

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.
2. 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.
3. 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.
4. Interior doors and windows used with modular wall partitions are desirable in office and meeting room locations to minimize the impacts of churn.
5. The University encourages the use of translucent glass panels in interior doors, to provide natural light in corridors. Frameless glass doors shall be avoided.
6. All fasteners within secured areas shall be tamper resistant torx (or pin-in-torx, or torx TR).
7. 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.
8. 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)

1. 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.
2. Type 2: Hardboard, solid core, painted:
 - i. Application: residences, other locations as approved by FMGT.
3. 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

Suppliers Qualifications: Hardware subcontractors shall:

1. Employ an Architectural Hardware Consultant (A.H.C.) with a minimum of five (5) years documented experience in managing the supply and installation on projects of similar size and complexity
2. Be certified by the hardware manufacturer to ensure compliance with warranty conditions.

Installers Qualifications: Hardware installers shall:

1. Employ qualified trades people, regularly engaged in the installation of electrified security hardware.
2. Have a minimum of five (5) years documented experience in the installation of mechanical and electrified door hardware and have completed at least two (2) projects of similar character and magnitude.
3. Be certified by the hardware manufacturer to ensure compliance with warranty conditions.

Keying: Doors, padlocks and cabinet locks shall be keyed as follows:

1. 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.
2. For projects with over 50 locksets: Hardware supplier to supply all cylinders and keys as per UVic's Keying Schedule.
 - i. Keying shall be to the University of Victoria grandmaster and master key system, using a Schlage quad/numerical keyway.
 - ii. All cylinders must be construction keyed.
 - iii. 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.
 - iv. Allow for the following:
 - 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".
3. 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.
4. Construction plugs are removed by FMCA after substantial performance has been granted.
5. UVic FMCA shall provide a keying schedule after final hardware schedule approval.

Products

1. Use one manufacturer's products for related items. To simplify maintenance and minimize parts stock, the following are university standards for all new and existing buildings including residence suites. Alternate products will only be considered where they offer a solution to a scenario not attainable by the accepted products listed below. Alternate products must be clearly identified and brought to the attention of the project team prior to ordering. A sample of each alternate item is to be provided for evaluation by FMCA.

2. When providing hardware for existing buildings, hardware finishes and type may vary to ensure consistency and will be determined by project management.

3. Hinges:

- i. Provide 114mm x 101mm butts for doors up to 950mm and 127mm x 101mm butts for doors over 950mm wide.
- ii. Provide 3 butts per leaf for doors up to 2150 in height and one additional butt for each additional 600mm in door height.
- iii. Exterior out swinging doors shall have non-removable pins and be non-ferrous.
- iv. Refer to frame details and dimensions for conditions requiring wide throw hinges or specially swaged hinges.
- v. All aluminum doors will be required to be hung on butt hinges. Pivots or continuous hinges are not acceptable.
- vi. Acceptable products:

| | | | | |
|-----|---------|---------------|-----------|----------------|
| | | | New build | Match existing |
| I. | Ives | 3CB1HW / 3CB1 | 630/652 | 613/640 |
| II. | Stanley | CB199 / CB179 | 630/652 | 613/640 |

4. Locksets-Keyed:

- i. All locksets shall be provided with Schlage RHO lever design.
- ii. Where lever trim is specified on exit devices, trim shall match lever design on locks.
- iii. Refer to door and frame details and dimensions for conditions requiring special length or flat strike lips, and latch requirements for fire rated pairs of doors.
- iv. All locksets are to be "Vandalguard" functions.
- v. Acceptable products:

| | | | | |
|----|---------|-------------------------|-----------|----------------|
| | | | New build | Match Existing |
| I. | Schlage | ND series (Vandalguard) | 626 | 613 |

