

## 1 ASSEMBLY - GENERAL

- 1.1 The work of this section includes the provision of all design, labour, materials, equipment and services required to fabricate and install stair finishes as required for a complete project. The work includes, but is not necessarily limited to, the items referenced herein:
- 1.1.1 Field applied finishes to stairs and landings.
  - 1.1.2 Concrete finishes.
  - 1.1.3 Preformed rubber treads, nosings, and risers.
- 1.2 Qualifications: Applicator's shall be licensed to install manufacturer's product and have experience in the successful installation of the systems specified in this section for a minimum of 5 years.
- 1.3 Refer to Section C3040 for painting requirements for interior stairs, landings, ladders, rails, and guards.
- 1.4 Also refer to space data sheets for stair finishes.

## 2 ASSEMBLY DESIGN CRITERIA

- 2.1 Provide stair finishes and products suitable for visually impaired including coloured nosings and anti-slip surfaces.

## 3 ASSEMBLY COMPONENTS

- 3.1 RESILIENT TILE/STAIR TREADS AND NOSINGS
- 3.1.1 **General:**
    - 3.1.1.1 Submittals: Material and colour boards to fully illustrate compatibility of proposed stair, landing finish with adjacent wall, floor, and ceiling, door and other special finishes. Provide duplicate samples of tiles and treads to illustrate proposed size, profile, colour, and texture.
    - 3.1.1.2 Submit mill test reports and certification that materials comply with requirements of this section.
    - 3.1.1.3 Submit Samples in accordance with Section 01340 - Shop Drawings, Product Data, Samples and Mock-ups. Submit duplicate tile in size specified, 300mm long base.
    - 3.1.1.4 Environmental Requirements: Do not apply stair and landing finishes in areas where dust is being generated. Conform to manufacturer's recommended air temperatures, relative humidity, and substrate moisture content at installation area before, during and after application.

- 3.1.1.5 Provide maintenance data for resilient tile flooring for incorporation into manual specified in Section 01730 - Operations and Maintenance Manual.
- 3.1.1.6 Maintenance Material: Provide maintenance materials in accordance with Section 01730 - Operational and Maintenance Manual. Provide minimum 2% of each type and colour of material specified. Deliver one full box of each colour, pattern and type flooring material required for this project for maintenance use. Identify each box. Store where directed. Maintenance materials to be same production run as installed materials.
- 3.1.2 **Design:**
- 3.1.2.1 Apply resilient tile finishes to stairs located in prime areas of building, along primary circulation system, and as indicated in space data sheets. Apply to following surfaces of stairs:
- 3.1.2.1.1 Stairs of concrete construction - landings, treads, risers, and exposed sides.
- 3.1.2.1.2 Stairs of steel pan construction - landings and treads.
- 3.1.3 **Materials/Finishes:**
- 3.1.3.1 Vinyl composition tile: to [CSA A126.1M 1984], Type A, 3.18mm thick. Static load limit: 75lbs/sq.in., integral colour and pattern through tile thickness, 300 x 300mm size, in standard colours. Acceptable material: [Tarkett - Expressions and Basics Series or Domcor-Azrock Tile or Armstrong standard Excelon tile or Amtico Fortress with colour through].
- 3.1.3.2 Stair Treads: visually impaired, with photo luminescent edges, rubber stair treads, full width of stairs. Acceptable material: [Flexico Assurance Plus 900 with resilient base across risers or Nora Stair nosing type T5018E with Noramount 925 Grand sheet rubber flooring on treads and up risers].
- 3.1.3.3 Rubber flooring: stair landing and lobbies: 3.5mm min thick rubber tile, Shore A hardness, tensile strength 1200lbs /ft<sup>2</sup>. Acceptable material: [Flexico Assurance Plus 303 x 305mm tiles, or Nora Noramount 925 Grand 1002 x 1002mm tiles].
- 3.1.3.4 Resilient base: to [CAN/CSA-A126.5], Type 1, rubber, B-cove, maximum lengths possible and 100mm high x 3.18mm thick, including premoulded end stops and external corners for coved base only.
- 3.1.3.5 Primers and adhesives: as recommended by flooring manufacturer for specific material on applicable substrate, above, at or below grade.
- 3.1.3.6 Sub-floor filler and leveler: as recommended by flooring manufacturer for use with their product.

- 3.1.3.7 Metal edge strips: aluminum extruded, smooth, mill finish with lip to extend under floor finish, shoulder flush with top of adjacent floor finish.
- 3.1.3.8 Sealer: products to be approved by Owner before application.
- 3.1.3.9 Waxes: to be provided by Owner.
- 3.1.4 **Fabrication/Installation:**
- 3.1.4.1 Apply adhesive uniformly using recommended trowel in accordance with flooring manufacturer's instructions.
- 3.1.4.2 Lay flooring with joints parallel to building lines to produce symmetrical tile pattern. Border tiles minimum half tile width.
- 3.1.4.3 Install flooring to square grid pattern with all joints aligned with pattern grain parallel for all units and parallel to length and/or width of room.
- 3.1.4.4 Cut tile and fit neatly around fixed objects.
- 3.1.4.5 Install feature strips and floor markings where required. Fit joints tightly.
- 3.1.4.6 Install flooring in pan type floor access covers. Maintain floor pattern.
- 3.1.4.7 Terminate flooring at centerline of door in openings where adjacent floor finish or colour is dissimilar.
- 3.1.4.8 Install metal edge strips at unprotected or exposed edges where flooring terminates.
- 3.1.4.9 Finish stair risers and stair stringers with resilient tile and install prior to tread material.
- 3.1.4.10 Install stair nosings, stair treads and stair risers one piece for full width of stair. Adhere over entire surface and fit accurately.
- 3.1.4.11 Lay out base to keep number of joints at minimum. Base joints at maximum length available or at internal or premoulded corners.
- 3.1.4.12 Install base straight and level to variation of 1:1000.
- 3.1.4.13 Scribe and fit to door frames and other obstructions. Use premoulded end pieces at flush door frames.
- 3.1.4.14 Cope internal corners. Use premoulded corner units for right angle external corners. Use formed straight base material for external corners of other angles. Wrap around toeless base at external corners.
- 3.1.4.15 Remove excess adhesive from floor, base and wall surfaces without damage.
- 3.1.4.16 Clean, seal and wax floor and base surface to flooring manufacturer's instructions and directions of Owner.

3.2 CONCRETE STAIR AND LANDING FINISHES

3.2.1 **General:**

3.2.1.1 Provide clear concrete finishes only in the following areas:

3.2.1.1.1 Service stair locations.

3.2.2 **Materials/Finishes:**

3.2.2.1 Penetrating surface sealer to [CAN/CGSB-25.20], Type 2 - water based, VOC compliant, clear. Sealer to be approved by Owner before application.

3.2.3 **Fabrication/Installation:**

3.2.3.1 Prepare surfaces in strict accordance with manufacturer's written instructions. Meet with manufacturer's representative to review surface conditions, compatibility, and substrate dampness level. Perform test patch and obtain manufacturer's representative approval prior to installation.

3.2.3.2 Surface Sealer Application: Where concrete is to be exposed, apply penetrating sealer in strict accordance with manufacturer's written instructions. Apply to surfaces to refusal.

***End of Section***