



Halton District School Board

Addendum No. 3

RFT 26-056 School Addition and Child Care Renovations at Milton District High School

The following, issued by the Halton District School Board (HDSB) May 12, 2026, shall be incorporated in the specifications and shall form part of the proposal document for the above.

ATTACHED:

1. Bidders are asked to review the attached Addendum # 3 as drafted by BJC Architects + Associates Inc. (256 pages)
2. Bidders must submit their bid using the attached **REVISED** Form of Tender (2 pages)



REVISED FORM OF TENDER

Project Reference #: RFT 26-035

Project: School Addition and Child Care Renovations at Milton District High School

From (Bidder): _____
Company Name

Street Address

City, Province and postal code

Phone Number Email Address

To (Owner): Halton District School Board
2050 Guelph Line
Burlington, Ontario L7P 5A8

By signing below, I/We acknowledge that I/We have read and accept the terms and conditions of this document and further that I/We have the authority to bind the organization.

I/We acknowledge that I/We have received addenda numbered _____ to _____ and the fee(s) quoted incorporate such addenda.

I/We have included one (1) electronic copy of the proposal submission in accordance with the terms and conditions of this RFP.

If this proposal is accepted by the HDSB and the HDSB is proceeding with the internal approvals for the award of the Agreement, then I/we will provide the required proof of insurance, and all other required submittals within five (5) business days of notification from the HDSB.

I/We, the undersigned, having examined the RFX Documents for the above-named Project, including Addenda, HDSB Standard Terms and Conditions and hereby offer to perform the Work in accordance with the Tender Documents, for the Stipulated Price of:

TRANSMITTAL

To: Halton District School Board
2050 Guelph Line
Burlington, Ontario
L7P 5A8
Attn: Mr. Jason Dachuk

Project: Addition & Renovations to Milton District High School
396 Williams Ave
Milton, Ontario
L9T 2G4

Project No.: 24-060

Date: May 8, 2026

We Transmit: By Email

For Your: Use/Information

With this transmittal, please find:

Documents:

Architectural Addendum No. 03	(158 pages)
Section 01 21 00	Allowances
Section 09 21 16	Gypsum Board Assemblies
Section 10 21 13	Phenolic Core Toilet Partitions
Finishing Hardware Schedule	
Civil Addendum No. 03	(5 pages)
Landscape Tender Addendum No. 03	(4 pages)
Structural Addendum No. S01	(7 pages)
Mechanical & Electrical Addendum #3	(73 pages)
Fire Protection Addendum No. 3	(5 pages)

Drawings:

ARCHITECTURAL (03 – ISSUED FOR ADDENDUM #03 – 2026-05-08)

<u>Drawing No.</u>	<u>Drawing Title</u>
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A-101	Site Details
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ARCHITECTURAL (CONT'D)

<u>Drawing No.</u>	<u>Drawing Title</u>
A-110	Addition-Partial First Floor Plan
A-111	Addition-Partial Second Floor Plan
A-112	Addition-Partial Third Floor Plan
A-200	School Addition: Exterior Elevations
A-201	Addition Exterior Elevations
A-307	Wall Sections
A-311	Front Entrance Details
A-313	Daycare Wall Sections
A-402	Section Detail of ACM Column Wrap & S.S. Railing
A-405	Section Details of Front Entrance
A-407	Wall Section Details
A-408	Wall Section Details
A-410	Atrium Wall Section Details
A-411	Atrium Wall Section Details
A-516	Millwork Plans & Details Work Room 310
A-519	Daycare Millwork Plans & Details Corridor Cubbies
A-600	Door & Hardware Schedule – First Floor & Daycare
A-601	Door & Hardware Schedule Continued
A-602	Door & Hardware Schedule Continued & Finish Schedule
A-604	Curtain Window Elevations
A-605	Curtain Wall & Door & Window Elevations & Details
A-606	Door & Window Elevations & Details

CIVIL (05 - ISSUED FOR ADDENDUM #3 – 26.05.06)

<u>Drawing No.</u>	<u>Drawing Title</u>
C2.0.1	Existing Conditions & Removals Plan Phase 2
C2.1.1	Site Grading & ESC Plan Phase 2
C2.2.1	Site Servicing Plan Phase 2
C2.3.1	Notes & Details Plan Phase 2

LANDSCAPING (06 - ISSUED FOR ADDENDUM #3 – 2026.05.06)

<u>Drawing No.</u>	<u>Drawing Title</u>
L-101	Landscape Plan
L-201	Landscape Details & Notes
L-202	Landscape Details

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STRUCTURAL (01 - ISSUED FOR ADDENDUM 3 – 2026.05.08)

Drawing No. Drawing Title

SK-S1 Addendum Details

MECHANICAL (03 - ISSUED FOR ADDENDUM #3 – MAY/07/26)

Drawing No. Drawing Title

M-101 Mechanical Legend, Notes & Equipment Schedules List 1 of 2
M-102 Equipment Schedules List 2 of 2

M-202 Existing School – First Floor – Plumbing & Standpipe
Systems - Existing & Demolition Work List 1 of 2
M-203 Existing School – First Floor - Plumbing & Standpipe Systems
– Existing & Demolition Work List 2 of 2
M-204 Existing School – Second Floor – Plumbing & Standpipe
Systems – Existing & Demolition Work
M-205 Daycare – Underground & First Floor Plumbing – New Work
M-206 Addition – Underground Plumbing – New Work
M-207 Addition – First Floor – Plumbing & Standpipe System – New
Work
M-208 Addition Second Floor & Daycare Roof – Plumbing &
Standpipe System – New Work
M-209 Addition Third Floor – Plumbing – New Work
M-210 Addition – Roof – Plumbing – New Work
M-211 Daycare – Domestic Water Riser – New Work
M-212 Addition – Domestic Water Riser – New Work - 1 of 2
M-216 Addition – Sanitary Riser – New Work – 2 of 4
M-217 Addition – Sanitary Riser – New Work – 3 of 4
M-218 Addition – Sanitary Riser – New Work – 4 of 4

M-305 Daycare – First Floor, Roof – HVAC – New Work
M-306 Addition – First Floor – HVAC – New Work
M-307 Addition – Second Floor – HVAC – New Work
M-308 Addition – Third Floor – HVAC – New Work
M-309 Addition – Roof – HVAC – New Work List 1 of 2

M-401 Existing School - First Floor – Heating Plan – Existing &
Demolition Work
M-403 Daycare – First Floor – Heating Plan – New Work
M-404 Addition – First Floor – Heating Plan – New Work
M-405 Addition – Second Floor – Heating Plan – New Work
M-406 Addition – Third Floor – Heating Plan – New Work

M-701 Mechanical Room 133 – New Work
M-702 Mechanical Room 304 – New Work
M-801 Mechanical Details – List 1 of 6
M-802 Mechanical Details – List 2 of 6
M-803 Mechanical Details – List 3 of 6
M-804 Mechanical Details – List 4 of 6

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FIRE PROTECTION (03 - ISSUED FOR ADDENDUM #3 – 05/07/2026)

Drawing No.

Drawing Title

SP-1 Notes, Details & Site Plan – Fire Sprinkler Plan
SP-2 First Floor Plan
SP-3 Second Floor Plan
SP-4 Third Floor Plan

ELECTRICAL

(03 - ISSUED FOR ADDENDUM #3 – MAY/06/26)

Drawing No.

Drawing Title

E-100 Electrical Legend
E-102 Electrical Site Plan & Details

E-300 Addition First Floor Power & Systems New Work
E-301 Daycare First Floor, Roof Power & Systems New Work
E-302 Addition Second Floor Power & Systems New Work
E-303 Addition Third Floor Power & Systems New Work

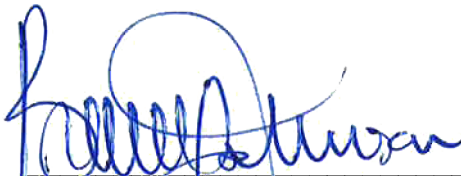
E-400 Addition First Floor Lighting New Work
E-402 Addition Second Floor Lighting New Work
E-403 Addition Third Floor Lighting New Work

E-502 Addition Second Floor Fire Alarm New Work
E-503 Addition Third Floor Fire Alarm New Work

E-600 Single Line Diagram

E-701 Panel Schedules (2 of 3)

E-800 Details



BARRY R. JOHNSON owner
B.E.S., B.ARCH., M.R.A.I.C., LEED® AP

cc: Halton District School Board
MTE Consulting Engineers
KALOS Engineering
SAB Engineering

Attn: Mr. Jason Dachuk
Attn: Ms. Rosie Calogero
Attn: Mr. JP Campana
Attn: Ms. Gabriela Strashun

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ADDENDUM #3

for

ADDITION TO MILTON DISTRICT H.S.

**396 WILLIAMS AVENUE
MILTON, ONTARIO
L9T 2G4**

for

HALTON DISTRICT SCHOOL BOARD

**2050 GUELPH LINE
BURLINGTON, ON.
L7P 5A8**

PREPARED BY

**BJC architects + assocs. inc.
R.R. #2, 8016 HIGHWAY #7
GUELPH, ONTARIO
N1H 6H8**

PROJECT NO. 24-060

May 08, 2026

ADDITION TO MILTON DISTRICT H.S.

**396 Williams Avenue
Milton, Ontario,
L9T 2G4**

PROJECT NO. **24-060**

OWNER:

Halton District School Board
2050 Guelph Line
Burlington, Ontario
L7P 5A8
Tel: 905-335-3665
Email: wildfongm@hdsb.ca
Attn: Mr. Mike Wildfong

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Attn: Ms. Rosie Calogero

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Email: gabriela@sabengineering.ca
Attn: Ms. Gabriela Strashun

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241 S. Service Road, Unit 102
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Tel: 905-945-8769
Cel: 519-504-4097
Email: claudio.machado@troylfs.com
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Email: kaveh@sabengineering.ca
Attn: Mr. Kaveh Najafzadeh

May 08, 2026

**ADDITION TO
MILTON DISTRICT H.S.
MILTON, ON.**

PROJECT NO. **24-060**

ADDENDUM No. 03

The following addition, deletions and amendments are hereby made a part of the Specifications and Drawings for the above referenced Contract.

ARCHITECTURAL SPECIFICATION

Item 1.0 **Specification Section 01 21 00 "Allowances" Clarifications**

- 1.1 Refer to 2.17.2 "Testing & Inspection" Allowance, revise amount to \$250,000.00.
- 1.2 Refer to 2.17.4 "Hazardous Materials Abatement" Allowance, delete from Allowances. This work is in the base Contract.
- 1.3 Refer to 2.17.5 "Interior and Building Signage" Allowance for clarification, it does not include Site Signage.
- 1.4 Refer to 2.17.5 "Interior and Building Signage" Allowance, revise amount to \$125,000.00.
- 1.5 Refer to 2.17.6 "Acoustical Treatment" Allowance for clarification, does not include acoustic wall panels and ceilings shown on drawings.
- 1.6 Refer to 2.17.6 "Acoustical Treatment" Allowance revise amount to \$50,000.00.
- 1.7 Refer to 2.17.7 "Hamilton Video & Sound new PA System" Allowance, revise amount to \$150,000.00 .
- 1.8 Refer to 2.17.8 "Structural Upgrade of Gymnasium Roof Structure" Allowance, for clarification does not include Engineering and Design, this will be by consultants.
- 1.9 Refer to 2.17.8 "Structural Upgrade of Gymnasium Roof Structure" Allowance, revise amount to \$90,000.00 to include for joist reinforcement at existing mechanical units.
- 1.10 Refer to 2.18, revise total Cash Allowance to read \$1,265,000.00.
- 1.10 Refer to revised Spec section contained here-in.

Item 2.0 **Specification Section 05 50 00 "Metal Fabrications"**

- 2.1 3.6 Schedule of Miscellaneous Metals: add .8 Stainless Steel wall cladding.
 - .1 Supply and install 12 ga. Type 430 Stainless steel wall cladding as shown on plans and room elevations. Finish #4 Satin.
 - .2 All edges to be hemmed. Panel to be fully adhered to block wall and mechanically secured in place with stainless steel fasteners.

.3 Refer to Elevations for locations and extents.

Item 3.0 Specification Section 08 71 00 "Door Hardware"

- 3.1 Refer to 1.6 - General Requirements: Add .12
Refer to detailed Hardware Schedule prepared by CDH Commercial Doors and Hardware for a guideline listing of door hardware. Copy Container here in.
- 3.2 Contact information for CDH: Ross Ruprecht at 2150 Winston Park Drive Unit 16, Oakville Ontario, L6H 5V1.
- 3.3 **Note:** It will be the Contractors responsibility to confirm all required hardware based on the Dwgs. and Schedules and to provide 3 competitive prices as per the requirements of the Cash Allowance.

Item 4.0 Specification Section 08 71 13 "Power Door Operators"

- 4.1 Refer to 2.1 – Power Door Operators: Revise to read:
- .1 Manufacturer:
- .1 SW 200 by Besam, Assa Abloy.
- .2 Stanley Access Technologies; Heavy Duty, Stanley M-Force Series power door operator.
- .3 Or Approved Alternate.

Item 5.0 Specification Section 08 44 18 "Glazed Steel Curtain Wall - Fire Frames Curtain Wall Series"

- 5.1 Refer to 2.1.3 - Substitutions: Revise to read, "aluflam" matching all design criteria listed in specification section, or approved Alternate.

Item 6.0 Specification Section 09 21 16 "Gypsum Board Assemblies"

- 6.1 Replace spec section in its entirety with the enclosed Section.

Item 7.0 Specification Section 10 20 00 "Interior & Exterior Specialties"

- 7.1 Refer to 2.2 List and Description of Products. Add: .5 Removable Bollards
- .1 Supply and install 5 removable bollards to concrete bases located along sidewalk adjacent to snow removal storage area.
- .2 Bollards to be heavy duty safety bollard 6.5" in diam. x 42" high, 7 ga. and removable.
- .3 Bollard base plate to slide out of anchored base plate and is padlockable.
- .4 Model No. H-11153R as supplied by Uline or approved alternate.
- .5 Refer to revised Detail 9 on Dwg. A-101

Item 8.0 Specification Section 10 21 13 "Phenolic Core Toilet Partitions"

8.1 Add spec section contained here in.

Item 9.0 Specification Section 10 21 13 13 Composite Toilet Partitions"

9.1 Delete this spec section in its entirety.

ARCHITECTURAL DRAWINGSItem 1.0 Title Sheet

1.1 Delete reference to Phase 2.

1.2 Add "Electrical" to SAB Engineering title block.

Item 2.0 Drawing A-100 "New Site Plan"

2.1 Routing of electrical duct bank revised along Williams Ave. Refer to Electrical Site Plan Dwg. E-101 for location.

Item 3.0 Drawing A-101 "Site Details"

3.1 Detail 9 revised for Removable Bollard. Refer to spec section 10 20 00 "Interior and Exterior Specialties" item 2.2.5.

3.2 Revised Drawing re-issued here in this Addendum.

Item 4.0 Drawing AD110 "Demolition - Overall First Floor Plan"

4.1 Remove tone representing work "Not in Contract" from rooms along Corridor 11 between existing Mechanical Room and Stair A.

4.2 Existing Ceilings to be removed in these rooms to accommodate Mechanical and Electrical work in ceiling. Refer to Drawing Note 1 in reference to Ceilings.

Item 5.0 Drawing AD111 "Demolition - Overall Second Floor Plan"

5.1 Remove tone representing work "Not in Contract" from rooms along Corridor 22 noted in item 3.0 above.

5.2 Existing Ceilings to be removed in these rooms to accommodate Mechanical and Electrical work in ceiling. Refer to Drawing Note 1 in reference to Ceilings.

Item 6.0 Drawing AD120 "Demolition – Partial First Floor Plan"

6.1 Remove tone representing work "Not in Contract" from rooms along Corridor 11 between existing Mechanical Room and Stair A.

6.2 Existing Ceilings to be removed in these rooms to accommodate Mechanical and Electrical work in ceiling. Refer to Drawing Note 1 in reference to Ceilings.

- 6.3 Exit doors are to be supplied and installed at the egress and ingress points of all hoarding c/w panic hardware.
- 6.4 Existing concrete slab on grade between G.L.s "G2" & "H" is to be removed. Note columns, piers and footings supporting remaining steel structure is to remain undisturbed. Refer to Structural Dwgs.
- 6.5 Sections of the existing slab on grade in Existing Corridor 127 will need to be removed to accommodate excavation and pouring of footings for new footings and walls. Refer to structural drawings.

Item 7.0 Drawing AD121 "Demolition – Partial Second Floor Plan"

- 7.1 Remove tone representing work "Not in Contract" from rooms along Corridor 22 directly above areas noted in item 5.0 above.
- 7.2 Existing Ceilings to be removed in these rooms to accommodate Mechanical and Electrical work in ceiling. Refer to Drawing Note 1 in reference to Ceilings.

Item 8.0 Drawing A-106 " Overall First Floor Plan"

- 8.1 Remove tone representing work "Not in Contract" from rooms along Corridor 11 between existing Mechanical Room and Stair A.
- 8.2 Existing Ceilings to be removed in these rooms to accommodate Mechanical and Electrical work in ceiling. Refer to Drawing Note 1 in reference to Ceilings.

Item 9.0 Drawing A-107 "Overall Second Floor Plan"

- 9.1 Remove tone representing work "Not in Contract" from rooms along Corridor 22 noted in item 3.0 above.
- 9.2 Existing Ceilings to be removed in these rooms to accommodate Mechanical and Electrical work in ceiling. Refer to Drawing Note 1 in reference to Ceilings.

Item 10.0 Drawing A-110 "Addition – Partial First Floor Plan"

- 10.1 General Note #11 Revise to read: Infill, patch and repair existing recess from TV removal to match adjacent wall finishes. New paint finish.
- 10.2 General Note #33 Revise to read: Coordinate placement of vertical mullions to suit mechanical louver sizing of 800 x 1750.
- 10.3 Remove reference to convactor heater in Storage Rm.139.
- 10.4 Locate RWL in masonry chase in corner of Rm. 139.
- 10.5 Revise two block wing walls along G.L."G1c" at the junction of Corridor 127 and Corridor 128 from 200mm to 300mm in width.
- 10.6 150 x 150 HSS columns added at the end of each wing wall are to be located within block wall to maintain 1 hour fire rating. Refer to Detail 55b on Dwg. A-319 added in this Addendum. Refer to Structural Dwgs.

- 10.7 150 x 150 HSS column added for beam lintel support across entry to Library along G.L."10e". Refer to Structural Dwgs.
- 10.8 Revise screen designation for door 127A to "S11A".
- 10.9 Refer to Detail 55a on Dwg. A-319 for blow up detail of RWL with in block wall.
- 10.10 Enlarge masonry chase at the south side of Room 124 adjacent to column at G.L. "H" to accommodate RWL.
- 10.11 Revised Drawing re-issued here in this Addendum.

Item 11.0 Drawing A-111 "Addition – Partial Second Floor Plan"

- 11.1 Revise layout of fireplace enclosure in Room 214. Refer to Detail 1 on Dwg. A-519.
- 11.2 Relocate two storage tanks in Storage Rm 219 to be relocated under ceiling mounted transformer on opposite wall. Refer to Mechanical drawings.
- 11.3 Move door 205, 400mm to the left to accommodate RWL in new masonry chase on right hand side of door adjacent to exterior wall. Chase to be sized to suit.
- 11.4 Add convector unit type CV-1 along north wall in Link Existing Corridor 18. Refer to Mechanical Dwgs. for coordination.
- 11.5 Revised Drawing re-issued here in this Addendum.

Item 12.0 Drawing A-112 "Addition – Partial Third Floor Plan"

- 12.1 Revise layout of fireplace enclosure in Room 330. Refer to Detail 1 on Dwg. A-519.
- 12.2 Add masonry enclosure around ductwork in Prep. Room 305 behind door 304.
- 11.3 Add new masonry chase for RWL to the right of door 309a, adjacent to exterior wall. Chase to be sized to suit. Confirm alignment down to second floor.
- 12.4 Revised Drawing re-issued here in this Addendum.

Item 13.0 Drawing A-121 "Addition – Partial Second Floor Finishes Plan"

- 13.1 Revise layout of floor finishes around fireplace enclosure and bench. Refer to Detail 2 on Dwg. A-607.

Item 14.0 Drawing A-122 "Addition – Partial Third Floor Finishes Plan"

- 14.1 Revise layout of floor finishes around fireplace enclosure and bench. Refer to Detail 2 on Dwg. A-607.

Item 15.0 Drawing A-140 "Daycare – First Plan & Floor Finishes Plan"

- 15.1 Detail 1 First Floor Plan, Add:

- .1 In Toddler Rm. 167 add 1 standard White Bd. and 1 Standard Tack Bd. centered on North wall.
- .2 In Toddler Rm. 171 add 1 standard White Bd. and 1 Standard Tack Bd. centered on South wall.
- .3 In Preschool Rm. 172 add 2 standard White Bds. and 1 Standard Tack Bd. centered on North wall.
- .4 In Preschool Rm. 176 add 2 standard White Bds. and 1 Standard Tack Bd. centered on South wall.
- .5 Exact mounting height and placement to be confirmed on site with School Bd. manager.

Item 16.0 Drawing A-150 "Renovation – First Floor Plan and Finishes Plan"

- 16.1 Revise Drawing note #2 to read: White Board complete with marker rail and aluminum edge trim supplied and installed by G.C.

Item 17.0 Drawing A-200 "Addition – Exterior Elevations"

- 17.1 Detail 1 South Elevation add shelf angle in line with the windowsill at third floor: between G.L."4 & 4a" and G.L. "9b & 10b". Refer to Detail 4 on Dwg. A-411.
- 17.2 Detail 5 East Elevation add shelf angle in line with the windowsill at third floor: between G.L."L2 & K1" and G.L. "9b & 10b". Refer to Detail 4 on Dwg. A-411.
- 17.3 Revise location of wall mounted exterior light fixtures as noted on South Elevation.
- 17.4 Revised Drawing re-issued here in this Addendum.

Item 18.0 Drawing A-201 "Addition – Exterior Elevations"

- 18.1 Detail 4, Partial West Elevation add shelf angle in line with the windowsill at third floor level 3: between G.L."G2 & R". Refer to Detail 4 on Dwg. A-411.
- 18.2 Revised Drawing re-issued here in this Addendum.

Item 19.0 Drawing A-202 "Daycare – Exterior Elevations"

- 19.1 Detail 1, South Elevation relocate fire department connection to masonry pilaster adjacent to G.L. 2.

Item 20.0 Drawing A-301 "Wall Sections"

- 20.1 Detail 4, Revise beam at G.L. "10a" level one to be a flush beam.

Item 21.0 Drawing A-302 "Elevator Wall Sections"

- 21.1 Detail 5 & 6, Revise foundation walls, footings, slab and pit depth to match structural Detail 7 on Dwg. S2.0. Add a sub slab over base footing while maintaining an overall pit depth of 1524mm.

- Item 22.0 Drawing A-304 “Stair F Plans and Section”
- 22.1 Detail 9, Add Type CV-5 convection heater on landing level 3 at exterior wall G.L.” 8”. Refer to Mechanical drawings for coordination.
- Item 23.0 Drawing A-305 “Wall Sections”
- 23.1 Detail 11, Revise beam at G.L. “10a” level one to be a flush beam.
- Item 24.0 Drawing A-306 “Wall Sections”
- 24.1 Detail 13, Revise L rebar tying foundation wall to sidewalk along G.L. “P” to 15m rebar dowels 450 long @ 400 on center.
- Item 25.0 Drawing A-307 “Wall Sections”
- 25.1 Detail 16, Revise layout of electric fireplace enclosure and bench on levels 2 and 3.
- 25.2 Delete reference to concrete base and bench. Refer to Detail 1 on Dwg. A-519 for new construction detailing, dimensions and finishes.
- 25.3 Refer to detail 4 on Dwg. A-411 for masonry shelf angle.
- 25.4 Revised Drawing re-issued here in this Addendum.
- Item 26.0 Drawing A-308 “Wall Sections”
- 26.1 Refer to detail 4 on Dwg. A-411 for masonry shelf angle.
- Item 27.0 Drawing A-309 “Stair B Section Detail”
- 27.1 Detail 21, add Type CV-1 convection heater on landing level 3 along G.L. “G2”. Refer to Mechanical drawings for coordination.
- Item 28.0 Drawing A-310 “Stair B Plans”
- 28.1 Detail 22, add Type CV-1 convection heater on landing level 3 along G.L. “G2”. Refer to Mechanical drawings for coordination.
- Item 29.0 Drawing A-311 “Front Entrance Details”
- 29.1 Detail 23, 24, 25 & 26 reissued in its entirety. Added structural columns and catch basins, lowered column base plates to be below grade and revised canopy framing. Refer to structural Drawings.
- 29.2 Revised Drawing re-issued here in this Addendum.
- Item 30.0 Drawing A-312 “Day Care Wall Sections”
- 30.1 Detail 34 revise beam along G.L. “L1” to be full height to support roof level core slab. Adjust roof top parapet to align with edge of slab. Refer to Structural for beam detail.

Item 31.0 Drawing A-313 “Day Care Wall Sections”

31.1 Detail 36 & 37 revise beam along G.L. “L1” to be full height to support roof level core slab. Adjust roof top parapet to align with edge of slab. Refer to Structural for beam detail.

31.2 Revised Drawing re-issued here in this Addendum.

Item 32.0 Drawing A-314 “Day Care Wall Sections”

32.1 Detail 41, revise beam along G.L. “L1” to be full height to support roof level core slab. Adjust roof top parapet to align with edge of slab. Refer to Structural for beam detail.

Item 33.0 Drawing A-317 “Atrium Wall Sections”

33.1 Detail 50, Add HSS 102 x 102 brace and horizontal support at raised window sill. Brace to be welded to top of beam and mortared solid in block wall. Refer to Structural Dwgs. for details. Typical at 2 locations.

Item 34.0 Drawing A-319 “Wall Sections”

34.1 Detail 55, Delete fireplace details.

34.2 Detail 59, Revise beam at G.L. “10a” level one to be a flush beam.

Item 35.0 Drawing A-402 “Section Detail of ACM Column Wrap & S.S. Railing”

35.1 Detail 4 & 6, Revise location of column base plate to be below grade. Refer to Structural Dwgs. for details.

35.2 Revised Drawing re-issued here in this Addendum.

Item 36.0 Drawing A-404 “Staircase - F Section Details”

36.1 Detail 5, Add Type CV-5 convection heater on landing level 3 at exterior wall G.L.” 8”. Refer to Mechanical drawings for coordination.

Item 37.0 Drawing A-405 “Section Details of Front Entrance”

37.1 Drawing with Details 1-8 reissued in its entirety. Added structural columns and revised canopy framing.

Item 38.0 Drawing A-407 “Wall Section Details”

38.1 Detail 3, revise beam along G.L. “10c” to be flush.

38.2 Revised Drawing re-issued here in this Addendum.

Item 39.0 Drawing A-408 “Wall Section Details Day Care”

39.1 Detail 3, revise beam along G.L. “L1” to be full height to support roof level core slab. Adjust roof top parapet to align with edge of slab. Refer to Structural for beam detail.

39.2 Revised Drawing re-issued here in this Addendum.

- Item 40.0 Drawing A-410 “Atrium Wall Section Details”
- 40.1 Detail 3, Add HSS 102 x 102 brace and horizontal support at raised window sill. Brace to be welded to top of beam and mortared solid in block wall. Refer to Structural Dwgs. for details. Typical at 2 locations.
 - 40.2 Revised Drawing re-issued here in this Addendum.
- Item 41.0 Drawing A-411 “Atrium Wall Section Details”
- 41.1 Add Detail 4, “Masonry Shelf Angle Detail”
 - 41.2 Revised Drawing re-issued here in this Addendum.
- Item 42.0 Drawing A-506 “Addition - Typical Enlarged Male Washroom Plans and Elevations”
- 42.1 Refer to Detail 57 on Dwg. A-319 for provision of square edged block at floor and ceiling level to accommodate finishing of ceiling trim and ceramic tile base.
- Item 43.0 Drawing A-507 “Addition Typical Enlarged Female Washroom Plans and Elevations”
- 43.1 Refer to Detail 57 on Dwg. A-319 for provision of square edged block at floor and ceiling level to accommodate finishing of ceiling trim and ceramic tile base.
- Item 44.0 Drawing A-516 “Millwork Details Work Room 310 Rm. 119 & Benches”
- 44.1 Detail 5 revised to illustrate additional materials, dimensions and notes for corridor benches.
 - 44.2 Revised Drawing re-issued here in this Addendum.
- Item 45.0 Drawing A-519 “Daycare Millwork Plans & Details Corridor Cubbies”
- 45.1 Add Detail 1 for Fireplace Plans, Elevations, Sections and Details.
 - 45.2 Revised Drawing re-issued here in this Addendum.
- Item 46.0 Drawing A- 600 “Door and Hardware Schedule - First Floor & Daycare”
- 46.1 Add door 129A for Janitors Room 128A to schedule. Refer to door 201 for similar construction and hardware.
 - 46.2 Delete reference to Georgian wire glass in schedule.
 - 46.3 Add General note for whole schedule: Refer to Dwgs. A-160 to 164 for blinds and emergency shades locations on doors with lites.
 - 46.4 Delete general notes at bottom of schedule.
 - 46.5 Revised Drawing re-issued here in this Addendum.

