BSD Technical Standard
Division 8: Doors, Windows & Openings

1. PURPOSE

This Technical Standard is a narrative describing Beaverton School District's (BSD's) Basis of Design for doors, windows and openings. The information contained herein shall be used by the Project Design Team to convey appropriate materials selections and design specifications pertaining to implementing doors, windows, openings, and associated hardware in BSD's renovations and new facilities. This Technical Standard shall be used as part of the BSD's General Design Standards (comprised of the BSD Educational Specifications and the BSD Technical Standards).

2. GENERAL

2.1. COMMON WORK RESULTS

2.1.1. Doors and windows are to be installed by qualified tradesmen with no less than 2 years of experience in installing similar doors and windows.

2.1.2. Include the following design coordination services in the contract documents:

2.1.2.1. At the point in time when the door locksets and hardware submittals have been submitted and approved, require that the Supplier meet with the Owner to coordinate final keying. Following the meeting, Supplier to promptly submit to the Owner a final Keying Schedule documenting how each lockset shall be keyed.

2.1.2.2. Pre-occupancy adjustments. No less than 30 days before Substantial Completion (occupancy), Contractor, aided by door hardware Supplier, shall adjust all locks, door hinges, door swings, door wall stops, thresholds, door sweeps, door alarms, and any door powering devices for smooth and effective operation.

2.1.2.3. Post-occupancy adjustments. At six months following Substantial Completion, Contractor, aided by door hardware Supplier, shall again adjust all locks, door hinges, door swings, door wall stops, thresholds, door sweeps, door alarms, and any door powering devices for smooth and effective operation.

2.1.3. Basic requirements for submittal preparation, submission, and direction are detailed in the General Requirements of this Contract. In addition, adhere to the following in preparing the Contract Documents for doors and windows:

2.1.3.1. Design drawing details showing installation approach for windows, doors, flashing, and drainage

2.1.3.2. Door dimensions, door material, door thickness, location of hinge points, location of lockset, direction of swing, range of full swing, coating for shipment, and final finish.

2.1.3.3. Window and door shop drawings show respective installation details including flashing and penetrations

2.1.3.4. Door alarms and power operating devices

2.1.3.5. Door hinges, lockset, mullions, thresholds, sweeps, and door stops

2.1.3.6. Door acoustical performance and fire barrier performance for fire rated doors

2.1.3.7. Door operation and maintenance information

2.1.3.8. Window dimensions, materials, finishes, and direction of opening and swing where applicable

2.1.3.9. Window hardware details

2.1.3.10. Window operation and maintenance information

2.1.3.11. Other data as viewed by the Consultant as being necessary or good practice

3. DOORS AND FRAMES

3.1. WARRANTY

3.1.1. Provide 3-year warranty on doors and 10-year warranties on door frames and door glass.

3.2. GENERAL

3.2.1. Minimum door size for egress doorways is to be 3’ x 7’ and door height will not exceed 7’-0”. Door swing is to be restrained by wall-mounted door stops, bollards or standards. Double doors will be provided with a non-removable center mullion.

3.2.2. Wall stops to be mounted with reinforced backing to prevent damage to the wall by door operation. No overhead stops or floor stops. Provide backing and blocking in walls where door stops or door holds are attached.

3.2.3. Wall foundation at exterior door entry shall extend 3” past the edge of the threshold. If an entry pad is provided, pad must be tied to the foundation by rebar. On all exterior doors, standards or bollards must be mounted at a maximum of 110° and if applicable, no less than 3” inboard of the foundation pad or sidewalk edge.

3.2.4. Doors installed in cross-corridor applications are to include a door pocket to receive the door when it is open. Provide 4” edge clearance. Pocket is to be 4”, minimum. Provide center mullion.

3.2.5. Doors opening inward to buildings to be restrained with wall stops to restrict the opening angle to 120° and provided with magnetic door holders to hold the doors open.