5. Locksets-Electronic:

- i. All locksets shall be provided with Schlage RHO lever design.
- ii. Refer to door and frame details and dimensions for conditions requiring special length or flat strike lips, and latch requirements for fire rated pairs of doors.
- iii. Provide a mechanical key override.
- iv. All locksets are to be "Vandalguard" functions.
- v. Acceptable products:

| | | | | |
|----|---------|----------|-----------|----------------|
| | | | New build | Match existing |
| I. | Schlage | ND96PDEU | 626 | 613 |

6. Locksets-WiFi Electronic:

- i. All locksets shall be provided with Sargent LL lever design.
- ii. Refer to door and frame details and dimensions for conditions requiring special length or flat strike lips, and latch requirements for fire rated pairs of doors.
- iii. Provide a mechanical key override with Schlage cylinder.
- iv. Acceptable products:

| | | | | |
|-----|---------|-------------|-----------|----------------|
| | | | New build | Match existing |
| II. | Sargent | IN120 10G77 | 626 | 613 |

7. Locksets-POE Electronic:

- i. All locksets shall be provided with Sargent LL lever design.
- ii. Refer to door and frame details and dimensions for conditions requiring special length or flat strike lips, and latch requirements for fire rated pairs of doors.
- iii. Provide a mechanical key override with Schlage cylinder.
- iv. Acceptable products:

| | | | | | | | | | |
|--|------|---------|-------------|--|--|-----------|----------------|--|--|
| | | | | | | | | | |
| | III. | Sargent | IN220 10G77 | | | New build | Match existing | | |
| | | | | | | 626 | 613 | | |

8. Deadbolts:

- i. Acceptable products:

| | | | | | | | | | |
|--|----|---------|-------------|--|--|-----------|----------------|--|--|
| | | | | | | | | | |
| | I. | Schlage | B600 series | | | New build | Match existing | | |
| | | | | | | 626 | 613 | | |

9. Exit Devices (for aluminum doors):

- i. Provide cylinder dogging unless electronic latch retraction (QEL) is being provided.
- ii. Where key access is required, provide 386-NL/990NL trim.
- iii. Provide a mechanical key override for electrified devices.
- iv. For pairs of doors, provide concealed vertical rod devices with top and bottom rods.
- v. For single doors provide rim devices.
- vi. Acceptable products:

| | | | | | | | | | |
|--|----|------------|---------------------------|--|--|-----------|----------------|--|--|
| | | | | | | | | | |
| | I. | Von Duprin | 35A series (narrow stile) | | | New build | Match existing | | |
| | | | | | | 628 | 313 | | |

10. Exit Devices (for hollow metal or wood doors):

- i. Provide cylinder dogging unless fire rated or electronic latch retraction (QEL) is being provided.
- ii. Provide a mechanical key override for electrified devices.
- iii. For pairs of doors, provide surface vertical rod devices with top rod only.
- iv. For single doors provide rim devices.
- v. Acceptable products:

| | | | | | | | | | |
|--|----|------------|-----------|--|--|-----------|----------------|--|--|
| | | | | | | | | | |
| | I. | Von Duprin | 98 series | | | New build | Match existing | | |
| | | | | | | 628 | 313 | | |

11. Closers:

- i. Door Closers shall be used only as required by fire ratings and where required to complete the desired function of a door (Security, Energy Loss, Sound Containment, Push/Pull doors).
- ii. Door closers must be mounted on the inside of a building and wherever possible on the inside of a room for aesthetics except for student residence rooms where closers are to be mounted on the corridor side.
- iii. All handicap washrooms must be equipped with delayed action, and reduced opening force spring door closers.
- iv. Thru-bolt mounting is required for closers on wood doors.
- v. Acceptable products:

| | | | | | | | | | |
|--|----|-----|---------------|--|--|-----------|----------------|--|--|
| | | | | | | | | | |
| | I. | LCN | 4040XP series | | | New build | Match existing | | |
| | | | | | | 689 | 695 | | |

