

1.0 **GENERAL**

1.1 **Related *Work and UBC Guidelines***

- .1 *Section 03 33 00 Architectural Concrete*
- .2 *Section 07 00 10 Building Envelope – General Requirements*
- .3 *Section 07 25 00 Weather Barriers*
- .4 *Section 07 40 00 Cladding*
- .5 Section 08 00 10 Openings – General Requirements
- .6 *Section 09 90 00 Painting and Coating*
- .7 *Divisions 26 and 28*
- .8 Section 27 05 05 Communication Rooms Design Guidelines

1.2 **Related External Documents**

1. Latest edition of the British Columbia Building Code (BCBC), including accessibility requirements.
2. Canadian Steel Door Manufacturers Association (CSDMA), Recommended Specifications for Commercial Steel Doors and Frames.
3. Fire-Rated Door Assemblies: CAN/ULC-S104-10 - Standard Method for Fire Tests of Door Assemblies; CAN/ULC-S105-09 - Standard Specification for Fire Door Frames Meeting the Performance Required by CAN4-S104; labeled and listed by ULC, cUL, Warnock Hersey, or other testing agency.
4. NFPA 80 for installation of fire rated doors and frames.

1.3 **Description**

1. *Section includes* hollow metal doors (HMD), insulated metal doors (IMD) and pressed steel frames (PSF).

1.4 **Coordination**

1. *The Guidelines apply to all work completed within buildings on both the 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.*
5. *Provide door and door hardware schedules for review by UBC Access and Security and Locksmith Shop prior to tender and Building Permit.*
6. *Genie or manlift access requirements will need to be coordinated if only providing single exterior doors due to security reasons. Review with UBC Access and Security.*

1.5 **Submittals**

1. *Design phase:*
 - .1 *Submit required documents to consultants in accordance with Section 013300 Submittal Procedures*
 - .2 *For Construction Office projects only, provide paint colour samples for review.*
2. *Handover – O&M submittals:*
 - .1 *Provide final reviewed door shop drawings and colour specifications for painted doors.*
 - .2 *Provide door hardware list and location.*
 - .3 *Provide manufacturer installation instructions and test data, for fire rated doors.*

2.0 DESIGN AND PERFORMANCE REQUIREMENTS

2.1 *Design Requirements – Windows and Curtain Wall Systems*

- .1 Standard and minimum door size shall be 915 mm wide x 2,134 mm high x 44 mm thick (3'-0" x 7'-0" x 1 3/4").
- .2 Maximum door height: 2,134 mm (7'-0"). *A variance will need to be granted for over-height doors.*
- .3 *All materials should be shop fabricated and finished, with no field cutting of materials allowed.*
- .4 *Glazed doors must have stiles and rails. No glazed doors with only top and bottom rails or patch hardware. Stile width of glazed doors shall be 127 mm (5") x 45mm (1 3/4") minimum to accept surface-mounted panic hardware and mortise locksets.*
- .5 Doors must have mid-rails if equipped with *panic hardware and* exit devices.
- .6 Avoid *exterior* double doors where security is a requirement. *Exterior exit doors with panic hardware or 'pass out' locksets must be singles with in their own frames.*
- .7 Provide lockable removable mullions at double doors where extra width is required such as for *genie or manlift access into the interior*, moving equipment and supplies, etc.
- .8 *New projects of recent have had gangs of single entrance doors. In such instances, ensure width of doors can accommodate the passage of a genie or manlift access into the interior, moving equipment and supplies, etc.*
- .9 Frames to be fully-welded. *A variance will need to be granted for knock-down frames.*
- .10 For security reasons from within a building, *provide for* EXIT alarms on certain Exit-Only doors.
- .11 Provide electrical pathways to mid hinge, strike and header of frames for future electrification of openings. Must include pull string to each pathway
- .12 Provide back boxes *for electrical wire or conduits.*

2.2 **Performance Requirements**

- .1 Doors shall be designed to have a 25-year service life.

3.0 MATERIALS

3.1 *Product Selection*

- .1 Interior Doors: *shall be* 18 gauge (1.2 mm), galv. to ZF075 wiped zinc coating, honeycomb structural core.
- .2 Exterior Doors: shall be 18 gauge (1.2 mm), galv. to Z275 (G90) zinc coating, insulated polyurethane insulation core.
- .3 Interior Frames: shall be 16 gauge (1.6 mm), galv. to ZF075 wiped zinc coating; galvanizing on anchors to match frames.
- .4 Exterior Frames: shall be 16 gauge (1.6 mm), galv. to Z275 (G90) zinc coating, galvanizing on anchors to match frames.
- .5 Finishes: All new doors scheduled to be painted are to be hollow metal. Finish paint coat must be applied before final hardware install.

END OF SECTION