
08 10 00 DOORS AND FRAMES

08 10 01 GENERAL

Design Considerations

1. Building entrances shall typically be aluminum, or wood when required to match an existing condition. Use steel exterior doors at locations with low public traffic (utility rooms, service access, etc.). Exterior metal doors and frames shall be thermally broken wherever possible.
1. Wood doors are typical for all interior locations. Use steel doors alternatively in high traffic applications, to satisfy required fire resistance ratings, for security purposes, or to match an existing condition.
2. Typical door sizes:
 - i. Typical thickness: 44mm.
 - ii. Minimum stile and top rail width: 125mm aluminum, 150mm wood doors.
 - iii. Bottom rail: min 250mm.
 - iv. Minimum width: 900mm single and 1800mm double doors.
 - v. Mechanical rooms: minimum width 1200mm, single or double doors. Double doors shall have the active leaf 900mm (or 915mm) wide.
3. Interior doors and windows used with modular wall partitions are desirable in office and meeting room locations to minimize the impacts of churn.
4. The University encourages the use of translucent glass panels in interior doors, to provide natural light in corridors. Frameless glass doors shall be avoided.
5. All fasteners within secured areas shall be tamper resistant torx (or pin-in-torx, or torx TR).
6. Interior door locations shall provide adequate clearance behind the door opened at 90° and the adjacent wall. The clearance between the edge of hinge side frame and adjacent wall:
 - i. 100mm – typical at offices, classrooms, labs, etc.
 - ii. 650mm – typical at filing rooms, lunchrooms, office supply storage, etc.
7. Shop drilling and notching shall be specified wherever possible.

Quality Assurance

1. Exposed exterior doors, particularly glazed assemblies within curtain wall or window wall assemblies shall specify required performance criteria as outlined in Section 08 50 00 Windows.
2. Provide requirements for third party testing and verification of performance criteria as outlined in: Sections 01 40 00 Quality Requirements and 08 50 00 Windows.

08 13 00 METAL DOORS

Steel Doors

1. Use hollow core, welded assemblies (pressed seams not acceptable).
2. Thickness of materials (minimum / mm):
 - iii. Face Sheet – interior doors typical 1.2 (18 gauge)
 - iv. Face Sheet – exterior doors 1.6 (16 gauge)

- v. Top and Bottom Channels 1.2 (18 gauge)

Frames

1. Use steel frames for typical interior doors and windows.
 - i. All frames to be welded pressed steel. Knock-down steel frames are not acceptable.
 - ii. Throat size to suit GWB wall construction for wrap around assembly.

08 14 00 WOOD DOORS

Faces (Rated and Non-Rated Assemblies)

2. Type 1: Hardwood Veneer:
 - i. Solid core, rotary cut sound birch or maple.
 - ii. Finish: clear factory coating, satin sheen.
 - iii. Application: typical, general offices, classrooms.
3. Type 2: Hardboard, solid core, painted:
 - i. Application: residences, other locations as approved by FMGT.
4. Core: Solid wood or composite core (mineral core is not acceptable).

08 50 00 WINDOWS

08 50 01 GENERAL DESIGN REQUIREMENTS

Windows, Curtain Wall and Glazing

Finish

1. Aluminum:
 - i. Clear anodized typical for new construction.
 - ii. Other finish to match existing where necessary.
 - iii. Provide physical samples to FMGT for approval during design stage.
2. Composite: Light colours only.

Hardware

1. Premium hardware as recommended by manufacturer for compatibility.
2. Latching/locking devices shall be cam handle type (rotor operators, push bars are not acceptable).
3. Finish: to complement frames or match/complement existing in-situ products. Provide samples to FMGT for approval during design stage.

Operable Windows

1. Vents: Awning or casement outswing vents.
2. Screens: Shall not be provided, except some ground floor rooms, reviewed on a case by case basis.
3. Operable windows in laboratories and other specialty spaces are to be installed with specialized hardware to suit opening only during a mechanical system failure or shutdown.

Quality Assurance

1. Mock-up installations Windows, Doors Skylights, Curtain Walls, Storefronts, etc.for third party air and water penetration verification testing.

08 71 00 DOOR HARDWARE

1. Use one manufacturer's products for related items.
2. Aluminum store front doors must use the hardware indicated below, including FBB/NRP leaf hinges (continuous or pivots not acceptable).
3. Products: To simplify maintenance and minimize parts stock, the following are University standards for all new and existing buildings, including student residences suites. ALL PRODUCTS LISTED BELOW SHALL BE AS SPECIFIED (NO SUBSTITUTIONS).