12. Stops:

- i. Avoid the use of floor stops wherever possible.
- ii. Use overhead stops where wall stops are not suitable.
- iii. Ensure overhead stops and door closers do not conflict and provide special templates and or drop plates where required.
- iv. Acceptable products:

| | | | | | | | | | |
|--|-----|------|------------------------|--|--|-----------|----------------|--|--|
| | | | | | | | | | |
| | I. | Ives | WS401/402 (wall stops) | | | New build | Match existing | | |
| | | | | | | 626 | 613 | | |
| | II. | GJ | 90/100 series | | | 652/630 | 613/640 | | |

13. Coordinators:

i. Avoid the use of coordinators wherever possible. Coordinators are only to be used as required by code.

ii. Acceptable products:

I. Trimco 3092 BLK

14. Flush-Bolts (automatic):

i. Avoid the use of automatic flush-bolts wherever possible. Automatic flush-bolts are only to be used as required by code.

ii. Acceptable products:

I. Ives FB51P New build 630 Match existing 613

15. Flush-Bolts (manual):

i. Acceptable products:

I. Ives FB457 New build 626 Match existing 613

16. Astragals:

i. Loose astragals are preferred to welded astragals.

ii. Mount astragals to the keyed side of all double doors with one fixed leaf to maintain door alignment and provide security.

iii. Acceptable products:

I. Pemko 357_ New build C Match existing D

17. Perimeter seals (weather/smoke/sound):

i. Adhesive seals are not acceptable.

ii. Acceptable products:

I. Pemko 315_R New build C Match existing D

II. Draftseal DS139_R C D

18. Sweeps:

i. Acceptable products:

I. Pemko 315_N New build C Match existing D

II. Draftseal DS138_ C D

19. Threshold:

i. Acceptable products:

I. Pemko 270_ New build A Match existing D

II. Draftseal DS4000 A D

20. Meeting Stiles:

i. Acceptable products:

I. Pemko 29324_NB New build C Match existing D

II. Draftseal DS113_P C D

21. Automatic Operators:

i. Actuators for automatic operators are to be hard-wired.

ii. A key-switch is to be provided at exterior doors with operators.

iii. The switch will enable/disable the outside actuator and release/retract the exit devices.

iv. Acceptable products:

I. Horton 7100 series New build AI Match Existing Brz

22. Power Transfers:

- i. Through-wire hinges and door loops are not acceptable.
- ii. Acceptable products:

| | | |
|----------------------------|-----------|----------------|
| | New build | Match existing |
| I. Von-Duprin EPT series | SP28 | SP313 |
| II. Securitron CEPT series | 630 | 613 |

23. Power Supplies:

- i. Ensure that the specified power supply conforms with the manufacturers requirements for product warranties.
- ii. Provide battery back-up, fire alarm release and relay boards as required by the hardware function.
- iii. Size power supplies accordingly to allow for a minimum of 25% expansion of the system.
- iv. Acceptable products:
 - I. Von-Duprin PS900 series (as required by the door hardware)

24. Cabinet Locks:

- i. Acceptable products:
 - I. Schlage CL series (1 1/8") 626

Hardware Groups:

1. These groups have been created as examples of typical scenarios and are not intended to be complete for every application. They are to be used as a guideline for product function and quality.
2. Aluminum doors and frames:

Group AO-10 - Main entry outer vestibule doors (pair) – aluminum - automatic swinging (both leaves)

| | | | | |
|---|------|---------------------|--------|--|
| 6 | ea. | Hinges | IV | 3CB1HW 4.5 x 4.5 630-NRP |
| 1 | ea. | Exit device | VD | QEL-9947 NL |
| 1 | ea. | Ext. trim | VD | 990NL-R/V |
| 1 | ea. | Cylinder | SC | Rim to suit NL trim |
| 1 | ea. | Exit device | VD | QEL-9947 EO |
| 1 | ea. | Ext. trim | VD | 990DT |
| 1 | pair | Automatic operators | Horton | 7100 series (full length housing) |
| 2 | ea. | Actuators | | type and location to suit |
| 1 | ea. | Key switch | | (enable outside actuator and latch retraction) |
| 1 | ea. | Cylinder | SC | Mortise to suit key switch |
| 2 | ea. | Power Transfers | VD | EPT-2 |
| 1 | ea. | Power Supply | VD | PS902-2RS |
| 1 | ea. | Threshold | | By door supplier |
| 1 | set | Perimeter seals | | By door supplier |
| 2 | ea. | Door bottoms | 315CN | |
| 1 | ea. | Card Reader | | By UVic Systems |
| 1 | set | Meeting stiles | PK | 29324CNB |

