

1 General

1.1 **SUMMARY**

.1 Section Includes

- .1 Products, equipment and services necessary to complete the Work of this section.

1.2 **REFERENCES**

.1 Conform to the latest edition of the following:

- .1 AODA - Accessibility for Ontarians with Disabilities Act
- .2 TADG - Toronto Accessibility Design Guidelines

1.3 **SUBMITTALS**

- .1 Submit manufacturer's specifications and technical data, installation instructions, as required, and catalogue cuts and templates where required to explain the construction and incorporate it into the project.
- .2 Submit shop drawings showing complete fabrication details for all stair nosings, nonslip step edge, and photoluminescent strips.
- .3 Samples: Submit two samples illustrating colour and finish.

.4 Mock-up:

1.4 **DELIVERY, STORAGE AND HANDLING**

- .1 Deliver packaged materials in original, undamaged containers with manufacturer's labels and seals intact. Handle and store materials in accordance with manufacturer's and Supplier's recommendations to prevent damage thereto.

1.5 **PROTECTION**

- .1 Protect the Work of this section from damage of any kind. Protect other work from damage resulting from Work of this section. Replace damaged work which cannot be repaired, cleaned or restored.

2 Products

2.1 **TACTILE WALKING SURFACE INDICATORS**

.1 Surface Applied Composite Polymer Tile (TA-1a)