- Item 47.0 Drawing A- 601 “Door and Hardware Schedule”
- 47.1 Delete general notes at bottom of schedule.
- 47.2 Revised Drawing re-issued here in this Addendum.
- Item 48.0 Drawing A- 602 “Door and Hardware Schedule”
- 48.1 Delete general notes at bottom of schedule.
- 48.2 Revised Drawing re-issued here in this Addendum.
- Item 49.0 Drawing A- 603 “Room Schedules and Colour & Material Schedules”
- 49.1 In Colour and Material Schedule – Interior, ST Stain, add corridor benches to stain application.
- 49.2 In Colour and Material Schedule – Interior, Miscellaneous Items, Revise Toilet partitions to be by Hadrian.
- Item 50.0 Drawing A- 604 “Curtain Wall Elevations”
- 50.1 Detail 1 window elevation revised to align with the interior curtain wall elevation shown On Detail 2 on Dwg. A-617.
- 50.2 Detail 2 window elevation revised to align with the exterior curtain wall elevation shown on Detail 1 “South Elevation” on Dwg. A-200.
- 50.3 Revised Drawing re-issued here in this Addendum.
- Item 51.0 Drawing A- 605 “Curtain Wall Door & Window Elev. & Details”
- 51.1 Detail 4 Interior Screen Details,
- .1 Add screen type S11A at Library door 127A.
- .2 Revise Screen type S.1 to add transom glazing.
- .3 Revise screen type S.4 to add a vertical mullion in window unit
- 51.2 Revised Drawing re-issued here in this Addendum.
- Item 52.0 Drawing A- 606 “Door and Window Elevation & Details”
- 52.1 Detail 5 “Door Jamb Details” Add: Detail 8 for Aluminum door jamb.
- 52.2 Detail 6 “Window Elevation” W13, louver size revised to 800 x 1745 to fit within curtain wall framing.
- 52.3 Revised Drawing re-issued here in this Addendum.

Item 53.0 Drawing A- 607 “Addition Side A Floor Pattern Plan Colour”

53.1 Add General Note #3:
Refer to Floor Finishes Drawing A-120 -122 and A-140 for sloped topping and leveling coat at all flooring transitions.

Item 54.0 Drawing A- 608 “Addition Side B Floor Pattern Plan Colour”

54.1 Refer to Floor Finishes Drawing A-120 -122 and A-140 for sloped topping and leveling coat at all flooring transitions.

Item 55.0 Drawing A- 610 “First Floor Interior Corridor Elevations”

55.1 Refer to Detail 2, “Interior Corridor Elevations Corridor 101” B East Elevation, Delete transom over triple doors and side lites.

CIVIL

Item 1.0 Reference Civil Addendum assembled under separate cover attached here-in.

LANDSCAPING

Item 1.0 Reference Landscaping Addendum assembled under separate cover attached here-in.

STRUCTURAL

Item 1.0 Reference Structural Addendum assembled under separate cover attached here-in.

MECHANICAL

Item 1.0 Reference Mechanical Addendum assembled under separate cover attached here-in.

FIRE PROTECTION

Item 1.0 Reference Fire Protection Addendum assembled under separate cover attached here-in.

ELECTRICAL

Item 1.0 Reference Electrical Addendum assembled under separate cover attached here-in.

DIVISION 01 - GENERAL REQUIREMENTS

PART 1 - GENERAL

1.0 CONTRACT DOCUMENTS

- .1 The Instructions to Bidders, the General Conditions of CCDC 2 - 2020, Supplementary Conditions and all Sections of Division 01 apply to and form part of this section of the specification.

2.0 CASH ALLOWANCES

- .1 Refer to GC 4.1.
- .2 Include in the Contract Price, cash allowances stated herein.
- .3 Cash Allowances, unless otherwise specified, cover the net cost to the Contractor, Subcontractor of services, products, construction machinery and equipment, freight, handling, unloading, storage, and other authorized expenses incurred in performing the Work.
- .4 The Contract Price will be adjusted by written order to provide for an excess or deficit to each cash allowance.
- .5 Where costs under a cash allowance exceed the aggregate amount of all allowances, the Contractor will be compensated for any excess incurred and substantiated, plus an allowance for overhead and profit as set out in the Contract Documents.
- .6 Progress payments on accounts of work authorized under cash allowance shall be included in the Architects monthly certificate for payment. The Contractor shall include copies of invoices with the progress billing.
- .7 A schedule shall be prepared jointly by the Architect and the Contractor to show when items called for under cash allowances must be authorized by the Architect for ordering purposes so that the progress of the work will not be delayed.
- .8 HST (Harmonized Sales tax) are not included in Cash Allowance.
- .9 Unexpended portions of the cash allowances will be credited to the Owner by written change order as Cash Allowance Reconciliation.
- .10 Any required Mechanical and Electrical allowances to be carried by the General Contractor. Allowances shown below shall be carried by the General Contractor.
- .11 Include all Cash Allowances in the total Bid Price.
- .12 "Supply Only", Allowances shall include:
 - .1 Net cost of Products.

2.0 CASH ALLOWANCES (CONT'D)

- .2 Delivery to Site.
- .3 Applicable taxes and duties, excluding HST.
- .13 "Supply and Install", Allowances shall include:
 - .1 Net cost of Products.
 - .2 Delivery to Site.
 - .3 Unloading, storing, handling of Products on Site.
 - .4 Installation, finishing and commissioning of Products.
 - .5 Applicable taxes and duties, excluding HST.
- .14 "Inspection and Testing", Allowances shall include:
 - .1 Net cost of inspection and testing services.
 - .2 Applicable taxes and duties, excluding HST.
- .15 Other costs related to work covered by Cash Allowances are not covered by the allowance but shall be included in the Contract Amount.
- .16 Contractor to submit for review a minimum of 3 written competitive quotes for allowances as per the Supplemental Conditions.
- .17 Cash Allowances are as follows to be carried in Bid Amount by General Contractor:
 - .1 Door Hardware (Supply) \$350,000.00
Automatic Door Operators are excluded from
Hardware Cash Allowance.
 - .2 Testing & Inspection \$250,000.00
 - .3 Supply & Install of Daycare Playground Equipment \$250,000.00
 - .4 Hazardous Materials Abatement \$250,000.00
 - .5 Interior & Building Signage \$125,000.00
 - .6 Acoustical Treatment \$ 50,000.00
 - .7 Hamilton Video & Sound new PA System \$ 150,000.00
 - .8 Structural Upgrade of Gymnasium Roof Structure \$ 90,000.00

DIVISION 09 - FINISHES

PART 1 - GENERAL

1.0 CONTRACT DOCUMENTS

- .1 The Instructions to Bidders, the General Conditions of CCDC 2 - 2020, Supplementary Conditions and all Sections of Division 01 apply to and form part of this section of the specification.

1.1 GENERAL REQUIREMENTS

- .1 Conform to CAN/CSA A-82.27, and CAN/CSA A-82.31 including appendixes.
- .2 Ensure strict compliance with Manufactures Literature.
- .3 ASTM C754 – Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- .4 Ontario Building Code Section 9.24 Sheet Steel Stud Wall Framing.
- .5 Canadian Sheet Steel Building Institute Technical Bulletins and Manuals.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- .1 Rough Carpentry Section 06 10 00
- .2 Painting Section 09 91 00

1.3 QUALITY ASSURANCE

- .1 Requirements of Regulatory Agencies:
Install fire separations and fire protection exactly as specified in Underwriters' Laboratories test design specification that validates the specified rating.
- .2 Allowable Tolerances:
Install Work within 1/8" of dimensioned location unless approved otherwise, and flat to a tolerance of 1/8" maximum in 10'-0" and 1/16" maximum in any running 12".

1.4 SUBMITTALS

- .1 Provide in accordance with Section 01 33 00 "Submittal Procedures":
 - .1 Product data and samples for all materials to be used at the site and related accessories. Include material and safety data sheets (MSDSs) and certifications showing compliance with specified standards.

1.4 SUBMITTALS (CONT'D)

- .2 Manufacturer's instructions for installation and field quality control testing.

1.5 DELIVERY AND STORAGE

- .1 Handle and store materials carefully to prevent damage.
- .2 Store gypsum board flat in piles with protected edges.
- .3 Obtain approval of proposed locations for stockpiling material.
- .4 Do not install damaged or deteriorated material but remove from site immediately.
- .5 Provide any necessary temporary covers, skids and the like.
- .6 Materials as delivered shall bear manufacturer's name, brand name of material and where applicable, CSA classification.

1.6 ENVIRONMENTAL REQUIREMENTS

- .1 Do not apply gypsum board or joint filler to surfaces that are damp or contain frost.
- .2 In cold weather and during gypsum panel application and joint finishing, temperatures within work areas shall be within the range of 12 deg. C to 25 deg. C. for 7 days prior to application of joint compound and until cement and adhesives have cured.
- .3 Provide adequate ventilation to carry off excess moisture.

1.7 RELATIONS WITH OTHER TRADES

- .1 Co-ordinate with Mechanical and Electrical Trades to ensure that all services are installed prior to application of wall board.
- .2 Give directions to Section 06 10 00 for supplementary blocking.

1.8 QUALIFICATIONS

- .1 Sub-contractor to submit a list of 5 previous jobs where he has performed similar work in scale and scope, for review by the Consultant and Owner, and representative of his workmanship, prior to starting any work on site or submissions.
- .2 Sub-contractor to provide documentation that he has the required man power for the scale of his job, to meet the construction schedule.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 All materials to conform to CAN/CSA A82.27 unless specified otherwise.
- .2 Gypsum Board Types:
 1. Gypsum Board- Paper Faced (GB-PF): To ASTM C1396/C1396M, tapered edges, ivory paper faced, thickness as indicated on the drawings.
 2. Gypsum Board- Fire-Rated (GB-FR): To ASTM C1396/C1396M, Type C, tapered edges, ivory paper faced, ULC labelled, thickness as indicated on the drawings.
 3. Gypsum Board- Shaft-Liner (GB-SL): To ASTM C1658/C1658M, Type X, 25mm thick double bevelled edges, silicone treated gypsum core, with coated glass matt facers both sides.
 4. Gypsum Board- Backing Board (GB-BB): To ASTM C1396/C1396M, 12.7mm thick paper faced, square edges.
 5. Gypsum Board- Ceiling Board (GB-CLG): To ASTM C1396/C1396M, 12.7mm thick, paper faced, eased edges, maximum 6.5kg/m² weight.
 6. Gypsum Board- Tile Backer (GB-TB): To ASTM C1178/C1178M, 12.7mm thick, Coated glass mat-faced gypsum panels, with silicone treated core, glass fibre mesh facers both sides and a co-polymer waterproof coating on the tile-face side, square edges.
 7. Gypsum Board – Abuse Resistant Board (G.B.A.R.) to ASTM C1629, 16mm thick, Level 2 for abrasion, indentation and impact resistance paper faced, tapered edges.
- .3 Partition Systems:
 - .1 Steel Studs: 20 ga. min. steel, wiped coated, having knurled flanges 1-1/4" wide with edges doubled back at least 3/16", with girts as required, and with service access holes in webs at 18" o.c..
 - .2 Partition Runner Tracks: As specified for studs, Min. 25 ga. electro zinc coated sheet steel with flanges minimum of 1 3/16" high, and to suit width of studs. Oversized to accommodate structural deflection and floor toppings. 2½" "Slotted Deflection" track and 2½" "Deep Track" to accommodate the installation of cementitious skim coat topping.
 - .3 Bracing Channels: 18 ga. 1-1/2" x 3/4" cold rolled steel, wiped coated.

2.1 **MATERIALS (CONT'D)**

- .4 Steel Sheet Metal Blocking: 18 ga. 16" wide mtd. to face of studs for mounting of devices, accessories and millwork. Refer to details for mounting heights.
- .4 Corner Bead and Trims: 18 ga. galvanized steel with perforated flanges; one piece per location. Dur-A-Bead 1 1/4" x 1 1/4" metal bead for corners; "J" trim and "L" trim by "CGC" or approved alternate, fill type only. Paper or plastic beads are not acceptable.
- .5 Control Joint: C.G.C. No. 093.
- .6 Thermal Break: Permanent adhesive faced rubberized cork, 1/8" thick by width required.
- .7 Fastenings and Ties:
 - .1 Screws: For metal furring. Self-drilling, self-tapping, case-hardened, Phillips head, drywall screws, with corrosion resistant finish. For wood furring: similar wood screws #6 x 1" for single thickness board fastening and #7 x 1-5/8" for double thickness board fastening.
 - .2 Tie Wire: 16 ga. galvanized soft annealed steel wire.
 - .3 Furring System: 16 ga. cold rolled steel, prime painted.
 - .1 1-1/2" x 1/2" where supported at centres of 3'-0" maximum.
 - .2 1-1/2" x 3/4" where supported at centres of 4'-0" maximum.
 - .4 Furring Channels: 25 ga. cold rolled steel, wiped coated, nominal size of 3/4" deep x 1-1/4" face, hat type with knurled face.
- .8 Joint Treatment Material: (Joint compound, taping compound laminating compound). To ASTM C474 and C475. Use material recommended by board manufacturer for the proposed use.
- .9 Resilient Sponge Tape: self sticking adhesive on one side, closed cell neoprene sponge tape Permastik 122X by Jacobs and Thompson Ltd. Or approved alternate.
- .10 Adhesive: type acceptable to insulation manufacturers to provide vapour barrier of 1/8" thickness.
- .11 Reinforcing Tape: Perf-A-Tape by C.G.C. or approved alternate.

2.1 **MATERIALS (CONT'D)**

.12 Ceiling Hanger System:

.1 Wire Hanger Anchoring Devices:

- .1 Phillips Red Head by Phillips Drill Company of Canada Limited.
- .2 T32, self-drilling for use in concrete deck.
- .3 WS-3822 wedge anchor with tie wire insert for use in composite concrete and steel deck.
- .4 "Grabber" H-2, 1/4" by 2" drill point screw eye lag with collar for use in steel deck, or as otherwise approved.
- .5 All anchors with collars (Grabber H-2) to be fastened to side of deck flute.

.2 Hangers:

- .1 Zinc coated annealed steel wire; 12 ga. to support a maximum weight of 150 pounds per hanger.
- .2 9 ga. to support a maximum weight of 310 pounds per hanger and zinc coated annealed steel rod.
- .3 3/16" dia. to support a maximum weight of 500 pounds per hanger.

.3 Sound Isolation Hangers: spring hangers of weight capacity required by Vibro Coustics Ltd. or approved alternate.

.13 Tile Backer Board accessories: 2" wide 10 x 10 coated glass mesh tape, rust resistant fasteners. Mould resistant Drywall Type: Certain Teed Fiba Tape Mold-X10 Mould Resistant Drywall type with M2 Tech or approved alternate.

PART 3 - EXECUTION

3.1 **EXAMINATION**

- .1 Before application of drywall commences, ensure that services have been installed, tested, and approved; that conduits, pipes, cables, and outlets are plugged, capped, or covered; and that fastenings and supports installed by others are in place.

3.2 **INSTALLATION**

.1 General

- .1 Coordinate the Work of this Section with that of other Sections.
- .2 Install framing for support and incorporation of flush mounted and recessed components. Ensure adequacy of supports by consultation and verification of methods with those performing the Work of Divisions 22 to 28.
- .3 **Do not use through-the-roof deck flange hangers or puncture steel deck.**
- .4 Do not install metal framing, trim, casings, or accessories which have been bent, dented, or otherwise deformed.
- .5 Framing and furring shown on Drawings is indicative but do not regard it as exact or complete.
- .6 Provide for movement at intersections with structural members to avoid transference of loads to this Work.
- .7 Make allowances for thermal movements in drywall systems of 1/2" min.
- .8 Do not support the Work of this Section from, nor make attachment to, ducts, pipes, conduit, or the support framing of the Work of other Sections.
- .9 Do not apply drywall in close proximity to hot pipes or heating ducts.
- .10 Install materials with the minimum of joints. Tightly butt joints, without force, and neatly align them.
- .11 Splice, framing members only where continuous lengths are not available from manufacturer.
- .12 Frame openings on every side with suitable sections. Provide clearances required at mechanical and electrical services, such as grilles, diffusers, access panels, and lighting fixtures only after verification of requirements in each case.
- .13 Coordinate Work with Section 06 10 00 to ensure that proper wood blocking for support of items secured to Work of this Section is installed and anchored adequately to prevent damage to Work of this Section.
- .14 Attach to framing adequate steel reinforcing members to support the load of, and to withstand the withdrawal and shear forces imposed by, items installed upon the Work of this Section.
- .15 Install each grab rail anchorage to withstand a force of 9500 pounds in all directions.

3.2 **INSTALLATION (CONT'D)**

.16 Include in Work; fire stopping bulkheads over doors, frames, screens, and changes in ceiling levels; stair soffits; furred beams; and pipe spaces; all as indicated on Drawings and required by the Ontario Building Code.

.2 Suspended Ceiling Framing and Furring:

1. Screw apply hanger anchoring devices with a collar to side of metal deck flute.
2. Space hangers for runner channels to suit structure, to support ceiling load, at a max. distance of 4'-0" o.c., and at no greater distance than 6" from ends of runner channel.
3. Install runner channels at 3'-0" o.c., generally, and at no greater distance than 6" from terminations of supported cross furring members. Bend rod hangers sharply under bottom flange or runners, and wire securely in place with saddle ties.
3. Splice runner channels by lapping at least 12" with interlocking flanges and wired at each end with two loops. Do not bunch or line up splices.
5. Install cross furring at 16" o.c., generally, and at no greater distance than 6" from walls, openings, breaks in continuity of ceiling, and changes of direction. Space furring in all cases to suit incorporated services, and so as to avoid contact with perimeter walls. Span hat-type furring no greater than 4'-0". Use metal studs for greater spans 1-5/8" deep spanning to 5'-0", 2-1/2" deep to 6'-0", and 3-5/8" deep to 8'-0".
6. Secure cross furring to supports with double wire ties or approved equivalent attachment. Splice by nesting and tying together with 8" overlap.
7. Erect entire hanger and suspension system to adequately support the ceiling assembly, including incorporated services, with a maximum deflection of 1/360 in the span of each component member, and free from horizontal movement.

.3 Metal Stud Partition Framing:

- .1 Secure ceiling and floor runner tracks at floor and tops of partitions for their full length, at 24" o.c. with concrete nails, square cut nails, toggle bolts, or sheet metal screws as suitable for base material. Install runner tracks also at heads and sills of openings. Secure runner tracks at openings by cutting flanges, turning up webs, and screwing to studs.
- .2 Install top runner deflection tracks with slotted oversized flanges at top of non-load bearing partitions to compensate for deflection of structure.
- .3 Install base runner tracks with oversized flanges to compensate for installation of poured in place cementitious floor toppings (min. 1" deep).

3.2 **INSTALLATION (CONT'D)**

- .4 Butt, not mitre, runners at wall intersections and corners. At ceilings, lap and screw channels together.
- .5 Space studs at 16" O.C., generally; and at no greater distance than 2" from abutting walls, partitions and corners.
- .6 Secure studs to runners by screws, crimping, or welding, as required by stud type, and in accordance with manufacturer's design specification.
- .7 Install studs of depth indicated on Drawings: but in no case span studs 1-5/8" deep more than 9'-0" between supports; 2-1/2" deep, 12'-0"; and 3-5/8" deep, 16'-0".
- .8 Extend double studs on each side of all openings from floor to ceiling or structure above, which ever is indicated.
- .9 Erect three studs at corner and intermediate intersections of partitions.
- .10 Install bracing channels in partitions, spaced equally in partition height, at no more than 3'-0" O.C. where not otherwise specified; over doors in partitions of greater height than 10'-0", spaced as preceding; and above and below window-type openings, spaced not more than 6" from the top and bottom of the opening. Install two lines of bracing in partitions up to 8'-0" high and three lines in partitions up to 12'-0" high. Install bracing channels in stud cut-outs, wire tied or welded to each stud, and extending horizontally across entire length of each braced partition and across two full stud spaces at each side of door and window openings.
- .11 Splice studs by nesting, with 8" minimum lap, and fastened with one screw in each flange.
- .12 Coordinate Work with others installing horizontal runs of service lines so that Work of all is done simultaneously.
- .13 Screw, or weld, frame anchor clips, of frames supplied under the Work of Section 08 11 13 "Hollow Metal Doors and Frames", to jamb studs, and head and sill runners. Ensure adequate fastening to prevent movement of the frame within the partition. Remove spreaders at floor after frames are anchored.
- .14 Unless shown otherwise on Drawings, partitions, together with wall board facings, shall extend above ceiling to underside of structure above or be laterally braced.
- .15 Ensure strict compliance with the limiting height tables for stud size, gauge and allowable deflection, and when used for alternate board products with different weights and performance.

3.2 **INSTALLATION (CONT'D)**

.16 Metal studs in walls required to have a fire resistance rating shall be installed so that there is a 1/2" clearance between the top of the stud and the top of the runner to allow for expansion in the event of fire.

.4 Accessories

.1 At external corners install corner beads secured to framing at 6" o.c. on alternate flanges.

.2 At board edges secure casing beads at 12' o.c. at edges exposed to view, where board butts against other materials with no trim to conceal junction, at control joints, at perimeter of ceiling surfaces, at tops of partitions where otherwise indicated on Drawings.

.3 Install control joints in walls, partitions and ceilings at no greater spacing than 25'-0" in each direction, at perimeters of ceilings where they abut walls and other vertical surfaces, or as otherwise indicated. Line up control joints in other construction or with centre lines of mullions, columns, piers, or similar building elements.

.4 Install casings and thermal breaks at junctions of drywall with exterior door, window or screen frames. Apply self-sticking resilient sponge tape where gypsum board abuts, same, to casing bead.

.5 Application of Board

.1 Extend board into door, window, and other opening reveals, and on metal stud partitions to structure above, unless noted otherwise on Drawings.

.2 Board is to be cut to fit tight into deck flutes and around structural members to maintain acoustic & fire separations, thermal barriers and to provide a completed finish.

.3 Apply board with long dimension perpendicular to supports except at stud partitions where they shall be parallel to studs for Fire Rated Assemblies.

.4 Back all joints with a framing member. Locate joints on opposite sides of partitions on different studs, and at least 12" from opening jambs.

.5 Install board in maximum lengths and widths to minimize joints, and in lengths of 6'-0" minimum. Stagger end joints where they are unavoidable.

.6 Form neat joints at mill ends and at job cut edges of board panels. Cut paper on face with knife. Smooth by sanding and rubbing edges together.

3.2 **INSTALLATION (CONT'D)**

- .7 Fasten wallboard to metal support members by sheet metal drywall screws 3/8" minimum and 1/2" maximum from centre of joints. Space screws:
 - .1 At ceilings of fire rated board at 8" o.c. at edges and in field.
 - .2 At walls of fire rated board at 8" o.c. at edges and 12" o.c. in field.
 - .3 Locate screws opposite one another in adjacent panels.
 - .4 At walls and ceilings where non-fire rated board is used at 12" o.c. at edges and in field.
 - .5 To both double jamb studs for all openings @ 8" o.c.
- .8 Start application on walls at corners of rooms, and on ceilings from centre line of spaces. Do not force adjacent boards into place; allow moderate contact. Install extension clips where required. Drive screws to form a slight depression, but not so paper cover is broken.
- .9 Nail board to wood furring as specified in CSA Standard A82.31.
- .10 Ensure gypsum board sits tight to floor surface to provide full support for wall bases.
- .6 Control Joints for Gypsum Board partitions
 - .1 Control joints should be employed in long expanses of partitions at 25-foot intervals, from floor to ceiling. Control joints are recommended at doorjamb s, extending from door head to ceiling. Where doorjamb s extend from floor to ceiling and are spaced less than 25 feet apart, no control joints are required.
 - .2 Control joints are required in ceilings to limit areas to 2,500 square feet. Additionally, control joints should be installed in ceilings to limit dimensions in either direction to 50 feet. Control joints should be installed where ceiling framing or furring changes direction.
- .7 Finishing of Joints and Depressions:
 - .1 Fill joints, casing beads, corner beads, holes at board fasteners and depressions on board surfaces exposed to view to ensure smooth seamless surfaces and square neat corners. Use jointing compounds and reinforcing tapes in conformance with manufacturer's specification. Ensure that board is tight against framing members, fasteners are properly depressed, and adhesives have sufficiently cured.
 - .2 For joints not exposed to view but are part of an acoustic wall with insulation fill, an STC Rating or a Fire Rating, these are to be fully taped and mudded full height.

3.2 **INSTALLATION (CONT'D)**

- .3 Fill joints by three-coat method:
 - .1 Embed reinforcing tape in a cover coat of joint filler.
 - .2 Apply skim coat of topping cement when level coat has dried.
 - .3 Feather edges of compounds into surfaces of wallboards.
After skim coat has dried for at least 24 hours sand to leave smooth. Do not sandpaper face of wallboard.
 - .4 At bevelled joints: Apply cover coat 7" wide, level coat 10" wide, and skim coat 12" wide.
 - .5 At end joints and butt joints formed at cut edges of wallboard. Apply cover coat 14" wide, level coat 20" wide, and skim coat 24" wide. Camber treatment over end joints to 1/32" thick at most.
 - .6 At Internal Corners: First fill gaps between boards with joint filler. Embed creased reinforcing tape in a thin coat of joint filler applied 2" wide at each side of corner. Apply cover coat as specified for bevelled joints) to just one side of joint, and when dry, apply skim coat to other side.
 - .7 At External Corners: Fill to nose of corner bead with joint filler and topping cement as specified for bevelled joints.
 - .8 At casing beads: As specified for bevelled joints.
 - .9 At Board Fasteners: Fill holes and depressions with a two coat application of joint filler.

.8 Caulking

- .1 Caulk between casing beads and other construction where junctions are exposed to view.
- .2 Caulk junctions between drywall fire separations and projections, and other construction to ensure that integrity of fire rating is maintained. Ensure that caulked joints provide a continuous seal and that they are caulked before other Work encloses them.
- .3 Clean joints, prime and install sealants in accordance with the requirements of Section "07 90 00 Joint Protection".

3.2 INSTALLATION (CONT'D)

.9 Bracing:

- .1 Non-Full Height walls require lateral bracing every 6'-8'.
- .2 Corner braces and/or angle braces up to roof / floor structure on both sides of walls are required.
- .3 Securing top track only to the underside of an acoustic tile T-bar ceiling is not permitted. Lateral bracing is still required for walls as noted above , however, connection of top track to the framing for a suspended drywall ceiling is permitted.

.10 Openings:

- .1 All openings in fire separations require double studs on both sides.
- .2 Refer to the fire damper installation documents for framing requirements around dampers.
- .3 In non-fire separations, openings >6' up to 12', provide double studs on both sides.
- .4 Openings up to 4 feet - Track only lintel is acceptable, except in a fire separation use a double track lintel.

3.3 CONSTRUCTION OF SOUND ATTENUATED PARTITIONS

.1 Execute as follows for all gypsum board wall construction:

- .1 Install sound attenuation batts.
- .2 A 1/8" continuous bead of acoustical sealant around perimeter of wall at web of top and bottom tracks and end studs. Lay gypsum board into position forcing caulking bead to fill space between gypsum board and structure.
- .3 Seal full perimeter for cut-outs around electrical boxes, pipes and ducts and perimeter convactor pipes with acoustical sealant.

3.4 CONSTRUCTION OF FIRE RATED PARTITIONS AND CEILINGS

- .1 Construct all gypsum board partitions and ceilings identified to require a fire resistance rating in strict conformance with U.L.C. Designs or approved alternate.
- .2 Fit assemblies tightly to enclosing constructions to maintain integrity of the separations.

3.5 TILE BACKER BOARD APPLICATIONS

- .1 Studs and retaining t's are to be spaced at 16" o.c. max. deflection = 1/360 of span.
- .2 Install 1/2" tile backer board in all areas and washrooms to receive ceramic tiling. Install board with the grey face out away from framing. Boards can be set parallel or perpendicular to the wall framing.
- .3 To extend 6'-0" from F.F.L. continuous around perimeter in Washrooms, full height in Showers.
- .4 Fasten at 150mm (6") o.c. and a min. of 12.7mm (1/2") from edges. Drive fasteners flush to coated surface of board.
- .5 Joint Treatment: Butt ends and edges snugly and fit tight around all cut-outs and adjacent surfaces. Reinforce all joints with a 50mm (2") wide 10 x 10 coated glass mesh tape embedded in the adhesive to be used by the tile installer.
- .6 Follow the manufacturers literature and instructions to ensure compliance with the limited warranty. If any part of these instructions are in conflict with the contract documents request clarification from the architect.

3.6 ADJUSTMENT & CLEANING

- .1 Remove droppings and excess of joint compound from Work of others, and from Work of this Section, before it sets.
- .2 Make good to cut-outs for services and other Work, fill in defective joints, holes and other depressions with joint compound.
- .3 Make good defective work, and ensure that surfaces are smooth, evenly textured and within specified tolerances to receive finish treatment.
- .4 Clean off beads, casings and other metal trim, and leave all surfaces ready for specified finishes.

END OF SECTION

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**ADDITION TO
MILTON DISTRICT H.S.
MILTON, ON
PROJECT NO. 24-060**

PHENOLIC CORE TOILET PARTITIONS

**SECTION 10 21 13
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PART 1 – GENERAL

1.0 CONTRACT DOCUMENTS

- .1 The Instructions to Bidders, the General Conditions of CCDC 2 - 2020, Supplementary Conditions and all Sections of Division 01 apply to and form part of this section of the specification.

1.1 RELATED WORK SPECIFIED ELSEWHERE

- .1 Rough Carpentry Section 06 10 00
- .2 Toilet, Bath, and Laundry Accessories Section 10 28 00

1.2 REFERENCES

- .1 ASTM International (ASTM):
- .2 ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- .3 ASTM A240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
- .4 ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- .5 ASTM A743/A743M - Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application.
- .6 ASTM B86 - Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings.
- .7 ASTM B221 - Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- .8 American National Standards Institute (ANSI)
- .9 CAN/CSA-B651-95, Barrier-Free Design.

1.3 COORDINATION

- .1 Coordinate requirements for blocking, reinforcing, and other concealed supports to ensure that toilet compartments can be supported and installed as indicated.

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PHENOLIC CORE TOILET PARTITIONS

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1.4 **SUBMITTALS**

- .1 Provide in accordance with Section 01 33 00 "Submittal Procedures":
 - .1 Product Data. Manufacturer's standard technical literature.
 - .2 Shop Drawings: Include dimensions, floor plan, elevations, sections, attachments to other work, and installation details. Indicate locations where blocking is required.
 - .3 Samples for Selection: Furnish manufacturer's standard color card showing full range of colors for initial selection.
 - .4 Warranty: Sample of special warranty.