Locksets, Locks and Latches

1. Finish:
 - i. TYPICAL: satin chromium (#626)
 - ii. Where necessary to match existing: oil rubbed bronze (#613)
2. Electric hardware is preferred over electric strikes.
3. Locksets – Keyed:
 - i. Schlage “ND” series – 6-pin cylinder – Rhodes lever handle (handle types other than lever are acceptable only when matching existing style takes priority, on a case by case basis).
 - ii. Key schedule and Keyway to be supplied by UVic.
4. Locksets – Key Pad: Schlage AD200CY70-PRK-RHO-626-PD with key override.
 - i. This item shall be installed at User's request with cost to the department (not the project).
5. Deadbolts: Schlage B600 series (installed 150mm o/c above locksets).
6. Special function locksets may be used only with the FMGT Executive Director approval.

Exit Devices

1. Panic Hardware:
 - i. Von Duprin “33/35” or “98/99” series.
 - ii. Cylinder dogging is required unless using for EL hardware.
 - iii. Interior doors (lecture halls and corridor doors): where vertical rod is required use surface mounted less bottom rod application.
 - iv. Exterior doors (store front aluminum doors): where vertical rod is required internal rods are acceptable, top and bottom rods are required.

Door Closers and Accessories

1. Door closers: shall be surface mounted (not recessed), heavy-duty, made by a manufacturer having service facilities in British Columbia, time adjusted for wheelchair entry at regular speed:
 - i. Acceptable product: LCN 4040 XP series, adjusted to level 3 for interior doors and level 5 for exterior doors with “back check selector valve” set on for all parallel arm applications.
 - ii. Provide thru-bolt connection for closers used with particleboard filled doors (i.e. typical solid core).

2. Astragal: MUST be installed (on keyed side of door) at all double doors with one leaf fixed, as required to provide security and maintain the alignment of the door leaves and door hardware.
3. Co-ordinator: None.

Hardware Schedule

Note: Schlage Vandlgard locksets are to be used on all new buildings. Lockset type at additions and renovations must be confirmed with the FMCA Locksmith, on a case by case basis.

1. Exterior Doors:
 - i. Lockset: "Night Entry" – except for exit only doors (i.e. if a key is used to open a door, the door must automatically relock when the user removes the key).
 - ii. Panic hardware in public areas.
 - iii. Door closers: LCN 4040 XP.
 - iv. Hinges: FBB/NRP (Butt hinges only).
2. Custodial Rooms (Janitor, Mechanical, Electrical, Communications, Elevator Machine Rooms, etc.):
 - i. Lockset: Schlage ND80PD/RHO or ND96PD/RHO (Vandlgard). Use PLY on exterior applications.
 - ii. Door closers: LCN 4040 XP.
3. Washrooms (single user – without door opener):
 - i. Lockset: Schlage ND73PD/RHO or ND97PD/RHO (Vandlgard).
 - ii. Door closer: LCN 4040 XP.
 - iii. Accessible washrooms require a delayed action closer.
4. Washrooms (single user – with door opener):
 - i. Auto door opener: Horton 7100 Series.
 - ii. Lockset: Schlage ND10S/RHO.
 - iii. Deadbolt: Schlage B660P – installed 150mm o/c above lockset.
 - iv. Electric Hardware: provide as required.
5. Washrooms (multiple users):
 - i. Deadbolt: Schlage B663.
 - ii. Door closer: LCN 4040 XP delayed action.
 - iii. Push-Pull door hardware.
6. Offices:
 - i. Lockset: Schlage ND53PD/RHO or ND92PD/RHO (Vandlgard).
 - ii. Door closer: LCN 4040 XP, only where required by Code.
7. Classrooms:
 - i. Lockset: Schlage ND70PD/RHO or ND94PD/RHO (Vandlgard).
 - ii. Door closer: LCN 4040 XP.
8. Labs:
 - i. Lockset: Schlage ND60PD/RHO or ND93PD/RHO (Vandlgard) OR ND80PD/RHO or ND96PD/RHO (Vandlgard).
 - ii. Door closer: LCN 4040 XP, only where required by Code.
9. Student Residence Rooms:
 - i. Lockset: Schlage ND73PD/RHO or ND97PD/RHO (Vandlgard).

- ii. Door closer: LCN 4040 XP – mounted on hallway side of door.
- 10. Stairwell – Coordinate with British Columbia Building Code (BCBC) exiting requirements:
 - i. Doors with regular hardware: “Classroom” setup (can be left locked or unlocked using a key).
 - ii. Doors with card access: fail-secure “Storeroom” setup.
 - iii. Stairwell – Coordinate with BCBC exiting requirements.
- 11. Padlocks – Schlage KS23D2300.