3.2.6. Double egress doors require permanent center mullion.

3.2.7. Double doors must be used at exterior entries to goods receiving areas, gymnasiums, cafeterias, loading docks, and kitchen areas. Provide these doors with removable, lockable center mullion.

3.2.8. One double exterior door in each gymnasium shall be sized to allow removal of wrestling mats without removal of the center mullion.

3.2.9. For receiving areas, provide door armor extending up to 30” from the bottom of the door.

3.2.10. Exterior entry and egress doors are to be steel doors, insulated, and weather stripped around the door perimeter. All glass doors to be safety glass.

3.2.11. Door opening assemblies are to conform to IBC, IFC and current local fire codes.

3.2.12. Sliding doors and pocket doors are prohibited.

4. METAL DOORS AND FRAMES

4.1. GENERAL

4.1.1. Metal doors are to be Curries 747 T[1], no exceptions, with 2" face frames designed for Curries 747 T doors; 14-gauge for exterior doors and 16-gauge for interior doors.

4.1.2. All exterior access door frames to be mortar grouted in place.

5. WOOD DOORS AND FRAMES

5.1. GENERAL

5.1.1. Select wood doors only for building interior applications. All wood doors must be solid core, heavy duty 1¾” thick, manufactured with waterproof laminate adhesives and, where used as a part of an acoustical barrier, must have an STC rating of at least 33.

5.1.2. Frames must be those designed for use with Curries 747 T doors.

5.1.3. Doors to be installed in renovation projects must be drilled to match existing handle-set elevations.

5.1.4. Doors used in painted applications may utilize lower aesthetic quality veneers such as birch or maple, and doors used in stained applications must use high quality veneers.

6. SPECIALTY DOORS AND FRAMES

6.1. ACCESS DOORS AND PANELS

6.1.1. Provide special access doors in walls and ceilings to access valves, controls, filters, fire dampers, electrical junction boxes, and equipment, as required for ongoing lubrication and servicing; and for replacement of smaller equipment items without demolition.

6.1.2. Door size is to be as required for servicing or replacing the items noted, but not smaller than 12” x 12”

[1] See List of Brand Name Products as approved via School Board Resolution 14-409 in accordance with ORS 279C.345.

6.2. ROOF HATCHES (see also Division 7)

6.2.1. Roof openings must be located so that a person entering or exiting through the hatch will not, at any time, come within 10’-0” of the edge of the roof.

6.2.2. Access to the roof shall be by fixed ship’s ladder (vertical ladders require approval). No “disappearing” attic ladders will be accepted. Provide Bilco Roof Hatch with LadderUP Safety Post[1].

6.2.3. Provide latch operated with interior tee handle and with flush or recessed exterior keyed cylinder (dead bolt). Exterior handles are prone to vandalism and are not secure. Dead bolt shall be keyed to match building locks: Schlage Interchangeable Core (IC) cylinder.

6.3. ACCORDION FOLDING DOORS

6.3.1. Folding accordion style doors are prohibited.

6.4. FOLDING WALLS

6.4.1. Modernfold, Panelfold, Product Master, or equal.

7. COILING DOORS AND GRILLES

7.1. OVERHEAD ROLL UP DOORS, ELECTRIC

7.1.1. Provide electric door operators in applications where door is operated frequently and where door is 12’-0” or more in length. Incorporate manual override to allow door operation in the event of loss of power.

7.1.2. Place person door in an adjacent wall where personnel ingress/egress is expected from the area where the roll up door is installed for deliveries, loading, or bringing equipment in and out of the facility.

7.1.3. Door to accommodate a wind load of 20lb/sq. ft. and a life of 100,000 opening/closing cycles.

7.1.4. Provide keyed switch (Schlage 653 keyed to District master) to disengage power when the door is locked, and provide three-button manually-operated power switch with “Open”, “Close”, and “Stop” positions.