1.5 **CLOSEOUT SUBMITTALS**

- .1 Maintenance and cleaning instructions.

1.6 **QUALITY ASSURANCE**

- .1 Manufacturer Qualifications: Approved manufacturer listed in this section, with minimum 5 years' experience in the manufacture of toilet partitions.
- .2 Installer: Firm with record of successful installations on projects of similar scope.

1.7 **DELIVERY, STORAGE, AND HANDLING**

- .1 Comply with manufacturer's instructions for storage and handling.
- .2 Deliver materials in original unopened packages with manufacturer's labels intact.
- .3 Store in an upright position. Do not lay flat or stack.
- .4 Protect materials from damage and deterioration.

1.8 **FIELD CONDITIONS**

- .1 Do not deliver toilet partitions to site until building is enclosed and HVAC systems are in operation.
- .2 Install toilet partitions after other finishing operations, including painting, have been completed.
- .3 Field Measurements: Verify actual locations of fixtures, walls, columns, ceilings, and other construction by field measurements, and coordinate before toilet partition fabrication.

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1.9 **WARRANTY**

- .1 Special Manufacturer's Warranty: Provide manufacturer's standard form in which manufacturer warrants against defects in materials and workmanship during the following period:
 - .1 Phenolic-Core Toilet Partitions: 25 years.

PART 2 – PRODUCTS

2.1 **MANUFACTURER**

- .1 Manufacturer: Provide listed products of Hadrian Manufacturing Inc., 965 Syscon Road, Burlington, ON, Canada, L7L 5S3, 905-333-0300, www.hadrian-inc.com.
- .2 Or Approved Alternate.

2.2 **PHENOLIC-CORE TOILET PARTITIONS**

- .1 Phenolic-Core Toilet Compartments:
 - .1 European: 95-inch (2413-mm-) high doors and panels at 1" above finished floor.
 - .2 Basis of Design Product: **Hadrian Elite Max**.
 - .3 Style: Headrail Braced.
 - .4 Door and Panel Mounting Height: 1" AFF
- .2 Phenolic Door, Panel, and Pilaster Construction, General: Decorative surface papers impregnated with melamine resins, pressed over kraft paper core sheets impregnated with phenolic resin and bonded together under high pressure and temperature.
- .3 Doors and Pilasters: No-sightline interlocking doors and pilasters. 3/4-inch- (19-mm-) thick with no sightline rebate and 45-degree chamfered edges. Bottom 3" of doors to be notched to clear pilaster shoe.
- .4 Partition Panels: 1/2-inch- (13-mm) thick, straight cut with 45-degree chamfered edges.
- .5 Headrails: 1 inch (25 mm) by 1.75 inch (44 mm), #4 brushed finish, extruded aluminum with anti-grip design. Minimum 0.060-inch (1.5 mm) wall thickness. Securely attach to wall and pilasters with manufacturer's fittings to make a rigid installation.
- .6 Floor Shoes: 4-inch- (76 mm-) high stainless steel.

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2.3 **HARDWARE AND ACCESSORIES**

- .1 Hinges: Surface mounted, 11-gauge stainless steel with adjustable cams for self-closing operation. Attach to doors and pilasters with manufacturer’s standard stainless-steel fasteners.
- .2 Indicator Latches: Manufacturer’s standard brushed nickel zamac indicator latch assembly with antimicrobial coating showing red in the window when in locked position and green when unlocked.
- .3 Door Pulls: Manufacturer’s standard brushed nickel zamac pulls with antimicrobial coating at out swinging doors that comply with accessibility requirements.
- .4 Wall Connections: Continuous stainless-steel channels at panel to wall, panel to pilaster, and pilaster to wall connections, Grade 304 stainless steel, #4 brushed finish.
- .5 Coat Hooks:
 - .1 Inswing Doors: Stamped stainless steel door hook, Grade 304 stainless steel, #4 brushed finish, combined coat hook and bumper.
 - .2 Outswing Doors: Stainless steel flat coat hook, Grade 304 stainless steel, #4 brushed finish.
- .6 Fasteners: Manufacturers standard stainless-steel fasteners, vibration resistant, twin lead, with pan heads.
- .7 Ceiling Support Studs: Heavy duty hanging studs supplied by manufacturer with 4 inch (102 mm) stainless steel sleeves to conceal ceiling connection.

2.4 **PERFORMANCE REQUIREMENTS**

- .1 Surface-Burning Characteristics: Comply with ASTM E84; tested by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- .2 Flame-Spread Index: [25] [75] or less.
- .3 Smoke-Developed Index: 450 or less.

2.5 **MATERIALS**

- .1 Zinc Aluminum Magnesium and Copper Alloy (Zamac): ASTM B86.
- .2 Stainless Steel Sheet: ASTM A240 or A666, 300 series.
- .3 Stainless Steel Castings: ASTM A 743/A 743M.
- .4 Aluminum: ASTM B221.

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2.6 FABRICATION

- .1 General: Fabricate toilet compartments to sizes indicated on Drawings. Coordinate requirements and provide for attachment of toilet accessories. Provide cutouts for through-partition toilet accessories where required.
- .2 Doors: Pre-drill holes for latches and hinges. Factory install rubber bumpers secured with press fit and adhesive.
- .3 Pilasters: Pre-drill holes for hinges.
- .4 Anchors: Manufacturer's standard corrosion-resistant supports, leveling mechanism, and anchors at pilasters and walls to suit floor and wall conditions. Provide shoes at pilasters to conceal supports and leveling mechanism.
- .5 Door Size and Swings: Unless otherwise indicated, provide 24-inch- (610-mm-) wide, in-swinging doors for standard toilet compartments and 36-inch- (914-mm-) wide, out-swinging doors with a minimum 32-inch- (813-mm-) wide clear opening for compartments designated as accessible.

PART 3 – EXECUTION

3.1 EXAMINATION

- .1 Examine areas and conditions, with Installer present, for compliance with requirements for fastening, support, alignment, operating clearances, and other conditions affecting performance of the Work.
- .2 Confirm location and adequacy of blocking and support required for installation.
- .3 Do not proceed with installation until conditions meet manufacturer's requirements.

3.2 INSTALLATION

- .1 General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices penetrating structural floor to depth indicated in manufacturer's written instruction.
- .2 Headrail-Braced Compartments: Secure pilasters to floor and level, plumb, and tighten. Secure continuous head rail to each pilaster. Adjust so tops of doors are parallel with overhead brace when doors are in closed position.

3.3 ADJUSTING

- .1 Hardware Adjustment: Adjust and lubricate hardware according to manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold doors open approximately 15 degrees from closed position when unlatched. Set hinges on out-swinging doors to return doors to fully closed position.

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PHENOLIC CORE TOILET PARTITIONS

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3.4

FINAL CLEANING

- .1 Remove packaging and construction debris and legally dispose of off-site.
- .2 Clean partition and screen surfaces with materials and cleansers in accordance with manufacturer's recommendations.

END OF SECTION

Finishing Hardware Schedule

Milton District HS Reno 2026 HDSB

Architect

BJC Architects & Assoc Inc.

Detailer: **Austin Baril**

Consultant: **ROSS RUPRECHT B.A., A.H.C.**

Plan Revision: **1**

Submittal Date: **Mar 1/26**



Commercial Doors & Hardware Ltd.
2150 Winston Park Drive, Unit 16
Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

Submittal Date: Mar 1/26

Manufacturers & Finishes

Manufacturers

Camden
CBH
Fleming Door Products Ltd.
Gallery
Glynn-Johnson
GYRO-TECH
Ives
K.N. Crowder
LCN
MISC
Schlage
Schlage E.S.
UNK
Von Duprin
Zero

Finishes

626 - Satin chromium plated
over nickel
630 - Satin stainless steel
652 - Satin chromium plated
over nickel
689 - Aluminum painted
US26D - Satin chromium plated
over nickel
US28 - Satin aluminum, clear
anodized
US32D - Satin stainless steel



Commercial Doors & Hardware Ltd.
2150 Winston Park Drive, Unit 16
Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

Submittal Date: Mar 1/26

Openings Schedule

Opening Number(s)	Qty	Door Catalog	Location 1	To/ From	Location 2	Nominal Width	Nominal Height	Door Thickness	Hand	Label	Degree of Opening	Hardware Group	Remarks	Heading Num.
100	1	Fleming	EXTERIOR	FROM	VESTIBULE	965, 965	2130	45	LHRA/RHRA		90°	EXT PR ADO RM	ONE LEAF AUTOMATIC DOOR, ELECTRIFIED HINGE, OPERATOR DOOR PUSH BUTTONS, OVERHEAD STOP & CONCEALED HOLDER	1
101	1	Fleming	EXTERIOR	FROM	VESTIBULE	965, 965	2130	45	LHRA/RHRA		90°	EXT PR RM		2
102	1	Fleming	VESTIBULE	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA		90°	VEST PR ADO	ONE LEAF AUTOMATIC DOOR, ELECTRIFIED HINGE, OPERATOR DOOR PUSH BUTTONS, OVERHEAD STOP & CONCEALED HOLDER	3
103	1	Fleming	VEST	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA		90°	VEST PR DB		4
104	1	Fleming	CORRIDOR	FROM	GEN OFFICE	965	2130	45	RHR	45MIN	90°	CLASS RM CL OHS		5
105	1	<Wood>	GEN OFFICE	FROM	CONFERENCE	965	2130	45	LHR		90°	CLASS RM OHS		6
106	1	<Wood>	WORK SPACE	FROM	CONFERENCE	965	2130	45	RHR		90°	CLASS RM OHS		6
107	1	<Wood>	STUDENT SERVICES	TO	OFFICE	965	2130	45	LH		90°	CLASS RM OHS		6
108	1	<Wood>	STUDENT SERVICES	TO	OFFICE	965	2130	45	RH		90°	CLASS RM OHS		6
109	1	Fleming	CORRIDOR	FROM	STUDENT SERVICES	965, 965	2130	45	LHRA/RHRA	45MIN	90°	VEST PR ULC RM		7
110	1	<Wood>	STUDENT SERVICES	TO	OFFICE	965	2130	45	LH		90°	CLASS RM OHS		6
111	1	<Wood>	STUDENT SERVICES	TO	OFFICE	965	2130	45	RH		90°	CLASS RM OHS		6
112	1	Fleming	CORRIDOR	TO	STORAGE	965	2130	45	RH		90°	STORAGE		8
113	1	Fleming	CORRIDOR	TO	WASHROOM	965	2130	45	LH		90°	WR		9
114	1	Fleming	CORRIDOR	TO	WASHROOM	965	2130	45	RH		90°	WR		9
115	1	Fleming	CORR	FROM	GEN OFFICE	965	2130	45	RHR		90°	CLASS RM CL		10
116	1	Fleming	CORRIDOR	FROM	CORRIDOR	965	2130	45	RHR	45MIN	90°	CLASS RM CL		11
117	1	Fleming	CORRIDOR	TO	WASHROOM	965	2130	45	LH	45MIN	90°	WR ADO 19	YES ADO	12
118	1	Fleming	CORRIDOR	TO	OFFICE	965	2130	35	LH		90°	CLASS RM OHS		13
119	1	Fleming	GENERAL OFFICE	TO	STORAGE	965	2130	45	RH		90°	STORAGE OHS ONLY		14
120	1	Fleming	CORRIDOR	TO	OFFICE	965	2130	45	LH		90°	CLASS RM OHS		15
121	1	Fleming	CORRIDOR	TO	OFFICE	965	2130	45	LH		90°	CLASS RM OHS		15
122	1	Fleming	CORRIDOR	TO	OFFICE	965	2130	45	RH		90°	CLASS RM OHS		15



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Opening Number(s)	Qty	Door Catalog	Location 1	To/ From	Location 2	Nominal Width	Nominal Height	Door Thickness	Hand	Label	Degree of Opening	Hardware Group	Remarks	Heading Num.
123	1	Fleming	CORRIDOR	TO	OFFICE	965	2130	45	LH		90°	CLASS RM OHS		15
124	1	Fleming	WAITING	TO	VICE PRINC OFFICE	965	2130	45	LH		90°	CLASS RM OHS		15
125	1	Fleming	WAITING	TO	PRINC OFFICE	965	2130	45	LH		90°	CLASS RM OHS		15
126	1	Fleming	CORRIDOR	TO	OFFICE	965	2130	45	RH		90°	CLASS RM OHS		15
127	1	Fleming	EXIST CORRIDOR	FROM	CORRIDOR	965, 965, 965	2130	45	RHR,LHR,RHR	45MIN	90°	MULTI DR ULC		16
128	1	Fleming	CORRIDOR	FROM	EXIST CORRIDOR	965, 965	2130	45	LHRA/RHRA	45MIN	90°	VEST PR ULC RM LAO		17
129	1	Fleming	STAIR	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA	45MIN	90°	VEST PR ADO ULC RM	ONE LEAF AUTOMATIC DOOR, ELECTRIFIED HINGE, OPERATOR DOOR PUSH BUTTONS, OVERHEAD STOP & CONCEALED HOLDER	18
130	1	Fleming	EXTERIOR	FROM	STAIR	965, 965	2130	45	LHRA/RHRA		90°	EXT PR ADO RM	ONE LEAF AUTOMATIC DOOR, ELECTRIFIED HINGE, OPERATOR DOOR PUSH BUTTONS, OVERHEAD STOP & CONCEALED HOLDER	1
131	1	Fleming	CORRIDOR	FROM	CAFETERIA	965, 965	2130	45	LHRA/RHRA	45MIN	110°	VEST PR ULC RM		7
132	1	Fleming	CAFETERIA	TO	MECHANICAL ROOM	1067	2130	45	LH	45MIN	90°	MECH RM 1100		19
133	1	Fleming	MECHANICAL ROOM	FROM	ELEV MACHINE ROOM	965	2130	45	LHR		90°	STORAGE		8
134	1	Fleming	CORRIDOR	FROM	CAFETERIA	965, 965	2130	45	LHRA/RHRA	45MIN	100°	VEST PR ULC RM		7
135	1	Fleming	CORRIDOR	TO	STAFF ROOM	965	2130	45	LH	45MIN	90°	CLASS RM CL OHS		5
136	1	Fleming	CORRIDOR	TO	IT ROOM	965	2130	45	RH	45MIN	90°	STORAGE		20
137	1	Fleming	SERVERY	TO	KITCHEN	965	2130	45	LH		90°	CLASS RM CL-HO		21
138	1	Fleming	KITCHEN	FROM	STORAGE	965	2130	45	RH		90°	STORAGE		8
139	1	Fleming	CORRIDOR	TO	BREAKFAST	965	2130	45	LH	45MIN	90°	CLASS RM CL		11
140	1	Fleming	CORRIDOR	FROM	STORAGE	965, 965	2130	45	LHRA/RHRA	45MIN	90°	STORAGE PR		22
141	1	Fleming	CORRIDOR	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA	45MIN	90°	VEST PR ULC RM LAO		17
142	1	Fleming	CORRIDOR	TO	CLASSROOM	965	2130	45	RH	45MIN	90°	CLASS RM OHS		23
143	1	Fleming	CORRIDOR	FROM	CAFETERIA	965, 965	2130	45	LHRA/RHRA	45MIN	110°	VEST PR ULC RM		7
144	1	Fleming	CAFETERIA	TO	MECHANICAL ROOM	1067	2130	45	RH	45MIN	90°	MECH RM 1100		19
145	1	Fleming	CORRIDOR	TO	CLASSROOM	965	2130	45	LH	45MIN	90°	CLASS RM CL		11
146	1	Fleming	CORRIDOR	TO	CLASSROOM	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
147	1	Fleming	VESTIBULE	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA		90°	VEST PR DB WS		24
148	1	Fleming	EXTERIOR	FROM	VESITBULE	965, 965	2130	45	LHRA/RHRA		90°	EXT PR RM NL		25



Commercial Doors & Hardware Ltd.
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149	1	Fleming	EXTERIOR	FROM	VESITBULE	965, 965	2130	45	LHRA/RHRA		90°	EXT PR RM NL FG		26
150	1	Fleming	VESTIBULE	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA		90°	VEST PR DB FG		27
151	1	Fleming	CORRIDOR	TO	STAFF ROOM	965	2130	45	LH		90°	CLASS RM CL		10
152	1	Fleming	CORRIDOR	TO	KITCHEN	965	2130	45	RH		90°	CLASS RM CL		10
153	1	Fleming	CORRIDOR	TO	LAUNDRY	965	2130	45	RH		90°	CLASS RM WS		28
154	1	Fleming	CORRIDOR	TO	WASHROOM	965	2130	45	LH		90°	WR ADO FG	ADO YES	29
155	1	Fleming	CORRIDOR	TO	STORAGE	965	2130	45	RH		90°	STORAGE		8
156	1	Fleming	CORRIDOR	TO	WASHROOM	965	2130	45	RH		90°	WR		9
157	1	Fleming	CORRIDOR	TO	MECH ROOM	1067	2130	45	LH	45MIN	90°	MECH RM 1100		19
158	1	Fleming	EXISTING CORRIDOR	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA		90°	VEST PR CR RM		30
159	1	Fleming	VESTIBULE	FROM	CORRIDOR	965	2130	45	LHR		90°	VEST ADO DB	YES ADO	31
160	1	Fleming	EXTERIOR	FROM	VESITBULE	965	2130	45	LHR		90°	M160	YES ADO	32
161	1	Fleming	CORRIDOR	TO	INFANT	965	2130	45	LH		90°	CLASS RM OH FG		33
162	1	<Wood>	INFANT	TO	WASHROOM	965	2130	45	RH-POCKET			SLIDER	SLIDING DOOR?	34
163	1	Fleming	INFANT	TO	STORAGE	965	2130	45	LH		90°	STORAGE WS NO CL FG		35
164	1	Fleming	VESTIBULE	FROM	INFANT	965	2130	45	RHR		90°	VEST SGL DB FG		36
165	1	Fleming	EXTERIOR	FROM	VESTIBULE	965	2130	45	RHR		90°	EXT SGL FG		37
166	1	Fleming	CORRIDOR	TO	STORAGE	965	2130	45	RH		90°	STORAGE		8
167	1	Fleming	CORRIDOR	TO	TODDLER	965	2130	45	LH		90°	CLASS RM OH FG		33
168	1	<Wood>	TODDLER	TO	WASHROOM	965	2130	45	RH-POCKET			SLIDER	SLIDING DOOR?	34
169	1	Fleming	TODDLER	TO	STORAGE	965	2130	45	LH		90°	STORAGE WS NO CL FG		35
170	1	Fleming	VESTIBULE	FROM	TODDLER	965	2130	45	RHR		90°	VEST SGL DB FG		36
171	1	Fleming	EXTERIOR	FROM	VESITBULE	965	2130	45	LHR		90°	EXT SGL FG		37
172	1	Fleming	VESTIBULE	FROM	TODDLER	965	2130	45	LHR		90°	VEST SGL DB FG		36
173	1	Fleming	TODDLER	TO	STORAGE	965	2130	45	RH		90°	STORAGE WS NO CL FG		35
174	1	<Wood>	TODDLER	TO	WASHROOM	965	2130	45	LH-POCKET			SLIDER	SLIDING DOOR?	34



Commercial Doors & Hardware Ltd.
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Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

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Opening Number(s)	Qty	Door Catalog	Location 1	To/ From	Location 2	Nominal Width	Nominal Height	Door Thickness	Hand	Label	Degree of Opening	Hardware Group	Remarks	Heading Num.
175	1	Fleming	CORRIDOR	TO	TODDLER	965	2130	45	RH		90°	CLASS RM OH FG		33
176	1	Fleming	CORRIDOR	TO	PRESCHOOL	965	2130	45	LH		90°	CLASS RM OH FG		33
177	1	<Wood>	PRESCHOOL	TO	WASHRRM	965	2130	45	RH-POCKET			SLIDER	SLIDING DOOR?	34
178	1	Fleming	PRESCHOOL	TO	STORAGE	965	2130	45	LH		90°	STORAGE WS NO CL FG		35
179	1	Fleming	VESTIBULE	FROM	PRESCHOOL	965	2130	45	RHR		90°	VEST SGL DB FG		36
180	1	Fleming	EXTERIOR	FROM	VESTIBULE	965	2130	45	LHR		90°	EXT SGL FG		37
181	1	Fleming	VESTIBULE	FROM	PRESCHOOL	965	2130	45	LHR		90°	VEST SGL DB FG		36
182	1	Fleming	PRESCHOOL	TO	STORAGE	965	2130	45	RH		90°	STORAGE WS NO CL FG		35
183	1	<Wood>	PRESCHOOL	TO	WASHRRM	965	2130	45	LH-POCKET			SLIDER	SLIDING DOOR?	34
184	1	Fleming	CORRIDOR	TO	PRESCHOOL	965	2130	45	RH		90°	CLASS RM OH FG		33
185	1	Fleming	CORRIDOR	TO	OFFICE	965	2130	45	RH		90°	CLASS RM OH FG		33
186	1	Fleming	EXTERIOR	FROM	SPRINKLER	965	2130	45	LHR		90°	EXT STORAGE SGL		38
187	1	<None>										FENCE GATE	FENCED GATE BY LANDSCAPING	41
188	1	<None>										FENCE GATE	FENCED GATE BY LANDSCAPING	41
189	1	<None>										FENCE GATE	FENCED GATE BY LANDSCAPING	41
190	1	<None>										FENCE GATE	FENCED GATE BY LANDSCAPING	41
ex01	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex02	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex03	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex04	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex05	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex06	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex07	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex08	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex09	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex10	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42



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Opening Number(s)	Qty	Door Catalog	Location 1	To/ From	Location 2	Nominal Width	Nominal Height	Door Thickness	Hand	Label	Degree of Opening	Hardware Group	Remarks	Heading Num.
ex11	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex12	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex13	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex14	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex15	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex16	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex17	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
200	1	Fleming	STAIR	FROM	VESTIBULE	965, 965	2130	45	LHRA/RHRA	45MIN	90°	VEST PR ULC RM WS		43
201	1	Fleming	CORRIDOR	TO	STORAGE	965	2130	45	LH		90°	STORAGE		8
202	1	Fleming	CORRIDOR	TO	CLASSROOM	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
203	1	Fleming	CORRIDOR	TO	FAMILY STUDIES	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
204	1	Fleming	CORRIDOR	TO	ART ROOM	965	2130	45	LH	45MIN	90°	CLASS RM CL		11
205	1	Fleming	ART ROOM	TO	ART ROOM	965	2130	45	LH		90°	CLASS TO CLASS		44
206	1	Fleming	CORRIDOR	TO	ART ROOM	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
207	1	<None>	ART ROOM	TO	KILN ROOM							EXISTING	EXISTING DOOR AND FRAME	45
208	1	Fleming	CORRIDOR	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA	45MIN	90°	VEST PR ULC RM LAO		17
209	1	Fleming	CORRIDOR	TO	RESOURCE ROOM	965	2130	45	LH	45MIN	90°	CLASS RM CL OHS		5
210	1	Fleming	CORRIDOR	TO	STAFF WORK ROOM	965	2130	45	LH	45MIN	90°	CLASS RM CL OHS		5
211	1	Fleming	CORRIDOR	TO	STAFF ROOM	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
212	1	Fleming	STAFF ROOM	TO	WASHROOM	965	2130	45	LH		90°	WR		9
213	1	Fleming	STAFF ROOM	TO	WASHROOM	965	2130	45	RH		90°	WR		9
214	1	Fleming	CORRIDOR	TO	CLASSROOM	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
215	1	Fleming	CORRIDOR	TO	SPECIAL ED	965	2130	45	LH	45MIN	90°	CLASS RM CL		11
216	1	Fleming	CORRIDOR	TO	STORAGE	965	2130	45	LH	45MIN	90°	STORAGE		20
217	1	Fleming	CORRIDOR	TO	CLASSROOM	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
218	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42



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Opening Number(s)	Qty	Door Catalog	Location 1	To/ From	Location 2	Nominal Width	Nominal Height	Door Thickness	Hand	Label	Degree of Opening	Hardware Group	Remarks	Heading Num.
219	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
220	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
221	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
222	1	Fleming	CORRIDOR	FROM	STAIR	965, 965	2130	45	LHRA/RHRA	45MIN	90°, 110°	M222		46
223	1	Fleming	CORRIDOR	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA	45MIN	90°	VEST PR ULC RM LAO		17
224	1	Fleming	CORRIDOR	TO	CLASSROOM	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
225	1	Fleming	CORRIDOR	TO	CLASSROOM	965	2130	45	LH	45MIN	90°	CLASS RM CL		11
226	1	Fleming	CORRIDOR	TO	CLASSROOM	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
227	1	Fleming	EXIST LIB MECH RM			965, 965	2032	45	RHRA	45MIN	90°	MECH PR		47
ex20	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex21	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex22	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex23	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
ex24	1	<None>										EXISTING	EXISTING DOOR AND FRAME	42
300	1	Fleming	CORRIDOR	FROM	STAIR	965, 965	2130	45	LHRA/RHRA	45MIN	90°	VEST PR ULC RM WS	FIRE RATED DOOR AND FRAME	43
301	1	Fleming	CORRIDOR	TO	STORAGE	965	2130	45	LH		90°	STORAGE		8
302	1	Fleming	CORRIDOR	FROM	MECH ROOM	1067, 1067	2130	45	RHA	45MIN	110°	MECH PR 42"	FIRE RATED DOOR, FRAME, LOUVER	48
303	1	Fleming	CORRIDOR	TO	CHEMISTRY LAB	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
304	1	Fleming	CHEMISTRY LAB	TO	PREP	965	2130	45	LH		90°	CLASS RM OHS		15
305	1	Fleming	CORRIDOR	TO	PREP	965	2130	45	LH	45MIN	90°	CLASS RM CL OHS		5
306	1	Fleming	CHEMISTRY LAB	TO	PREP	965	2130	45	RH		90°	CLASS RM OHS		15
307	1	Fleming	CORRIDOR	TO	CHEMISTRY LAB	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
308	1	Fleming	CORRIDOR	TO	SCIENCE CLASSROOM	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
309	1	Fleming	CORRIDOR	TO	PHYSICS	965	2130	45	RH	45MIN	90°	CLASS RM CL		11
309a	1	Fleming	PHYSICS	TO	CHEMISTRY LAB	965	2130	45	LH		90°	CLASS TO CLASS		44
310	1	Fleming	CORRIDOR	TO	STAFF WORK ROOM	965	2130	45	LH	45MIN	90°	CLASS RM CL OHS		5



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311	1	Fleming	STAFF WORK ROOM	TO	STORAGE	965	2130	45	LH		90°	STORAGE		8
312	1	Fleming	CORRIDOR	TO	GENERAL SCIENCE	965	2130	45	LH	45MIN	90°	CLASS RM CL OHS		5
313	1	Fleming	CORRIDOR	TO	GENERAL STORAGE	965	2130	45	LH	45MIN	90°	STORAGE CL OHS		49
314	1	Fleming	GENERAL SCIENCE	TO	GENERAL STORAGE	965	2130	45	LH		90°	CLASS RM OHS		15
315	1	Fleming	GENERAL SCIENCE	TO	GENERAL STORAGE	965	2130	45	RH		90°	CLASS RM OHS		15
316	1	Fleming	CORRIDOR	TO	GENERAL SCIENCE	965	2130	45	RH	45MIN	90°	CLASS RM CL OHS		5
317	1	Fleming	CORRIDOR	TO	WASHROOM	965	2130	45	LH		90°	WR		9
318	1	Fleming	CORRIDOR	TO	WASHROOM	965	2130	45	LH		90°	WR ADO	YES ADO	50
319	1	Fleming	CORRIDOR	TO	WASHROOM	965	2130	45	RH		90°	WR		9
320	1	Fleming	CORRIDOR	TO	JANITOR CLOSET	965	2130	45	RH	45MIN	90°	STORAGE		20
321	1	Fleming	CORRIDOR	TO	STORAGE	965	2130	45	LH	45MIN	90°	STORAGE		20
322	1	Fleming	STAIR	FROM	CORRIDOR	965, 965	2130	45	LHRA/RHRA	45MIN	90°	M222	FIRE RATED DOOR AND FRAME	46
323	1	Fleming	CORRIDOR	TO	GENERAL SCIENCE	965	2130	45	LH	45MIN	90°	CLASS RM CL		11
324	1	Fleming	CORRIDOR	TO	BIOLOGY	965	2130	45	RH	45MIN	90°	CLASS RM CL OHS		5
325	1	Fleming	BIOLOGY	TO	PREP	965	2130	45	LH		90°	CLASS RM OHS		15
326	1	Fleming	CORRIDOR	TO	PREP	965	2130	45	RH	45MIN	90°	CLASS RM CL OHS		5
327	1	Fleming	BIOLOGY LAB	TO	PREP	965	2130	45	RH		90°	CLASS RM OHS		15
327a	1	Fleming	BIOLOGY LAB	TO	PREP	965	2130	45	LH		90°	CLASS RM OHS		15
328	1	Fleming	CORRIDOR	TO	BIOLOGY	965	2130	45	RH	45MIN	90°	CLASS RM CL OHS		5
TC-LOCKS		<Wood>										TC-CLOSET		



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GENERAL:

**-ALL AUTO DOOR OPERATORS SPECIFIED MUST BE SUPPLIED & INSTALLED BY THE
HARDWARE SUPPLIER SECTION 08710.**

**WARRANTIES FOR HARDWARE AND AUTO OPERATORS MUST BE FROM ONE
SUPPLIER(HARDWARE SUPPLIER).**

-NO ALTERNATES FOR ADO'S WILL BE ACCEPTED.



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Hardware Schedule

Heading #1 (Group: EXT PR ADO RM)

Item #1	1 Pair of doors 100, EXTERIOR FROM VESTIBULE	90° LHRA/RHRA
Item #2	1 Pair of doors 130, EXTERIOR FROM STAIR	90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

REM HARDWARE MULLION WITH ELECTRIC QUICK DISCONNECT.