- .1 Engineered polymers truncated dome tile with beveled edges, surface mounted and secured with adhesive and fasteners matching the colour of the tile.
 - .1 Application: Interior and existing exterior applications, existing cured concrete surfaces where a detectable warning system is required, curb ramps, pedestrian crossings, parking areas, wheelchair ramps, top and bottom of stairs, or platforms.
 - .2 Sizes: 305 x 305 mm, 610 x 610 mm, 610 x 915, 610 x 1220 mm, 610 x 1524 mm or unless indicated otherwise.
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- .3 Colour: Federal Yellow or as selected by Consultant from manufacturer's standard colours.
 - .4 Acceptable Manufacturer: Access Tile® by Kinesik Engineered Products
 - .2 Replaceable Cast In Place Polymer Tile (TA-1b)
 - .1 High density truncated domes with diamond grip pyramid micro texture, slip resistance in wet and dry conditions, installed directly into wet set concrete. Nylon composite, self-threading, corrosion resistant anchor and stainless-steel fastener allowing for re-installation.
 - .1 Application: Exterior use for new concrete application for curb ramps, pedestrian crossings, vehicular passage ways, parking areas, top and bottom of stair landings, and platforms
 - .2 Sizes: 305 x 305 mm, 610 x 610 mm, 610 x 915 mm, 610 x 1220 mm, 610 x 1524 mm or unless indicated otherwise. Contact Manufacturer for additional sizes available.
 - .3 Colour: Federal Yellow or as selected by Consultant from manufacturer's standard colours.
 - .4 Acceptable Manufacturer: Access Tile® by Kinesik Engineered Products
 - .3 Surface Applied Fire-Resistant Composite Polymer Tile (TA-1c)
 - .1 Composite truncated dome tile with beveled edges meeting ULC-S102.2 fire standard (less 25 flame and 50 smoke).
 - .1 Application: Interior application at exit stair wells, vestibules to exit stairs and lobbies, corridors.
 - .2 Sizes: 305 x 305 mm, 305 x 1220 mm, 610 x 610 mm, 610 x 915 mm, 610 x 1220 mm, 610 x 1524 mm or unless indicated otherwise. Contact Manufacturer for additional sizes available.
 - .3 Colour: Federal Yellow or as selected by Consultant from manufacturer's standard colours.
 - .4 Acceptable Manufacturer: Access Tile FR® by Kinesik Engineered Products
 - .4 Surface Applied Vitrified Polymer Tile (TA-2a)
 - .1 Diamond-hard vitrified polymer composite with bevelled edges, weather and wear resistance. Slip Resistance of Tile when tested by ASTM C1028 of 0.80 wet and dry static coefficient of friction on top of domes and field area.
 - .1 Application: Interior non-fire rated and exterior application in existing cured concrete surfaces where a detectable warning system is required, curb ramp, parking areas, pedestrian crossings, top of stairs or where a change in elevation greater than 250mm or a slope steeper than a ratio of 1:3.
 - .2 Sizes: 160mm x 610mm, 610mm x 915mm, 610mm x 1220mm, 610mm x 1524mm, or contact Manufacturer for additional sizes available.
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- .3 Colour: Federal Yellow or as selected by Consultant from manufacturer's standard colours.
 - .4 Acceptable Manufacturer: Armor Tile® by Kinesik Engineered Products
 - .5 Cast in Place Vitrified Polymer Tile (TA-2b)
 - .1 Diamond-hard vitrified polymer composite detectable warning tile with, truncated domes and integral embedment flanges, weather and wear resistance. Minimum 0.8 wet/dry static coefficient of friction in accordance with ASTM C1028.
 - .1 Application: Exterior use for new concrete application and non-fire rated interior application, curb ramps, pedestrian crossings, parking areas, top of stairs landings or where the change in elevation is greater than 250mm or the slope is steeper than a ratio of 1:3,
 - .2 Sizes: 305 mm x 305 mm, 615 mm x 625 mm, 625 mm x 915 mm, 625 x 1220, 625 x 1524, unless indicated otherwise. Contact manufacturer for additional sizes available.
 - .3 Colour: Federal Yellow or as selected by Consultant from manufacturer's standard colours.
 - .4 Acceptable Manufacturer: ArmorTile® by Kinesik Engineered Products
 - .6 Resilient Rubber / Polymer Tactile Indicator Tile (TA-3)
 - .1 Flexible polymer tiles for attention indicators for warning (truncated domes) or directional indicators for way finding (bars).
