

(REV: JUNE 2010)



SECTION 09650

**TEKNOFLOR® WOOD GRAIN and GRANITE II
COMMERCIAL RESILIENT SHEET FLOORING**

PART I: GENERAL

1.1 RELATED DOCUMENTS

- A. Bidding Requirements, Conditions of the Contract and portions of Division One of this Project Manual apply to this Section as though repeated herein.

1.2 WORK INCLUDED

- A. Teknoflor® Wood Grain and Granite II Commercial Resilient Sheet Flooring with top set base.
- B. Accessories.

1.3 RELATED WORK

- A. Cast-in-place Concrete (Fortifiber "Moistop" Underslab Vapor Barrier or Equal): Section 03300.
- B. Resilient Flooring: Section 09650.

1.4 QUALITY ASSURANCE

- A. Provide each type of resilient sheet flooring and accessories from a manufacturer, including recommended primers, adhesives, sealants, and leveling compounds.

1.5 SUBMITTALS

- A. Submit in accordance with Section 01300.
 - 1. Manufacturer's technical data for each type of resilient flooring and accessory.
 - 2. Manufacturer's standard color chart in the form of actual selections of resilient sheet flooring, including accessories, showing full range of colors and patterns available.
 - 3. Two copies of manufacturer's recommended maintenance practices for resilient sheet flooring and accessories required.
 - 4. Jointing, Termination Details; Includes 8 ½" x 11" details indicating joint method, termination details including reducers and/or caps required.
 - 5. Moisture Test Results using a Calcium Chloride Moisture Test to be submitted to the Flooring Distributor prior to delivery and installation of resilient sheet flooring. A reading of three (3) pounds or less per 1000 square feet per 24 hours or a relative humidity reading of 75% is acceptable. If a concrete sealer was used, break bond past sealer for accurate reading.
 - 6. Concrete pH must be under 9. Perform test and submit results to Flooring Distributor.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to project site in manufacturer's original, unopened containers with labels indicating brand names, colors and patterns, and quality designations legible and intact.
- B. Store and protect materials in accordance with manufacturer's recommendations. Teknoflor® rolls should be stored vertically.

1.7 PROJECT CONDITIONS

- A. Verify that Fortifiber "Moistop" Underslab Vapor Barrier or equal has been installed under work of Section 03300. Concrete contractor shall not create holes in membrane. Repair holes as they appear.
- B. Maintain minimum temperature of 70°F and maximum temperature of 85°F in spaces to receive resilient flooring for at least one week prior to installation, including all weekend hours, and for not less than 7 days after installation. Permanent heat must be used. Space heaters are not acceptable. Subsequently, maintain minimum temperature of 55°F and a maximum temperature of 85°F in areas where work is completed.
- C. Store resilient flooring materials in spaces where they will be installed for at least 72 hours before beginning installation.
- D. Install resilient flooring and accessories after other finishing operations, including painting, have been completed.
- E. Do not install resilient flooring over concrete slabs until they have been cured and are sufficiently dry to achieve bond with adhesive as determined by resilient flooring manufacturer's recommended bond and moisture test. Concrete must be free of curing compounds or adhesives and have a compressive strength of 3500 psi or greater.
- F. Close areas to traffic and to other work until flooring is firmly set. Flooring shall have no foot traffic for 24 hours and no heavy fixtures or rolling carts are to be used on the floor for 72 hours. If traffic is necessary, cover floor with plywood.
- G. Where solvent based adhesives are used, provide safety, spark-proof fans when natural ventilation is not adequate.
- H. Subflooring must be dry.
- I. Floor covering should not be installed over expansion joints. Expansion joint covers compatible with floor covering should be used.
- J. Do not install floor covering over existing VCT or VAT without using an approved underlayment to hide tile seams.
- K. Inspect substrate for any contamination, such as oil drippings, cutback adhesives, etc. Encapsulate contamination with an encapsulator before progressing with the installation of the floor covering. The use of solvent-based adhesive removers is NOT recommended. Mapei's Plan/Patch Plus and Ardex 15 are acceptable coverings. Self-leveling underlayments can have very high moisture contents and require longer curing times, some up to 10 days. Therefore, check moisture level with a Calcium Chloride test prior to installation.

1.8 EXTRA MATERIALS

Furnish one per cent (1%) for each color installed.

1.9 WARRANTY

Twelve (12) year limited warranty commencing on date of substantial completion.

PART II: PRODUCTS

2.1 TEKNOFLOR®

- A. Distributor and Importer:
Shannon Sales Inc. 1005 S. 60TH Street, Milwaukee, WI 53214,
Toll Free: 800-522-9166
- B. Installer: The installer shall be a certified Teknoflor® installer. Call the distributor for certification requirements.
- C. Product Description and Physical Characteristics:
 - 1. Teknoflor®, **directional** wood-grained, or **non-directional** granite II, non-cushioned commercial resilient sheet flooring.
 - 2. Width: 6 feet. (Pattern Repeat: Natural/Oak 24" L x 36" W) (Pattern Repeat: Fireside/Maple 24" L x 35-1/2" W)

3. Nominal Thickness: 2.34 non-cushioned.

4. Test Data:

- a. Flammability: Meets or exceeds ASTM D648, Class I (0.45 watts/cm).
- b. Smoke Density ASTM-662-94 <450 per ASTM 648-94A Class 1.
- c. Residual Indentation: ASTM F-970 Fed St. 501A-3231 Type 1 (2500 p.s.i.)
- d. Resistance to Solvents: Complies with ASTM F1303.
- e. Slip Resistance: Static Coefficient D-2047-93, in compliance with ADA requirements.
- f. Wear Resistance: 12,000 cycles, 500 g. load, S-33 (Taber Abrasion Test, when patterns worn out).
- g. Wear Layer: Type 1, Grade 1 per ASTM F1303, embossed clear PVC wear layer of .20".
- h. Test Performance: Critical Radiant Flux (ASTM E648-94A) Class 1

