

**ITEM 608.0101 03 - FIBER REINFORCED PORTLAND CEMENT CONCRETE
SIDEWALK**

DESCRIPTION:

Construct Portland cement concrete sidewalks as shown on the contract documents according to §608 of the Standard Specifications, using synthetic fiber reinforced concrete.

MATERIALS:

Fiber - Synthetic, fibrillated fibers, specifically engineered and manufactured for use as secondary concrete reinforcement. Fiber shall be approved prior to use by the Director, Materials Bureau.

Fiber Concrete Production. Apply §501, Portland Cement Concrete - General, and add 0.9 kilograms of fiber per cubic meter of concrete during batching. Batch the appropriate volume of concrete such that whole standard size bags are used. It is the responsibility of the producer to indicate on each delivery ticket the amount of fibers added to the concrete.

Class D Concrete may be substituted for Class A concrete at the contractor's option unless otherwise indicated in the contract documents.

CONSTRUCTION DETAILS:

Apply §608-3.01, except as follows:

1. Waive the requirement for welded wire fabric.
2. Provide a 13 mm non-extruding pre-molded expansion joint where the sidewalk line intersects a building, walk, permanent structure or other location designated by the Engineer. Expansion joints will meet the requirements of § 705-07 and extend from the surface to the subgrade.
3. Unless otherwise specified, score the concrete surface to a minimum depth of $\frac{1}{4}$ the thickness of the slab at intervals of 1.5 m.
4. Tool the edges, joints, and scored areas with a 6 mm radius edging tool.

Concrete delivered which does not contain the proper dosage of fibers, based on the delivery ticket, or does not visually appear to have fibers incorporated into the concrete, will be subject to rejection.

METHOD OF MEASUREMENT: Apply §608-4.01

BASIS OF PAYMENT: Apply §608-5.01 There is no additional compensation for using Class D concrete.