

**SECTION 09650
RESILIENT FLOORING**

PART 1 - GENERAL

1.1 SUMMARY

- .1 Provide resilient sheet flooring, rubber base and accessories as indicated, scheduled and specified for a complete installation.
- .2 Install flooring wall to wall before installation of floor-set cabinets, casework, and moveable partitions.
- .3 Provide sealing and waxing of resilient flooring.

1.2 RELATED SECTIONS

- .1 03300 Cast in Place Concrete. Refer also to Structural drawings.
- .2 03540 Cementitious Underlayment.
- .3 06100 Rough Carpentry.
- .4 09210 Gypsum Board Assemblies.

1.3 REFERENCES

- .1 Work shall conform to referenced standards published by CSA, CGSB, ASTM, B.C. Floor Covering Association Manual, and applicable manufacturer's manuals shall be to the latest printed edition of such standards.
- .2 ASTM D2047-99 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.
- .3 ASTM E84-03 Standard Test Method for Surface Burning Characteristics of Building Materials.
- .4 ASTM F1066-99, Standard Specification for Vinyl Composition Floor Tile.
- .5 ASTM F1303-02, Standard Specification for Sheet Vinyl Floor Covering with Backing.
- .6 ASTM F1861-00 Standard Specification for Resilient Wall Base.

1.4 SUBMITTALS

- .1 Submit in accordance with Division 1 Submittal Procedures.
- .2 Product Data:
 - .1 Provide product data for each material specified, including storage and installation instructions.
 - .2 Submit "Material Safety Data Sheets" for sealers and adhesives.
 - .3 Maintenance Data: Submit, at completion, maintenance data, including procedures for recommended cleaning and polished materials, for specified type of resilient floor covering installed.
 - .4 Submit sealing and waxing product recommendations and installation instructions.
- .3 Shop Drawings:
 - .1 Submit seam layout to Consultant and Owner for review prior to installation
- .4 Samples: Submit three samples of each type of flooring material for the Consultant's approval.
- .5 Maintenance Material:
 - .1 Provide a minimum of five percent of each type and colour of resilient floor covering supplied, for the Owner's maintenance requirements. Neatly package, mark and leave on site in a location as directed by the Consultant.

1.5 QUALITY ASSURANCE

- .1 Work shall be installed by experienced installers and be to the requirements of the National Floor Covering Association Manual latest edition for applicable types and conditions of work.

- .2 Pre-installation conference: Prior to installation convene a meeting of the Contractor, flooring installer, and Consultant shall meet to establish procedures for inspections, approval of product samples, patterns, colours, and accessories; procedures for acceptability of the substrate, environmental conditions, installation procedures, and protection of finished work.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Store packaged material in original containers in accordance with the manufacturer's instructions with the manufacturer's seals and labels intact.
- .2 Prevent damage to materials during handling and storage. Keep materials under cover and free from dampness.
- .3 Damage Protection: Store sheet goods on end and keep at 20°C temperature for at least 48 hours prior to installation.

1.7 PROJECT CONDITIONS

- .1 Ensure temperature of surrounding areas is within the recommended range of minimum 18oC and maximum 21oC. Avoid concentrated or irregular heating.
- .2 Do not start to lay resilient floor coverings until moisture tests indicate surfaces are properly cured and ready for coverings. Correct unsatisfactory conditions prior to start of work.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Materials used in this contract shall be manufactured by nationally recognized manufacturers of the type indicated and specified.
- .2 Primers and Adhesives: Non-toxic, solvent-free type as recommended by resilient flooring manufactured for specific material on an applicable substrate.

2.2 VINYL FLOORING

- .1 Sheet Vinyl 1 (SV 1):
 - .1 Standard: ASTM F 1303, Standard Specification for Sheet Vinyl Floor Covering with Backing, Type 1, Grade 1, Class B backing.
 - .2 Static coefficient of friction of .60 or greater for level surfaces and .80 or greater for dry ramps, ASTM D 2047.
 - .3 Overall Thickness: 2.0 mm to 3.0 mm.
 - .4 Provide heat welded seams.
 - .5 Acceptable Product: Johnsonite, Melodia and Aria, Tarkett Collection.
 - .6 Colours: From standard range, allow for one colour throughout.