16	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 630	630
2	Removable Mullion	Von Duprin KR4854-BLANK -96 --689- 154	689
2	Exit Device	Von Duprin CD-98-EO-4' 626	626
2	Exit Device	Von Duprin CD-98-NL-OP -4' 626	626
4	Cylinder	Schlage 20-001 114 XQ11-949 36-083 GMK	626
2	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
2	Cylinder	Schlage 20-021 Open 626	626
2	Electric Strike	Von Duprin 6300- CON 24VAC -630	630
4	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
2	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
2	Surface Closer	LCN 4021 REGARM 689 45	689
2	Mounting Bracket	LCN 4020-18G	689
2	Electronic Closer	GYRO-TECH ADO 8710 X FWH CA 628 NO ALTERNATE	
4	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
4	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
2	Threshold	Zero 625A 84	A
2	Gasketing	Zero HD SEAL 429AA 84x 0	AA
4	Gasketing	Zero JS 485AA 84	AA
4	Gasketing	Zero SWEEP 8192AA 48	AA
2	Miscellaneous Item	Schlage E.S. 679-05HM BY SECURITY CONTRACTOR	BLK
2	Miscellaneous Hardware	UNK CARD READER BY SERURITY CONTRACTOR	
2	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
4	Actuator	Camden CM-60/4	
4	Escutcheon	Camden CM-89S	
2	Advanced Logic Relay	Camden CX-33	

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE.
INTEGRATION OF SECURITY INTERCOM WITH ADO BY DIV 26



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Heading #2 (Group: EXT PR RM)

Item #3 1 Pair of doors 101, EXTERIOR FROM VESTIBULE 90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

8	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 630	630
1	Removable Mullion	Von Duprin KR4954	689
2	Exit Device	Von Duprin CD-98-EO-4' 626	626
2	Cylinder	Schlage 20-001 114 XQ11-949 36-083 GMK	626
1	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
2	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
1	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
2	Surface Closer	LCN 4040XP EDA 689 45	689
2	Mounting Bracket	LCN 4040XP-18PA 689	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
1	Threshold	Zero 625A 84	A
1	Gasketing	Zero HD SEAL 429AA 84x 0	AA
2	Gasketing	Zero JS 485AA 84	AA
2	Gasketing	Zero SWEEP 8192AA 48	AA
1	Miscellaneous Item	Schlage E.S. 679-05HM BY SECURITY CONTRACTOR	BLK



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Heading #3 (Group: VEST PRADO)

Item #4 1 Pair of doors 102, VESTIBULE FROM CORRIDOR 90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

8	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 630	630
2	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
2	Push Bar	Von Duprin 350-630--- 4' Bar	630
1	Surface Closer	LCN 4021 REGARM 689 45	689
1	Mounting Bracket	LCN 4020-18G	689
1	Electronic Closer	GYRO-TECH ADO 8710 X FWH CA 628 NO ALTERNATE	
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
1	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
2	Actuator	Camden CM-60/4	
2	Escutcheon	Camden CM-89S	
1	Advanced Logic Relay	Camden CX-33	

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE.
INTEGRATION OF SECURITY INTERCOM WITH ADO BY DIV 26



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Heading #4 (Group: VEST PR DB)

Item #5 1 Pair of doors 103, VEST FROM CORRIDOR 90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

8	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 630	630
2	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
2	Push Bar	Von Duprin 350-630--- 4' Bar	630
2	Surface Closer	LCN 4040XP EDA ST-3068	689
2	Mounting Bracket	LCN 4040XP-18G	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE. INTEGRATION OF SECURITY INTERCOM WITH ADO BY DIV 26

Heading #5 (Group: CLASS RM CL OHS)

Item #6 1 Single door 104, CORRIDOR FROM GEN OFFICE 90° RHR
 Item #7 1 Single door 135, CORRIDOR TO STAFF ROOM 90° LH
 Item #8 1 Single door 209, CORRIDOR TO RESOURCE ROOM 90° LH
 Item #9 1 Single door 210, CORRIDOR TO STAFF WORK ROOM 90° LH
 Item #10 1 Single door 305, CORRIDOR TO PREP 90° LH
 Item #11 1 Single door 310, CORRIDOR TO STAFF WORK ROOM 90° LH
 Item #12 1 Single door 312, CORRIDOR TO GENERAL SCIENCE 90° LH
 Item #13 1 Single door 316, CORRIDOR TO GENERAL SCIENCE 90° RH
 Item #14 1 Single door 324, CORRIDOR TO BIOLOGY 90° RH
 Item #15 1 Single door 326, CORRIDOR TO PREP 90° RH
 Item #16 1 Single door 328, CORRIDOR TO BIOLOGY 90° RH

965 x 2130 x 45 - HM DR x HM FR - 45MIN

33	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 652	652
11	Lockset	Schlage ND70 P6 RHO 626 CMK GMK	626
7	Surface Closer	LCN 4040XP EDA 689 LH 45	689
4	Surface Closer	LCN 4040XP EDA 689 RH 45	689
11	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
11	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D



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Heading #6 (Group: CLASS RM OHS)

Item #17	1 Single door 105, GEN OFFICE FROM CONFERENCE	90° LHR
Item #18	1 Single door 106, WORK SPACE FROM CONFERENCE	90° RHR
Item #19	1 Single door 107, STUDENT SERVICES TO OFFICE	90° LH
Item #20	1 Single door 108, STUDENT SERVICES TO OFFICE	90° RH
Item #21	1 Single door 110, STUDENT SERVICES TO OFFICE	90° LH
Item #22	1 Single door 111, STUDENT SERVICES TO OFFICE	90° RH

965 x 2130 x 45 - WD DR x HM FR

18	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
6	Lockset	Schlage ND70 P6 RHO 626 CMK GMK	626
6	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
6	Overhead Door Stop	Glynn-Johnson 904S 630	US32D

Heading #7 (Group: VEST PR ULC RM)

Item #23	1 Pair of doors 109, CORRIDOR FROM STUDENT SERVICES	90° LHRA/RHRA
Item #24	1 Pair of doors 131, CORRIDOR FROM CAFETERIA	110° LHRA/RHRA
Item #25	1 Pair of doors 134, CORRIDOR FROM CAFETERIA	100° LHRA/RHRA
Item #26	1 Pair of doors 143, CORRIDOR FROM CAFETERIA	110° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR - 45MIN

32	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 652	652
4	Removable Mullion	Von Duprin KR9954	689
8	Exit Device	Von Duprin 98-L-F 06 4' -499F US26D L	626/626
4	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
8	Cylinder	Schlage 20-021 Open 626	626
4	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
8	Surface Closer	LCN 4040XP EDA ST-3068	689
8	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
8	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
4	Gasketing	Zero 188S-BK 252"	-BK



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Heading #8 (Group: STORAGE)

Item #27	1 Single door 112, CORRIDOR TO STORAGE	90° RH
Item #28	1 Single door 133, MECHANICAL ROOM FROM ELEV MACHINE ROOM	90° LHR
Item #29	1 Single door 138, KITCHEN FROM STORAGE	90° RH
Item #30	1 Single door 155, CORRIDOR TO STORAGE	90° RH
Item #31	1 Single door 166, CORRIDOR TO STORAGE	90° RH
Item #32	1 Single door 201, CORRIDOR TO STORAGE	90° LH
Item #33	1 Single door 301, CORRIDOR TO STORAGE	90° LH
Item #34	1 Single door 311, STAFF WORK ROOM TO STORAGE	90° LH

965 x 2130 x 45 - HM DR x HM FR

24	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
8	Lockset	Schlage ND80P6D RHO 626 CMK GMK	626
8	Surface Closer	LCN 1461 689 - REG MTD 45	689
8	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
8	Wall Door Stop	Ives WS401/402CCV US26D	US26D

Heading #9 (Group: WR)

Item #35	1 Single door 113, CORRIDOR TO WASHROOM	90° LH
Item #36	1 Single door 114, CORRIDOR TO WASHROOM	90° RH
Item #37	1 Single door 156, CORRIDOR TO WASHROOM	90° RH
Item #38	1 Single door 212, STAFF ROOM TO WASHROOM	90° LH
Item #39	1 Single door 213, STAFF ROOM TO WASHROOM	90° RH
Item #40	1 Single door 317, CORRIDOR TO WASHROOM	90° LH
Item #41	1 Single door 319, CORRIDOR TO WASHROOM	90° RH

965 x 2130 x 45 - HM DR x HM FR

21	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
3	Lockset	Schlage L9456P 06B 626 LH L283-722 CMK GMK	626
4	Lockset	Schlage L9456P 06B 626 RH L283-722 CMK GMK	626
14	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
		MTD BOTH SIDES	
7	Wall Door Stop	Ives WS406/407CCV US26D	US26D



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Heading #10 (Group: CLASS RM CL)

Item #42	1 Single door 115, CORR FROM GEN OFFICE	90° RHR
Item #43	1 Single door 151, CORRIDOR TO STAFF ROOM	90° LH
Item #44	1 Single door 152, CORRIDOR TO KITCHEN	90° RH

965 x 2130 x 45 - HM DR x HM FR

9	Standard Hinge	Ives 5BB1HW 4.5 " x 4 .5 " 652	652
3	Lockset	Schlage ND70 P6 RHO 626 CMK GMK	626
2	Surface Closer	LCN 4040XP EDA 689 LH 45	689
1	Surface Closer	LCN 4040XP EDA 689 RH 45	689
3	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
3	Wall Door Stop	Ives WS401/402CCV US26D	US26D



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Heading #11 (Group: CLASS RM CL)

Item #45	1 Single door 116, CORRIDOR FROM CORRIDOR	90° RHR
Item #46	1 Single door 139, CORRIDOR TO BREAKFAST	90° LH
Item #47	1 Single door 145, CORRIDOR TO CLASSROOM	90° LH
Item #48	1 Single door 146, CORRIDOR TO CLASSROOM	90° RH
Item #49	1 Single door 202, CORRIDOR TO CLASSROOM	90° RH
Item #50	1 Single door 203, CORRIDOR TO FAMILY STUDIES	90° RH
Item #51	1 Single door 204, CORRIDOR TO ART ROOM	90° LH
Item #52	1 Single door 206, CORRIDOR TO ART ROOM	90° RH
Item #53	1 Single door 211, CORRIDOR TO STAFF ROOM	90° RH
Item #54	1 Single door 214, CORRIDOR TO CLASSROOM	90° RH
Item #55	1 Single door 215, CORRIDOR TO SPECIAL ED	90° LH
Item #56	1 Single door 217, CORRIDOR TO CLASSROOM	90° RH
Item #57	1 Single door 224, CORRIDOR TO CLASSROOM	90° RH
Item #58	1 Single door 225, CORRIDOR TO CLASSROOM	90° LH
Item #59	1 Single door 226, CORRIDOR TO CLASSROOM	90° RH
Item #60	1 Single door 303, CORRIDOR TO CHEMISTRY LAB	90° RH
Item #61	1 Single door 307, CORRIDOR TO CHEMISTRY LAB	90° RH
Item #62	1 Single door 308, CORRIDOR TO SCIENCE CLASSROOM	90° RH
Item #63	1 Single door 309, CORRIDOR TO PHYSICS	90° RH
Item #64	1 Single door 323, CORRIDOR TO GENERAL SCIENCE	90° LH

965 x 2130 x 45 - HM DR x HM FR - 45MIN

60	Standard Hinge	Ives 5BB1HW 4.5 " x 4 .5 " 652	652
20	Lockset	Schlage ND70 P6 RHO 626 CMK GMK	626
7	Surface Closer	LCN 4040XP EDA 689 LH 45	689
13	Surface Closer	LCN 4040XP EDA 689 RH 45	689
20	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
20	Wall Door Stop	Ives WS401/402CCV US26D	US26D



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Heading #12 (Group: WR ADO 19)

Item #65 1 Single door 117, CORRIDOR TO WASHROOM 90° LH

965 x 2130 x 45 - HM DR x HM FR - 45MIN

INSTALL WR SET UP AS FAIL SECURE AS OPEING IS 45 MIN LISTED.

4	Standard Hinge	Ives 5BB1HW 4.5 " x 4 .5 " 652	652
1	Lockset	Schlage ND80P6D RHO 626 CMK GMK	626
1	Electric Strike	Von Duprin 6211- FSE Shim CON-630	630
1	Electronic Closer	GYRO-TECH ADO 8710 PULL SIDE X FWH CA 628 NO	
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Wall Door Stop	Ives WS406/407CCV US26D	US26D
1	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
1	Miscellaneous Hardware	Schlage CON-6W	
1	WR Kit	Camden CX-WC13AXFM -PS	
1	Miscellaneous Hardware	Camden EMERG WR KIT CX-WEC10K2	
1	Miscellaneous Hardware	MISC WIRING / RISER DIAGRAM	

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE. REFER TO WIRING /RISER DIAGRAM SUPPLIED BY HARDWARE SUPPLIER.

Heading #13 (Group: CLASS RM OHS)

Item #66 1 Single door 118, CORRIDOR TO OFFICE 90° LH

965 x 2130 x 35 - HM DR x HM FR

3	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
1	Lockset	Schlage ND70 P6 RHO 626 CMK GMK	626
1	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Overhead Door Stop	Glynn-Johnson 904S 630	US32D



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Heading #14 (Group: STORAGE OHS ONLY)

Item #67	1 Single door 119, GENERAL OFFICE TO STORAGE		90° RH
	965 x 2130 x 45 - HM DR x HM FR		
<hr/>			
3	Standard Hinge	Ives 5BB1 4.5 X 4 NRP 652	652
1	Lockset	Schlage ND80P6D RHO 626 CMK GMK	626
1	Kick Plate	CBH CBH 903 300 X 900 C32D	US32D
1	Overhead Door Stop	Glynn-Johnson 904S 630	US32D

Heading #15 (Group: CLASS RM OHS)

Item #68	1 Single door 120, CORRIDOR TO OFFICE		90° LH
Item #69	1 Single door 121, CORRIDOR TO OFFICE		90° LH
Item #70	1 Single door 122, CORRIDOR TO OFFICE		90° RH
Item #71	1 Single door 123, CORRIDOR TO OFFICE		90° LH
Item #72	1 Single door 124, WAITING TO VICE PRINC OFFICE		90° LH
Item #73	1 Single door 125, WAITING TO PRINC OFFICE		90° LH
Item #74	1 Single door 126, CORRIDOR TO OFFICE		90° RH
Item #75	1 Single door 304, CHEMISTRY LAB TO PREP		90° LH
Item #76	1 Single door 306, CHEMISTRY LAB TO PREP		90° RH
Item #77	1 Single door 314, GENERAL SCIENCE TO GENERAL STORAGE		90° LH
Item #78	1 Single door 315, GENERAL SCIENCE TO GENERAL STORAGE		90° RH
Item #79	1 Single door 325, BIOLOGY TO PREP		90° LH
Item #80	1 Single door 327, BIOLOGY LAB TO PREP		90° RH
Item #81	1 Single door 327a, BIOLOGY LAB TO PREP		90° LH

965 x 2130 x 45 - HM DR x HM FR

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42	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
14	Lockset	Schlage ND70 P6 RHO 626 CMK GMK	626
14	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
14	Overhead Door Stop	Glynn-Johnson 904S 630	US32D



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Heading #16 (Group: MULTI DR ULC)

Item #82 1 Multi-door opening 127, EXIST CORRIDOR FROM CORRIDOR 90° RHR,LHR,RHR
 965, 965, 965 x 2130 x 45 - HM DR x HM FR - 45MIN

12	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 652	652
1	Removable Mullion	Von Duprin KR9954	689
3	Exit Device	Von Duprin 98-L-F 06 4' -499F US26D L	626/626
1	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
3	Cylinder	Schlage 20-021 Open 626	626
1	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
3	Surface Closer	LCN 4040XP EDA ST-3068	689
3	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
3	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
2	Gasketing	Zero 188S-BK 252"	-BK

Heading #17 (Group: VEST PR ULC RM LAO)

Item #83 1 Pair of doors 128, CORRIDOR FROM EXIST CORRIDOR 90° LHRA/RHRA
 Item #84 1 Pair of doors 141, CORRIDOR FROM CORRIDOR 90° LHRA/RHRA
 Item #85 1 Pair of doors 208, CORRIDOR FROM CORRIDOR 90° LHRA/RHRA
 Item #86 1 Pair of doors 223, CORRIDOR FROM CORRIDOR 90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR - 45MIN

32	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 652	652
4	Removable Mullion	Von Duprin KR9954	689
8	Exit Device	Von Duprin BE98L-F O6 4' -499F US26D	626/626
4	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
4	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
8	Surface Closer	LCN 4040XP EDA ST-3068	689
8	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
8	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
4	Gasketing	Zero 188S-BK 252"	-BK



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Heading #18 (Group: VEST PR ADO ULC RM)

Item #87 1 Pair of doors 129, STAIR FROM CORRIDOR 90° LHRA/RHRA
 965, 965 x 2130 x 45 - HM DR x HM FR - 45MIN

8	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 630	630
1	Removable Mullion	Von Duprin KR9854-BLANK -96 --689	689
2	Exit Device	Von Duprin BE98L-F O6 4' -499F US26D	626/626
1	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
1	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
1	Surface Closer	LCN 4021 REGARM 689 45	689
1	Mounting Bracket	LCN 4020-18G	689
1	Electronic Closer	GYRO-TECH ADO 8710 X FWH CA 628 NO ALTERNATE	
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
1	Gasketing	Zero 188S-BK 252"	-BK
1	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
2	Actuator	Camden CM-60/4	
2	Escutcheon	Camden CM-89S	
1	Advanced Logic Relay	Camden CX-33	

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE. INTEGRATION OF SECURITY INTERCOM WITH ADO BY DIV 26

Heading #19 (Group: MECH RM 1100)

Item #88 1 Single door 132, CAFETERIA TO MECHANICAL ROOM 90° LH
 Item #89 1 Single door 144, CAFETERIA TO MECHANICAL ROOM 90° RH
 Item #90 1 Single door 157, CORRIDOR TO MECH ROOM 90° LH

1067 x 2130 x 45 - HM DR x HM FR - 45MIN

9	Standard Hinge	Ives 5BB1HW 5 X 4.5 NRP 652	652
3	Lockset	Schlage ND80P6D RHO 626 CMK GMK	626
3	Surface Closer	LCN 4040XP REG AL	AL
3	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
3	Overhead Door Stop	Glynn-Johnson 905S 652	652
3	Gasketing	Zero 365AA 44" (1100DR)	AA
3	Gasketing	Zero WS 485AA 48 x 84	AA



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Heading #20 (Group: STORAGE)

Item #91	1 Single door 136, CORRIDOR TO IT ROOM	90° RH
Item #92	1 Single door 216, CORRIDOR TO STORAGE	90° LH
Item #93	1 Single door 320, CORRIDOR TO JANITOR CLOSET	90° RH
Item #94	1 Single door 321, CORRIDOR TO STORAGE	90° LH

965 x 2130 x 45 - HM DR x HM FR - 45MIN

12	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
4	Lockset	Schlage ND80P6D RHO 626 CMK GMK	626
4	Surface Closer	LCN 1461 689 - REG MTD 45	689
4	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
4	Wall Door Stop	Ives WS401/402CCV US26D	US26D

Heading #21 (Group: CLASS RM CL-HO)

Item #95	1 Single door 137, SERVERY TO KITCHEN	90° LH
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965 x 2130 x 45 - HM DR x HM FR

3	Standard Hinge	Ives 5BB1HW 4.5 " x 4 .5 " 652	652
1	Lockset	Schlage ND70 P6 RHO 626 CMK GMK	626
1	Surface Closer	LCN 4040XP SHCUSH HOLD OPEN	689
1	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Wall Door Stop	Ives WS401/402CCV US26D	US26D



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Heading #22 (Group: STORAGE PR)

Item #96 1 Pair of doors 140, CORRIDOR FROM STORAGE 90° LHRA/RHRA
 965, 965 x 2130 x 45 - HM DR x HM FR - 45MIN

6	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
2	Flush Bolt	Ives FB458 US26D INACTIVE	US26D
1	Lockset	Schlage ND80 P6 RHO 626 14-042 CMK GMK ACTIVE	626
1	Astragal	K.N. Crowder W-8SP x 2150mm	
1	Surface Closer	LCN 1461 689 - REG MTD 45 ACTIVE	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Overhead Door Stop	Glynn-Johnson 904S 630 110 DEG	US32D
2	Wall Door Stop	Ives WS401/402CCV US26D	US26D

Heading #23 (Group: CLASS RM OHS)

Item #97 1 Single door 142, CORRIDOR TO CLASSROOM 90° RH
 965 x 2130 x 45 - HM DR x HM FR - 45MIN

3	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
1	Lockset	Schlage ND70 P6 RHO 626 CMK GMK	626
1	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Overhead Door Stop	Glynn-Johnson 904S 630	US32D



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Heading #24 (Group: VEST PR DB WS)

Item #98 1 Pair of doors 147, VESTIBULE FROM CORRIDOR 90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

8	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 630	630
2	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
2	Push Bar	Von Duprin 350-630--- 4' Bar	630
2	Surface Closer	LCN 4040XP EDA ST-3068	689
2	Mounting Bracket	LCN 4040XP-18G	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Wall Door Stop	Ives WS406/407CCV US26D	US26D

Heading #25 (Group: EXT PR RM NL)

Item #99 1 Pair of doors 148, EXTERIOR FROM VESITBULE 90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

8	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 630	630
1	Removable Mullion	Von Duprin KR4954	689
1	Exit Device	Von Duprin CD-98-EO-4' 626	626
1	Exit Device	Von Duprin CD-98-NL-OP -4' 626	626
2	Cylinder	Schlage 20-001 114 XQ11-949 36-083 GMK	626
1	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
1	Cylinder	Schlage 20-021 Open 626	626
2	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
1	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
2	Surface Closer	LCN 4040XP EDA 689 45	689
2	Mounting Bracket	LCN 4040XP-18PA 689	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
1	Threshold	Zero 625A 84	A
1	Gasketing	Zero HD SEAL 429AA 84x 0	AA
2	Gasketing	Zero JS 485AA 84	AA
2	Gasketing	Zero SWEEP 8192AA 48	AA
1	Miscellaneous Item	Schlage E.S. 679-05HM BY SECURITY CONTRACTOR	BLK



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Heading #26 (Group: EXT PR RM NL FG)

Item #100 1 Pair of doors 149, EXTERIOR FROM VESITBULE 90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

2	Continuous Hinge	Ives 112XY-83" US28	US28
1	Removable Mullion	Von Duprin KR4954	689
1	Exit Device	Von Duprin CD-98-EO-4' 626	626
1	Exit Device	Von Duprin CD-98-NL-OP -4' 626	626
2	Cylinder	Schlage 20-001 114 XQ11-949 36-083 GMK	626
1	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
1	Cylinder	Schlage 20-021 Open 626	626
2	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
1	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
2	Surface Closer	LCN 4040XP EDA 689 45	689
2	Mounting Bracket	LCN 4040XP-18PA 689	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
1	Threshold	Zero 625A 84	A
1	Gasketing	Zero HD SEAL 429AA 84x 0	AA
2	Gasketing	Zero JS 485AA 84	AA
2	Gasketing	Zero SWEEP 8192AA 48	AA
1	Miscellaneous Item	Schlage E.S. 679-05HM BY SECURITY CONTRACTOR	BLK
2	FINGERGUARD	Zero 51A-180 72"	A

Heading #27 (Group: VEST PR DB FG)

Item #101 1 Pair of doors 150, VESTIBULE FROM CORRIDOR 90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

2	Continuous Hinge	Ives 112XY-83" US28	US28
2	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
2	Push Bar	Von Duprin 350-630--- 4' Bar	630
2	Surface Closer	LCN 4040XP EDA ST-3068	689
2	Mounting Bracket	LCN 4040XP-18G	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
2	FINGERGUARD	Zero 51A-180 72"	A



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Heading #29 (Group: WR ADO FG)

Item #103 1 Single door 154, CORRIDOR TO WASHROOM 90° LH

965 x 2130 x 45 - HM DR x HM FR

INSTALL WR SET UP AS FAIL SAFE

4	Standard Hinge	Ives 5BB1HW 4.5 " x 4 .5 " 652	652
1	Lockset	Schlage ND80P6D RHO 626 CMK GMK	626
1	Electric Strike	Von Duprin 6211 FS CON 24 VAC/VDC	630
1	Electronic Closer	GYRO-TECH ADO 8710 X FWH CA 628 NO ALTERNATE	
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Wall Door Stop	Ives WS406/407CCV US26D	US26D
1	FINGERGUARD	Zero 51A-180 72"	A
1	FINGER GUARD	Zero 951A 72"	A
1	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
1	WR Kit	Camden CX-WC13AXFM -PS	
1	Miscellaneous Hardware	Camden EMERG WR KIT CX-WEC10K2	
1	Miscellaneous Hardware	MISC WIRING / RISER DIAGRAM	

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE. REFER TO WIRING /RISER DIAGRAM SUPPLIED BY HARDWARE SUPPLIER.

Heading #30 (Group: VEST PR CR RM)

Item #104 1 Pair of doors 158, EXISTING CORRIDOR FROM CORRIDOR 90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

8	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 652	652
1	Removable Mullion	Von Duprin KR4954	689
2	Exit Device	Von Duprin 98L US26D -06 -4' US26D	626/626
1	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
2	Cylinder	Schlage 20-021 Open 626	626
1	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
2	Surface Closer	LCN 4040XP EDA ST-3068	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Wall Door Stop	Ives WS406/407CCV US26D	US26D
1	Gasketing	Zero 188S-BK 252"	-BK



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Heading #31 (Group: VEST ADO DB)

Item #105 1 Single door 159, VESTIBULE FROM CORRIDOR 90° LHR

965 x 2130 x 45 - HM DR x HM FR

1	Continuous Hinge	Ives 112XY-83" US28	US28
1	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
1	Push Bar	Von Duprin 350-630-LHR-965- 4' Bar	630
1	Electronic Closer	GYRO-TECH ADO 8710 X FWH CA 628 NO ALTERNATE	
1	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
1	FINGERGUARD	Zero 51A-180 72"	A
1	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
2	Actuator	Camden CM-60/4	
2	Escutcheon	Camden CM-89S	

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE.
INTEGRATION OF SECURITY INTERCOM WITH ADO BY DIV 26



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Oakville, L6H 5V1

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Heading #32 (Group: M160)

Item #106 1 Single door 160, EXTERIOR FROM VESITBULE 90° LHR

965 x 2130 x 45 - HM DR x HM FR

1	Continuous Hinge	Ives 112XY-83" US28	US28
1	Exit Device	Von Duprin CD-98-NL-OP -4' 626	626
1	Cylinder	Schlage 20-001 114 XQ11-949 36-083 GMK	626
1	Cylinder	Schlage 20-021 Open 626	626
1	Electric Strike	Von Duprin 6300- CON 24VAC -630	630
1	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
1	Electronic Closer	GYRO-TECH ADO 8710 X FWH CA 628 NO ALTERNATE	
1	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
1	Threshold	Zero 625A 48"	A
1	Gasketing	Zero HD SEAL 429AA 48 x 0	AA
2	Gasketing	Zero JS 485AA 84	AA
1	Gasketing	Zero SWEEP 8192AA 48	AA
1	Miscellaneous Item	Schlage E.S. 679-05HM BY SECURITY CONTRACTOR	BLK
1	FINGERGUARD	Zero 51A-180 72"	A
1	Miscellaneous Hardware	UNK CARD READER BY SERURITY CONTRACTOR	
1	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
2	Actuator	Camden CM-60/4	
2	Escutcheon	Camden CM-89S	
1	Advanced Logic Relay	Camden CX-33	
1	Miscellaneous Hardware	LCN WEATHER RING8310-802	PLA

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE. INTEGRATION OF SECURITY INTERCOM WITH ADO BY DIV 26



Commercial Doors & Hardware Ltd.
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Heading #33 (Group: CLASS RM OH FG)

Item #107	1 Single door 161, CORRIDOR TO INFANT	90° LH
Item #108	1 Single door 167, CORRIDOR TO TODDLER	90° LH
Item #109	1 Single door 175, CORRIDOR TO TODDLER	90° RH
Item #110	1 Single door 176, CORRIDOR TO PRESCHOOL	90° LH
Item #111	1 Single door 184, CORRIDOR TO PRESCHOOL	90° RH
Item #112	1 Single door 185, CORRIDOR TO OFFICE	90° RH

965 x 2130 x 45 - HM DR x HM FR

18	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
6	Lockset	Schlage ND70 P6 RHO 626 CMK GMK	626
6	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
6	Overhead Door Stop	Glynn-Johnson 904S 630	US32D
6	FINGERGUARD	Zero 51A-180 72"	A
6	FINGER GUARD	Zero 951A 72"	A

Heading #34 (Group: SLIDER)

Item #113	1 Single door 162, INFANT TO WASHROOM	RH-POCKET
Item #114	1 Single door 168, TODDLER TO WASHROOM	RH-POCKET
Item #115	1 Single door 174, TODDLER TO WASHROOM	LH-POCKET
Item #116	1 Single door 177, PRESCHOOL TO WASHRRROM	RH-POCKET
Item #117	1 Single door 183, PRESCHOOL TO WASHRRROM	LH-POCKET

965 x 2130 x 45 - WD DR x FRAMELESS FR

5	Track / Hanger	K.N. Crowder CC-3-998 x 84" 1DR KIT	
5	Track / Hanger	K.N. Crowder CC-980-CA x 84"	CA
5	Door Pull	Gallery GSH 4012-2 X 4012-2 B TO B C32D 45	US32D



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Heading #35 (Group: STORAGE WS NO CL FG)

Item #118	1 Single door 163, INFANT TO STORAGE	90° LH
Item #119	1 Single door 169, TODDLER TO STORAGE	90° LH
Item #120	1 Single door 173, TODDLER TO STORAGE	90° RH
Item #121	1 Single door 178, PRESCHOOL TO STORAGE	90° LH
Item #122	1 Single door 182, PRESCHOOL TO STORAGE	90° RH

965 x 2130 x 45 - HM DR x HM FR

15	Standard Hinge	Ives 5BB1 4.5 X 4 NRP 652	652
5	Lockset	Schlage ND80P6D RHO 626 CMK GMK	626
5	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
5	Wall Door Stop	Ives WS401/402CCV US26D	US26D
5	FINGERGUARD	Zero 51A-180 72"	A
5	FINGER GUARD	Zero 951A 72"	A

Heading #36 (Group: VEST SGL DB FG)

Item #123	1 Single door 164, VESTIBULE FROM INFANT	90° RHR
Item #124	1 Single door 170, VESTIBULE FROM TODDLER	90° RHR
Item #125	1 Single door 172, VESTIBULE FROM TODDLER	90° LHR
Item #126	1 Single door 179, VESTIBULE FROM PRESCHOOL	90° RHR
Item #127	1 Single door 181, VESTIBULE FROM PRESCHOOL	90° LHR

965 x 2130 x 45 - HM DR x HM FR

5	Continuous Hinge	Ives 112XY-83" US28	US28
5	Door Pull	Gallery GSH 4012-2 C32D 45	US32D
2	Push Bar	Von Duprin 350-630-LHR-965- 4' Bar	630
3	Push Bar	Von Duprin 350-630-RHR-965- 4' Bar	630
5	Surface Closer	LCN 4040XP EDA ST-3068	689
5	Mounting Bracket	LCN 4040XP-18PA 689	689
5	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
5	Wall Door Stop	Ives WS406/407CCV US26D	US26D
5	FINGERGUARD	Zero 51A-180 72"	A



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Heading #37 (Group: EXT SGL FG)

Item #128	1 Single door 165, EXTERIOR FROM VESTIBULE	90° RHR
Item #129	1 Single door 171, EXTERIOR FROM VESITBULE	90° LHR
Item #130	1 Single door 180, EXTERIOR FROM VESTIBULE	90° LHR

965 x 2130 x 45 - HM DR x HM FR

3	Continuous Hinge	Ives 112XY-83" US28	US28
3	Exit Device	Von Duprin CD-98-EO-4' 626	626
3	Cylinder	Schlage 20-001 114 XQ11-949 36-083 GMK	626
3	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
3	Surface Closer	LCN 4040XP EDA ST-3068	689
3	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
3	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
3	Threshold	Zero 625A 48"	A
3	Gasketing	Zero HD SEAL 429AA 48 x 0	AA
6	Gasketing	Zero JS 485AA 84	AA
3	Gasketing	Zero SWEEP 8192AA 48	AA
3	Miscellaneous Item	Schlage E.S. 679-05HM BY SECURITY CONTRACTOR	BLK
3	FINGERGUARD	Zero 51A-180 72"	A
3	Miscellaneous Hardware	UNK DOOR CONTACT FOR AUDIBLE ALARM BY OTHERS	

Heading #38 (Group: EXT STORAGE SGL)

Item #131	1 Single door 186, EXTERIOR FROM SPRINKLER	90° LHR
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965 x 2130 x 45 - HM DR x HM FR

3	Standard Hinge	Ives 5BB1HW 5 X 4.5 NRP 630	630
1	Dead Lock	Schlage B660P 626 CMK GMK	626
1	Cylinder	CBH CBH 352 2 1/8 DIAM C26D 45	US26D
1	Push Plate	CBH CBH 923 C32D 5" x 20"	US32D
1	Surface Closer	LCN 4040XP SCUSH	689
1	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Threshold	Zero 625A 48"	A
1	Gasketing	Zero HD SEAL 429AA 48 x 0	AA
2	Gasketing	Zero JS 485AA 84	AA
1	Gasketing	Zero SWEEP 8192AA 48	AA
1	Miscellaneous Item	Schlage E.S. 679-05HM BY SECURITY CONTRACTOR	BLK



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Heading #39 (Group: EXT PR ADO RM -D)

Item #132

1 Pair of doors 149, EXTERIOR FROM VESITBULE

90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR

REM HARDWARE MULLION WITH ELECTRIC QUICK DISCONNECT.

