Specification for Tactile Walking Surfaces

Amendment to TS 3.70, Construction Specification for Concrete Sidewalk and Concrete Raised Median

TS 3.70.02 REFERENCES

Section 3.70.02 of TS 3.70 is amended by the addition of the following:

City of Toronto Standard Drawings
T-310.030-7 Signalized Intersection Configurations of Pedestrian Crossings
T-310.030-8 Controlled Non Signalized Intersection Configuration of Pedestrian Crossings
T-310.030-9 Location of Dropped Curbs at Controlled Intersections
T-310.030-10 Tactile Walking Surface Indicator and Curb Ramp Detail
T-310.030-11 Tactile Walking Surface Indicator and Depressed Curb Detail

Canadian Standards Association
CSA B651-2012 Accessible Design for the Built Environment

American Society of Testing and Materials
ASTM C 1028 Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method
ASTM C 501-84 Standard Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abraser

Ontario Provincial Legislation
O. Reg. 191/11 Accessibility for Ontarians with Disabilities Act, 2005

TS 3.70.05 MATERIALS

Section 3.70.05 of TS 3.70 is amended by the addition of the following subsection:

TS 3.70.05.05 Tactile Walking Surface Indicators

Tactile walking surface indicators shall be according to drawing T-310.030-10 and T-310.030-11 and be made of cast iron, according to CSA B651-2012 and follow Ontario Regulation 191/11, and meet the following requirements:
<table>
<thead>
<tr>
<th>Standard</th>
<th>Property</th>
<th>Minimum Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM A 8</td>
<td>tensile strength</td>
<td>class 30 B</td>
</tr>
<tr>
<td>ASTM C 1028</td>
<td>slip resistance</td>
<td>dry 0.8 min, wet 0.65 min</td>
</tr>
<tr>
<td>ASTM C 501-84</td>
<td>wear resistance</td>
<td>wear index: &gt; 15</td>
</tr>
</tbody>
</table>

The truncated domes shall be of uniform size and shape. Units shall be uniform in texture, be free from pouring faults, sponginess, cracks, blowholes, and other defects, and have clean-cut and well-defined edges. All surfaces shall be bare, without any coating, and be uniform and free of flaking rust or mounts of rust or debris. Tactile walking surface indicators shall have ribs cast to the underside of the unit, have vent holes, and have a minimum plate thickness of 5 mm.

**TS 3.70.07 CONSTRUCTION**

**TS 3.70.07.15 Ramps**

Subsection 3.70.07.15 of TS 3.70 is amended by deleting the first sentence in its entirety and replaced with the following:

Sidewalk accessibility ramps shall be according to drawing T-310.030-7, T-310.030-8, T-310.030-9, T-310.030-10 and T-310.030-11 with tactile walking surface indicators and shall be incorporated at every location with a pedestrian crossing or as specified in the Contract Documents.

Subsection 3.70.07.15 of TS 3.70 is amended by the addition of the following clause:

**TS 3.70.07.15.01 Installation of Tactile Walking Surface Indicators**

Tactile walking surface indicators shall be set and pressed into wet concrete to final elevation according to manufacturer's recommendations. Remove any wet concrete that may spill onto tactile walking surface indicator surface.

**TS 3.70.09 MEASUREMENT OF PAYMENT**

Section 3.70.09 of TS 3.70 is amended by the addition of the following subsection:

**TS 3.70.09.02 Tactile Walking Surface Indicator**

Measurement of the above tender item shall be along the curb edge of the tactile walking surface indicators in linear metres (m).
TS 3.70.10 BASIS FOR PAYMENT

Section 3.70.10 of TS 3.70 is amended by the addition of the following subsection:

**TS 3.70.10.03 Tactile Walking Surface Indicator - Item**

Payment at the Contract Price for the above item shall be full compensation for all labour, Equipment and Material to do the work. Payment shall include the supplying and placing formwork, the supplying, placing, consolidating and finishing of the concrete, the supplying and placing of tactile walking surface indicators, and the curing and protection of the concrete curb, gutter and sidewalk.

**Note: This amendment will be incorporated into S 3.70 with a release date of April 2014.**