Keys

- 1. Doors, padlocks and cabinet locks shall be keyed as directed. Keying shall be to the University of Victoria grandmaster and master key system, using a Schlage quad/numerical keyway. All cylinders must be construction keyed.
- 2. Construction Master Keying Systems may be required on new and large projects, as designated by the FMGT Executive Director. Such systems shall be established in consultation with the FMCA Locksmith.
- 3. For projects with under 50 locksets: Cylinders and keys are Not in Contract (installed by FMCA). Provide sufficient notice to FMCA Locksmith for acquisition of materials.
- 4. For projects with over 50 locksets: Hardware supplier to supply all cylinders and keys as per UVic's Keying Schedule. Allow for:
 - i. 15 copies of Grandmaster key
 - ii. 10 copies of each Master key
 - iii. 10 copies of Construction master key
 - iv. 4 extractor keys
 - v. 8 keys per cylinder
 - vi. 200 key blanks
 - vii. 20 additional cylinders (10 standard cyls, 5 mortise cyls, 5 rim cyls.)
 - viii. All keys and key blanks stamped “DO NOT DUPLICATE”.
- 5. Hardware, cylinders and the 10 construction keys to be shipped to the Site Contractor for installation.
- 6. All keys (grandmasters, masters, change keys, extractors, and key blanks) shall be shipped by registered mail or courier directly from the manufacturer to the UVic Carpenters Shop.
- 7. Construction plugs are removed by FMCA after substantial performance has been granted.

Door Hardware and Keying Schedules Review Process

- 1. Door Hardware Schedule:
 - i. Door Hardware Schedule must be submitted to FMCA Locksmith for review prior to tender. Corrections and changes will be noted and returned for updating.
 - ii. The final Hardware Schedule must be resubmitted and approved by FMCA Locksmith before ordering any materials.
- 2. Keying Schedule: UVic FMCA shall provide a Keying Schedule after the final Hardware Schedule approval.

08 80 00 GLAZING

08 87 23 SAFETY AND SECURITY FILMS

Interior Window Film

1. Provide window film to interior glazing that requires additional privacy for offices, meeting rooms, classrooms, labs and suites.
2. Window Film shall at a minimum the meet following requirements.
 - i. Color: White Mist
 - ii. Visible Ray Transmission: 71%
 - iii. Ultraviolet Ray Transmission <1%
 - iv. Insolation Transmission: 68%
 - v. Insolation Reflectivity: 16%
 - vi. Insolation Absorbency 16%
 - vii. Shading Coefficient: 0.83
3. Figure 08 80 00-1 represents an example of a window film installation. The Facilities Management Interior Modification Services Department will collaborate and assist with film application locations and design details. Final design approvals will be made by the Manager of Interior Modification Services and/or the Director of Project Management Services.

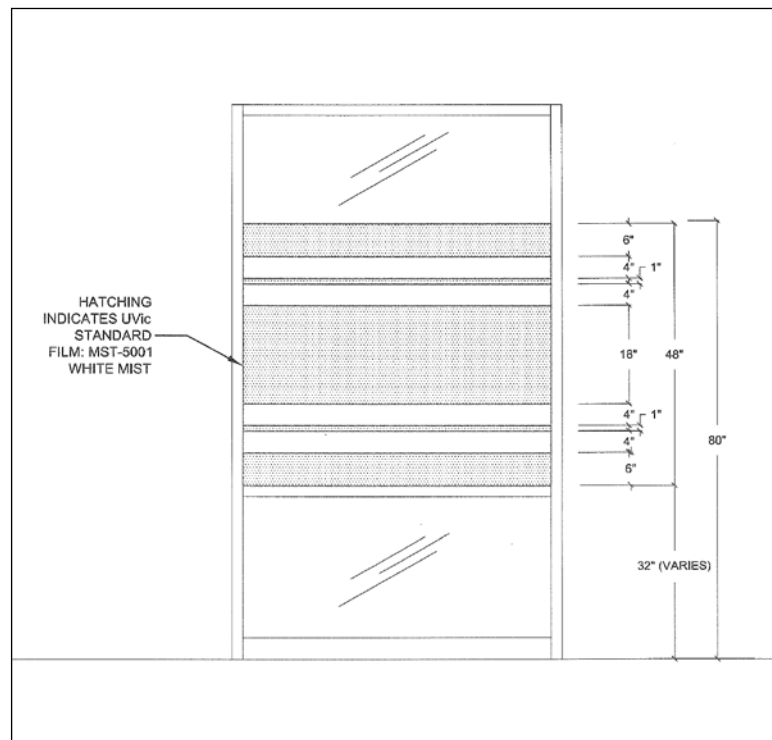


Figure 08 80 00-1

Exterior Window Film

Is not approved for use – special consideration may be made for cooling or safety but requires prior approval from the Director of Project Management Services, Facilities Management.