 Group AO-10a - Main entry outer vestibule doors (pair) – aluminum - automatic swinging (single leaf)

| | | | | |
|---|-----|---------------------|--------|--|
| 6 | ea. | Hinges | IV | 3CB1HW 4.5 x 4.5 630-NRP |
| 1 | ea. | Exit device | VD | QEL-9947 NL |
| 1 | ea. | Ext. trim | VD | 990NL-R/V |
| 1 | ea. | Cylinder | SC | Rim to suit NL trim |
| 1 | ea. | Exit device | VD | QEL-9947 EO |
| 1 | ea. | Ext. trim | VD | 990DT |
| 1 | ea. | Closer | LCN | 4040XP x 30 x 61 x 18PA |
| 1 | ea. | Overhead stope | GJ | 100 series |
| 1 | ea. | Automatic operators | Horton | 7100 series |
| 2 | ea. | Actuators | | type and location to suit |
| 1 | ea. | Key switch | | (enable outside actuator and latch retraction) |
| 2 | ea. | Power Transfers | VD | EPT-2 |
| 1 | ea. | Power Supply | VD | PS902-2RS |
| 1 | ea. | Threshold | | By door supplier |
| 1 | set | Perimeter seals | | By door supplier |
| 2 | ea. | Door bottoms | | 315CN |
| 1 | ea. | Card Reader | | By UVic Systems |

Group AO-11 - Main entry inner vestibule doors (pair) – aluminum - automatic swinging (both leaves)

| | | | | |
|---|------|---------------------|--------|-----------------------------------|
| 6 | ea. | Hinges | IV | 3CB1HW 4.5 x 4.5 630 |
| 2 | set | Push/Pulls | | |
| 1 | pair | Automatic operators | Horton | 7100 series (full length housing) |
| 1 | ea. | Actuators | | One shared with outside door |
| 1 | set | Perimeter seals | | By door supplier |

Group AO-11a - Main entry inner vestibule doors (pair) – aluminum - automatic swinging (single leaf)

| | | | | |
|---|-----|--------------------|--------|------------------------------|
| 6 | ea. | Hinges | IV | 3CB1HW 4.5 x 4.5 630 |
| 1 | ea. | Closer | LCN | 4040XP x 30 x 61 x 18PA |
| 1 | ea. | Overhead stope | GJ | 100 series |
| 2 | set | Push/Pulls | | |
| 1 | ea. | Automatic operator | Horton | 7100 series |
| 1 | ea. | Actuators | | One shared with outside door |
| 1 | set | Perimeter seals | | By door supplier |

Group AL-01 – Exit doors (single) – aluminum

| | | | | |
|---|-----|-----------------|-----|---------------------------------|
| 3 | ea. | Hinges | IV | 3CB1HW 4.5 x 4.5 630-NRP |
| 1 | ea. | Exit device | VD | CD-99 NL |
| 1 | ea. | Ext. trim | VD | 990NL-R/V |
| 1 | ea. | Cylinder | SC | Rim to suit NL trim |
| 1 | ea. | Cylinder | SC | 1 ¼" mortise to suit CD dogging |
| 1 | ea. | Closer | LCN | 4040XP x 30 x 61 x 18PA |
| 1 | ea. | Overhead stope | GJ | 100 series |
| 1 | ea. | Threshold | | By door supplier |
| 1 | set | Perimeter seals | | By door supplier |
| 1 | ea. | Door bottom | | 315CN |

