

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