8	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP	630
1	Removable Mullion	Von Duprin KR4854-BLANK -96 --689- 154	689
1	Exit Device	Von Duprin CD-98-EO-4' 626	626
1	Exit Device	Von Duprin CD-98-NL-OP -4' 626	626
2	Cylinder	Schlage 20-001 114 XQ11-949 36-083 GMK	626
1	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
1	Cylinder	Schlage 20-021 Open 626	626
1	Electric Strike	Von Duprin 6300- CON 24VAC -630	630
2	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
1	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
1	Surface Closer	LCN 4021 REGARM 689 45	689
1	Mounting Bracket	LCN 4020-18G	689
1	Electronic Closer	GYRO-TECH ADO 8710 X FWH CA 628 NO ALTERNATE	
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
1	Threshold	Zero 625A 84	A
1	Gasketing	Zero HD SEAL 429AA 84x 0	AA
2	Gasketing	Zero JS 485AA 84	AA
2	Gasketing	Zero SWEEP 8192AA 48	AA
1	Miscellaneous Item	Schlage E.S. 679-05HM BY SECURITY CONTRACTOR	BLK
1	Miscellaneous Hardware	UNK CARD READER BY SERURITY CONTRACTOR	
1	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
2	Actuator	Camden CM-60/4	
2	Escutcheon	Camden CM-89S	
1	Advanced Logic Relay	Camden CX-33	

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE.
INTEGRATION OF SECURITY INTERCOM WITH ADO BY DIV 26



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Heading #40 (Group: VEST ADO DB-D)

Item #133 1 Pair of doors 150, VESTIBULE FROM CORRIDOR 90° LHRA/RHRA
965, 965 x 2130 x 45 - HM DR x HM FR

2	Continuous Hinge	Ives 112XY-83" US28	US28
2	Door Pull	Gallery GSH 1180-2 C32D 45	US32D
1	Push Bar	Von Duprin 350-630-LHR-965- 4' Bar	630
1	Push Bar	Von Duprin 350-630-RHR-965- 4' Bar	630
2	Electronic Closer	GYRO-TECH ADO 8710 X FWH CA 628 NO ALTERNATE	
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
2	FINGERGUARD	Zero 51A-180 72"	A
2	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
4	Actuator	Camden CM-60/4	
4	Escutcheon	Camden CM-89S	

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE.
INTEGRATION OF SECURITY INTERCOM WITH ADO BY DIV 26

Heading #41 (Group: FENCE GATE)

Item #134 1 Elevation 187
Item #135 1 Elevation 188
Item #136 1 Elevation 189
Item #137 1 Elevation 190

__ x __ x __ - FENCE DR x FENCE FR

ALL HARDWARE SUPPLIED BY FENCE GATE SUPPLIER.



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Heading #42 (Group: EXISTING)

- Item #138 1 Elevation ex01
- Item #139 1 Elevation ex02
- Item #140 1 Elevation ex03
- Item #141 1 Elevation ex04
- Item #142 1 Elevation ex05
- Item #143 1 Elevation ex06
- Item #144 1 Elevation ex07
- Item #145 1 Elevation ex08
- Item #146 1 Elevation ex09
- Item #147 1 Elevation ex10
- Item #148 1 Elevation ex11
- Item #149 1 Elevation ex12
- Item #150 1 Elevation ex13
- Item #151 1 Elevation ex14
- Item #152 1 Elevation ex15
- Item #153 1 Elevation ex16
- Item #154 1 Elevation ex17
- Item #155 1 Elevation 218
- Item #156 1 Elevation 219
- Item #157 1 Elevation 220
- Item #158 1 Elevation 221
- Item #159 1 Elevation ex20
- Item #160 1 Elevation ex21
- Item #161 1 Elevation ex22
- Item #162 1 Elevation ex23
- Item #163 1 Elevation ex24

__ x __ x __ - EXIST DR DR x EXIST FR FR

EXISTING DR & FRAME.
RE USE EXISTING HARDWARE



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Heading #43 (Group: VEST PR ULC RM WS)

Item #164	1 Pair of doors 200, STAIR FROM VESTIBULE	90° LHRA/RHRA
Item #165	1 Pair of doors 300, CORRIDOR FROM STAIR	90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR - 45MIN

16	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 652	652
2	Removable Mullion	Von Duprin KR9954	689
4	Exit Device	Von Duprin 98-L-F 06 4' -499F US26D L	626/626
2	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
4	Cylinder	Schlage 20-021 Open 626	626
2	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
4	Surface Closer	LCN 4040XP EDA ST-3068	689
4	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
4	Wall Door Stop	Ives WS406/407CCV US26D	US26D
2	Gasketing	Zero 188S-BK 252"	-BK

Heading #44 (Group: CLASS TO CLASS)

Item #166	1 Single door 205, ART ROOM TO ART ROOM	90° LH
Item #167	1 Single door 309a, PHYSICS TO CHEMISTRY LAB	90° LH

965 x 2130 x 45 - HM DR x HM FR

6	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
2	Lockset	Schlage ND66 P6 RHO 626 CMK GMK	626
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 904S 630	US32D

Heading #45 (Group: EXISTING)

Item #168	1 Elevation 207, ART ROOM TO KILN ROOM
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__ x __ x __ - HM DR x HM FR

EXISTING DR & FRAME.
RE USE EXISTING HARDWARE



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Heading #46 (Group: M222)

Item #169	1 Pair of doors 222, CORRIDOR FROM STAIR	90°,110° LHRA/RHRA
Item #170	1 Pair of doors 322, STAIR FROM CORRIDOR	90° LHRA/RHRA

965, 965 x 2130 x 45 - HM DR x HM FR - 45MIN

16	Standard Hinge	Ives 5BB1HW 4.5 X 4.5 NRP 652	652
2	Removable Mullion	Von Duprin KR9954	689
4	Exit Device	Von Duprin 98-L-F 06 4' -499F US26D L	626/626
2	Cylinder	Schlage 20-001-1 1/4 " L583-477 626 CMK GMK	626
4	Cylinder	Schlage 20-021 Open 626	626
2	Astragal	K.N. Crowder W-25-CA x 2150mm	CA
4	Surface Closer	LCN 4040XP EDA ST-3068	689
4	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
2	Overhead Door Stop	Glynn-Johnson 104S US32D	US32D
		110 DEG	
2	Wall Door Stop	Ives WS406/407CCV US26D	US26D
2	Gasketing	Zero 188S-BK 252"	-BK

Heading #47 (Group: MECH PR)

Item #171	1 Pair of doors 227, EXIST LIB MECH RM	90° RHRA
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965, 965 x 2032 x 45 - HM DR x HM FR - 45MIN

6	Standard Hinge	Ives 5BB1HW 4.5 " x 4 .5 " 652	652
2	Flush Bolt	Ives FB458 US26D	US26D
		INACTIVE	
1	Lockset	Schlage ND80 P6 RHO 626 14-042 CMK GMK	626
		ACTIVE	
1	Astragal	K.N. Crowder W-8SP x 2150mm	
1	Surface Closer	LCN 4040XP SCUSH	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Overhead Door Stop	Glynn-Johnson 904S 630	US32D
		110 DEG	



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Heading #48 (Group: MECH PR 42")

Item #172 1 Pair of doors 302, CORRIDOR FROM MECH ROOM 110° RHA

1067, 1067 x 2130 x 45 - HM DR x HM FR - 45MIN

6	Standard Hinge	Ives 5BB1HW 4.5 " x 4 .5 " 652	652
2	Flush Bolt	Ives FB458 US26D INACTIVE	US26D
1	Lockset	Schlage ND80 P6 RHO 626 14-042 CMK GMK ACTIVE	626
1	Astragal	K.N. Crowder W-8SP x 2150mm	
1	Surface Closer	LCN 4040XP SCUSH	689
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Overhead Door Stop	Glynn-Johnson 905S 652	652

Heading #49 (Group: STORAGE CL OHS)

Item #173 1 Single door 313, CORRIDOR TO GENERAL STORAGE 90° LH

965 x 2130 x 45 - HM DR x HM FR - 45MIN

3	Standard Hinge	Ives 5BB1HW 4.5 " x 4 .5 " 652	652
1	Lockset	Schlage ND80P6D RHO 626 CMK GMK	626
1	Surface Closer	LCN 1461 689 - REG MTD 45	689
1	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D	US32D
1	Overhead Door Stop	Glynn-Johnson 904S 630	US32D



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Heading #50 (Group: WR ADO)

Item #174

1 Single door 318, CORRIDOR TO WASHROOM

90° LH

965 x 2130 x 45 - HM DR x HM FR

INSTALL WR SET UP AS FAIL SAFE .

4	Standard Hinge	Ives 5BB1 4.5 x 4 " 652	652
1	Lockset	Schlage ND80P6D RHO 626 CMK GMK	626
1	Electric Strike	Von Duprin 6211 FS CON 24 VAC/VDC	630
1	Electronic Closer	GYRO-TECH ADO 8710 PULL SIDE X FWH CA 628 NO	
2	Kick Plate	CBH CBH 903 200 X 50MM LDW C32D MTD BOTH SIDES	US32D
1	Wall Door Stop	Ives WS406/407CCV US26D	US26D
1	Key Switch	Camden CM-160/22 INSTALL ADO HEADER	
1	Miscellaneous Hardware	Schlage CON-6W	
1	WR Kit	Camden CX-WC13AXFM -PS	
1	Miscellaneous Hardware	Camden EMERG WR KIT CX-WEC10K2	
1	Miscellaneous Hardware	MISC WIRING / RISER DIAGRAM	

THIS HARDWARE SUPPLIER SECTION 08710 TO SUPPLY AND INSTALL AUTO OPERATOR.

DIV 16 ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO FRAME HEADER AND SUPPLY & INSTALL ALL LVW IN CONDUIT TO ALL ACTUATORS AND ELECTRICAL COMPONENTS LISTED IN THE HARDWARE SCHEDULE. REFER TO WIRING /RISER DIAGRAM SUPPLIED BY HARDWARE SUPPLIER.



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DOOR CONTROL RELAYS

DOOR CONTROL

CX-33: ADVANCED LOGIC RELAY

CX-33 is a state-of-the-art door controller designed for 'universal' operation in automatic door and application security. This compact unit is small enough to fit inside most door operator cases. It provides a large 3 segment LED and simple push buttons for the easiest programming, and supports illuminated signage in restroom applications. It also leads the market with a range of exclusive operating features, including time duration in airlock applications and protection of automatic door operators when utilizing magnetic locks.



Specifications

Voltage:	12V to 24V AC/DC
Current Draw:	105mA Typical, 320mA Max
Response Time:	0.5 Seconds
Display:	Blue Multi-Segment LED
Input:	4 x Dry 1 x Wet: min. 5V AC/DC N/O or N/C Selectable
Output:	3 x Form C (SPDT)
Contact Rating:	3A @ 30 VDC
Temp Range:	-22°F to +185°F (-30°C to +85°C)
Time Delay:	Hold 1 timer: 0-50 Seconds Delay 1 Timer: 0-15 Seconds Hold 2 timer: 0-50 Seconds Delay 2 timer: 0-60 Seconds Hold 3 Timer: 0-50 Seconds Delay on Activate: 0-10 Seconds
Dimensions:	2"H x 6"W x 7/8"D (51mm x 152mm x 22mm)

Features

- 15 operating modes with sub-modes
- Easily sequence multiple inputs with multiple maintain and hold outputs
- New V3.2 Features Include:
 - Lock down mode
 - Delayed relay activation
 - Selectable N.O or N.C. inputs
- Large 3 segment (blue) LED display
- Outstanding power filtering and surge protection
- Selectable time delays with delay on input activation
- Larger terminal strips
- 12V to 24V AC/DC
- 3 year warranty

MODEL

CX-33	Advanced Logic Relay
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CX-33PS: ADVANCED LOGIC RELAY, POWER SUPPLY AND CABINET

The industry leading CX-33 Advanced Logic Relay is available in a metal cabinet that centralizes all door and security control system components; a 12/24 VDC power supply module, and color coded termination blocks for quick and easy installation.



Specifications

Voltage:	12V to 28V AC/DC
Output:	12V or 24 VDC
Current:	2 Amps
Temp Range:	32°F to +120°F (0°C to +49°C)
Dimensions:	11-1/16" H x 7-7/8"W x 2-13/16"D 281mm x 200mm x 72mm

Features

- Rugged and compact metal cabinet
- Pre-wired with large terminal block for easy access
- Removable door with option for cabinet lock
- Five convenient conduit knockouts; one per side
- 12/24V DC power supply, 2 Amp. (UL listed)
- Available as part of Camden Restroom Control Kits (See pages 36-37)
- Short circuit and thermal overload protection
- 3 year warranty

MODEL

CX-33PS	Advanced Logic Relay, 2 Amp Power Supply, Cabinet and Transformer
Option	
'L'	Add suffix 'L' to model number for Cabinet Lock



RESTROOM CONTROL KITS

DOOR CONTROL

CX-WC: BARRIER FREE RESTROOM CONTROL KITS

MODELS	
CX-WC13AXSM-PS	<p>SURFACE MOUNT COMBO ILLUMINATED PUSH PLATE SYSTEM</p> <p>(1) CX-33PS Advanced Logic Relay, 2 Amp Power Supply, Cabinet and Transformer</p> <p>(1) CM-2520/4854SE1 Combo switch, 2" x 4" narrow 'PUSH TO OPEN' & 'PUSH TO LOCK', Surface mount AURA™ illuminated enclosure and sign</p> <p>(1) CM-45/454SE1 4-1/2" Push plate switch, wheelchair & 'PUSH TO OPEN' with Surface mount AURA™ illuminated enclosure and sign</p> <p>(1) CX-ED2079 Grade 2 ANSI electric strike with 3 faceplates</p> <p>(1) CX-MDA Magnetic contact, surface, SPST, white</p> <p>Add suffix 'F' for French, 'FE' for bilingual, 'SP' for Spanish</p>
CX-WC13AXFM-PS	<p>FLUSH MOUNT COMBO ILLUMINATED PUSH PLATE SYSTEM</p> <p>(1) CX-33PS Advanced Logic Relay, 2 Amp Power Supply, Cabinet and Transformer</p> <p>(1) CM-2520/4855SE1 Combo switch, 2" x 4" narrow 'PUSH TO OPEN' & 'PUSH TO LOCK', Flush mount AURA™ illuminated enclosure and sign</p> <p>(1) CM-45/455SE1 4-1/2" Push plate switch, wheelchair & 'PUSH TO OPEN' with Flush mount AURA™ illuminated enclosure and sign</p> <p>(1) CX-ED2079 Grade 2 ANSI electric strike with 3 faceplates</p> <p>(1) CX-MDA Magnetic contact, surface, SPST, white</p> <p>Add suffix 'F' for French, 'FE' for bilingual, 'SP' for Spanish</p>
CX-WC14AXSM	<p>SURFACE MOUNT TWO DOOR RESTROOM SYSTEM</p> <p>(1) CX-EMF2 Multi-Function Relay Controller</p> <p>(2) CM-2520/4854SE1 Combo switch, 2" x 4" narrow 'PUSH TO OPEN' & 'PUSH TO LOCK', Surface mount AURA™ illuminated enclosure and sign</p> <p>(2) CM-45/454SE1 4-1/2" Push plate switch, wheelchair & 'PUSH TO OPEN' with Surface mount AURA™ illuminated enclosure and signs</p> <p>(2) CX-MDA Magnetic contact, surface, SPST, white</p> <p>Add suffix 'F' for French, 'FE' for bilingual, 'SP' for Spanish</p>
CX-WC14AXFM	<p>FLUSH MOUNT TWO DOOR RESTROOM SYSTEM</p> <p>(1) CX-EMF2 Multi-Function Relay Controller</p> <p>(2) CM-2520/4855SE1 Combo switch, 2" x 4" narrow 'PUSH TO OPEN' & 'PUSH TO LOCK', Flush mount AURA™ illuminated enclosure and sign</p> <p>(2) CM-45/455SE1 4-1/2" Push plate switch, wheelchair & 'PUSH TO OPEN' with Flush mount AURA™ illuminated enclosure and signs</p> <p>(2) CX-MDA Magnetic contact, surface, SPST, white</p> <p>Add suffix 'F' for French, 'FE' for bilingual, 'SP' for Spanish</p>



ALL-ACTIVE SWITCHES



DOOR ACTIVATION DEVICES



CM-40, CM-41 & CM-60 SERIES: ROUND PUSH PLATE SWITCHES

CM-40, CM-41 and CM-60 Series 'All-Active' push plate switches are heavy-duty, ADA-compliant door controls. Faceplates are stainless steel or solid brass, and the assembly is designed for easy installation. The CM-41 4-1/2" square stainless steel backplate is large enough to cover a poorly installed electrical box. Also fits Camden 4-1/2" square surface boxes.



Listed Components



ADA Compliant



CM-40/2



CM-41/3



CM-60/4

Features	
<ul style="list-style-type: none"> Durable stainless steel or brass construction 4 stud switch design and rubber dampers for quieter operation All-Active design requires minimal actuation force 	<ul style="list-style-type: none"> Weather resistant boot included Large variety of graphics options Available in a range of architectural finishes 3 year 'Camden Tough' warranty with '2 for 1' replacement

ROUND SWITCHES	
CM-40	4-1/2" Round push plate switch, brushed stainless steel finish
CM-41	4-1/2" Round push plate switch, with square back plate, brushed stainless steel finish
CM-60	6" Round push plate switch, brushed stainless steel finish

NO-BATTERY KINETIC BY CAMDEN™ WIRELESS ROUND SWITCHES with built-in transmitter. Receiver required.	
CM-40K	4-1/2" Round push plate switch, brushed stainless steel finish
CM-41K	4-1/2" Round push plate switch, with square back plate, brushed stainless steel finish
CM-60K	6" Round push plate switch, brushed stainless steel finish

Specifications

Contact Rating:	15A @ 30 VDC
Contact Type:	SPDT Form 'C'
Mounting:	CM-40/41: Single Gang CM-60: Single/Double Gang or 4 x 4
Switch Type:	Momentary
Std. Finish:	US32 / 630
Dimensions:	CM-40: 4-1/2" Diameter x 1-3/4"D (114mm x 44mm) CM-41: 4-1/2"H x 4-1/2"W x 1-3/4"D (114mm x 114mm x 44mm) CM-60: 6" Diameter x 1-1/8"D (152mm x 28.6mm)

OPTIONS (Add suffix to model above)		
Faceplate Graphic Options		
CM-xx/1	CM-xx/2	CM-xx/A2
CM-xx/2AL	CM-xx/2AR	CM-xx/3
CM-xx/3F	CM-xx/4	CM-xx/A4
CM-xx/4AL	CM-xx/4AR	CM-xx/4F
CM-xx/4FE	CM-xx/8	CM-xx/8B
CM-xx/8F	CM-xx/8D	
Architectural Finishes (Only available with /1, /2, /3, /4 graphic options)		Contact Option
CM-xx-AB Antique Brass	CM-xx-OB Oil Rub Bronze	CM-xx-DP DPDT switch instead of SPDT
CM-xx-SB Satin Brass	CM-xx-PB Polished Brass	
Water Tight Option		
CM-xx-WT Boot & watertight coating		

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Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

Submission Date: Mar 1/26



ENCLOSURES AND MOUNTING BOXES

DOOR ACTIVATION DEVICES

CM-49, 59, 79 AND 89 SERIES: SURFACE AND FLUSH MOUNT ESCUTCHEONS (FOR ROUND PUSH PLATE SWITCHES)

Camden offers a range of **flame and vandal resistant** low profile escutcheons for mounting 4-1/2" and 6" round push plate switches. ABS escutcheons feature a patented 2-piece design and may be ordered as complete 'kits' or individual parts. Stainless steel escutcheons feature one piece heavy gauge construction.

Features

- Exclusive 2 piece ABS escutcheons can be surface mounted or mounted on in-wall single gang, double gang or 4" square electrical boxes
- Heavy gauge stainless steel escutcheons provide an attractive, rugged look
- ABS models are designed for use with Lazerpoint™ 915 MHz. wireless wall switch transmitters



CM-59S

FOR 4-1/2" ROUND SWITCH - STAINLESS STEEL ESCUTCHEON

CM-59S Surface, Round, Standard Depth. Heavy gauge stainless steel, 7-3/4" x 1-1/8"D

FOR 4-1/2" ROUND SWITCH - ABS SPACESHIP ESCUTCHEON

CM-49 Surface/Flush Mount Kit, includes **CM-49A, CM-49B, CM-49C & CM-49G**, 8-3/4" x 2"D

CM-49A Flush enclosure only (fits single gang box), 7" x 13/16"D

CM-49AK Flush Mount Kit, includes **CM-49A, CM-49C & CM-49G**, (fits single, double and 4 x 4 boxes), 7" x 13/16"D

CM-49B Surface mount enclosure only (must be used with **CM-49A**), 8-3/4" x 1"D

CM-49C Adapter plate for mounting on double gang or 4" Square box, 4" x 1/16"D

CM-49G Gasket for **CM-49A** OR **CM-49B**, 6-1/4" x 1/8"D

FOR 6" ROUND SWITCH - STAINLESS STEEL ESCUTCHEON

CM-89S Surface, round standard depth. Heavy gauge stainless steel, 9-5/8" x 1-1/2"D

FOR 6" ROUND SWITCH - ABS SPACESHIP ESCUTCHEON

CM-79 Surface/Flush Mount Kit, includes **CM-79A, CM-79B, CM-79C & CM-79G**, 9-5/8" x 2"D

CM-79A Flush enclosure only (fits single gang box), 8" x 3/4"D

CM-79AK Flush Mount Kit, includes **CM-79A, CM-79C & CM-79G**, (fits single, double and 4 x 4 boxes), 8" x 3/4"D

CM-79B Surface mount enclosure only (must be used with **CM-79A**), 9-5/8" x 1-1/8"D

CM-79G Gasket for **CM-79A** or **CM-79B**, 7-1/4" x 1/8"D



CM-49A CM-49B
(Shown with TX-9 Transmitter)



CM-89S



CM-79A CM-79B
(Shown with TX-9 Transmitter)

AUTOMATIC DOOR CONTROL SWITCHES



DOOR ACTIVATION DEVICES

CM-160 / 170 / 180 SERIES: KEY SWITCHES

Key switches for automatic doors are designed for mounting on the door operator cabinet or door frame, and are available in a range of 2 or 3 position momentary or maintained models. The key cylinder and 2 keys are included.

Features	
<ul style="list-style-type: none"> Black lamacoid (plastic) or stainless steel faceplates Key removable in all maintained positions 	<ul style="list-style-type: none"> 2, 3, 4 position maintained and 2 position momentary models All switches are keyed alike

MODELS	
CM-160	Key switch with plastic lamacoid (mini) faceplate
CM-170*	Key switch with stainless steel (narrow stile) faceplate
CM-180*	Key switch with stainless steel (single gang) faceplate

OPTIONS (Add suffix to model above)				
Faceplate Graphics				
MOMENTARY CM-xx/20	MAINTAINED CM-xx/21	MAINTAINED CM-xx/22	MAINTAINED CM-xx/23	MAINTAINED CM-xx/24
Extra Keys				
CM-A126	(2) Extra keys for CM-160, 170 and 180 series key switches			

*Faceplate includes "AUTOMATIC DOOR" text at bottom of switch (as shown in images)



CM-160/23



CM-170/21



CM-180/23

Specifications

Contact Rating:	4A @ 28 VDC
Switch Life:	100,000 cycles
Dimensions:	CM-160: 3"H x 1-11/16"W x 1-3/8"D (76mm x 42mm x 35mm) CM-170: 4-1/2"H x 1-3/4"W x 1-3/8"D (114mm x 44mm x 35mm) CM-180: 4-1/2"H x 2-3/4"W x 1-3/8"D (114mm x 70mm x 35mm)

CM-190 SERIES: TOGGLE SWITCH

CM-190 Series maintained toggle switches are designed to control automatic door operators, featuring a choice of faceplates, for mounting on the operator cabinet/wall.

Features	
<ul style="list-style-type: none"> Mini metal faceplate designed to install on door operator cabinet or door frame 2 or 3 position maintained operation 	<ul style="list-style-type: none"> Single gang faceplate for mounting on standard electrical box Heavy duty 6 Amp. contacts

MODELS	
CM-190	Mini aluminum faceplate
CM-195*	Single gang stainless steel faceplate

OPTIONS (Add suffix to model above)	
Faceplate Graphics	
 CM-xx/30	 CM-xx/31

*Faceplate includes "AUTOMATIC DOOR" text at bottom of switch (as shown in images)



CM-190/30



CM-195/31

Specifications

Contact Rating:	6A @ 30 VDC
Switch Life:	50,000 cycles
Temp Range:	-4°F - 185°F (-20°C - 85°C)
Dimensions:	CM-190: 2-5/8" H x 1-1/2" W x 2"D (59mm x 38mm x 51mm) CM-195: 4-1/2" H x 2-3/4" W x 2"D (114mm x 70mm x 51mm)

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CX-WEC: EMERGENCY CALL SYSTEM CONTROL KITS FOR UNIVERSAL & RESTROOM APPLICATIONS

CX-WEC Series equipment packages are designed to provide a complete solution that includes assistance request and notification that meets the latest OBC building code requirements. CX-WEC Series Emergency Call System kits are available with white only or red/green/blue/white multi-color dome lights with sounder, and with system reset that support the use of momentary 'PRESS FOR ASSISTANCE' switches.