Group AL-02 – Entry doors (single) – aluminum

| | | | | |
|---|-----|-----------------|-----|--------------------------|
| 3 | ea. | Hinges | IV | 3CB1HW 4.5 x 4.5 630-NRP |
| 1 | ea. | Exit device | VD | QEL 99 NL |
| 1 | ea. | Ext. trim | VD | 990NL-R/V |
| 1 | ea. | Cylinder | SC | Rim to suit NL trim |
| 1 | ea. | Closer | LCN | 4040XP x 30 x 61 x 18PA |
| 1 | ea. | Overhead stop | GJ | 100 series |
| 1 | ea. | Power Transfer | VD | EPT-2 |
| 1 | ea. | Threshold | | By door supplier |
| 1 | set | Perimeter seals | | By door supplier |
| 1 | ea. | Door bottom | PK | 315CN |
| 1 | ea. | Card Reader | | By UVic Systems |

3. Hollow metal / Wood doors:

Group EX-01 – Exit doors (single) – Hollow metal

| | | | | |
|---|-----|-----------------|-------|---------------------------------|
| 3 | ea. | Hinges | IV | 3CB1HW 4.5 x 4.5 630-NRP |
| 1 | ea. | Exit device | VD | CD-99 NL |
| 1 | ea. | Ext. trim | VD | 990NL-R/V |
| 1 | ea. | Cylinder | SC | Rim to suit NL trim |
| 1 | ea. | Cylinder | SC | 1 ¼" mortise to suit CD dogging |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" |
| 1 | ea. | Threshold | PK | 270A |
| 1 | set | Perimeter seals | PK | 315CR |
| 1 | ea. | Door bottom | PK | 315CN |

Group ESR-01 – Exterior service doors (single) – hollow metal

| | | | | |
|---|-----|-----------------|-------|--------------------------|
| 3 | ea. | Hinges | IV | 3CB1HW 4.5 x 4.5 630-NRP |
| 1 | ea. | Lockset | SC | ND96PD-RHO |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" |
| 1 | ea. | Threshold | PK | 270A |
| 1 | set | Perimeter seals | PK | 315CR |
| 1 | ea. | Door bottom | PK | 315CN |

Group ESR-10 – Exterior service doors (pair) – hollow metal

| | | | | |
|---|-----|----------------------|-----|---------------------------------|
| 6 | ea. | Hinges | IV | 3CB1HW 4.5 x 4.5 630-NRP |
| 2 | ea. | Flushbolts | IV | FB457 |
| 1 | ea. | Lockset | SC | ND96PD-RHO |
| 1 | ea. | Closer | LCN | 4040XP |
| 2 | ea. | Overhead stop/holder | GJ | 100_series |
| 2 | ea. | Kickplate | IV | 8400 10" |
| 1 | ea. | Threshold | PK | 270A |
| 1 | set | Perimeter seals | PK | 315CR |
| 2 | ea. | Door bottom | PK | 315CN |
| 1 | ea. | Astragal | PK | 357C (applied to exterior side) |

Group ST-01 – Circulation stair (single) – Hollow metal

| | | | | |
|---|-----|-----------------|-------|--------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Exit device | VD | 99L-F |
| 1 | ea. | Ext. trim | VD | 996L- R/V |
| 1 | ea. | Cylinder | SC | Rim to suit L trim |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" x width |
| 1 | set | Perimeter seals | PK | 315CR |

Group ST-02 – Secure stair – Card reader (single) – Hollow metal

| | | | | |
|---|-----|-----------------|-------|--------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Exit device | VD | E99L-NL-F |
| 1 | ea. | Ext. trim | VD | E996L-NL R/V |
| 1 | ea. | Cylinder | SC | Rim to suit L trim |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" x width |
| 1 | set | Perimeter seals | PK | 315CR |
| 1 | ea. | Power Transfer | VD | EPT-2 |
| 1 | ea. | Card Reader | | By UVic Systems |

