

## SUPPLEMENTAL INFORMATION

# COPING AND STOOLS / EXTERIOR CUBIC STONE COPING AND WALLS

### SECTION 1. INTRODUCTION

**1.01 Installation Method.** There are several methods by which cubic coping and walls can be installed. Consideration should be given to the various features of each method in making a selection for a specific installation. See information about installation methods in this section's Data Sheet, Part 3, and illustrations of examples at the close of this section.

### SECTION 2. DESIGN CRITERIA

**2.01 Physical property Values.** Final design should always be based on specific physical property values for the stone to be used. These values may be obtained from the Stone Supplier.

**2.02 Backup Walls.** When exterior cubic stone is set in conjunction with masonry load-bearing walls, the masonry backup should be solid brick or concrete. If hollow load-bearing concrete block is used to support and anchor stone, it must be reinforced with brick, concrete, or by filling the voids full of concrete two block courses in each story height.

**2.03 Bonding.** It is recommended for exterior coping that there be 100% coverage of bonding material between the stone and the substrate.

**2.04 Bond Stones.** For cubic walls, the effectiveness of bonding is improved when bond stones are staggered at random. The number or percentage of bond stones depends on design; from 25% to 30% is generally sufficient. Bond stones should bear on floors and beams. Provide an open joint at intervals for expansion gasket.

**2.05 Corrosion-Resistant Metals.** All metals that contact the stone must be corrosive-resistant.

**2.06 Oil-based putty and sealants** should never be used in contact with stone.

**2.07 White portland cement** is recommended for light-colored granite and marble. White portland cement with a low alkali content is recommended for limestone.

*For additional information, refer to Chapter 13, Installation General Information.*

**2.08 Geographic Methods.** Some installation methods and materials are not recognized and may not be suitable in some geographic areas because of local trade practices, building codes, climatic conditions, or construction methods. Therefore, while every effort has been made to produce accurate guidelines, they should be used only with the independent approval of technically qualified persons.

### SECTION 3. DATA SHEET - EXTERIOR CUBIC STONE COPING AND WALLS

#### 3.01 PRODUCT DESCRIPTION

1. **Basic Use.** Exterior masonry walls, caps, copings, and other cut stonework.
2. **Fabrication.** Exterior cubic stone units are precut and prefinished to dimensions specified on shop drawings, and are delivered to the job site ready to install.

3. **Finishes.** Abrasive, honed, and rough sawn finishes may be used for exterior cubic stone applications.
4. **Colors.** Most of the commercially available varieties are suitable.

### SECTION 4. TECHNICAL DATA

4.01 Each stone variety used for cubic stone coping and walls should conform to the applicable ASTM standard specification and the physical requirements contained therein. The specification for each stone type follows:

1. **Granite:** ASTM C615 Standard Specification for Granite Dimension Stone

### SECTION 5. INSTALLATION

**5.01 Preparatory Work.** Exterior cubic stone may be installed against an existing backup or concurrently with the backup wall. It is recommended that the General Contractor install continuous flashing for stone coping.

1. When ready for installation, stones should be cleaned on all sides, and all dirt and foreign material removed from all surfaces.

**5.02 Methods.** Stones should be set in a full bed of mortar with the vertical joints full of mortar. Joints should be raked out to a depth equal to the width of joint, and later pointed or sealed with an approved, nonstaining sealant.

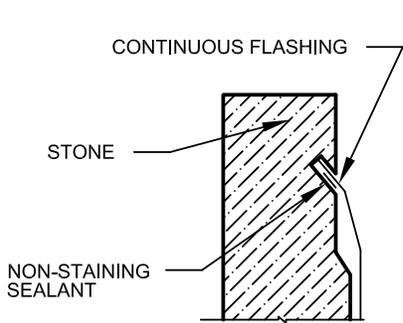
1. Expansion joints should be provided as required and kept free of mortar. Joint width may be maintained by using nonstaining, resilient cushions recessed 1" from exterior face. Joints should be at least 1-1/4" wide, except at control joints, where greater widths may be required.
2. All anchors, cramps, dowels, pins, supports, and similar items that contact the stone should be corrosion-resistant metals and should be securely attached to the structure and to the stone.

**5.03 General Precaution.** During construction, the General Contractor shall protect all stone from staining and damage.