7.1.5. Window/viewing sections of doors to be ¼” clear glass.

7.1.6. Rails and stiles to be extruded aluminum, clear anodized. Tracks galvanized steel with ball bearing roller guide wheels.

7.2. OVERHEAD ROLL UP DOORS, MANUAL

7.2.1. Avoid use of security grilles in roll up doors and provide cylinder keyed locking bars to lock roll up doors. Wayne Dalton, Crawford, Raynor, Overhead Door, or equal.

8. ENTRANCES, STOREFRONTS AND CURTAIN WALLS

8.1. WARRANTY

8.1.1. Provide 3-year warranty on doors and 10-year warranties on door frames and door glass.

8.1.2. Provide 10-year warranty on window frames and 3-year warranty on window glass.

8.2. GENERAL

8.2.1. Storefront doors to be wide style, maximum panel size 36”x 84”, offset single acting with 10”x 2” LDW bottom kickplate.

8.2.2. Provide wall-mounted stop, integral to the frame or bollard plate and doors shall be reinforced at hinge attachment points. Provide backing and blocking at all hardware attachment points.

8.2.3. Require field Water Penetration Test in accordance with AAMA 503 before project punch listing begins.

9. ALUMINUM ENTRANCES AND STOREFRONTS

9.1. GENERAL

9.1.1. Doors, window wall frames and trim to be extruded aluminum. Glazing gaskets to be Ethylene Propylene Diene Monomer (EPDM) and fasteners to be aluminum, stainless steel or zinc plated steel. Perimeter anchors to be aluminum or steel.

9.1.2. Finish all exposed aluminum surfaces with Class 1 clear anodic coating conforming to Standard AA-M12-C22-A41 or with fluoropolymer coating conforming to AAMA 605.292.

10. CURTAIN WALLS

10.1. WARRANTY

10.1.1. Provide a special warranty covering full replacement (no prorate) of materials and workmanship for a period of 5 years.

10.2. GENERAL

10.2.1. Curtain wall installations shall be designed appropriate to the sun and wind exposure dictated by the location and orientation of the application and shall not utilize butt glazing systems.

10.2.2. Curtain wall system shall be as manufactured by EFCO S5900, Kawneer 1600, Vistawall 2600, or equal.

11. WINDOW WALL ASSEMBLIES

11.1. GENERAL

11.1.1. Provide storefront windows with 2” nominal brake formed frame and sill. Sills to be sloped for positive wash.

11.1.2. Glazing bead to be aluminum retainer with vinyl insert seal. No wet glazing.

12. WINDOWS

12.1. WARRANTY

12.1.1. Provide 10-year warranty on window frames and 3-year warranty on window glass.

12.2. GENERAL

12.2.1. No glazing within 30" of the floor. Provide safety glass in windows that extend within 6' of finished floors, must not exceed 20 sq. ft. in size.

12.2.2. Supply with dry glazing using removable stops. No films on any window surfaces. No wet glazing. See also GLAZING, herein.

12.2.3. Exterior window glass to be insulating type. Glazing to be AAMA rated and exterior windows to be National Fenestration rated.

12.2.4. Window assembly U transmission factor to be 0.31 or less. For west facing windows, SHGC to be 0.40 or less, and for south facing windows SHGC to be 0.55 or less.

12.2.5. Require field Water Penetration Test in accordance with AAMA 502 before project punch listing begins.

12.3. METAL WINDOWS

12.3.1. Aluminum frame, meeting all requirements herein.

12.4. WOOD WINDOWS

12.4.1. Frames to be wood or wood with vinyl cladding, meeting all requirements under WINDOWS, herein.

12.5. SIDELIGHTS

12.5.1. Installation of interior side lights requires District approval. Sidelight windows shall not exceed 18" in width and shall be provided with one mullion no more than 36" above finished floor.

12.6. CLERESTORY WINDOWS

12.6.1. Clerestory windows shall be Kalwall[1] window system only.

12.7. PORTABLES

12.7.1. Use vinyl or cladded windows only in portable buildings.

12.8. VENTILATORS

12.8.1. Ventilators to be solid section weather stripped with heavy duty hinge extending for 60 percent of the length of the ventilator and utilizing solid brass strike and locking handle.