2.3 BASE

- .1 Rubber Base: to ASTM F1861-00 Standard Specification for Resilient Wall Base. Continuous lengths; coved; set-on type minimum 36" lengths stopped ends; with preformed outside corner units. Colours to be selected by Consultant from manufacturer's full range.
 - .1 Height: 6"
 - .2 Thickness: 3 mm (1/8")
 - .3 Acceptable Manufacturers:
 - .1 Amtico.
 - .2 Flexico Company.
 - .3 Burke Flooring Products (Burke Industries).
 - .4 Flexitile Ltd.
 - .5 Dura-Cove – Johnson Rubber Company.

.6 Approved Alternate.

.4 Colour: Allow for 1 colour.

2.4 VINYL STAIR TREADS, STRINGERS AND RISERS

.1 Locations: All Interior Stairs.

.1 Standard: U.S. Federal Specification RR-T-650C, Composition B.

.2 Length: Full width of stair.

.3 Thickness: 5 mm (3/16 in.) tapering to .2 mm (.080 in.).

.4 Surface: Ribbed.

.5 Nose: Square with contrasting colour abrasive strip.

.6 Riser: 'VR' vinyl riser 177.8 mm high x 2.16 mm thick (7" x .085") as manufactured by Johnsonite or pre-approved alternative.

.7 Stringer: 'VS' vinyl stringer 10", as manufactured by Johnsonite, or pre-approved alternative.

.8 Tread: 'VIHD' as manufactured by Johnsonite, or pre-approved alternative.

.9 Colour: As selected from manufacturer's standard range.

2.5 TACTILE WARNING STRIP

.1 Locations: Exit Stair Landings.

.1 Standard: ANSI A117-1-1986.

.2 Thickness: 3 mm (1/8 inch).

.3 Surface: Contrasting 2" colour strips.

.4 Colour: As selected from manufacturer's standard range.

.5 Product: TW as manufactured by Johnsonite, or pre-approved alternative.

2.6 ACCESSORIES

.1 Leveling Compound: Purpose made to resilient flooring manufacturer's recommendation.

.2 Primers and Adhesives: Non-toxic, solvent-free type as recommended by resilient flooring manufacturer for specific material on an applicable substrate.

.3 Reducer strips: Where required to accommodate level changes between floor materials to be handicapped accessible type. Colour to be selected by Consultant from manufacturer's full range.

.4 Sealer and Wax: as recommended by resilient flooring manufacturer. Apply in accordance with manufacturer's printed instructions.

PART 3 - EXECUTION

3.1 EXAMINATION

.1 Examine areas that are to receive the work of this section with Installer present. Correct unsatisfactory conditions. Start of work indicates acceptance of conditions.

3.2 PREPARATION

.1 Ensure temperature of surrounding areas is within the recommended range of minimum 18°C and maximum 21°C. Avoid concentrated or irregular heating.

3.3 INSTALLATION

- .1 Lay flooring in accordance with Manufacturer's instructions, approved mock-up, and to provide a minimum number of seams. Avoid seams in bathrooms. Seams in kitchens are permitted only under fridges, stoves, or in closets.
 - .2 Apply primer and adhesive as per Manufacturer's written instructions.
 - .3 Use only waterproof-type adhesive in areas where plumbing fixtures or floor drains are installed.
 - .4 Trim and cut flooring to fit accurately and snugly at walls, columns, pipes and other fixtures.
 - .5 Heat weld sheet flooring at butt joints.
 - .6 Install flooring wall to wall before the installation of floor-set cabinets, casework, equipment, movable and partitions. Extend flooring into toe spaces, door recesses, closets and similar openings as shown on drawings.
 - .7 Provide a clamping system at floor drains to ensure positive water flow and a watertight flooring installation.
 - .8 In wheelchair accessible prefabricated shower units, seal joint between edge of shower and resilient floor with caulking and protect caulking by an 'F' transition strip, to ensure a watertight flooring installation. Exposed caulked joints are not acceptable.
- 3.4 CLEANING AND PROTECTION**
- .1 Prohibit traffic until adhesive has completely set in accordance with manufacturer's instructions.
 - .2 Protect finished work from traffic as recommended by the manufacturer.
 - .3 Protect other work from damage during the work of this section.
 - .4 Remove excess adhesive as the work progresses.
 - .5 Clean and remove excess adhesive, dust, dirt and extraneous materials from surfaces.
 - .6 Seal and wax surfaces in accordance with manufacturer's recommendations. Remove scuff marks and polish to an even finish.

END OF SECTION