

1.0 GENERAL

1.1 *Related Work and UBC Guidelines*

- .1 *Section 07 00 10 Building Envelope – General Requirements (for roof safety requirements)*
- .2 *Section 07 50 00 Membrane Roofing*
- .3 *Section 07 62 00 Sheet Metal Flashing and Trim*

1.2 *Related External Documents*

1. *RCABC Roofing Practices Manual.*
2. *WorkSafe BC OHS Regulations.*

1.3 *Description*

1. *Roof hatches and service ladders.*

1.4 *Coordination*

1. *The Guidelines apply to all work completed within buildings on both UBC Vancouver and UBC Okanagan campuses unless stated otherwise.*
2. *In instances where conflicts are found between these guidelines and provincial regulations or codes, please notify the UBCV Technical Review Team Architect or UBCO Facilities Management.*
3. *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.*
4. *The Coordinating Registered Professional (CRP) is required to coordinate these requirements with other disciplines.*

1.5 *Submittals*

- .1 *Submit required documents to consultants in accordance with Section 013300 Submittal Procedures*
- .2 *O&M Submittals*
 - .1 *Product specifications, type and anchoring methods.*
 - .2 *Shop drawings (including all interface details) sealed and signed by a Professional Engineer registered in the Province of British Columbia.*
 - .3 *Manufacturer performance test data to confirm performance criteria.*
 - .4 *Manufacturers Safety Data sheet (MSD) for all toxic or potentially toxic materials.*
 - .5 *Maintenance Data*
 - .1 *As-installed hardware.*
 - .2 *Source for replacement parts.*
 - .3 *Maintenance instructions*

2.0 DESIGN AND PERFORMANCE REQUIREMENTS

2.1 *Design Requirements*

- .1 *Roof Hatches*
 - .1 *Roof hatches are acceptable only in the following circumstances:*
 - .1 *Roofs with **no rooftop equipment** requiring maintenance may be accessed using an internal *ship's* ladder and roof hatch, size 3'-0" x 2'-6", insulated integral curb and flashing, c/w externally mounted safety grab handle and non-removable pin (NRP) hinges.*
 - .2 *Roofs having **rooftop equipment requiring occasional maintenance** may be accessed using an internal ship's ladder) and roof hatch, size 2'-6" x 4'-6" or a *service stair* and roof hatch size 2'-6" x 8'-0". Hatch to have insulated integral curb,*

and flashing, externally mounted safety grab handle *and* non-removable pin (NRP) hinges.

- .3 **UBCO only** – *Roof hatches are to be supplied with* guards around roof hatches. These are to be a permanent (side-mounted and bolted) OSHA and Worksafe compliant roof hatch guardrail system with a self-closing safety gate.

.2 **Roof Ladders**

- .1 *Roofs having rooftop equipment requiring regular maintenance or to a penthouse at roof level are to be accessed via a stairway extending to the roof or through provision of a ladder. Roof ladder design to be as follows:*

- .1 *Only ship ladders are acceptable. A variance will need to be granted for the use of vertical ladders.*
- .2 *Ladder dimensions to be as per WorkSafe BC standards.*

2.2 **Performance Requirements**

- .1 *Roof hatches and ladders to conform to WorkSafe BC OHS requirements and standards.*

3.0 **MATERIALS**

3.1 **Product Selection – NOT USED**

3.2 **Finishes**

- .1 *Roof hatch guardrail to be of anodized aluminum or galvanized steel.*
- .2 *Standard exposed ladder finish: Galvanized.*

END OF SECTION