12.8.2. No wet glazing.

12.9. INSECT SCREENS

12.9.1. Woven aluminum mesh, 14/18 grid, tubular aluminum frame.

13. ROOF WINDOWS AND SKYLIGHTS

13.1. WARRANTY

13.1.1. Provide a minimum 10-year warranty on the skylight frame and glass covering deterioration and resistance to leakage.

14. SKYLIGHTS (SEE ALSO DIVISION 7)

14.1. GENERAL

14.1.1. Provide with aluminum frames and finish with same finish as required for ALUMINUM ENTRANCES AND STOREFRONTS, herein.

14.1.2. Skylights shall meet OSHA Standard 29 CFR 1926.502(i). No operable skylights allowed. Twenty-five square foot maximum area of skylight roof penetration.

14.1.3. No flat glass skylights. Kalwall (fiberglass) Skylights[1] are the only acceptable flat skylight. Glass may be used for pyramid and ridge skylights only.

14.1.4. Require field Water Penetration Test in accordance with AAMA 503 before project punch listing begins.

15. GLAZING

15.1. WARRANTY

15.1.1. Provide 10-year warranty on window frames and 3-year warranty on window glass.

15.2. GENERAL

15.2.1. No glazing within 30” of the floor.

15.2.2. Provide safety glass in windows that extend within 6’ of finished floors, must not exceed 20 sq. ft. in size.

15.2.3. Supply with dry glazing using removable stops.

15.2.4. No films on any window surfaces. No wet glazing.

15.2.5. Exterior window glass to be insulating type. Glazing to be AAMA rated and exterior windows to be National Fenestration rated.

15.2.6. Window assembly U transmission factor to be 0.31 or less. For west facing windows, SHGC to be 0.40 or less, and for south facing windows SHGC to be 0.55 or less.

15.3. GLAZING REQUIREMENTS BY APPLICATION

Application	Requirement
Clear Glass	0.25” float glass
Tempered Safety Glass	0.25” float tempered glass
Laminated Safety Glass	0.25” float glass
Insulated Clear Glass	0.25” float glass panes; low E coating inside pane
Insulated Clear Tempered Safety Glass	0.25” float glass panes; low E coating inside pane; SIGMA 64-7-2, or equal
Insulated Tinted Glass	Same as Insulated Clear Glass, except outer pane tinted
Insulated Tinted Tempered Safety Glass	Same as Insulated Clear Tempered Safety Glass, except outer pane tinted

Wired Glass Application	Wired Glass prohibited; use Globe Amerada Infernolite FRP 200, or equal
Display Case Glass	Tempered Safety Glass, as listed above
Security Windows Single Glaze	Laminated Safety Glass
Security Exterior Windows Insulated Unit	Exterior side: Tempered Safety Glass Interior side: Laminated Safety Glass

16. HARDWARE

16.1. DOOR HARDWARE

16.1.1. Door hardware finish to be Satin Chrome US26D. Provide wall mounting brackets with reinforcement for double door mullion mounting when mullion is removed from the doorway and not in use.

16.2. KEYING SYSTEM

16.2.1. Everest Keying System[1] shall be the keying system that is installed in all new schools.

16.3. LOCKSETS

16.3.1. Locksets to be provided with keying capability to accommodate great-grand master key, grand master key, and master key. Provide locksets with removable cores for construction period and provide ten construction keys per building for the construction period.

16.3.2. Installation of final post-construction keying to be done by owner. Constructor to provide Door Schedule submittal referencing room numbers with associated key numbers to be used for final keying. Provide two construction removable keys.

16.3.3. Locksets shall be Schlage VandLGard[1], interchangeable core, provided in accordance with the Division 8: Hardware Schedule Guide.