Group ST-10 – Circulation stair (pair) – Hollow metal

| | | | | |
|---|-----|-----------------|-------|--------------------|
| 6 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 2 | ea. | Exit device | VD | LBR-9927L-F |
| 2 | ea. | Ext. trim | VD | 996L-R/V |
| 2 | ea. | Cylinder | SC | Rim to suit L trim |
| 2 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | wall or overhead |
| 2 | ea. | Kickplate | IV | 8400 10" |
| 1 | set | Perimeter seals | PK | 315CR |

Group ST-11 – Secure stair – Card reader pair) – Hollow metal

| | | | | |
|---|-----|-----------------|-------|--------------------|
| 6 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Exit device | VD | E9927L-NL-F |
| 1 | ea. | Ext. trim | VD | E996L-NL R/V |
| 1 | ea. | Cylinder | SC | Rim to suit L trim |
| 1 | ea. | Exit device | VD | 9927EO-F |
| 2 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | wall or overhead |
| 2 | ea. | Kickplate | IV | 8400 10" |
| 1 | set | Meeting stiles | PK | 29324CNB |
| 1 | set | Perimeter seals | PK | 315CR |
| 2 | ea. | Power Transfer | VD | EPT-10 |
| 1 | ea. | Power Supply | VD | PS902 |
| 1 | ea. | Card Reader | | By UVic Systems |

Group SR-01 – Interior service doors (single) – hollow metal/wood

(Storage room)

| | | | | |
|---|-----|---------|-------|--------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Lockset | SC | ND96PD-RHO |
| 1 | ea. | Stop | IV/GJ | wall or overhead |

Group SR-02 – Interior service doors – fire rated (single) – hollow metal/wood

(janitor, mechanical, electrical, communications, elevator machine room, etc.)

| | | | | |
|---|-----|-----------------|-------|--------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Lockset | SC | ND96PD-RHO |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" |
| 1 | ea. | Threshold | PK | 270A |
| 1 | set | Perimeter seals | PK | 315CR |

Group SR-10 – Interior service doors (pair) – hollow metal/wood

(Storage room)

| | | | | |
|---|-----|-----------------|-------|--------------------|
| 6 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 2 | ea. | Flushbolts | IV | FB457 |
| 1 | ea. | Lockset | SC | ND96PD-RHO |
| 2 | ea. | Stop | IV/GJ | wall or overhead |
| 2 | ea. | Kickplate | IV | 8400 10" |
| 1 | ea. | Threshold | PK | 270A |
| 1 | set | Perimeter seals | PK | 315CR |
| 1 | ea. | Astragal | PK | 357C |

Group SR-11 – Interior service doors – fire rated (pair) occupied spaces – hollow metal/wood

(janitor, mechanical, electrical, communications, elevator machine room, etc.)

| | | | | |
|---|------|-----------------|-------|---------------------|
| 6 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | pair | Auto flushbolts | IV | FB51P |
| 1 | ea. | Lockset | SC | ND96PD-RHO x 14-042 |
| 2 | ea. | Closers | LCN | 4040XP |
| 2 | ea. | Stop | IV/GJ | wall or overhead |
| 2 | ea. | Kickplate | IV | 8400 10" |
| 1 | ea. | Coordinator | TR | 3092 |
| 1 | ea. | Threshold | PK | 270A |
| 1 | set | Perimeter seals | PK | 315CR |
| 1 | ea. | Astragal | PK | 357C |

Group SR-12 – Interior service doors – fire rated (pair) unoccupied spaces – hollow metal/wood

(janitor, mechanical, electrical, communications, elevator machine room, etc.)

| | | | | |
|---|-----|-----------------|-------|---------------------|
| 6 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 2 | ea. | Flushbolts | IV | FB457 |
| 1 | ea. | Lockset | SC | ND96PD-RHO x 14-042 |
| 1 | ea. | Closers | LCN | 4040XP |
| 2 | ea. | Stop | IV/GJ | wall or overhead |
| 2 | ea. | Kickplate | IV | 8400 10" |
| 1 | ea. | Threshold | PK | 270A |
| 1 | set | Perimeter seals | PK | 315CR |
| 1 | ea. | Astragal | PK | 357C |