CX-WEC10: Universal Emergency Call System Kit

- (1) **CM-450R/12** Mushroom push button, single gang, stainless steel faceplate, push/pull, 'PRESS FOR EMERGENCY ASSISTANCE'
 - (1) **CM-AF501SO** Single gang LED annunciator with adjustable sounder 'ASSISTANCE REQUESTED'
 - (1) **CM-AF141SO** Single gang LED dome light with adjustable sounder
 - (1) **CM-SE21** White panel sign, 12.5" x 8.5" (317.5mm x 216mm)
- Add suffix 'F' for French, 'FE' for French/English, 'SP' for Spanish



CX-WEC10K2: Universal Emergency Call System Kit

- (1) **CM-AF540SO** Double gang, push/pull mushroom push button, red, 'Assistance Required', with LED annunciator & adjustable sounder, 'Assistance Requested'
 - (1) **CM-AF141SO** Single gang LED dome light with adjustable sounder
 - (1) **CM-SE21** White panel sign, 12.5" x 8.5" (317.5mm x 216mm)
- Add suffix 'F' for French, 'FE' for French/English, 'SP' for Spanish



CX-WEC10BK2: Universal Emergency Call System Kit with Multi-Color LED Dome Light

- (1) **CM-AF540SO** 'PRESS FOR EMERGENCY ASSISTANCE' maintained mushroom push button & 'ASSISTANCE REQUESTED' LED annunciator with adjustable sounder
 - (1) **CM-AF142SO** Single gang multi-color LED dome light with adjustable sounder and flashing LED
 - (1) **CM-SE21** White panel sign, 12.5" x 8.5" (317.5mm x 216mm)
- Add suffix 'F' for French, 'FE' for French/English, 'SP' for Spanish



CX-WEC10CK2: Emergency Call System Kit 2 Door Restrooms Multi-Color Dome Light

- (1) **CM-AF540SO** 'PRESS FOR EMERGENCY ASSISTANCE' maintained mushroom push button & 'ASSISTANCE REQUESTED' LED annunciator with adjustable sounder
 - (2) **CM-AF142SO** Single gang multi-color LED dome light with adjustable sounder and flashing LED
 - (1) **CM-SE21** White panel sign, 12.5" x 8.5" (317.5mm x 216mm)
- Add suffix 'F' for French, 'FE' for French/English, 'SP' for Spanish



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CBH 900/901/902/903

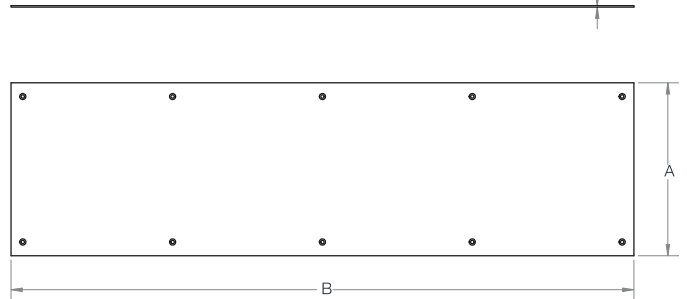
MATERIAL: ALUMINUM, BRASS,
BRONZE AND STAINLESS STEEL

FINISHES: ALL STANDARD

SKUS:
CBH 900-ALUMINUM KICKPLATE
CBH 901-BRASS KICKPLATE
CBH 902-BRONZE KICKPLATE
CBH 903-STAINLESS STEEL KICKPLATE

.050 GAUGE PLATES WILL BE SUPPLIED STANDARD.
FOR THICKER GAUGE PLATES USE SUFFIX

A. 062 B. .125



CBH 900-ALUMINUM
CBH 901-BRASS
CBH 902-BRONZE
CBH 903-STAINLESS STEEL

KICKPLATE

All kickplates are drilled, countersunk and
supplied standard with #6 x 5/8 oval head
socket wood screws. Machine screws or tape
fastening is available upon request.

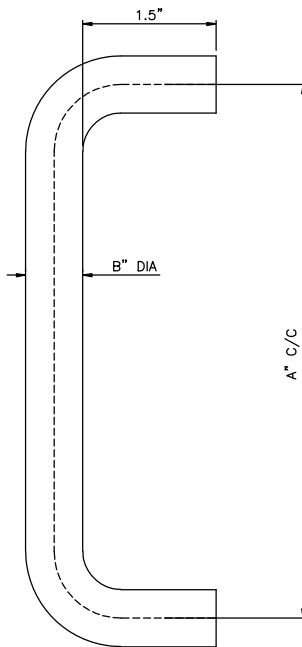
Kickplates available with bevelled edges at extra
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GSH 4007 7"-4009 9"-4012 12" (1, 2, 3 OR 4)



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- 2=1" DIA
- 3=1-1/4" DIA
- 4=1-1/2" DIA

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Milton District HS Reno 2026 HDSB

Submission Date: Mar 1/26

GSH 1180 - (1, 2, 3 OR 4) 12" C/C

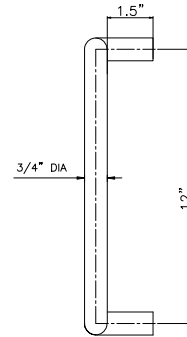
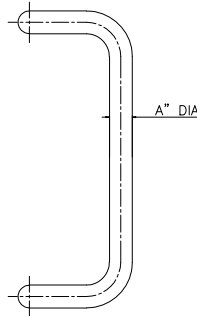
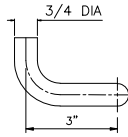
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- 1=3/4" DIA
- 2=1" DIA
- 3=1-1/4" DIA
- 4=1-1/2" DIA



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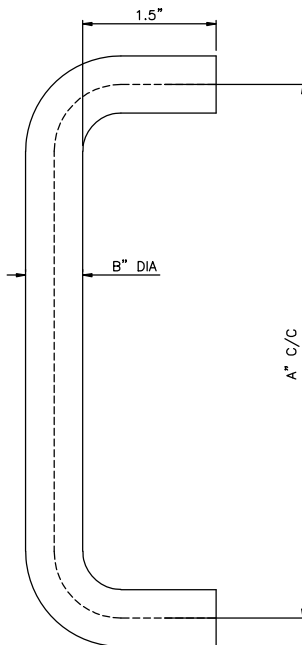
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- 1=3/4" DIA
- 2=1" DIA
- 3=1-1/4" DIA
- 4=1-1/2" DIA

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Submission Date: Mar 1/26

90 Series surface overhead door holders/stops



90 Series heavy-duty

Glynn-Johnson 90 Series holders and stops are the most rugged models available for heavy-duty applications. The channel is thru-bolted to the door with sex bolts, and the jamb bracket is surface mounted to the jamb, requiring minimal door and frame preparation.

These versatile units can be used in conjunction with most surface-applied door closers. The provided templates allow for variable mounting positions, ranging from 85° to 110° hold-open/stop angle. These templates are designed for installation in almost all types of doors, including doors with conventional butt-type hinges or specialty hinges.

Four models:

- 90H Series hold-open model
- 90S Series stop-only model
- 90F Series friction hold-open model
- 90SE Series special stop-only model

Five sizes:

- Simple
- Standardized
- Each model is available in five sizes

Three options:

- J—Angle jamb bracket
- SHIM—Blade stop shim kits
- SOC—Pin-in-socket security screw package

Unmatched convenience:

- Non-handed
- Improved compatibility with door closers
- Single-acting doors
- Interior/exterior applications
- Durable
- Easy to install
- Improved corrosion resistance
- Function conversion kits available

Materials and finishes

In 300 Series stainless steel, brass and steel substrates, these models are available in the largest selection of finishes in the industry. Stainless steel models offer the highest resistance to corrosion. Available in the following finishes:

BHMA	US	Finish description
605	US3	Polished Brass
606	US4	Satin Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
643E/716	—	Aged Bronze, Blackened, Edge Relieved
652	—	Satin Chrome
706	SP4	Powder Coat Brass
691	SP10	Powder Coat Bronze
689	SP28	Powder Coat Aluminum
695	SP313	Powder Coat Dark Bronze
622	SPBLK	Powder Coat Black

Models

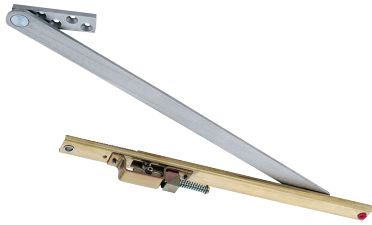
Glynn-Johnson 90 Series door holders and stops provide long-lasting protection for doors, frames and hardware. All models incorporate a heavy-duty channel/slide-arm design and offset jamb bracket. This unique design allows for simple field modification of functions, should user requirements change.

90H Series hold-open

(Suffix H) Hold-open models provide a convenient method of holding the door open at a predetermined position for short or long periods of time, permitting an unobstructed traffic flow through the opening. The hold-open function can easily be turned on or off by simply rotating the serrated knob on the bottom of the channel. This knob engages the hold-open mechanism, allowing the door to be held open at a predetermined position ranging from 85° to 110°. When the knob is flipped over, it acts as a stop and shock absorber.

The tension on the hold-open mechanism can be adjusted using a phillips screwdriver to offset air currents or other exterior conditions. The hold-open tension adjustment is located on the top of the slider in the channel.

100 Series concealed overhead door holders/stops



100 Series heavy-duty

Glynn-Johnson offers a complete line of overhead door holders and stops, accommodating virtually all openings with solutions for even the most complex door control problems. These concealed holders and stops provide the most attractive and reliable heavy-duty door control available.

Glynn-Johnson 100 Series holders and stops provide the most reliable and versatile concealed overhead door control. They are designed for installation on virtually all types of doors mounted on conventional type butt hinges, pivots, continuous hinges, swing clear hinges and numerous other specialty hinges. When used in conjunction with many surface-applied door closers, 100 Series holders and stops provide the most effective control for entrance doors and vestibule doors of all types, as well as heavy or often used interior doors. Templates provided allow for variable mounting positions, ranging from 85° - 110° of opening.

Five models:

- 100H Series hold-open model
- 100HP Series internal hold-open model
- 100F Series friction hold-open model
- 100S Series stop-only model
- 100SE Series special stop-only model

Six sizes:

- Each model comes in six sizes.
- Simple
- Standardized

Three options:

- ADJ—Adjustable jamb bracket
- CJ—Jamb Bracket for use with LCN 5030 closer
- SOC—Pin-in-socket security screw package

Unmatched convenience:

- Non-handed
- Improved compatibility with door closers
- Single/double-acting doors
- Interior/exterior applications

- Reduced door prep
- Durable
- Improved corrosion resistance
- Function conversion kits are available

Materials and finishes

In heavy gauge brass or 300 Series stainless steel, these models offer the broadest range of finishes in the industry, complementing any design and offering the highest resistance to corrosion. Available in the following finishes:

BHMA	US	Finish description
605	US3	Polished Brass
606	US4	Satin Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
629	US32	Bright Stainless Steel
630	US32D	Stainless Steel
643E/716	—	Aged Bronze, Blackened, Edge Relieved
706	SP4	Powder Coat Brass
691	SP10	Powder Coat Bronze
689	SP28	Powder Coat Aluminum
695	SP313	Powder Coat Dark Bronze
622	SPBLK	Powder Coat Black

Models

These models provide a wide range of optional features, and are ideal for use on entrance and vestibule doors, large doors, doors opened frequently, or doors subject to abuse. These models are also furnished with an offset-style jamb bracket.

Designed for heavy-duty applications, 100 Series models will provide long-lasting protection to doors, frames, hinges, related hardware and surrounding walls or obstructions.

100H Series hold-open

(Suffix H) The hold-open function should be used where it is desired to hold a door open at a predetermined position for short or long periods of time, permitting an unobstructed traffic flow through the opening.

These models are both selective and adjustable, featuring the most reliable hold-open mechanism available. They feature a control knob which protrudes from the face of the door and turns the hold-open function on or off. Set in the inactive position, the unit acts as a stop and shock absorber. The tension on the hold-open mechanism can be adjusted using an Allen wrench to offset air currents or other exterior conditions. The hold-open tension adjustment is located in the bottom of the track in the top of the door.

Hinges and pivots
Architectural hinges

5BB1

5 Knuckle, ball bearing full mortise hinge

- Recommended for medium weight doors (<150 lbs)
- Recommended for medium frequency usage (< 400 cycles per day)
- Made with two ball bearing assemblies
- Recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
 - 12-24 x 1/2 UFPHMS, 12 x 1 1/4 FPHWS
 - 10-24 x 1/2 UFPHMS, 10 x 1 FPHWS (3.5x3.5 hinge size only)

Specifications

Material substrate	Made from brass, 1040 steel or 304 series stainless steel
Certifications	<ul style="list-style-type: none"> ▪ Certified to ANSI/BHMA A156.1 for performance standards ▪ Meets ANSI/BHMA 156.7 for template hinge dimensions ▪ UL Classified for windstorm rated assemblies - R37965 ▪ UL10C Listed for steel only (3 hour)

Dimensions

Height x Width	Size (mm)	Gauge
3.5 x 3.5	89 x 89	0.123
4 x 4	102 x 102	0.130
4.5 x 4	114 x 102	0.134
4.5 x 4.5	114 x 114	0.134
5 x 4.5	127 x 114	0.146
5 x 5	127 x 127	0.146

Refer to General Hinge Information page to determine proper hinge for application

Options

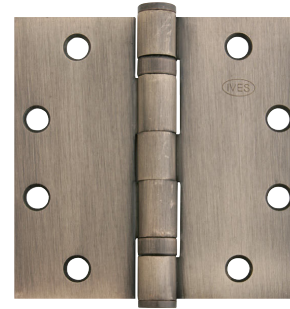
NRP	Non-removable pin	TW4	Four wire
HT	Hospital tip	TW4M*	Four wire with monitor
SH	Security stud - comes standard with NRP	TW8	Eight wire
RC=1/4, RC=3/8	Rounded corners	TW8M*	Eight wire with monitor
SEC	Security fasteners - pin-in-socket (for hollow metal doors and frames only)	TW12	Twelve wire
		MON*	Monitor

*TW and MON options are not available on 4 x 4 or smaller.

Finishes

BHMA	Description	Substrate	Finish
600	Primer Paint	Steel	USP
605	Bright Brass	Brass	US3
606	Satin Brass	Brass	US4
612	Satin Bronze	Brass	US10
613	Oil Rubbed Bronze	Brass	US10B
614	Oxidized Bronze	Brass	US10A
619	Satin Nickel	Brass	US15
622	Matte Black	Brass	B-BLK
625	Bright Chrome	Brass	US26
626	Satin Chrome	Brass	US26D
643e/716	Aged Bronze	Brass	B-643e/716
695	Dark Bronze Painted	Brass	B-695/US10BE
629	Bright Stainless	Stainless steel	US32
630	Satin Stainless	Stainless steel	US32D
631	Matte Black	Steel	F-BLK
632	Bright Brass	Steel	US3
633	Satin Brass	Steel	US4
639	Satin Bronze	Steel	US10
640	Oil Rubbed Bronze	Steel	US10B
641	Oxidized Bronze	Steel	US10A
646	Satin Nickel	Steel	US15
651	Bright Chrome	Steel	US26
652	Satin Chrome	Steel	US26D
643e/716	Aged Bronze	Steel	F-643e/716
695	Dark Bronze Painted	Steel	F-695/US10BE

For other colors, consult factory.



- Introduction
- Table of contents
- Hinges and pivots
- Pulls, push bars and plates
- Flush bolts, strikes and coordinators
- Latches, catches and bolts
- Door stops, holders and silencers
- Exterior hardware
- Miscellaneous hardware

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Commercial Doors & Hardware Ltd.
2150 Winston Park Drive, Unit 16
Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

Submission Date: Mar 1/26

Hinges and pivots

Architectural hinges

5BB1HW

5 Knuckle, ball bearing, heavy weight full mortise hinge

- Recommended for heavier weight doors (>150 lbs)
- Recommended for high frequency usage (400 cycles per day)
- Made with four ball bearing assemblies
- Recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
 - 12-24 x 1/2 UFPHMS, 12 x 1/4 FPHWS

Specifications

Material substrate	Made from brass, 1040 steel or 304 series stainless steel
Certifications	<ul style="list-style-type: none"> Certified ANSI/BHMA A156.1 for performance standards Meets ANSI/BHMA 156.7 for template hinge dimensions UL Classified for windstorm rated assemblies - R37965 UL 10C Listed for steel only (3 hour)

Dimensions

Height x Width	Size (mm)	Gauge
4.5 x 4	114 x 102	0.180
4.5 x 4.5	114 x 114	0.180
5 x 4.5	127 x 114	0.190
5 x 5	127 x 127	0.190

Refer to General Hinge Information page to determine proper hinge for application

Options

NRP	Non-removable pin	TW4	Four wire
HT	Hospital tip	TW4M	Four wire with monitor
SH	Security stud - comes standard with NRP	TW8	Eight wire
RC-1/4, RC-5/8	Rounded corners	TW8M	Eight wire with monitor
SEC	Security fasteners - pin-in-socket (for hollow metal doors and frames only)	TW12	Twelve wire
		MON	Monitor

Finishes

BHMA	Description	Substrate	Finish
600	Primer Paint	Steel	USP
605	Bright Brass	Brass	US3
606	Satin Brass	Brass	US4
612	Satin Bronze	Brass	US10
613	Oil Rubbed Bronze	Brass	US10B
614	Oxidized Bronze	Brass	US10A
619	Satin Nickel	Brass	US15
622	Matte Black	Brass	B-BLK
625	Bright Chrome	Brass	US26
626	Satin Chrome	Brass	US26D
643e/716	Aged Bronze	Brass	B-643e/716
629	Bright Stainless	Stainless steel	US32
630	Satin Stainless	Stainless steel	US32D
631	Matte Black	Steel	F-BLK
632	Bright Brass	Steel	US3
633	Satin Brass	Steel	US4
639	Satin Bronze	Steel	US10
640	Oil Rubbed Bronze	Steel	US10B
641	Oxidized Bronze	Steel	US10A
646	Satin Nickel	Steel	US15
651	Bright Chrome	Steel	US26
652	Satin Chrome	Steel	US26D
643e/716	Aged Bronze	Steel	F-643e/716
695	Dark Bronze Painted	Steel	F-695/US10BE

For other colors, consult factory.



Flush bolts, strikes and coordinators

Manual flush bolts

FB458

Top or bottom bolts - metal doors

- When the active door is opened, the lever can be moved to the 'up' position, retracting the bolt and allowing the inactive leaf to be opened
 - When the inactive leaf is closed, the lever can be moved to the 'down' position, projecting the bolt into the strike and securely locking the inactive leaf
- Simplified installation in metal frames
 - Round bolt head requires only a punched hole
 - Use of strike optional
 - Special design of guide and flat sided bolt tip to prevent bolt rotation
- Non-handed
- Bolt tip $\frac{1}{2}$ " diameter
- Bolt throw is $\frac{3}{4}$ " with a $\frac{7}{8}$ " vertical adjustment
- Bolt backset is $\frac{3}{4}$ "
- Standard rod length is 12", which is measured from the center of the flush bolt body to the bolt tip

Specifications

Mounting hardware	8-32 X 1" FPHMS
Certifications	UL10C Listed (3 hour) fire doors 8'0" X 10'0" (fire rated openings require top and bottom bolt)

Options

Optional rod lengths available for top bolt only on non-fire rated openings—18", 24" for fire rated doors with AHJ approval, 36" and 48" for non-fire rated doors

Dimensions

Body size (Width x Length x Depth)	Guide size (Width x Length x Height x Thickness)	Strike size (Width x Length x Thickness)
1" x 6 $\frac{3}{4}$ " x 1 $\frac{1}{8}$ "	1" x 2" x $\frac{5}{16}$ "	$\frac{15}{16}$ " x 2 $\frac{1}{4}$ " x $\frac{5}{16}$ "

Finishes

BHMA	Description	Substrate	Finish
605	Bright Brass	Brass	US3
606	Satin Brass	Brass	US4
609	Satin Brass, Blackened	Brass	US5
612	Satin Bronze	Brass	US10
613	Oil Rubbed Bronze	Brass	US10B
619	Satin Nickel	Brass	US15
622	Matte Black	Brass	BLK
625	Bright Chrome	Brass	US26
626	Satin Chrome	Brass	US26D
643e/716	Aged Bronze	Brass	—

Custom finishes are available as engineering special, consult customer service.

Additional accessories

- DPI and DP2 dust proof strike, see page 167



Door stops, holders and silencers

Door stops, holders and silencers

With a full line of wall bumpers, wall holders, kick down holders and hinge pin stops for commercial and residential applications, Ives products are designed to ensure that doors will not slam into the wall. These accessories provide an economical alternative for doors without a closer and overhead stop or holder.



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Door stops, holders and silencers**Wall bumpers and stops**

WS401/WS402CVX, WS401/WS402CCV

Wall bumpers (convex and concave models)

- Constructed in heavy-duty cast brass
- Special retainer ring makes rubber tamper resistant
- Grey rubber bumper
- WS401/402CVX – convex rubber bumper, packed with fasteners for drywall/wood applications
- WS401/402CCV – concave rubber bumper which avoids damage to locks with projecting buttons, packed with fasteners for drywall/wood applications

Specifications

Material substrate	Made from cast brass
Certifications	<ul style="list-style-type: none"> WS401/402CVX Meets ANSI/BHMA 156.16, L12101 WS401/402CCV Meets ANSI/BHMA 156.16, L12251

Dimensions

Base diameter	Base thickness	Overall projection
2 1/2"	3/8"	1"

Finishes

BHMA	Description	Substrate	Finish
605	Bright Brass	Brass	US3
606	Satin Brass	Brass	US4
612	Satin Bronze	Brass	US10
613	Oil Rubbed Bronze	Brass	US10B
619	Satin Nickel	Brass	US15
625	Bright Chrome	Brass	US26
626	Satin Chrome	Brass	US26D

For other colors, consult factory.

Note: WS401/402 is the full part number, 401 and 402 are not different products.

WS404CVX

Wall stop (convex)

- Compact size
- Constructed in cast brass
- Totally concealed mounting discourages vandalism or tampering
- Unit furnished with grey convex rubber bumper
- Packed with fasteners for drywall/wood applications

Specifications

Material substrate	Made from cast brass
--------------------	----------------------

Dimensions

Base diameter	Overall projection
1"	17/32"

Finishes - brass

BHMA	Description	Substrate	Finish
605	Bright Brass	Brass	US3
606	Satin Brass	Brass	US4
609	Blackened Brass	Brass	US5
612	Satin Bronze	Brass	US10
613	Oil Rubbed Bronze	Brass	US10B
619	Satin Nickel	Brass	US15
622	Matte Black	Brass	BLK
625	Bright Chrome	Brass	US26
626	Satin Chrome	Brass	US26D
-	Aged Bronze	Brass	643e/716

For other colors, consult factory.

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WS401/WS402CCV



Door stops, holders and silencers

Wall bumpers and stops

WS406 / WS407CVX, WS406 / WS407CCV

Wall stops (convex and concave models)

- Constructed in sturdy yet economical wrought base of brass or stainless steel construction
- Feature concealed tamper-proof mounting
- Shipped factory preassembled backplate to reduce installation cost
- Easy installation by inserting screwdriver through small hole in rubber
- WS406/407CVX – convex rubber bumper, packed with fasteners for drywall/wood applications
- WS406/407CCV – concave rubber bumper which avoids damage to locks with projecting buttons, packed with fasteners for drywall/wood applications



WS406 / WS407CVX

Specifications

Material substrate	Made from brass and stainless steel
Certifications	<ul style="list-style-type: none"> WS406/407CVX Meets ANSI/BHMA 156.16, L22201 for brass and L52201 for stainless steel WS406/407CCV Meets ANSI/BHMA 156.16, L22251 for brass and L52251 for stainless steel

Dimensions

Base diameter	Base thickness	Overall projection
2 1/2"	3/8"	1"

Finishes

BHMA	Description	Substrate	Finish
605	Bright Brass	Brass	US3
606	Satin Brass	Brass	US4
609	Blackened Brass	Brass	US5
612	Satin Bronze	Brass	US10
613	Oil Rubbed Bronze	Brass	US10B
619	Satin Nickel	Brass	US15
622	Matte Black	Brass	BLK
625	Bright Chrome	Brass	US26
626	Satin Chrome	Brass	US26D
-	Aged Bronze	Brass	643e/716
630	Stainless Steel	Stainless steel	US32D

For other colors, consult factory.
Note: WS406/407 is the full part number. 406 and 407 are not different products.

411R-W

Wall bumper - adhesive

- Adhesive-backed wall door stop for use on clean, smooth, flat surfaces only
- Non-marring white rubber
- Concave design permits knob to strike stop without damaging or engaging lock mechanism



Specifications

Material substrate	Made from rubber
--------------------	------------------

Dimensions

Base diameter	Base thickness	Overall projection
1 7/8"	3/8"	1 1/16"

Finish

BHMA	Description	Substrate	Finish
-	White	Rubber	R-W

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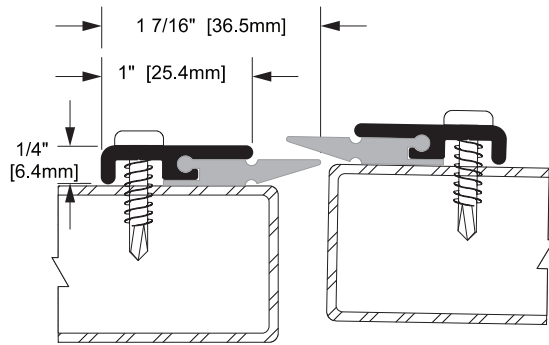


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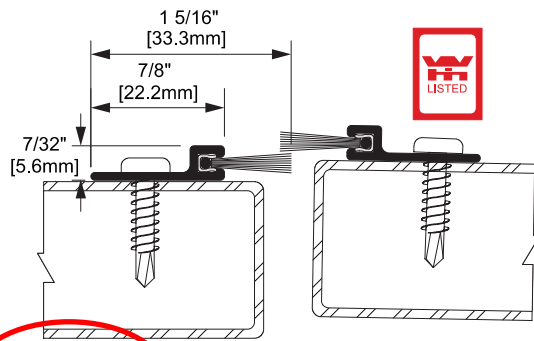
Milton District HS Reno 2026 HDSB

Submission Date: Mar 1/26

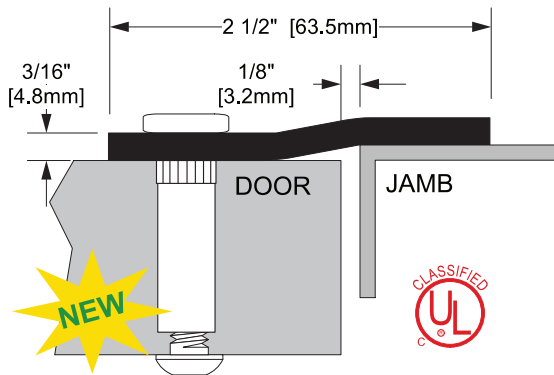
ASTRAGALS



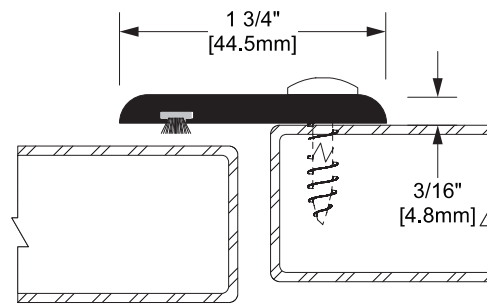
W-5 CLEAR ANODIZED ALUMINUM AND VINYL



W-25 CLEAR ANODIZED ALUMINUM AND NYLON BRUSH



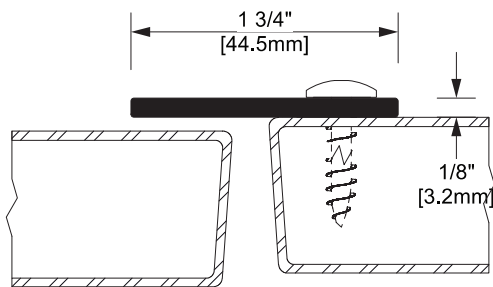
W-7 SECURITY ASTRAGAL
PRIMED C.R. STEEL c/w SECURITY SLEEVE



W-8 EXTRUDED ALUMINUM

W-8P EXTRUDED ALUMINUM WITH PILE

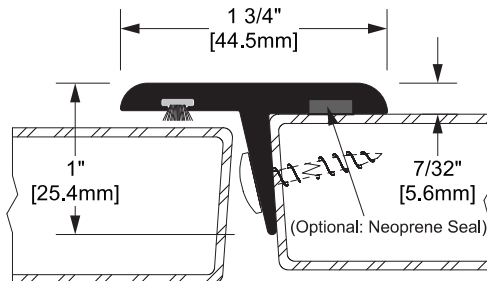
W-8SL EXTRUDED ALUMINUM WITH SILICONE



W-8S C.R. STEEL WITH CONDITIONED EDGES

W-8SP AS ABOVE, PRIMED FINISH

W-8SS STAINLESS STEEL, SEE PG. 20

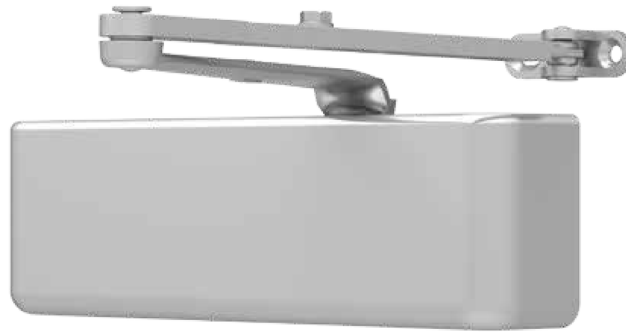


W-9 EXTRUDED ALUMINUM WITH PILE

W-9S EXTRUDED ALUMINUM WITH SILICONE

4040XP Series

Features

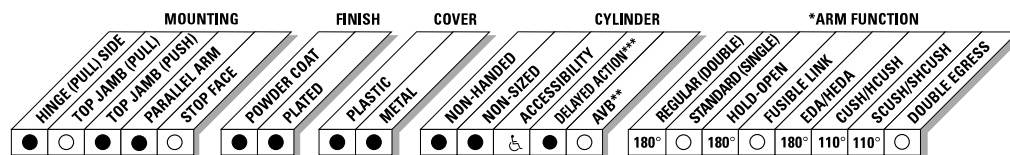


The 4040XP is LCN's most durable and flexible heavy duty closer designed for institutional and other demanding high traffic applications.