 - .1 Application: Interior surface applied application, curb ramps, parking areas, top of stair landing, vehicular passage ways, or where the change in elevation is greater than 250 mm or the slope is steeper than in a ratio of 1:3. Interior applications ideal for laminate, parquet, VCT, sealed concrete or terrazzo flooring.
 - .2 Sizes: 300 mm x 300 mm x 3 mm, unless indicated otherwise
 - .3 Colour: as indicated on Drawings or selected by Consultant from manufacturer's standard colours.
 - .4 Acceptable Manufacturer: Eon Tile® by Kinesik Engineered Products
 - .7 Porcelain Tactile Tile (TA-4)
 - .1 Porcelain tactile walking surface indicator with truncated domes for warning, and direction indicators for wayfinding bars.
 - .1 Wayfinding Tile pattern parallel to principal direction of travel.
 - .2 Application: interior or exterior application for porcelain and other tiled floor applications, curb ramps, parking areas, top of stair landing, vehicular passage ways, or where the change in elevation is greater than 250 mm or the slope is steeper than in a ratio of 1:3.
 - .3 Sizes: 300 mm x 300 mm, unless indicated otherwise
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- .4 Colour: as indicated on Drawings or selected by Consultant from manufacturer's standard colours.
 - .5 Acceptable Manufacturer: Elan Tile® by Kinesik Engineered Products
 - .8 Permanent Cast-in-Place Cast-Iron Tactile Tile (TA-5)
 - .1 Lightweight cast iron plate truncated dome with integral texture for a slip resistant surface, permanently embedded into concrete and bolted connection.
 - .1 Application: Exterior – new concrete applications, curb ramps, pedestrian crossings, transit platforms, parking areas, top of stair landings or where the change in elevation is greater than 250 mm or the slope is steeper than in a ratio of 1:3.
 - .2 Sizes: 457mm x 610mm, 610mm x 610mm, 762mm x 610mm, 610mm x Various Radii
 - .3 Colour: Natural Uncoated Patina or as selected by consultant from manufacturer's powder coating options.
 - .4 Acceptable Manufacturer: Advantage Tactile Systems® by Kinesik Engineered Products
 - .9 Stainless Steel Surface Applied Plate Tactile Indicators (TA-6)
 - .1 Surface applied 316L marine grade stainless steel plate with truncated domes attention indicator or directional wayfinding bars.
 - .1 Application: Exterior and interior applications, wheelchair ramps, parking areas, top of stair landings, revolving door approaches, or where the change in elevation is greater than 250 mm or the slope is steeper than in a ratio of 1:3.
 - .2 Sizes: 305 mm x 305 mm or 305 mm x 610 mm
 - .3 Finish: Stainless steel
 - .4 Acceptable Manufacturer: Advantage One Plate® by Kinesik Engineered Products
 - .10 Individual Metallic Tactile Domes and Bars (TA-7, TA-8 & TA-9)
 - .1 Truncated Domes (TA-7)
 - .1 Interior application
 - .1 Individual 316L marine grade stainless steel installed on any type of flooring, for high aesthetic finish applications
 - .2 Application: Non-heritage floor and carpeting.
 - .3 Installation method: drilled
 - .4 Pattern: Concentric Ring Design.
 - .5 Acceptable Manufacturer: Advantage One® by Kinesik Engineered Products
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- .2 Exterior application
 - .1 Black Physical Vapor Deposition Coating (PVD) coated stainless steel. Carborundum Insert, Crosshatch or Concentric Ring Design
 - .2 Sizes: 22mm diameter x 4.5mm high, unless indicated otherwise
 - .3 Acceptable Manufacturer: Advantage One® by Kinesik Engineered Products
- .2 Guidance Bars (TA-8)
 - .1 Wayfinding, individual stainless steel, brass, or aluminum, Dome Pattern: Carborundum Insert, Crosshatch or linear groove design.
 - .2 Use: Interior application, installed on any type of flooring, for high aesthetic finish applications or non-heritage designated stairs.
 - .3 Pattern: Dome Pattern: Carborundum Insert, Crosshatch or Concentric Ring Design.
 - .4 Sizes: 280mm x 27mm, unless indicated otherwise
 - .5 Acceptable Manufacturer: Advantage One® by Kinesik Engineered Products
- .3 Truncated Domes (TA-9)
 - .1 Interior application
 - .1 Individual 316L marine grade stainless steel installed on any type of flooring, for high aesthetic finish applications.
 - .2 Pattern: Concentric Ring Pattern Design.
 - .3 Application: Heritage flooring
 - .4 Installed method: adhesive
 - .5 Acceptable Manufacturer: Advantage One® by Kinesik Engineered Products

