

1.0 GENERAL

1.1 Related UBC Guidelines

- .1 Section 07 00 10 Building Envelope – General Requirements
- .2 Section 07 40 00 Cladding
- .3 Section 07 62 00 Sheet Metal Flashing and Trim

1.2 Related External Documents

- .1 Latest edition of the British Columbia Building Code (BCBC).
- .2 CSA S478 Section 6.3.5

1.3 Description

- 1. Section includes masonry design and accessories.

1.4 Coordination

- 1. In instances where conflicts are found between the UBC Technical Guidelines and provincial regulations or codes, please notify the UBCV Technical Review Team Architect or UBCO Facilities Management.
- 2. These guidelines are intended to be read by design consultants and their content integrated into construction drawings and specifications. Construction documents are not to reference the technical guidelines directly.
- 3. The Coordinating Registered Professional (CRP) is required to coordinate these requirements with other disciplines.
- 4. CRP to coordinate the structural review and ensure all exterior assembly details are reviewed by the Building Envelope Consultant.

1.5 Submittals

- .1 Submit required documents to consultants in accordance with Section 013300 Submittal Procedures
- .2 O&M Submittals
 - .1 Product specifications and type.
 - .2 Final reviewed shop drawings for masonry ties and support signed and sealed by a professional engineer registered in the Province of BC.

1.6 Quality Control and Assurance

- .1 Construction of mock-ups to be as per the project specifications.

2.0 DESIGN AND PERFORMANCE REQUIREMENTS

2.1 Design Requirements

- .1 Masonry, associated components, (and all materials in the wall assembly behind masonry) shall have a design service life of minimum 75-Years as per CSA S478 Section 6.3.5.
- .2 All masonry accessories to have design service lives compatible with masonry service life.
- .3 Provide details showing ties, masonry interfaces and support in drawings.
- .4 Exposed masonry walls to be provided with cap flashing with proper drip edges extending at least 10mm beyond the face of the wall to avoid drip lines.

2.2 Performance Requirements

- .1 Provide details showing ties, masonry interfaces and support in drawings.

3.0 **MATERIALS**

3.1 **Product Selection**

- .1 Components
 - .1 All masonry ties to be stainless steel two-part ties.
 - .2 Structural steel employed in the support of masonry and in the wall cavity shall be hot dip galvanized or stainless.
 - .3 Where a galvanized steel or aluminum surface will be in contact with mortar or masonry, the metal shall be over coated with a layer of bituminous or other equivalent barrier material bonded over 100% of its surface area.
 - .4 All flashings and other waterproofing accessories in the wall cavity shall be designed for a service life of 75 years. Materials considered capable of this service interval are:
 - .1 Neoprene rubber sheet.
 - .2 Thermo fusible SBS modified asphalt roofing membrane, fully reinforced, and fully bonded to substrate.
 - .3 Asphalt modified urethane coating, fully reinforced, fully bonded to substrate.
- .2 Finishes
 - .1 Exterior masonry walls to be finished with a clear water-based and penetrating silane/siloxane type coating after final cleaning.
 - .2 Exterior masonry wall surfaces to be treated with a water-based sacrificial anti-graffiti coating to a height of 8' minimum.

END OF SECTION