Group WR-01 – Washroom doors (single user) – hollow metal/wood

| | | | | |
|---|-----|-----------|-------|-----------------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Privacy | SC | ND97PD-RHO |
| 1 | ea. | Closer | LCN | 4040XP (Parallel arm mount) |
| 1 | ea. | Stop | IV/GJ | wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" |

Group WR-02 – Washroom doors – automatic– (single or multiple users) - hollow metal/wood

| | | | | |
|---|-----|---------------------|--------|---------------------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Deadbolt | SC | B660 |
| 1 | ea. | Push | IV | 8200 4" x 16" |
| 1 | ea. | Pull | IV | 8305 – 8" pull x 4" x 16" plate |
| 1 | ea. | Automatic operators | Horton | 7100 series |
| 2 | ea. | Actuators | t | ype and location to suit |
| 1 | ea. | Kickplate | IV | 8400 10" |

Group WR-03 – Washroom doors (multiple users)– hollow metal/wood

| | | | | |
|---|-----|-----------|-------|---------------------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Deadbolt | SC | B663P |
| 1 | ea. | Closer | LCN | 4040XP (Parallel arm mount) |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |
| 1 | ea. | Push | IV | 8200 4" x 16" |
| 1 | ea. | Pull | IV | 8305 – 8" pull x 4" x 16" plate |
| 1 | ea. | Kickplate | IV | 8400 10" |

Group OF-01 – Interior office doors (single) – hollow metal/wood

| | | | | |
|---|-----|---------|-------|--------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Lockset | SC | ND92PD-RHO |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |

Group CL-01 – Interior classroom doors (single) – hollow metal/wood

| | | | | |
|---|-----|---------|-------|--------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Lockset | SC | ND94PD-RHO |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |

Group LB-01 – Interior lab doors (single) – hollow metal/wood

| | | | | |
|---|-----|---------|-------|-------------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Lockset | SC | ND93PD-RHO |
| 1 | ea. | Closer | LCN | 4040XP (where required) |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |

Group ECL-01 – Interior doors – Card reader - (single) – hollow metal/wood

(classroom, meeting room, IT room, etc..)

| | | | | |
|---|-----|----------------|-------|--------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | E-Lockset | SC | ND96PDEU |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" |
| 1 | ea. | Power transfer | VD | EPT-2 |
| 1 | ea. | Card Reader | | By UVic Systems |

Group RS-01 – Student residence doors (single) – hollow metal/wood

| | | | | |
|---|-----|-----------------|-------|------------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Lockset | SC | ND97PD-RHO |
| 1 | ea. | Closer | LCN | 4040XP (corridor side) |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |
| 1 | set | Perimeter seals | PK | 315CR |
| 1 | ea. | Threshold | PK | 271A |

Group RS-02 – Student residence doors – card reader (single) – hollow metal/wood

| | | | | |
|---|-----|-----------------|-------|------------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | Deadbolt | SC | B660P |
| 1 | ea. | E-Lockset | SC | RX-ND96PDEU |
| 1 | ea. | Closer | LCN | 4040XP (corridor side) |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |
| 1 | set | Perimeter seals | PK | 315CR |
| 1 | ea. | Threshold | PK | 271A |
| 1 | ea. | Power transfer | VD | EPT-10 |
| 1 | ea. | Card Reader | | By UVic Systems |

Group PL-01 – Padlocks

| | | | | |
|---|-----|---------|----|-----------|
| 1 | ea. | Padlock | SC | KS23D2300 |
|---|-----|---------|----|-----------|

Group CB-01 – Cabinet locks (door)

| | | | | |
|---|-----|--------------|----|---------------------|
| 1 | ea. | Cabinet lock | SC | CL100 1-1/8" (door) |
|---|-----|--------------|----|---------------------|