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act	Cover	<ul style="list-style-type: none"> ■ Plastic, Standard ■ Metal, Optional
Body Construction	<ul style="list-style-type: none"> ■ Cast Iron Body ■ Full Complement Bearings ■ 1-1/2" Diameter Piston ■ 3/4" Diameter Double Heat Treated Pinion Journal 	Fasteners	Self Reaming and Tapping Screws (SRT)
Fluid	All Weather Liquid X Fluid	Mounting	Hinge (Pull Side), Top Jamb (Push Side), Parallel Arm (Push Side)
Handing	Non-Handed	Arms	Regular Arm
Templating	Peel-n-Stick templates - 2-1/4" x 5" Mounting Hole Pattern	Finishes/Colors/ Powder Coat	<ul style="list-style-type: none"> ■ Aluminum (689) ■ Statuary Bronze (690) ■ Light Bronze (691) ■ Black (693) ■ Dark Bronze (695) ■ Brass (696) ■ Custom colors optional ■ Optional SRI primer - powder coat only ■ Optional plated finishes
Size	Adjustable Spring Size 1-6, includes Patented Green Dial		
Warranty	30 years		

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.



● AVAILABLE
○ NOT AVAILABLE

♿ Closer available with less than 5.0 lbs. opening force on 36" door.
* Maximum opening/hold-open point with standard template.
** Advanced Variable Backcheck.
*** Delay feature incorporates standard 4040 cylinder (not XP).

LCN Door Control Catalog

phone: 877-671-7011 ■ fax: 800-248-1460 ■ www.allegion.com/us ■ 009426 rev.2/16

LCN

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Oakville, L6H 5V1

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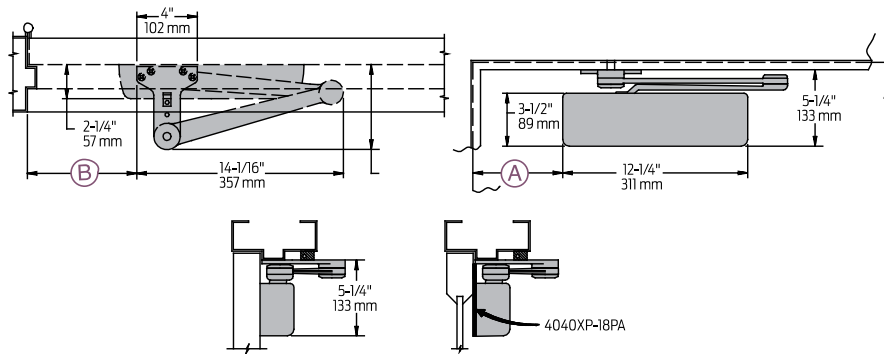
Submission Date: Mar 1/26

4040XP Series

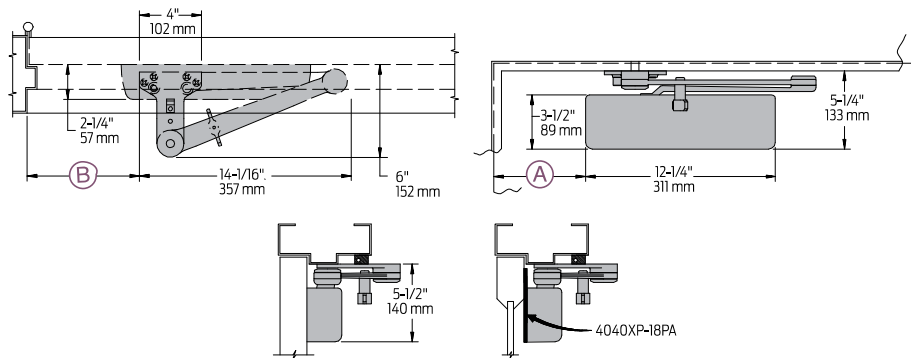
Mounting details

EDA and CUSH Mounting

EDA mount



CUSH mount



Clearance	4040XP-62EDA is 5-1/2" (140 mm) from door face. 6" (152 mm) for CUSH	
Head Frame	Flush or rabbeted requires CUSH FLUSH PANEL ADAPTER, 4040XP-419	
CUSH ARM	Requires SHOE SUPPORT, 4040XP-30 for fifth screw anchorage for narrow frames	
Delayed Action	<ul style="list-style-type: none"> ■ Incorporates standard 4041 cylinder, without XP cylinder. ■ Delays closing from maximum opening to ; 115° with 180° template, 95° with 110° template, 85° with 100° template, 75° with 90° template. Delay time adjustable up to approximately 1 minute. 	
Maximum Opening	EDA arm can be templated for points at:	CUSH arms can be templated for opening/hold-open point at:
	110°: A = 6-3/8" (162 mm) B = 7-3/4" (197 mm)	85°: A = 7-15/16" (202 mm) B = 9-1/8" (232 mm)
	or 180°: A = 2-7/8" (73 mm) B = 4-1/4" (108 mm)	90°: A = 7-3/16" (183 mm) B = 8-1/2" (216 mm)
	Hold-open points up to maximum opening with HEDA arm	100°: A = 6-1/16" (154 mm) B = 7-1/4" (184 mm)
		or 110°: A = 5-1/16" (129 mm) B = 6-3/8" (162 mm)

Notes:

- 4040XP Series closers ordered with EDA or CUSH arms include 4040XP-201 FIFTH HOLE SPACER to support the shoe
- Spring Cush stop points are approximately 5° more than templated stop point
- Hold open at templated stop points

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Arms

4040XP Series

Accessories



4040XP-3077
Regular Arm

- Non-handed
- Mounts pull side or top jamb with shallow reveal P4041 closer includes PA SHOE, 4040XP-62PA required for parallel arm mounting



4040XP-3077L
Long Arm

- Non-handed
- Includes LONG ROD AND SHOE, 4040XP-79LR for top jamb mount
- Optional



4040XP-3077ELR
Extra Long Arm

- Non-handed
- Includes EXTRA LONG ROD AND SHOE, 4040XP-79ELR for top jamb mount with deep reveal
- Optional



4040XP-3049
Hold-Open Arm

- Non-handed
- Mounts pull side or top jamb with shallow reveal, hold-open adjustable shoe
- 4040XP closer includes 4040XP-62PA shoe required for parallel arm mounting
- Optional



4040XP-3049L
Long Hold-Open Arm

- Non-handed
- Includes LONG HEAD AND TUBE, 4040XP-3048L for top jamb mount
- Optional



4040XP-3077EDA
Extra Duty Arm

- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations
- Optional



4040XP-3049EDA
Hold-Open Extra Duty Arm

- Handed
- Parallel arm features forged, solid steel main and forearm for potentially abusive installations
- Hold-open function is adjusted at the shoe
- Optional



4040XP-3077EDA/62G
Extra Duty Arm with 62G

- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations
- 62G shoe provides additional blade stop clearance
- Optional



4040XP-3049EDA/62G
Hold-Open Extra Duty Arm with 62G

- Handed
- Features forged, solid steel main and forearm for potentially abusive installations
- 62G shoe provides additional blade stop clearance. Hold-open function is adjusted at the shoe
- Optional



4040XP-3077CNS
Cush-N-Stop® Arm

- Non-handed
- Features solid forged steel main arm and forearm with stop in soffit shoe.
- Optional



4040XP-3049CNS
HCUSH Arm

- Non-handed
- Hold-open function with templated stop/hold-open points
- Handle controls hold-open function
- Optional



4040XP-3077SCNS
Spring CUSH Arm

- Non-handed
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
- Optional



4040XP-3049SCNS
Spring HCUSH Arm

- Non-handed
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
- Handle controls hold-open function
- Optional

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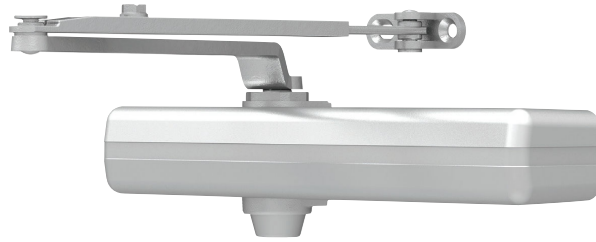
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Submission Date: Mar 1/26

1460 Series

1460 Series



Designed for maximum versatility, the 1460, available with multiple cover options, can be used for both commercial and institutional applications. This fully universal closer offers a wide variety of options and fast and accurate installation.

Features

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 hour salt spray, meets BAA - Buy American Act	Cover	<ul style="list-style-type: none"> ■ Slim line plastic, standard ■ Full plastic and metal designer series, optional
Body construction	<ul style="list-style-type: none"> ■ Cast iron body ■ Full complement bearing ■ 1 1/4" diameter piston ■ 3/4" diameter single heat treated pinion journal 	Fasteners	Self reaming and tapping screws (SRT)
Fluid	All weather fluid	Mounting	Hinge (pull side), top jamb (push side), Parallel arm (push side)
Handing	Non-handed	Arms	Standard regular pull side, and top jamb
Templating	Peel-n-Stick templates - 1" x 7 1/2" mounting hole pattern	Finishes/colors/ powder coat	<ul style="list-style-type: none"> ■ 689 Aluminum ■ 690 Statuary Bronze ■ 691 Light Bronze ■ 693 Black ■ 695 Dark Bronze ■ 696 Brass ■ Custom colors optional ■ Optional SRI primer - powder coat only ■ Optional plated finishes
Size	Adjustable Spring Size 1-6 (Includes patented Green Dial)		
Warranty	30 years		

Special templates Customized installation templates or products may be available to solve non-standard applications. Contact LCN Product Support for assistance.

Mounting	Finish	Cover	Cylinder	Arm function*
Hinge (pull) side	Plastic	Designer series	Regular (double)	Hold Open
Top jamb (pull)	Metal	Non-handed	Standard (single)	EDA/HEDA
Top jamb (push)		Non-sized	Heavy duty	CUSH/HCUSH
Parallel arm		Accessibility		SCUSH/SHCUSH
Stop face		Delay action		
Powder coat			180°	
Plated			180°	
			180°	
			110°	
			100°	
			100°	

■ Available
 ■ Not available
 ♿ Closer available with less than 5.0 lbs. opening force on 36" door.
 * Maximum opening/hold open point with standard template.
 D For designer series only



CDH

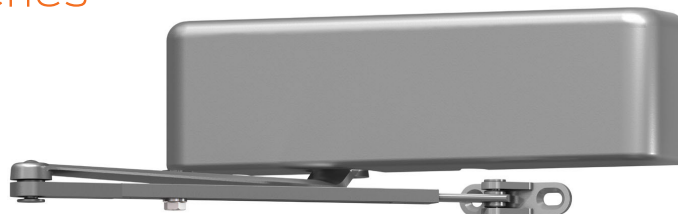
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Milton District HS Reno 2026 HDSB

Submittal Date: Mar 1/26

4020/4020T Series

4020 Series



The 4020 is a heavy duty closer with adjustable spring power using the LCN Green Dial. This creates a custom fit to meet the specific demands of high traffic use and brings reliable performance.

Features

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 hour salt spray, meets BAA - Buy American Act	Cover	<ul style="list-style-type: none"> Plastic Cover (PC), standard Metal Cover (MC), optional
Body construction	<ul style="list-style-type: none"> Cast iron body Full complement bearing 1 1/2" diameter piston 1/16" diameter double heat treated pinion journal 	Fasteners	Self Reaming and Tapping Screws (SRT)
Fluid	All weather fluid	Mounting	Top jamb (Push side)
Handing	Handed	Arms	Regular arm
Templating	Peel-n-Stick templates - 2 1/2" x 6" mounting hole pattern	Finishes/colors/powder coat	<ul style="list-style-type: none"> 622 Matte black 689 Aluminum 690 Statuary bronze 691 Light bronze 693 Black 695 Dark bronze 696 Brass Custom colors optional Optional SRI primer - powder coat only Optional plated finishes
Size	Adjustable 1-5 or sized 6		
Warranty	30 years		

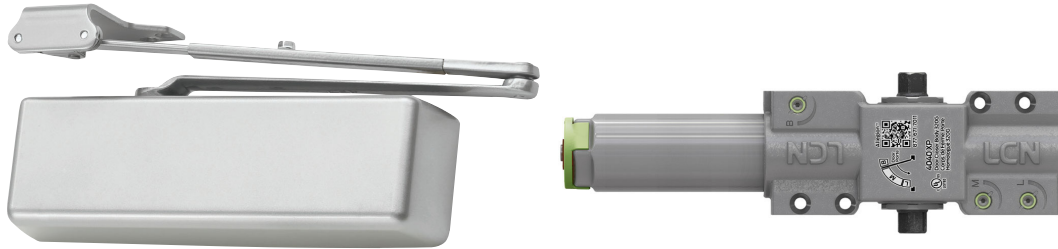
Special templates Customized installation templates or products may be available to solve non-standard applications. Contact LCN Product Support for assistance.

Mounting	Finish	Cover	Cylinder	Arm function*
Hinge (pull) side	Plastic	Non-handed	Regular (double)	Regular (double)
Top jamb (pull)	Metal	Non-sized	Standard (single)	Standard (single)
Top jamb (push)		Accessibility	Hold Open	Hold Open
Parallel arm	Powder coat	Delay Action**	Fusible Link	Fusible Link
Stop face	Plated	CYLAVB**	EDA/HEDA	EDA/HEDA
			CUSH/HCUSH	CUSH/HCUSH
			SCUSH/SHCUSH	SCUSH/SHCUSH
			Double Egress	Double Egress

■ Available ♿ Closer available with less than 5.0 lbs. opening force on 36" door.
 ■ Not available * Maximum opening/hold open point with standard template.
 ** Advanced Variable Back Check.
 *** Delay action for 4040XP incorporates standard 4041 cylinder.

4040XP/4040XPT Series

4040XP Series



The 4040XP Series is LCN's most popular door closer—and for good reason. This durable non-handed, surface-mounted heavy-duty closer, is designed for the most demanding high-use-and-abuse applications as well as for easy installation and maintenance.

Features

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 hour salt spray, meets BAA - Buy American Act	Cover	<ul style="list-style-type: none"> Redesigned snap-fit plastic cover (PC) with improved retention fit, standard Metal Cover (MC), optional
Body construction	<ul style="list-style-type: none"> Patented positive stop Patented regulation valve indicators Independent speed adjustments QR code for instructions and support Cast iron body Full complement bearing 1 1/2" diameter piston Double heat treated pinion journal 	Fasteners	Self reaming and tapping screws (SRT)
Fluid	All weather liquid X fluid	Mounting	Hinge (pull side), top jamb (push side), parallel arm (push side)
Handing	Non-handed	Arms	Regular arm
Templating	Peel-n-Stick templates - 2 1/4" x 5" mounting hole pattern	Finishes/colors/ powder coat	<ul style="list-style-type: none"> 622 Matte black 689 Aluminum 690 Statuary bronze 691 Light bronze 693 Black 695 Dark bronze 696 Brass Custom colors optional Optional SRI primer - powder coat only Optional plated finishes
Size	Adjustable spring size 1-6, includes LCN Green Dial		
Warranty	30 years		

Special templates

Customized installation templates or products may be available to solve non-standard applications. Contact LCN Product Support for assistance.

Mounting	Finish	Cover	Cylinder	Arm function*
Hinge (pull) side	Plastic	Non-handed	Regular (double)	Regular (double)
Top jamb (pull)	Metal	Non-sized	Standard (single)	Standard (single)
Top jamb (push)		Accessibility	Hold Open	Hold Open
Parallel arm		Delay Action***	Fusible Link	Fusible Link
Stop face		CYL-AVB**	EDA/EDA	EDA/EDA
Powder coat			CUSH/HCLUSH	CUSH/HCLUSH
Plated			SCUSH/SHCUSH	SCUSH/SHCUSH
			Double Egress	Double Egress

■ Available
 ■ Not available

♿ Closer available with less than 5.0 lbs. opening force on 36" door.
 * Maximum opening/hold open point with standard template.
 ** Advanced Variable Back Check.
 *** Delay feature incorporates standard 4040 cylinder (not XP).

4040XP/4040XPT Series

Accessories

Cylinders



**4040XP-3071
Cast iron cylinder
assembly (CYL)**

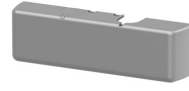
- Non-handed
- Heavy duty



**4041-3071 DEL
Delay Action Cylinder
(CYLDEL)**

- Used for delayed action closing
- Non-handed
- Heavy duty

Covers



**4040XP-72
plastic cover (PC)**

- Non-handed
- Includes 4040XP-54 snap-on cover clip
- Redesigned patented snap-fit cover with improved retention fit



**4040XP-72MC
metal cover (MC)**

- Handed
- Required for plated finishes and custom powder coat finishes
- Optional

Arms



**4040XP-3077
Regular Arm (REGARM)**

- Non-handed
- Mounts pull side or top jamb with shallow reveal P4041 closer includes PA shoe, 4040XP-62PA required for parallel arm mounting



**4040XP-3077L
Long Arm (LONG)**

- Non-handed
- Includes long rod and shoe, 4040XP-79LR for top jamb mount
- Optional



**4040XP-3077ELR
Extra Long Arm (XLONG)**

- Non-handed
- Includes extra long rod and shoe, 4040XP-79ELR for top jamb mount with deep reveal
- Optional



**4040XP-3049
Hold Open Arm (H)**

- Non-handed
- Mounts pull side or top jamb with shallow reveal, hold open adjustable shoe
- 4040XP closer includes 4040XP-62PA shoe required for parallel arm mounting
- Optional



**4040XP-3049L
Hold Open Long Arm (HLONG)**

- Non-handed
- Includes long head and tube, 4040XP-3048L for top jamb mount
- Optional



**4040XP-3077EDA
Extra Duty Arm (EDA)**

- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations
- Optional



**4040XP-3049EDA
Hold Open Extra Duty Arm (HEDA)**

- Handed
- Parallel arm features forged, solid steel main and forearm for potentially abusive installations
- Hold open function is adjusted at the shoe
- Optional



**4040XP-3077EDA/62G
Extra Duty Arm with 62G Thick
Hub Shoe (EDAW62G)**

- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations
- 62G shoe provides additional blade stop clearance
- Optional



**4040XP-3049EDA/62G
Hold Open Extra Duty arm with 62G
Thick Hub Shoe (HEDA62G)**

- Handed
- Features forged, solid steel main and forearm for potentially abusive installations
- 62G shoe provides additional blade stop clearance; hold open function is adjusted at the shoe
- Optional



**4040XP-3077CNS
Cush-n-Stop Arm (CUSH)**

- Non-handed
- Features solid forged steel main arm and forearm with stop in soffit shoe.
- Optional



**4040XP-3049CNS
Hold Open Cush-n-Stop Arm
(HCUSH)**

- Non-handed
- Hold open function with templated stop/hold open points
- Handle controls hold open function
- Optional

41 • LCN • 4000 Series

Introduction

Product selection
guide

4010/4010T
Series

4020/4020T
Series

4030/4030T
Series

4040XP/4040XPT
Series

4050A/4050AT
Series

4110/4110T
Series

4000T
Series



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4040XP/4040XPT Series

Accessories

Arms (cont.)



- 4040XP-3077SCNS
Spring Cush-n-Stop Arm (SCUSH)**
- Non-handed
 - For potentially abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
 - Optional



- 4040XP-3049SCNS
Spring Hold Open Cush-n-Stop Arm (SHCUSH)**
- Non-handed
 - For potentially abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
 - Handle controls hold open function
 - Optional

Installation accessories



- 4040XP-18
Plate**
- Required for hinge side mount where top rail is less than 3 3/4" (95 mm)
 - Requires minimum 2" (51 mm) minimum top rail



- 4040XP-18G
Plate**
- Locates top jamb mounted closer flush with top of head frame face in flush ceiling condition
 - Requires 1 3/4" (44 mm) minimum head frame



- 4040XP-18TJ
Plate**
- Centers top jamb mounted closer vertically on head frame where face is less than 3 1/2" (89 mm). Plate requires 1 3/4" (44 mm) minimum head frame



- 4040XP-18PA
Plate**
- Required for parallel arm mounting where top rail is less than 5 1/2" (140 mm), measured from the stop
 - Requires 2" (51 mm) minimum top rail



- 4040XP-62PA
PA shoe**
- Required for parallel arm mounting



- 4040XP-30
CUSH shoe support**
- Provides anchorage for fifth screw used with CUSH arms, where reveal is less than 3 1/16" (78 mm)
 - Optional



- 4040XP-61
Blade stop spacer**
- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop
 - Optional



- 4040XP-419
PA flush panel adapter**
- Provides horizontal mounting surface for parallel arm shoe on single rabbeted or flush frame
 - Optional



- 4040XP-62A
Auxiliary shoe**
- Requires a top rail of 7" (178 mm)
 - Shoe replaces -62PA for parallel arm mounting of regular arm with overhead holder/stop
 - Optional



- 4040XP-54
Snap-on cover clip**
- Used to secure 4040XP-72 plastic cover to cylinder body

Deadbolt designs

B600 Series

Schlage's toughest heavy duty Grade 1 commercial deadbolt.

Furnished with conventional cylinder standard.

Also available with full size interchangeable core cylinder or small format interchangeable core (SFIC) cylinder.

Requires 2 1/8" (54mm) prep. UL10B and UL 10C listing standard for auxiliary lock on A label fire doors. Not all functions available as fire rated auxiliary locks. See function charts for required cross bore dimensions.



B700 Series

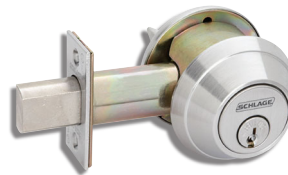
Same lock as B600 Series but furnished with Primus XP controlled access cylinder for patented key control, geographical exclusivity and resistance to picking and impressioning. Also available with Primus XP full size interchangeable core cylinder.



B800 Series

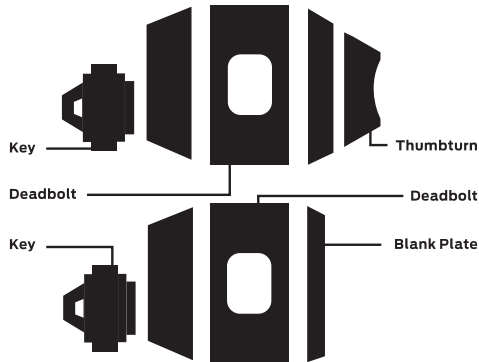
Same lock as B700 Series but Primus XP high security cylinder is UL437 listed to resist drilling and other forms of physical attack. Not available in interchangeable core.

All designs shown in 626 satin chrome



Deadbolt functions

ANSI A156.36 bored deadbolt locks grade 1



- Standard cylinder.
- FSIC - full size interchangeable core option.
- SFIC - small format interchangeable core option.
- Complies with ADA accessibility guidelines.

***Caution:**

Double cylinder locks on any door are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

ADA compliant:

Schlage Lock Company offers a wide selection of locks designed to meet the Americans with Disabilities Act.

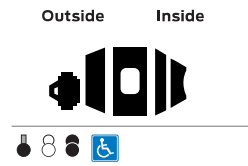
Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

B600 Series

Schlage ANSI
B660P E0151

Single cylinder deadbolt

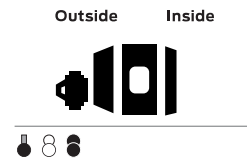
- Deadbolt thrown or retracted by key outside or thumbturn inside



Schlage ANSI
B661P E0161

One-way deadbolt

- Deadbolt thrown or retracted by key outside
- Blank plate with exposed screws inside

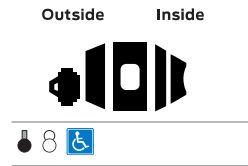


B700 Series

Schlage ANSI
B760P E0151

Single cylinder deadbolt

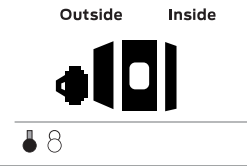
- Deadbolt thrown or retracted by key outside or thumbturn inside



Schlage ANSI
B761P E0161

One-way deadbolt

- Deadbolt thrown or retracted by key outside
- Blank plate with exposed screws inside

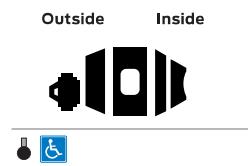


B800 Series

Schlage ANSI
B860P E0151

Single cylinder deadbolt

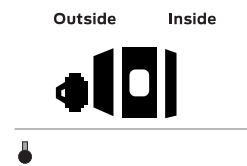
- Deadbolt thrown or retracted by key outside or thumbturn inside



Schlage ANSI
B861P E0161

One-way deadbolt

- Deadbolt thrown or retracted by key outside
- Blank plate with exposed screws inside



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Selection guide

Key features

Trims and finishes

Mechanical

Wired electrified

Wireless electronic

Keys and credentials

Parts

Specifications

The Schlage® ND Series cylindrical locks

Walter Schlage invented the cylindrical lock in 1920. Since then, Schlage Lock Company has consistently delivered innovation and continuous improvement. In that tradition, we are extremely proud to introduce the redesigned ND Series cylindrical lock.

Most manufacturers' approach to locks ends with simply meeting industry standards like Grade 1. With the Schlage ND, Grade 1 is just the beginning.

Performance beyond Grade 1

The Schlage® ND family significantly exceeds BHMA Grade 1 requirements for cycle, lever torque, hammer blow, lever pull and other tests. This means confidence that the lock will last—whether the application calls for high abuse resistance or just operation over millions of cycles—without any degradation in performance.

Comprehensive offering for every opening

Mechanical, wired electrified and wireless electronic solutions allow a common aesthetic and consistent user experience throughout the building while lowering the total cost of ownership.

World-class design

A proven, easy to install product with extensive function, keying, trim and finish capabilities that work in nearly any applications.



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Cylindrical lock comparison

ND mechanical



Applications

The Schlage ND is extremely versatile and is regularly used in healthcare, education, government, office, retail and other commercial applications.

With 31 mechanical functions, the ND's range spans from the simple (non-locking passage) to complex (double-cylinder security) to specialized (school time-out lock).

Because the ND uses an ANSI 161 door prep, commonly used across cylindrical locks, it is ideal for both new construction and retrofit applications.

Key features

- Significantly exceeds ANSI/BHMA A156.2 requirements for Grade 1 cylindrical locks
- 31 mechanical functions (see adjacent columns for wired electrified and electronic options)
- Nine lever designs, two rose designs
- 10 available finishes
- Supports standard, SFIC and FSIC cylinder formats
- Multiple key systems available – open, patented, restricted, geographic exclusive, UL437
- Support for 10 non-Schlage cores (see cylinder section)

¹ NDE wireless electronic lock available in seven lever designs, one rose design, and nine finishes only.
² Requires ENGAGE™ Gateway and alliance access control software.

ND wired electrified



Applications

Wired electrified locks complement the mechanical offering and are typically incorporated into a wired access control system or used independently with a remote access switch (e.g. switch behind a receptionist desk).

The electrified ND is ideally used in:

- high traffic areas, where line power ensures continuous operation
- new construction, where electrified door prep, hinges and wiring can easily be incorporated into the building

Key features

All mechanical features plus:

- auto-detecting 12-24VDC input
- selectable EL/EU operation
- low 0.23 amp max current draw that allows multiple locks on a single power supply
- low 0.010 amp holding current that eliminates “hot levers” in electrically locked applications
- modular Request to Exit (RX) that can be added at any time
- inventory friendly—one lock supports 12-24V, EL or EU, with or without RX
- six electrified functions for application flexibility

NDE wireless electronic



Applications

Wireless electronic locks complete the offering by delivering all of the access control system hardware components required at the door in a single integrated design.

NDE wireless lock applications include:

- retrofit applications where electronic credentials can be used for improved visibility and control
- new construction to expand the scope of access control to interior openings
- low to medium traffic areas, where battery power delivers long life

Key features

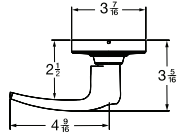
All mechanical features¹ plus:

- Fits standard ANSI 161L mechanical door prep
- Installs in minutes with only a Phillips screwdriver
- Integrated card reader, door position sensor and Request to Exit (RX) switch
- Built-in Bluetooth® enables wireless configuration from smart phones and tablets
- Built-in Wi-Fi enables automatic updates to access rights
- Capable of networked real-time communication²
- Up to 2 years of battery life (4 AA)

Designs and finishes

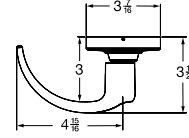
Lever designs and finishes

Athens (ATH)²



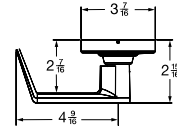
- Mechanical
- Wired electrified
- Wireless electronic

Sparta (SPA)^{1,2}



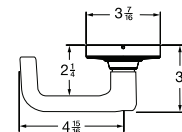
- Mechanical
- Wired electrified
- Wireless electronic

Rhodes (RHO)^{1,2}



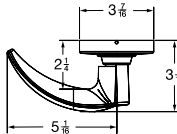
- Mechanical
- Wired electrified
- NDE wireless electronic

Tubular (TLR)^{1,2}



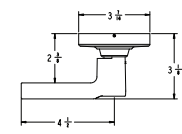
- Mechanical
- Wired electrified
- Wireless electronic

Omega (OME)¹



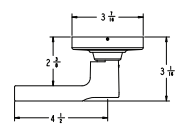
- Mechanical
- Wired electrified
- Wireless electronic

Latitude (LAT)



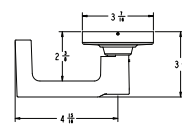
- Mechanical
- Wired electrified
- Wireless electronic

Broadway (BRW)



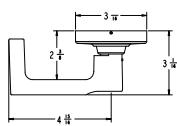
- Mechanical
- Wired electrified
- Wireless electronic

Longitude (LON)



- Mechanical
- Wired electrified
- Wireless electronic

Boardwalk (BWK)



- Mechanical
- Wired electrified
- Wireless electronic

All levers comply with the Americans with Disabilities Act (ADA).