16.4. HINGES

16.4.1. Standard sized doors shall be installed with three hinges. Doors larger than 36” x 84” shall be installed with four hinges. Interior hinges to be Ives HW 4.5” x 4.5” NRP and exterior to be 5”x 4.5”, or equal.

16.5. THRESHOLDS

16.5.1. Provide thresholds conforming to ANSI/BHMA A156.21, extruded aluminum, clear anodized finish, BHMA 628. Provide neoprene or silicon foot seals, 1” wider than frame depth. Thresholds to be NGP, Pemko, or equal.

16.6. LOCAL DOOR ALARMS

16.6.1. Where local door alarms are called for, use battery-operated power breach alarms and disabling key to match door lock. Where applicable, use VonDuprin 99 ALK Kit.

16.7. CLOSURES

16.7.1. Provide surface mounted, heavy-duty rack, and pinion type, independently adjustable closing speed and latching position. Provide LCN 4010 for doors opening inward and LCN 4111 for doors opening outward.

16.8. DOOR SMOKE SEAL

16.8.1. Provide ANSI/BHMA A156.22 NGP, Pemko, or equal.

16.9. WEATHERSTRIPPING

16.9.1. Provide Pemko or equal.

16.10. WALL STOPS

16.10.1. Provide BHMA 626 finish, Ives, or equal.

16.11. DOOR SILENCERS

16.11.1. Provide Ives, or equal.

16.12. KICKPLATES

16.12.1. Provide 18-gauge stainless steel, covering the bottom 10”x 2”, Less Door Width (LDW). Provide ANSI/BHMA 156.6 with BHMA 630 finish.

16.13. POWER ASSISTED DOOR OPERATORS

16.13.1. Provide for ADA accessible doors. Provide LCN 4630/4640 series operator with matching LCN paddle and tamper proof paddle cover box.

16.14. ELECTRONIC LOCKS

16.14.1. Provide Von Duprin 6000[1] series for ANSI electronic strikes. Latches to be Von Duprin QEL or EL 99 Series Panic Devices[1] only. Provide magnetic door holds for restroom doors and gymnasium interior exit doors.

16.15. PANIC BARS

16.15.1. Panic bars to be Von Duprin EL 99[1] or XP99 Series.

16.16. LATCH GUARDS

16.16.1. Latch guards are required on all exterior doors where doors are out-swinging and have levers or electric strikes. Provide either Hager 341D-US32D, Don-Jo LP 211 EBF, ASSA ABLOY latch protector Rockwood 320C, or current equivalent by same manufacturer. All installations to use sex bolts. No protruding hardware allowed.

16.17. SECLUSION ROOM DOOR LATCHES

16.17.1. See Division 13 Special Construction.

16.18. ROLLER STRIKE PLATES

16.18.1. Use of a strike plate spacer is required to reinforce the roller strike plate installation at the blade stop of aluminum door frames. See Figure 1 at end of this division for typical detail.

16.19. AUTOMATIC ENTRANCE

16.19.1. Provide LCN 4630 or 4640 operators and LCN cover plates, paddles, receivers, and transmitters. Hardwired for new construction. Automatic doors shall meet door guidelines as specified elsewhere herein.

16.20. DOOR HARDWARE PROHIBITED BY DISTRICT GUIDELINES

*The Architect/Engineer (A/E) shall not incorporate any of the following items in the design:

16.20.1. Thresholds extending above finished floor level in doorways providing for movement of material to/from trash disposal areas (interior and exterior) or exterior receiving areas

16.20.2. Thresholds extending more than ½" above finished floor level in doorways that are intended for use by personnel classified as being covered by ADA requirements