2.2 **TEXTURAL AND COLOUR CONTRAST STRIP AND NOSING**

- .1 Slip resistance, weather resistance, UV resistance, stain resistance textural warning surfaces for edge and pathway marking with photoluminescent powder and non-slip materials. Configuration in accordance with Contract Drawings and conforming to manufacturer's printed instruction for accurate, secure installation Colour: as indicated on Drawings or selected by Owner.
 - .2 Non- Photoluminescent Non-Slip Strips (TA-11)
 - .1 Hard-wearing silicon carbide, integrally bonded to aluminum substrate, anti-slip protection for step edge.
 - .2 Application: Indoor and outdoor use
 - .3 Sizes: 37.3 mm or 51 mm x 1.8 mm thick, unless indicated otherwise
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- .4 Collection: "N-30 Series" by Kinesik Ecoglo
 - .3 Cast-In-Place Inserts (TA-12)
 - .1 Photoluminescent nosings installed in wet concrete, clear anodized aluminum finish, hard-wearing silicon carbide non-slip material integrally bonded to the aluminum substrate.
 - .2 Application: Indoor and outdoor use in poured concrete flat and ramp applications and concrete filled steel pan stairs.
 - .3 Sizes: 51 mm or 54.6 mm x 9.5 mm thick, unless indicated otherwise
 - .4 Collection: "S-1 Series" by Kinesik Ecoglo
 - .4 Photoluminescent Stair Nosing
 - .1 Flat Stair Nosing (TA-16)
 - .1 Photoluminescent anodized right-angled aluminum flat step nosing, clear anodized aluminum finish.
 - .2 Application: Indoor and outdoor use on concrete, timber, tiles, steel, checker plate and thin carpeted stairs.
 - .3 Sizes: 68.8 mm x 19.1 high, unless indicated otherwise
 - .4 Collection: "F4 or F5B" Series by Kinesik Ecoglo
 - .2 Tile Stair Nosing (TA-17)
 - .1 Photoluminescent tile nosing, anodized aluminum profile, integrated anti-slip contrast strips, all-weather slip resistance.
 - .2 Application: Indoor and outdoor use on tiled stairs that are between 5mm and 8.5mm thick
 - .3 Size: 86.9 mm x 19.5 mm high, unless indicated otherwise
 - .4 Collection: "M4 Series" by Kinesik Ecoglo
 - .3 Carpet Stair Nosing (TA-18)
 - .1 Photoluminescent anodized carpet stair nosing with integrated anti-slip contrast strips, all-weather slip resistance, anodized aluminum finish.
 - .2 Application: Indoor use on carpeted stair landings and ramps in public stairways, exit ways and other applications.
 - .3 Size: 68 mm x 33.3 high, unless indicated otherwise
 - .4 Collection: "C4 or RC4 Series" by Kinesik Ecoglo
 - .4 Poured Concrete Nosing (TA-19 & TA-20)
 - .1 (TA-19): Integrally extruded, heat treated extruded, aluminum alloy 6063-T-6, filled with a mixture of virgin aluminum oxide and silicon carbide abrasive granules in an epoxy binder.
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- .1 Application: Outdoor use in poured concrete, terrazzo stairs or non-heritage designated stairs.
- .2 Size: 53.9 mm, 79.4 mm or 101.6 mm x 9.5 thick, unless indicated otherwise
- .3 Collection: "FA-211D", FA-311D or FA-411D by American Safety Tread.
- .2 (TA-20): Photoluminescent nosing installed in wet concrete, clear anodized aluminum finish, hard wearing silicon carbide non-slip material integrally bonded to the aluminum substrate.
 - .1 Application: Indoor and Outdoor use in new poured concrete stairs, where the nosing insert is wet-set, and the contrast strip is installed into the nosing post-construction to prevent fouling.
 - .2 Size: 55.8mm x 19.7mm, unless indicated otherwise
 - .3 Colour: Black (TA-20a), Grey (TA-20b), Yellow (TA-20c)
 - .4 Collection: "S2 or S4" Series by Kinesik Ecoglo
- .5 Carborundum Non-slip Nosing Inserts – Recessed (TA-21)
 - .1 Indoor anti slip stair nosing, aluminum alloy base with carborundum insert
 - .1 Application: Internal and external use, suitable to set into concrete, stone, marble, terrazzo, carpet, vinyl, ceramic, wood or steel or heritage designated stairs.
 - .2 Colour: Black or as selected by Consultant

2.3 ACCESSORIES

- .1 Fasteners and anchors:
 - .1 As recommended by manufacturer for secure anchorage of tactile warning surfaces. Provide noncorrosive fasteners that are compatible with each material joined, and complying with the following:
 - .1 Furnish color appropriate nylon sleeve, stainless-steel fasteners for exterior use.
 - .2 Fastener Heads: for nonstructural connections, use flathead or oval countersunk screws and bolts with tamper-resistant heads, colored to match tile.
- .2 Adhesives:
 - .1 Tactile Walking Surface Indicators:
 - .1 Adhesives: As applicable for type of installation. Acceptable manufacturers Mapei, Bostik, Sika, Tactile Bond & Seal.
 - .2 Textural and Colour Contrast Warning Strip and Nosing:
 - .1 Adhesives: polyurethane adhesive, mechanically fastened or as recommended by the manufacturer

.3 Sealant:

.1 As recommended by manufacturer for sealing perimeter of tactile warning surfacing unit.

3 Execution

3.1 **PREPARATION**

.1 Thoroughly clean the surface with an appropriate floor cleaner, ensuring all paint or sealant is removed.

.2 Provide templates and rough-in measurements as required.

3.2 **INSTALLATION**

.1 Install accessories to manufacturer's written instructions.

.2 Install securely and rigidly, bonded to substrate.

End of Section