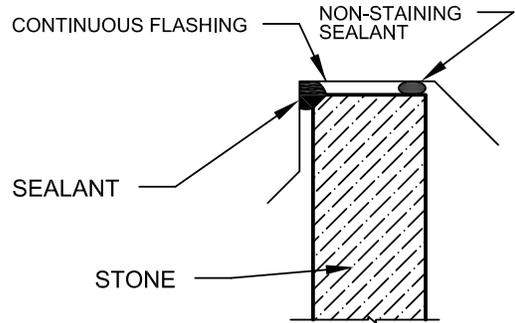
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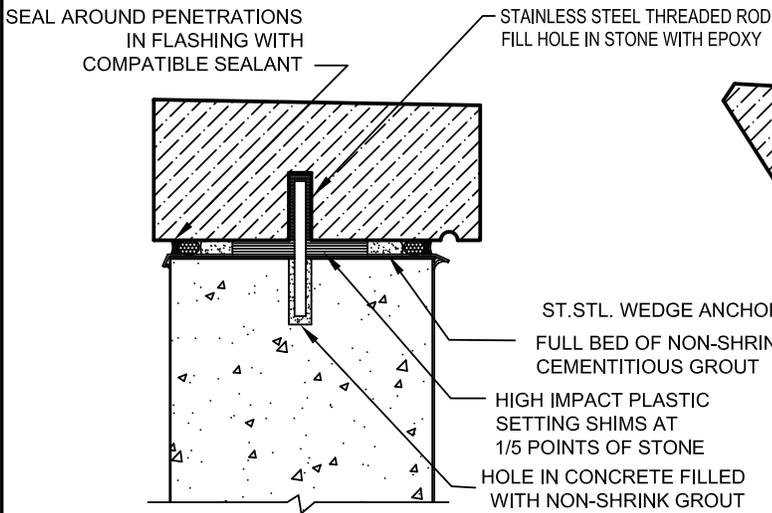


**1** PARAPET DETAIL

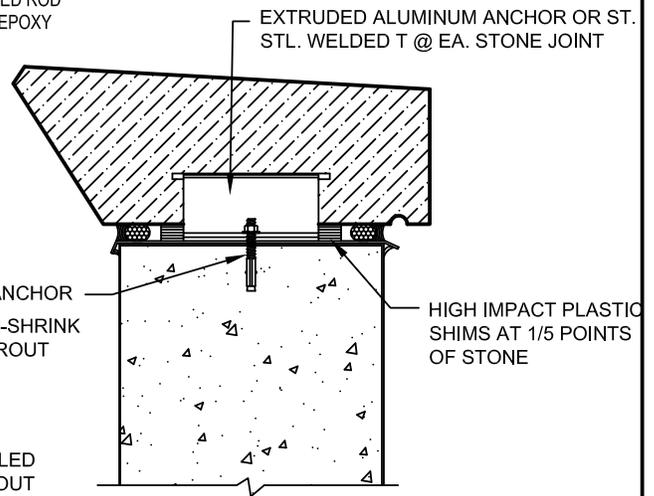


**2** PARAPET DETAIL

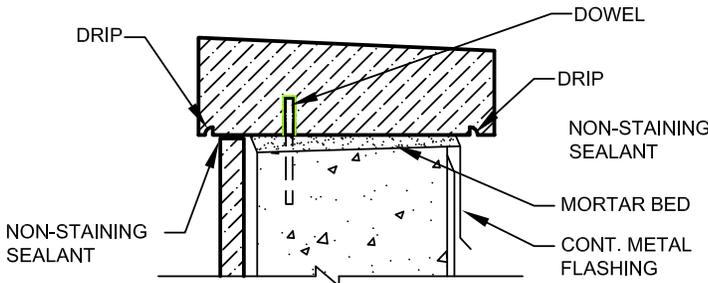
NOTE: MINIMUM RECOMMENDED STONE THICKNESS FOR THESE DETAILS IS 1-1/4".



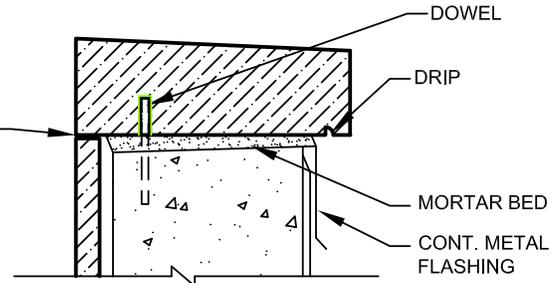
**3** COPING DETAIL



**4** COPING DETAIL



**5** COPING DETAIL



**6** COPING DETAIL



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| REV | DATE     |
|-----|----------|
| 0   | Aug 2006 |
| 1   | Oct 2006 |

### EXTERIOR STONE VENEER FLASHING & COPING DETAILS

MIA DIMENSION STONE DESIGN MANUAL VII

DRWG NO: 18-D-1

SCALE:  
3" = 1'-0"