16.20.3. Floor-mounted door stops

16.20.4. Floor-mounted closures

16.20.5. Floor closures with integrated smoke detectors

16.20.6. Roller latches

16.20.7. Sliding doors and pocket doors

16.20.8. Concealed or electrified vertical rod exit devices

16.20.9. Continuous hinges

16.20.10. Pivot hinges

16.20.11. Mortised flush bolts and rods on wood doors

16.20.12. Door coordinators, astragals, and automatic flush bolts

17. SPECIAL FUNCTION HARDWARE AND ACCESSORIES

17.1. FIRE ACCESS PANEL HARDWARE

17.1.1. Provide hardware in accordance with the American Insurance Association NBFU 80.

17.2. ELEVATOR KEYED SWITCHES

17.2.1. Provide heavy duty keyed switch, Locknetics 653 keyed switch with cores suitable for keying to the associated building master key, as directed by the Owner.

17.3. EMERGENCY KEY CABINETS

17.3.1. See Division 10 Specialties. Provide key lock box (Knox Box) as required by the local fire jurisdiction with core suitable for keying to key pattern as directed by the fire jurisdiction.

17.4. GYMNASIUM BLEACHER LOCKS

17.4.1. Provide heavy duty keyed switch, Locknetics 653 keyed switch with cores suitable for keying to the associated building master key, as directed by the Owner.

17.5. FLAGPOLE OPERATIONS CONTROL BOX

17.5.1. Provide box with Olympus National DCN CAM lockset with core suitable to allow keying to the associated building master, as directed by the Owner.

17.6. FIRE EXTINGUISHER CABINET LOCK

17.6.1. Provide box with Olympus National DCN CAM lockset with core suitable to allow keying to the associated building master, as directed by the Owner.

