Flooring should NOT be used in potentially damp areas such as restrooms and wet laboratories, nor should it be used in high-abuse spaces such as loading and maintenance areas.

DESIGN REQUIREMENTS

- 2.1 Linoleum Flooring shall be specified to be a homogeneous floor covering made of natural materials consisting of linseed oil, cork, wood flour, resin binders, dry pigments, mixed and calendared into natural jute backing. Linoleum Flooring shall NOT contain synthetic latex, vinyl, or other thermoplastics or thermosetting plastics as backings or pre-finished coatings. Pattern and color shall extend throughout total thickness of material.
- 2.2 Products shall meet ASTM F2034 (latest edition) performance standards for sheet linoleum floor covering.
- 2.3 Adhesives and other products used in the installation of Linoleum Sheet Flooring shall comply with manufacturer's recommendations, and shall have low volatile organic compound (VOC) content. VOC limits may be established for some projects.
- 2.4 Patching and leveling compounds shall be of a type recommended by the flooring manufacturer.
- 2.5 If patterns, borders, or accents are part of the design (subject to the review and acceptance of Facilities), those elements shall be clearly specified and dimensioned on drawings.
- 2.6 NO CORK FLOORING SHOULD BE SPECIFIED.

CONSTRUCTION REQUIREMENTS

- 3.1 The Linoleum Flooring contractor shall check the Project for conditions that affect work. They shall not begin work until unsatisfactory conditions are corrected. Defects caused by unsatisfactory conditions or untimely installation shall be corrected at no cost to the Owner. Contractor shall not begin installation of flooring until the work of other trades has been completed, especially overhead trades.
- 3.2 Areas to receive flooring shall be clean, fully enclosed, weathertight, and maintained at a uniform temperature of at least 70 degrees for 72 hours before, during, and after installation is complete.
- 3.3 Allow materials to become acclimated to job conditions by storing them in work areas for at least 24 hours before installation. Unroll coiled materials well in advance of installation.
- 3.4 Protect adjoining surfaces from staining and damage. Control adhesive application; do not contaminate surfaces to which other materials are to be bonded.
- 3.5 Substrate Preparation: Utilize ASTM F 710, Practice for Preparing Concrete Floors and Other Monolithic Floors to receive Resilient Flooring. Floors shall be smooth, flat, permanently dry, clean and free of all foreign material such as dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt, and old adhesive residue. Take moisture tests in accordance with ASTM F 1869 Standard test method for Measuring Vapor Emission Rate of Concrete Subfloor using Anhydrous Calcium Chloride.
- 3.6 Cleaning: Remove dirt and dust from substrates by vacuuming, sweeping, blowing with oil-free compressed air or similar methods. If cleaning agents are required, use only materials and methods approved by the flooring and accessories manufacturers.
- 3.7 Repairs: Fill small cracks, holes, and depressions in subfloors with patching-leveling compound.
- 3.8 Priming: Unless otherwise recommended by flooring and accessories manufacturers, prime concrete substrates before applying adhesive.
- 3.9 Adhesives: Mix and apply adhesives per manufacturers' instructions. If notched trowels are used, re-file notches that are reduced by wear, as required to achieve recommended adhesive distribution. Limit the extent of each application to areas that can be covered with flooring or accessories within the adhesive's optimum open time. Scrape off and replace applied adhesive that cannot be covered in time. Discard adhesive that exceeds pot life given by the manufacturer for the prevailing temperature and humidity.

DESIGN REQUIREMENTS

- 3.10 Linoleum Installation: Where not otherwise shown, lay sheet flooring square with principal axes of each space. Discount minor offsets. Be sure rolls to be used in the same area are of the same lot number. Install rolls in numerical order according to sequence number. Do not reverse sheets during installation. Flooring must be installed within 30 minutes after adhesive becomes tacky. Roll or weight linoleum sheet flooring as required to assure total adhesion and remove any entrapped air.
- 3.11 Seams: Underscribe seams may be butt-net or heat-welded, depending on conditions at jobsite. When heat welding, rout seams with a hand router or an electric router. Heat weld with corresponding weld rod.
- 3.12 Borders: Layout border flooring as indicated on drawings. Make joint between field and border flush. Remove any adhesive from joint.
- 3.13 Correct work that is insecurely bonded, misaligned, poorly fitted, wavy, buckled, damaged, stained, or nonconforming.
- 3.14 During installation, clean work as often as necessary to prevent stains from forming. Remove excess adhesive. Immediately before final inspection, thoroughly scrub and buff flooring. Use materials and methods recommended by the flooring manufacturers.
- 3.15 Close off work areas to traffic and other work until adhesives are cured and flooring is firmly bonded. Protect work from damage.

REFERENCE

- 4.1 The applicable CSI Specification Section is 09 65 43