Group CB-02 – Cabinet locks (drawer)

| | | | | |
|---|-----|--------------|----|-----------------------|
| 1 | ea. | Cabinet lock | SC | CL200 1-1/8" (drawer) |
|---|-----|--------------|----|-----------------------|

Group EWL-01 – Interior doors – WiFi Card reader - (single) – hollow metal/wood

(classroom, meeting room, IT room, etc..)

| | | | | |
|---|-----|-----------|-------|-----------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | E-Lockset | SA | IN120 10G77-BCP-B-LL |
| 1 | ea. | Cylinder | SC | Schlage To suit IN120 |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" |

Group EWX-01 – Interior doors – WiFi Card reader with panic hardware - (single) – hollow metal/wood

| | | | | |
|---|-----|---------------|-------|-------------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | E-Exit Device | SA | IN120 8877-BCP-B-ETL |
| 1 | ea. | Cylinder | SC | Schlage To suit ET trim |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" |

Group EPL-01 – Interior doors – POE Card reader - (single) – hollow metal/wood

(classroom, meeting room, IT room, etc..)

| | | | | |
|---|-----|--------------------|-------|-----------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | POE Power Transfer | ST | CEPT-C5E |
| 1 | ea. | E-Lockset | SA | IN220 10G77-BCP-B-LL |
| 1 | ea. | Cylinder | SC | Schlage To suit IN220 |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" |

Group EPX-01 – Interior doors – POE Card reader with panic hardware - (single) – hollow metal/wood

| | | | | |
|---|-----|--------------------|-------|-------------------------|
| 3 | ea. | Hinges | IV | 3CB1 4.5 x 4.5 652 |
| 1 | ea. | POE Power Transfer | ST | CEPT-C5E |
| 1 | ea. | E-Exit Device | SA | IN220 8877-BCP-B-ETL |
| 1 | ea. | Cylinder | SC | Schlage To suit ET trim |
| 1 | ea. | Closer | LCN | 4040XP |
| 1 | ea. | Stop | IV/GJ | Wall or overhead |
| 1 | ea. | Kickplate | IV | 8400 10" |

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.

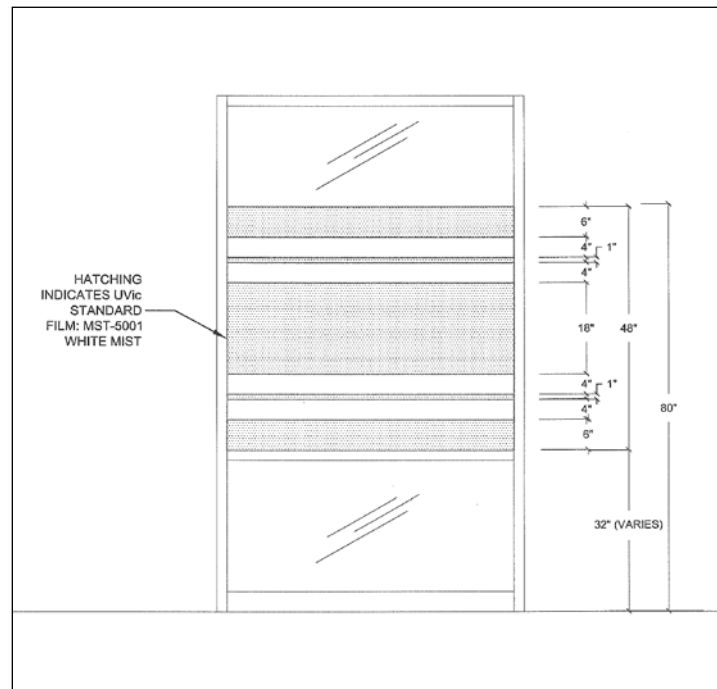


Figure 08 80 00-1

Exterior Window Film

1. 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.