17.7. BUILT-IN CABINET AND DRAWER LATCHES

17.7.1. Provide Olympus National 100 or 200 series locking latches. See also Division 06.

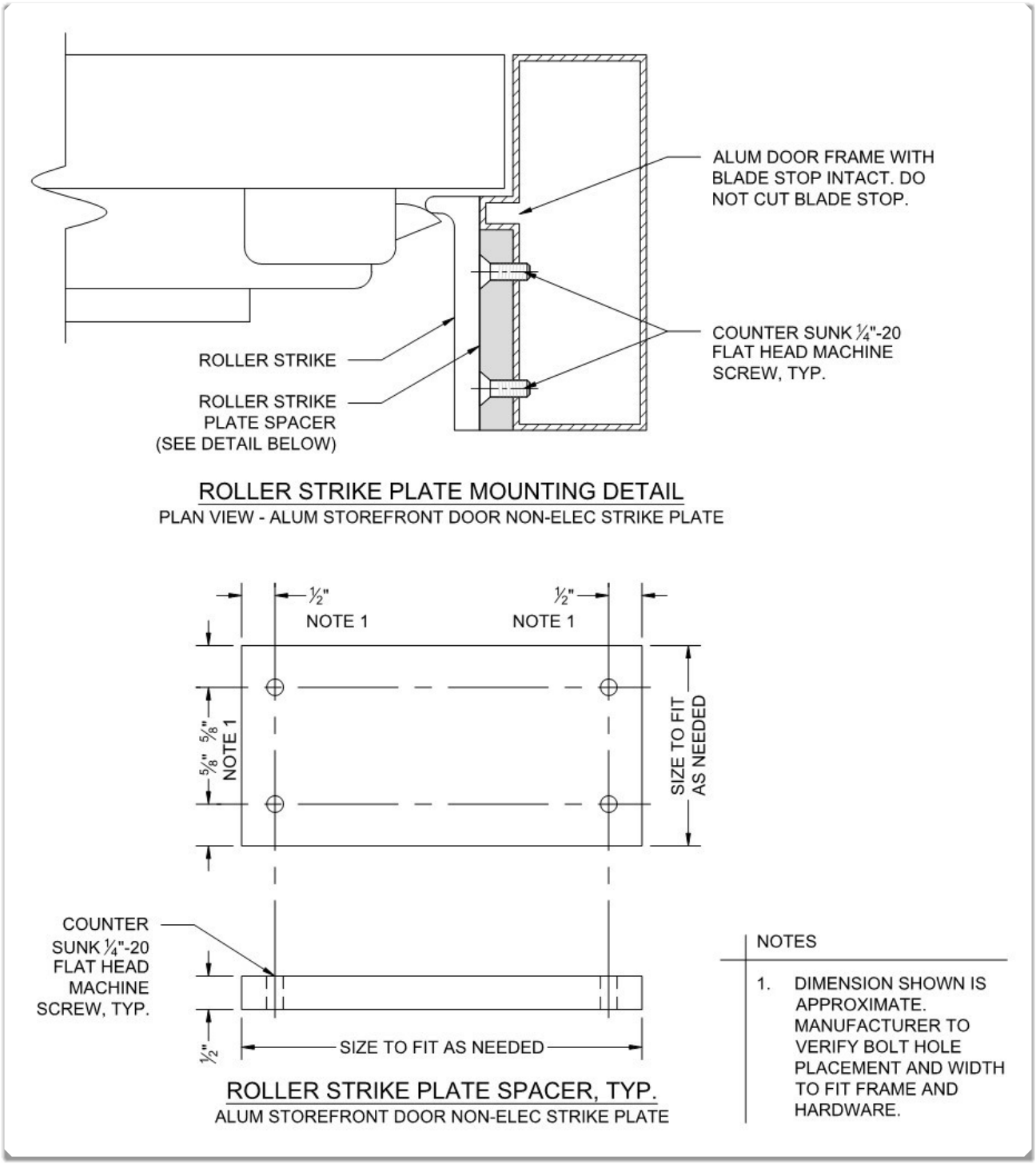


Figure 1: Roller Strike Plate Details

Revision History

Rev 1: 04/06/2015

Section	Section Title	Revision
III.I.12.	DOORS AND HARDWARE;DOOR HARDWARE; Locksets	¶2 Modify; add "provided in accordance with the District Hardware Schedule Guide which can be found at: https://www.beaverton.k12.or.us/depts/facilities/development/Pages/Technical%20Standards.aspx"
V.A.	WINDOWS; GENERAL	¶1 Add; add "**No glazing within 30" of the floor."**
VI.	SKYLIGHTS	¶2 Modify; change to "Skylights shall meet OSHA Standard 29 CFR 1926.502(i). No operable skylights allowed. Twenty-five square foot maximum area of skylight roof penetration. No flat glass skylights, Kalwall (fiberglass) skylights are the only acceptable flat skylight. Glass may be used for pyramid and ridge skylights only.
VII.	ROOF HATCHES	¶1 Modify; change to "Roof openings must be located so that a person entering or exiting through the hatch will not, at any time, come within 10'-0" of the edge of the roof. Access to the roof shall be by fixed ship's ladder (vertical ladders require approval). No "disappearing" attic ladders will be accepted. Provide Bilco Roof Hatch with LadderUp Safety Post. Provide latch operated with interior tee handle and with flush or recessed exterior keyed cylinder (dead bolt). (Exterior handles are prone to vandalism and are not secure.) Dead bolt shall be keyed to match building locks: Schlage Interchangeable Core (IC) cylinder."

Rev 2: 06/25/2015

Section	Section Title	Revision
III.I.12.	DOORS AND HARDWARE;DOOR HARDWARE; Locksets	¶2 Modify; District Hardware Schedule Guide Classroom door locks, go with the push and turn function, Schlage ND 92 Rhodes 626. *Replace all Schlage ND 95 Rhodes 626 with the Schlage ND 92 Rhodes 626.*

Rev 3: 9/14/15

Section	Section Title	Revision
III.A.	DOORS AND HARDWARE; GENERAL	¶1 Insert new text, **No overhead stops or floor stops.**
III.I.9.	DOORS AND HARDWARE;DOOR HARDWARE; Kickplates	Modify; change from 10”x2” LDW to “10”x2” Less Door Width (LDW)”
IV.A.	ENTRANCES AND STOREFRONTS; ALUMINUM ENTRANCES AND STOREFRONTS	Delete ~~(under development)~~