2.2 ACCESSORIES

- A. Adhesives: As recommended by flooring manufacturer to suit material and substrate conditions.
- B. Concrete Slab Primer: Non-staining type as recommended by flooring manufacturer.
- C. Patching, Leveling, Underlayment: Mastic Latex type equivalent to Camps latex underlayment.
- D. Welding Rods: Manufacturer's standard or equal; color as selected.
- E. Chemical Weld: Manufacturer's standard or equal.
- F. Terminating Reducers: Manufacturer's standard; color as selected.

PART III: EXECUTION

NOTE: Please refer to our "Teknoflor Installation Instructions" for more detailed installation instructions!

3.1 EXAMINATION

- A. Examine subfloor surfaces to determine that they are dry, clean, and smooth.
- B. Perform bond and moisture tests on concrete subfloors to determine if surfaces are sufficiently cured and dry as well as to ascertain presence of curing compound. Do not use curing compounds on concrete subfloors.
- C. Perform moisture tests in accordance with 1.5 A. 5 & 6.
- D. Submit moisture and concrete pH tests to Flooring Distributor before ordering flooring product
- E. Perform bond test at the rate of one per 50 square feet.
- F. Do not allow resilient sheet flooring work to proceed until subfloor surfaces are satisfactory. Indicate adverse conditions of any type by letter to Architect and Flooring Distributor.

3.2 PREPARATION

- A. Sand or grind subfloors to remove mortar, paint, and other surface irregularities.
- B. Where leveling is required, apply latex type underlayment in two or more applications. Apply compound in accordance with manufacturer's printed instructions.
- C. **Remove all debris, sand, and other foreign materials or substances which may result in lack of adhesion, telegraphing or bleed through.**

3.3 GENERAL INSTALLATION PROCEDURES-PLEASE CALL US FOR INSTRUCTIONS

- A. Install resilient sheet flooring and accessories using method indicated in strict compliance with manufacturer's printed instructions. Extend resilient sheet flooring into toe spaces, door reveals, and into closets and similar openings.
- B. Scribe, cut and fit resilient sheet flooring to permanent fixtures, built-in furniture and cabinets, pipes, outlets and permanent columns, walls and partitions. Floor shall be tight to door bucks.
- C. Maintain reference markers, holes, or openings that are in place or plainly marked for future cutting by repeating on finish flooring as marked on subfloor. Use chalk or other non-staining marking device.

- D. **WARNING: DO NOT USE OR LAY OVER MAGIC MARKERS OR SIMILAR INSTRUMENTS. SHANNON SALES WON'T BE RESPONSIBLE FOR CLAIMS RELATED TO TRANSFERABLE MARKERS!**
- E. Tightly cement resilient sheet to sub base without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections. Hand roll resilient sheet flooring at perimeter.
- F. **Use a 2-part epoxy adhesive, recommended by the Flooring Distributor, under any hospital beds or border pieces.**

3.4 RESILIENT SHEET FLOORING INSTALLATION PROCEDURES

- A. Roll out resilient sheet flooring material with top surface up. Trim off all damage edges. Allow material to relax for twenty four (24) hours.
- B. Trim off all damaged ends
- C. Straight edge and underscribe all side and end seams.
- D. Fold back sheet half-way. Spread adhesive with replaceable blade type notched trowel. Fold sheet into adhesive, allowing for a pattern match.
- E. Roll sheet with 150 pound roller. Hand roll all seams.
- F. Seams
 - 1. Heat weld all seams
 - a. Route material to accept heat weld roll
 - b. Melt matching welding thread into grooves using heat weld gun.
 - c. Use guide plate on spatula knife when trimming the weld rod the first time. Wait a minimum of one hour before doing final trim using a Winkelman WDD645 Slim Trim Knife. (Toll-Free: 1-800-929-4326)

3.5 FINISHING AND CLEANING

- A. Perform the following initial cleaning operations immediately upon completion of resilient flooring.
 - 1. Sweep or vacuum floor thoroughly to remove any loose dirt, dust and other foreign materials.
 - 2. Scrub floor surface using a buffing machine with a 450 or less RPM maximum speed along with a solution of lukewarm water and mild stripper (pH 9 maximum). After scrubbing is complete, wet-vac surface with heavy duty commercial wet vacuum. Rinse floor thoroughly with clean lukewarm water and again wet-vac surface to remove all excess water.
 - 3. Do not scrub floor with steel wool pads, wire brushes, aggressive floor cleaners or cleansers. These products can cause severe scratching and damage to the floor surface.
 - 4. **Refer to Teknoflor® Maintenance Instructions for more detailed information.**

3.6 PROTECTION

- A. Protect resilient sheet flooring against damage during construction period to comply with resilient sheet flooring manufacture's directions. Keep furniture off the floor for 24 hrs. Do not allow rolling carts to be used on the floor for at least 72 hrs.

WARNING: Vinyl floors are known to develop yellow/orange stains from asphalt roadways, pine oil, iodine, high alkaline detergents with a pH over 12, and quaternary and phenolic detergent disinfectants that are cationic surface active when left on floors over a period of time.



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