

ITEM 560.96 01 - STONE COPING (Linear Meter)
ITEM 560.97 01 - STONE COPING (Square Meter)

DESCRIPTION:

Furnish and place stone coping on walls at locations indicated on the plans, or where directed by the Engineer.

MATERIAL REQUIREMENTS:

Stone Coping - durable, smooth cut exposed surfaces. Type will be as indicated in the contract documents. Submit samples to the Engineer for color approval.

Bar Reinforcement, Grade 400 (Dowels)	§709-01
Preformed Closed Cell Foam Material, Type II Joint Filler	§705-08
Caulking Compound for Structures	§705-06

Dowels - galvanized in accordance with §719-01, Type I.

Expansion joint sealant (caulk) - match the color of the mortar, as approved by the Engineer.

Masonry Type S Mortar Ingredients

Portland Cement, Type II	§701-01
Masonry Mortar	§705-21
Mortar Sand	§703-03
Concrete Sand	§703-07
Water	§712-01

Make a Type S Mortar (with Type S or N Masonry Cement) by loose volume parts as follows:

Portland or Blended Cement	Masonry Cement	Sand
0	1 (Type S)	2¼ to 3
1	2 (Type N)	6¾ to 9

After adding all ingredients (including water) to a mechanical mixer, mix for 3 to 5 minutes to entrain air and produce a workable and uniform consistency. Discard all unused mortar 2½ hours after mixing. Mortars that have stiffened due to evaporation may be re-tempered up to 2½ hours after mixing by adding water to restore a workable consistency.

The mortar will be accepted by inspection, subject to the approval of the Engineer.

CONSTRUCTION DETAILS:

Drill the dowel anchor holes in the wall and the coping stone to the size, depth and location indicated on the plans, or as directed by the Engineer. Use oil free air or water during drilling.

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Brush a neat cement paste on the bottom of each coping stone just prior to setting it in mortar, being careful not to cover overhanging areas. Anchor the dowels in place by filling the anchor holes with masonry mortar during coping stone installation. Set the coping stone on a full mortar bed in a manner to form a full end joint in one operation. Tamp the stone down to line and grade of the wall.

Tool all joints flat and flush with the surface of the coping stone to form a dense, hard, smooth finish.

Align expansion joints in the coping with expansion joints in the wall to form a continuous vertical joint.

Install the stone coping only when the ambient and all stone temperatures are 5° C or more. If these temperatures are expected to be less than 5° C, use heating or insulating procedures, approved by the Engineer, for at least the first 24 hours after installation. If the ambient air temperature exceeds 32°C, spread the mortar bed less than 1½ meters ahead, and set the stone within 1 minute.

Protect the completed masonry from drying and keep damp for a period of at least 3 days in hot dry weather when ordered by the Engineer.

METHOD OF MEASUREMENT:

The Engineer will measure the work as the number of square and/or linear meters of stone coping, including mortar and expansion joints. The square measurement will be the length by the width shown on the plans.

BASIS OF PAYMENT:

Include the cost of all labor, materials and equipment necessary to complete the work in the unit price bid.