Rev 4: 12/04/15

Section	Section Title	Revision
IV.B.	ENTRANCES AND STOREFRONTS; WINDOWS	¶1 Insert new text, **No wet glazing.**
IV.C.	ENTRANCES AND STOREFRONTS; VENTILATORS	¶1 Insert new text, **No wet glazing.**
V.A.	WINDOWS; GENERAL	¶1 Modify; change text from …. No interior side lights without District approval in advance and provide safety glass in windows that extend within ~~6”~~ 6’ of finished floors…No films on ~~exterior~~ any window surfaces. **No wet glazing.**
V.B.	WINDOWS;Glass	Insert new Applications/Requirements to end of table; Security Windows Single Glaze…Laminated Safety Glass Security Exterior Windows Insulated Unit : Exterior side: Tempered Safety Glass/Interior side: Laminated Safety Glass
V.A.-V.G	WINDOWS; sections A-G	Re-order sections A-G for clarification

Rev 5: 10/28/16

Section	Section Title	Revision
III.I.14.	DOORS AND HARDWARE; DOOR HARDWARE;Latch Guards	New section; Latch guards are required on all exterior doors where doors are out-swinging and have levers or electric strikes. Provide Hager 341D-2C, Don-Jo LELP 208 EBF, or equal.

III.I.15.	DOORS AND HARDWARE; DOOR HARDWARE;Roller Strike Plates	New section; Use of a strike plate spacer is required to reinforce the roller strike plate installation at the blade stop of aluminum door frames. See Figure 1 at end of this division for typical detail. (Also added *Figure 1: Roller Strike Plate Details)*

Rev 6: 04/30/17

Section	Section Title	Revision
III.C.	DOORS AND HARDWARE; METAL DOORS AND FRAMES	Metal doors are to be Curries 747 T*, no exceptions, with 2" face frames designed for Curries 747 T doors; 14-gauge for exterior doors and 16-gauge for interior doors. All exterior access door frames to be mortar grouted in place. *In accordance with ORS 279C.345, a link to a list of brand name products approved via School Board Resolution 14-409, which are
		used throughout the BSD Technical Standards, can be found at: https://www.beaverton.k12.or.us/depts/facilities/development/Pages/Technical%20Standards.aspx

Rev 7: 05/30/18

Section	Section Title	Revision
III.I.14.	DOORS AND HARDWARE; DOOR HARDWARE; Latch Guards	14. Latch Guards Latch guards are required on all exterior doors where doors are outswinging and have levers or electric strikes. Provide either Hager 341D-US32D, Don-Jo LP 211 EBF, ASSA ABLOY latch protector Rockwood 320C, or current equivalent by same manufacturer. All installations to use sex bolts. No protruding hardware allowed.
III.J.	DOORS AND HARDWARE; DOORS: ITEMS PROHIBITED BY DISTRICT GUIDELINES	Added **Pivot hinges** to the list of prohibited hardware.
VIII.A.	MISCELLANEOUS; SECLUSION ROOM DOOR LATCHES (SEE DIVISION 13)	~~Provide Locknetics 625 RD pushbutton latch operators and magnetic locks rated for 1,000 pounds with Locknetics 653 keyed switch with cores suitable for keying to the building master key.~~
NEW VIII.H.	EMERGENCY KEY CABINETS (SEE DIVISION 10)	

Rev 8: 12/31/18

Section	Section Title	Revision

Various	Various	Removed broken hyperlink to List of Brand Name Products.
VIII. A.	HARDWARE: DOOR HARDWARE	Added Everest Keying System brand name requirement per board approval.
Various	Various	Rearranged for better alignment with CSI MasterFormat.

Rev 9: 12/2024

Section	Section Title	Revision
All	All	Renumbered all sections of the Technical Standard; included other minor formatting and edits for clarity.