- 1 Boardwalk, Longitude, Omega, Rhodes, Sparta and Tubular levers comply with California State code for return within 1/2" of door face.
- 2 Athens, Rhodes, Sparta and Tubular levers support cylinders from other manufacturers, see cylinder section on page 24 for details.

Finish options									
Color	Bright brass	Satin brass	Satin bronze	Oil rubbed bronze	Satin nickel	Matte black	Bright chrome	Satin chrome	Aged bronze
ANSI/BHMA number	605	606	612	613	619	622	625	626/626AM	643e
US number	US3	US4	US10	US10B	US15	US19	US26	US26D	US11
Mechanical	■	■	■	■	■	■	■	■	■
Wired electrified	■	■	■	■	■	■	■	■	■
Wireless electronic	■	■	■	—	■	■	■	■	■

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ND Series mechanical lock
Keyed function list

<p>Schlage ANSI ND50PD F82 Entrance/office lock</p> <ul style="list-style-type: none"> • Push-button locking. • Push-button locks outside lever until it is unlocked with key or by turning inside lever. • Inside lever always free for immediate egress. <p>Outside Inside</p> 	<p>Schlage ANSI ND53PD F109 Entrance lock</p> <ul style="list-style-type: none"> • Turn/push-button locking: Pushing and turning the button locks the outside lever, requiring use of a key until the button is manually unlocked. • Push-button locking: Pushing button locks outside lever until unlocked by key or by turning the inside lever. • Inside lever always free for immediate egress. <p>Outside Inside</p> 	<p>Schlage ANSI ND60PD F88 Vestibule lock</p> <ul style="list-style-type: none"> • Latch retracted by key from outside when outside lever is locked by key in inside lever. • Inside lever always free for immediate egress. <p>Outside Inside</p> 	<p>Schlage ANSI ND66PD F91 Store lock†</p> <ul style="list-style-type: none"> • Key in either lever locks or unlocks both levers. <p>Outside Inside</p> 
<p>Schlage ANSI ND70PD F84 Classroom lock</p> <ul style="list-style-type: none"> • Outside lever locked and unlocked by key. • Inside lever always free for immediate egress. <p>Outside Inside</p> 	<p>Schlage ANSI ND73PD F90 Corridor lock</p> <ul style="list-style-type: none"> • Locked or unlocked by key from outside. • Push-button locking from inside. • Turn inside lever or close door to release button. • When outside lever is locked by key it can only be unlocked by key. • Inside lever always free for immediate egress. <p>Outside Inside</p> 	<p>Schlage ANSI ND75PD - ND80PD F86 Classroom security lock - Storeroom lock</p> <ul style="list-style-type: none"> • Key in either lever locks or unlocks outside lever. • Inside lever always free for immediate egress. • Outside lever is fixed. • Entrance by key only. • Inside lever always free for immediate egress. <p>Outside Inside</p>  <p>Available with RX</p>	



ND Series

Grade 1 Cylindrical Locks

Mechanical | Wired Electrified | Wireless Electronic



Commercial.Schlage.com

CDH

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Oakville, L6H 5V1

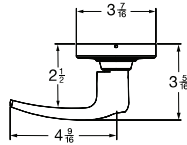
Milton District HS Reno 2026 HDSB

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Trims & Finishes

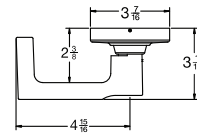
Lever Designs & Finishes

Athens (ATH)



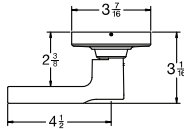
Cores KIL, FSIC, SFIC, L-CO, L-SA, J-CO6, J-ME, J-SA, J-YA6

Boardwalk (BRK)¹



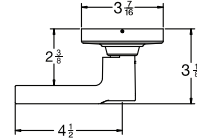
Cores KIL, FSIC, SFIC

Broadway (BRW)



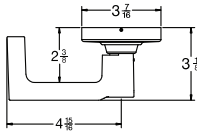
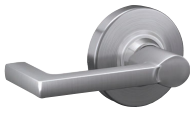
Cores KIL, FSIC, SFIC

Latitude (LAT)



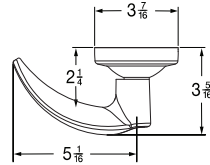
Cores KIL, FSIC, SFIC

Longitude (LON)¹



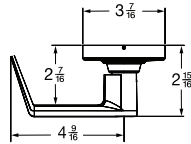
Cores KIL, FSIC, SFIC

Omega (OME)¹



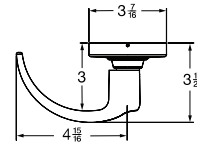
Cores KIL, FSIC, SFIC

Rhodes (RHO)¹



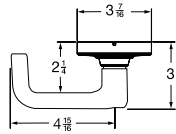
Cores KIL, FSIC, SFIC, L-CO, L-SA, J-CO6, J-CO7, J-ME, J-SA, J-YA6, J-YA7

Sparta (SPA)¹



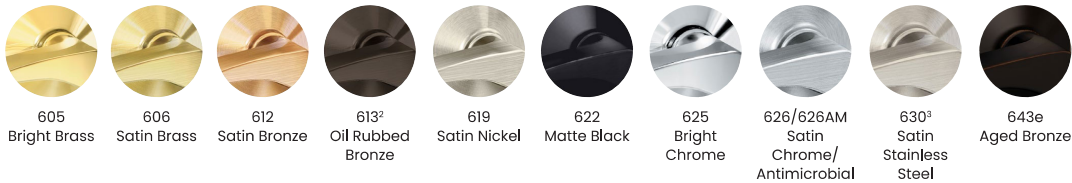
Cores KIL, FSIC, SFIC, L-CO, L-SA, J-CO6, J-ME, J-SA, J-YA6

Tubular (TLR)¹



Cores KIL, FSIC, SFIC, L-CO, L-SA, J-CO6, J-ME, J-SA, J-YA6

Finishes

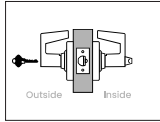


1. Boardwalk, Longitude, Omega, Rhodes, Sparta, and Tubular levers comply with California state code for return within 1/2" of door face. 2. NDE wireless electronic locks not available in 613 finish. 3. Available on HSLR trim only.

Mechanical Lock Functions

Keyed Functions

Schlage
ND53



Entrance lock

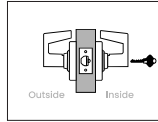
- Lever with key cylinder outside; push/turn button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button or pushing and turning button on inside lever; key outside does not lock
- **Pushed button unlocking:** key outside or rotating inside lever retracts latch and releases button unlocking outside lever
- **Pushed/turned button unlocking:** key outside or rotating inside lever retracts latch but does not unlock outside lever; rotate inside button to start position to allow button release and unlocking by key or by rotating inside lever
- Inside lever always free for immediate egress

Caution: Egress without fully releasing the push/turn button can result in lock-out situations.

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

ANSI
F109

Schlage
ND60 with XN12-001

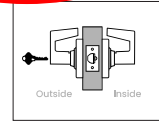


Vestibule lock with interior unlocking only

- Lever outside; lever with key cylinder inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is locked or unlocked by key inside
- Inside lever always free for immediate egress

To order, specify function and note XN12-001 as a special option.

ANSI Schlage
- ND70

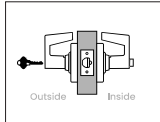


Classroom lock, exterior lockdown only

- Lever with key cylinder outside; lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is locked or unlocked by key outside
- Inside lever always free for immediate egress

ANSI
F84

Schlage
ND73

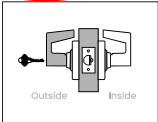


Corridor lock

- Lever with key cylinder outside; push button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button on inside lever or by key outside
- **When locked by pushed button:** rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lock-out
- **When locked by key:** rotating inside lever retracts latch but outside lever remains fixed until unlocked by key outside
- Inside lever always free for immediate egress

ANSI
F98

Schlage
ND80



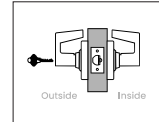
Storeroom lock

- Lever with key cylinder outside; lever inside; deadlatch
- Outside lever always fixed; latch retracted by inside lever
- Key in outside lever retracts latch only
- Inside lever always free for immediate egress

To order configured with Request to Exit (RX), specify RX under special options.

ANSI
F86

Schlage
ND81



Accessible storeroom lock

- Lever with key cylinder outside; lever inside; deadlatch
- Outside lever is always fixed when key is not present; latch retracted by inside lever
- Key outside turned counter-clockwise retracts latch; 180-degree clockwise rotation of key allows outside lever to retract latch
- Inside lever always free for immediate egress

To order configured with Request to Exit (RX), specify RX under special options.

ANSI
F86

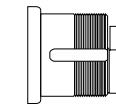
Conventional cylinders

Cylinders to use with rim, mortise exit and competitive devices

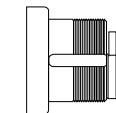
Security	Key mechanism	Pins	Patent protected keyway families	Schlage rim cylinders for exit devices			Schlage mortise cylinders for Von Duprin and other straight cam applications	
				Cylinder (horizontal tailpiece)	Cylinder (vertical tailpiece)	Lockout cylinder (horizontal tailpiece)	Cylinder with compression ring, spring and blocking ring	Cylinder with compression ring and spring
Basic security Open keyways	Standard pin and tumbler	6	— ¹	20-022	20-021	—	20-002	20-001
	Check pin	6	S (Everest 29)					
Enhanced security Restricted use	Check pin	6	T (Everest 29)	20-022	20-021	—	20-002	20-001
	SL	7	R (Everest 29)	91-075	91-074	—	91-052	91-051
Upgraded Security Primus level restricted use, geographic exclusivity, and independent sidebar	Legacy Primus	6	S, T (Everest 29)	20-710	20-709	20-716	20-703	20-700
	Primus RP	6	Obverse ¹ (Classic)	20-710-RP	20-709-RP	20-716-RP	20-703-RP	20-700-RP
	Primus XP	6	S, T (Everest 29)	20-710-XP	20-709-XP	20-716-XP	20-703-XP	20-700-XP
	Primus XP SL	7	R (Everest 29)	91-775-XP	91-774-XP	—	91-752-XP	91-751-XP
High security All Primus benefits plus added UL 437 physical security	Legacy Primus	6	S, T (Everest 29)	20-510	20-509	20-516	20-503	20-500
	Primus RP	6	Obverse ¹ (Classic)	20-510-RP	20-509-RP	20-516-RP	20-503-RP	20-500-RP
	Primus XP	6	S, T (Everest 29)	20-510-XP	20-509-XP	20-516-XP	20-503-XP	20-500-XP
	Primus XP SL	7	R (Everest 29)	91-575-XP	91-574-XP	—	91-562-XP	91-561-XP



Security	Key mechanism	Pins	Patent protected keyway families	Adams Rite ² MS, 4500 and 4700 Series; Lori 4500 Series and Corbin Russwin DL3000 Series deadlocks			Adams Rite ² 4070 deadbolt
				Cylinder only	Lockout function ³	Cylinder with 3/8" blocking ring	Cylinder only
Basic security Open Keyways	Standard pin and tumbler	6	— ¹	26-072	—	20-013	26-073
	Check pin	6	S (Everest 29)				
Enhanced security Restricted Use	Check pin	6	T (Everest 29)	26-072	—	20-013	26-073
	SL	7	R (Everest 29)	91-060	—	91-054	91-061
Upgraded security Primus level restricted use, geographic exclusivity, and independent sidebar	Legacy Primus	6	S, T (Everest 29)	—	20-718	20-706	20-708
	Primus RP	6	Obverse ¹ (Classic)	—	20-718-RP	20-706-RP	20-708-RP
	Primus XP	6	S, T (Everest 29)	—	20-718-XP	20-706-XP	20-708-XP
	Primus XP SL	7	R (Everest 29)	91-758-XP	—	91-755-XP	91-759-XP
High security All Primus benefits plus added UL 437 physical security	Legacy Primus	6	S, T (Everest 29)	—	20-518	20-506	20-508
	Primus RP	6	Obverse ¹ (Classic)	—	20-518-RP	20-506-RP	20-508-RP
	Primus XP	6	S, T (Everest 29)	—	20-518-XP	20-506-XP	20-508-XP
	Primus XP SL	7	R (Everest 29)	91-558-XP	—	91-555-XP	91-559-XP



Cylinder only



Cylinder with compression ring and spring (lockout function)

1. Out-of-patent keyways like Classic Obverse are available, Obverse, however, can gain patent protection in a Primus RP or XP cylinder, RP is recommended because patent coverage carries to 2029 versus 2024 for Primus XP.
 2. All cylinders include a set screw pack (B220-050) for Adams Rite locks.
 3. Includes cylinder, compression ring and spring. Lockout keys must be ordered separately and lockout cylinders will not be master keyed by Schlage.
 Note: 1 1/8" length standard. Optional lengths available in 1/8" (4mm) increments up to 1 3/4" (44mm).



Commercial Doors & Hardware Ltd.
 2150 Winston Park Drive, Unit 16
 Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

Submission Date: Mar 1/26

Mechanical options

Push pads

Dummy push pad



The 330 dummy pushpad is designed as a companion unit for all 33A devices. The 350 dummy pushpad is a companion unit for all 35A devices. The pushpad is rigid or nonfunctioning. A push/pull operation can be accomplished by using 386DT, 360L-DT, 550DT, 392-6 trim or any Ives pull.

The 330/350 can be equipped with a functional pushpad and will accommodate an RX switch. Specify RX-330. May also be equipped with the RX2, double RX switch. Specify RX2-330.

To order, specify:

1. 330 or 350
2. Size 3' or 4' (914mm or 1219mm)
3. Finish – 605, 606, 612, 625, 626, 628, 710 and 622/711 (630–350 only)

Safety glow (SG)



Self-illuminating touchpad defines the location of the exit door in dark or smoke-filled area. The Safety Glow coating is a special powder coat finish that glows brightly during low or no light conditions. This coating was developed to meet MEA standards where luminescent exit door markings are required in commercial facilities. There are no batteries or electronics, the coating is charged when exposed to light.

To order, specify: Suffix SG, EL 33A27A-SG

Red silk screen (RSS)



Red silkscreen lettering on touchpad trim. "Emergency Exit Only, Push To Open And Sound Alarm." This comes standard on SS devices.

To order, specify: Suffix RSS, 33A27L-RSS RHR

Braille, embossed and knurled touchpads



* Image shown is a special order.

Braille touchpad embossed with the standard message "CAUTION STAIRWELL" in braille and raised letters provides assistance to persons with impaired vision. Letters are 1/2" (13mm) high and braille is #2, raised height is 3/32" (2mm). Other messages are available on special order, limited to 20 characters per line.*

To order, specify: Suffix BR, EL33A27L-BR

Embossed touchpad is embossed with the word "PUSH".

To order, specify: Suffix EMB, EL33A27L-EMB

Knurled touchpad is to provide warning to persons with impaired vision.

To order, specify: Suffix PBKN, EL33A27L-PBKN

* Consult factory for availability.

Introduction

How to order

Device types

Trim options

Mechanical options

Electrified options

Accessories

Additional Information



CDH

Commercial Doors & Hardware Ltd.
2150 Winston Park Drive, Unit 16
Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

Submittal Date: Mar 1/26

Device types

98-F/99-F Rim exit device



98-F and 99-F Rim fire exit devices are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 69 for detailed information on UL fire exit hardware label and door opening size information. The 98-F device has a smooth mechanism case and the 99-F device has a grooved case. The rim device is non-handed except when the following device options are used: -2 (double cylinder) or SS (signal switch).

Specifications

Device functions	Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw from device
Device lengths	3' 2 1/4" to 3' (711mm to 914mm) Door size 4' 2 1/0" to 4' (864mm to 1219mm) Door size
Device centerline from finished floor	39 13/16" (1011mm) 39 11/16" (1008mm) with mullion
Center case	8" x 2 3/4" x 2 3/8" (203mm x 70mm x 60mm)
Mechanism case	2 1/4" x 2 1/4" (57mm x 57mm)
Projection	Pushbar neutral – 3 13/16" (97mm) Pushbar depressed – 3 1/16" (78mm)
Latch bolt	Deadlocking, 3/4" (19mm) throw
Finishes	605, 606, 612, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)
Fasteners and sex bolts (SNB)	Includes screw pack for 1 3/4" (44mm) and 2 1/4" (57mm) thick metal or wood doors; Optional 425 SNB available for metal doors; 425 and 825 SNB required on wood doors without SLM blocking (See page 66 for quantities)

Accessories



299F Strike
Ships standard, optional strikes available



499F Strike
With 9854/9954 mullion

Features and options

Electrified options

LX	Latch bolt monitor switch
RX	Request to exit
RX2	Double request to exit
E	Electric locking and unlocking trim
EL	Electric latch retraction
ESL	Emergency secure lockdown
QEL	Quiet electric latch retraction
SS	Signal switch
CX	Chexit delayed exit
ALK	Alarm exit kit
WP-RX	Waterproof request to exit
CON	Alliegion Connect

Mechanical options

-2	Double cylinder
-2SI	Double cylinder with security indicator
AX	Accessible device
GBK	Glass bead kit
PN	Pneumatic latch retraction
QM	Quiet mechanical
SNB	Sex bolts
SEC	Security screws
SLM	Special laminate material blocking
WH	Weep holes
XP	Extra protection

Dogging option

No mechanical dogging;
QEL options available

Strikes

299F – Dull black, 499F with mullions

Introduction

How to order

Device types

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Mechanical options

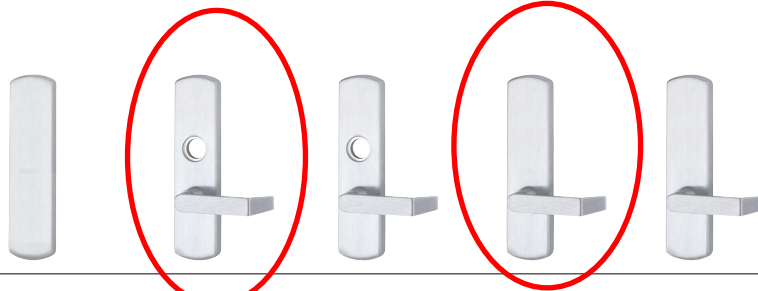
Electrified options

Accessories

Additional Information

Trim options

996 trim



Trim description

Nomenclature	996EO	996L*	996L-NL*	996L-BE*	996L-DT
Trim function	Exit only plate	Lever	Lever-night latch	Lever-blank escutcheon	Lever-dummy trim
Function description	Exit only plate	Key locks and unlocks	Key retracts latch bolt	Always operable, no cylinder	Pull when dogged
ANSI function	01	08	03	14	02

Device compatibility

98/99 Rim/Rim-F	■	■	■	■	■
XP98/XP99 Rim/Rim-F	■	■	■	■	■
98/9927/27-F	■	■	■	■	■
98/9947/47-F	■	■	■	■	■
98/9947WDC/WDC-F	■	■	■	■	■
98/9948/48-F	■	■	■	■	■
98/9949/49-F	■	■	■	■	■
98/9950WDC/50WDC-F	■	■	■	■	■
98/9952†	†	†	†	†	†
98/9957/57-F	■	■	■	■	■
98/9975/75-F	■	■	■	■	■

Dimensions

Escutcheon plate size	2 3/4" x 10 3/4" x 27/32" (70 x 273 x 21mm)				
Pull center to center	—				
Projection	—	2 7/8" (73mm)	2 7/8" (73mm)	2 7/8" (73mm)	2 7/8" (73mm)

Handing

—	Handed/reversible	Handed/reversible	Handed/reversible	Handed/reversible
---	-------------------	-------------------	-------------------	-------------------

Cylinder type

Rim or vertical device	—	Rim	Rim	—	—
Mortise lock device	—	1 1/4" mortise	1 1/4" mortise	—	—

* Specify R/V if used for rim and vertical devices, M for mortise device. Example, 996L-R/V or 996L-M.

† Default trim is 252L /L-BE. Must be ordered as EO when paired with other trims (ordered separately).

Mechanical options

Dogging options

Cylinder dogging (CD)

Cylinder dogging is available on all 98/99 Panic exit devices to replace the standard hex key dogging. Unit requires a standard 1 1/4" (32mm) mortise cylinder with an inverted straight cam. When ordering, reference Schlage cylinder 20-001, 1 1/4", XQ11-949. This provides the L583-477 cam inverted at the factory.

To order, specify: Use prefix, CD, example CD99L

Less dogging (LD)

Less dogging is available in all 98/99 Panic exit devices to remove the dogging option.

To order, specify: Use prefix LD, example LD99L

Special center case dogging (SD)

Special cylinder dogging in the center case is available for Chexit, EL, QEL, ALK panic devices to allow for mechanical push/pull operation. With this option, the latch bolt is held retracted and pushbar is still operable. Specify handing—RHR or LHR.

SD requires 1 1/4" (32mm) mortise cylinder with an inverted straight cam. When ordering, reference Schlage cylinder 20-001, 1 1/4", XQ11-949. This provides the L583-477 cam inverted at the factory.

Note: Available on rim and vertical panic exit devices only.

To order, specify:

1. Prefix SD, example SD99L and Handing.
2. Not for 98/9975 Devices.

Cylinder dogging kit* (CDK)

For field conversion, from hex key dogging, conversion kit is available.

To order, specify: 99CDK or 98CDK, specify finish.

*Cannot be added to fire exit hardware.



Hex key dogging kit* (HDK)

For field conversion, from cylinder dogging, conversion kit is available.

To order, specify: 99HDK or 98HDK, specify finish.

*Cannot be added to fire exit hardware.



Dog keys

Dog key (old style)

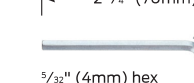
← 2 3/16" (56mm) →



7/32" (6mm) hex

Dog key (standard)

← 2 3/4" (70mm) →



5/32" (4mm) hex

Dogging indicator (CI/DI)

- Red indicator light blinks every 5 seconds when not dogged, visible from over 75 feet away
- Available in a hex or cylinder dogging format
- Designed for battery life over one year
- Available as a factory option or field retrofit kit
- Designed for device with mechanical dogging built after 1997

To order, specify:

As device option:

1. DI99EO 3' 630 (hex dogging)
2. CI98EO 4' 628 (cylinder dogging)

As retrofit kit:

1. DI Retrofit Kit 3' 662 (hex dogging)
2. CI Retrofit Kit 4' 613 (cylinder dogging)

Mullions

Removable steel mullions Mullions provide single door performance in double door openings with rim devices. Mullions are easily removed by loosening bottom set screw and removing top fitting cover. The top mullion fitting is attached to the frame and is concealed by the fitting cover.

Steel mullions are 2" (51mm) wide and 3" (76mm) deep, with a wall thickness of 1/8" (3mm).

Mullions are shipped with mounting screws and prepared for strikes. Strikes are not included except where indicated.

Steel mullions are available in SP28 and SP313 finishes. Consult factory for other powder coat finish options.

KR – Keyed removable steel mullions makes removal faster and easier by a single operation of the mortise cylinder. Once mullion is removed, large equipment or furniture can freely pass through the opening. The unit will self lock when re-installed, without use of the cylinder key. Uses a 1 1/4" mortise cylinder with a straight cam (Schlage cam reference B502-191). Cylinders are sold separately. Prefix mullion model with "KR".

Removable aluminum mullions are 1 1/16" (27mm) wide on face closest to the door and 2 3/8" (60mm) at the widest point. The depth is 3 1/8" (79mm) with a wall thickness of 1/8" (3mm).

Aluminum mullions are available in US4, US10, US28, 313 and 315 finishes. Consult factory for other powder coat finish options.

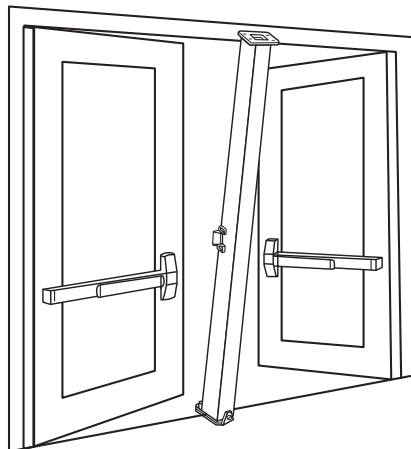
Stock hollow metal applications for devices mounted to cover ANSI 161 cutouts are higher than the standard mullion strike location. Consult the factory for special strike preparation or order a blank mullion. See below.

Blank mullions are furnished without strike preparation. They are used to mount devices at a strike height different from the standard mullion preparation.

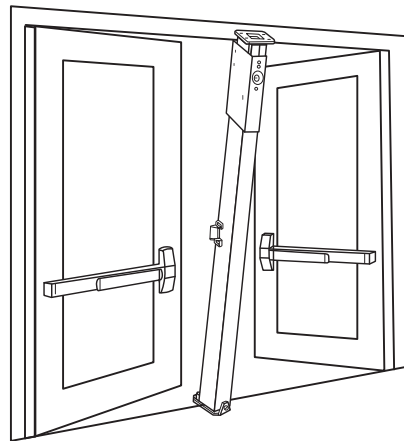
To order, specify:

1. For keyed removable option on steel mullions, prefix model number with "KR"
2. Model number
3. Height of opening
4. Finish
5. Handing if required
6. Centerline deviation (refer to device template for standard centerline)
7. Strikes, when required, should be ordered with device
8. For keyed Removable option on steel mullions, prefix model number with "KR"

Removable mullions



Keyed removable steel mullions



Mullions

Steel mullions

1654 Prepared for two 1606 strikes. If 1606 strikes are not specified on the order, two per mullion will be added. Additional charges apply.

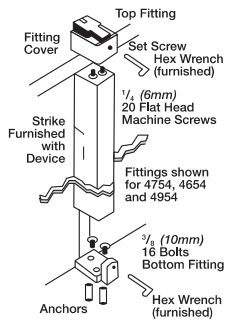
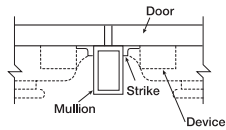
4954 Prepared for 264 or 299 strikes. For use with all Von Duprin Panic rim devices. **Note:** Specify strike choice with device.

9954 Prepared for and must be used with two 268 strikes (88-F device), or two 499F (22-F, 98-F, 99F devices). UL fire labeled mullion for up to 3 hour opening using Von Duprin fire exit rim devices. This mullion is not easily removed due to special fittings.

22-F and 88-F devices are rated up to 8' x 8" (2438mm x 2438mm).

98-F and 99-F devices are rated up to 10'0" (3048mm).

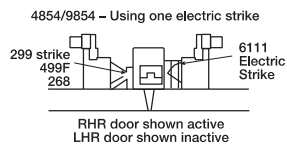
Note: If 268 or 499F strikes are not specified on the order, two per mullion will be added. Additional charges apply.



4754 Prepared for two 4263 monitor strikes.

4854 Prepared for one 299 and one 6111 electric strike. Indicate handing for electric strike.

9854 Prepared for one 268 or 499F strike and one 6111 electric strike. Indicate handing for electric strike. UL fire labelled mullion for up to 3 hour openings up to 8' x 8' (2438mm x 2438mm) using Von Duprin Fire Exit Rim Devices.



Aluminum mullions

5654 Prepared for two 264 or 299 strikes with weatherstripping. Includes one set of 154 stabilizers.

5754 Prepared and furnished with one 1408 double door strike. Includes one 154 stabilizer set. **Note:** specify device "less strike".

Sizes for mullions

1654, 4954, 4754, 4854, 5654 9854, 9954

7' 2" (2184mm)	7' 3" (2210mm)
*8' 2" (2489mm)	8' 3" (2475mm)
*10' 2" (3099mm)	10' 3" (3124mm)

KR1654, KR4954, KR4754, KR4854

7' 6" (2286mm)
8' 6" (2591mm)
10' 6" (3200mm)

KR9854, KR9954*****

7' 5" (2261mm)
*8' 5" (2565mm)
*10' 5" (3175mm)

* Only qualifying applications will be provided with UL Label.

** Fire rated same as 9854

*** Fire rated same as 9954

Angle plate is used with narrow transom frames. The plate attaches to the transom extending the surface area needed to mount the mullion. Must be ordered separately. Specify finish.



154 Stabilizer is a two-piece interlocking set. One piece mounts on the mullion with the top mounting hole 5 3/16" (148mm) below the centerline of the strike; the other piece mounts on the door. Shims are provided to adjust for misalignment between the door and mullion.

The set maintains integrity between the door and mullion to prevent vandalism and to ensure contact between the device and strike as the doors expand and contract with temperature changes.



Furnished standard on aluminum mullions; optional for steel and all blank steel mullions.

MT54 Storage kit is a set of floor and wall brackets that provide convenient storage of the keyed removable mullion when removed from the opening.

To order, specify

1. Model MT54
2. Finish SP28, SP313, or SPBLK

6200 Series strikes for mortise or cylindrical devices

Overview

Von Duprin electric strikes are known for their reliability, durability and security. The 6200 Series is designed to withstand abuse. Its heavy-duty stainless steel construction is fully UL1034 and UL10C listed.

6200 Series electric strikes are designed for use with a variety of mortise or cylindrical locksets. It interfaces with the latch mechanism of the exit device. The 6200 Series movable lip (keeper) allows a door to open, even when the latch bolt is extended. This feature, called remote release provides added benefits such as increased convenience and efficiency. The 6200 Series also provides added security and traffic control.

6200 Series electric strikes can be used for retrofit applications or new construction. To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown below. When using a lockset not listed or when retrofitting a strike to an existing application, please contact Von Duprin Technical Support for application assistance.

Features and benefits

- Non handed design provides greater flexibility
- Strike box is adjustable to compensate for misalignment of the door or frame
- Two piece plug connectors are furnished for ease of installation and for removal during strike servicing
- UL1034 Burglary-Resistant and UL10C Electric Strike for Fire Door
- Six finishes available to suite with existing hardware
- Durable stainless steel construction
- 24 VDC standard with 12 VDC and AC operation optional

6200 Series power requirements

Models	Voltage	Current	Duty	Amps	Ohms
All	12V	DC	Continuous	0,60	21
All	16V	DC	Continuous	0,40	38
All	24V	DC	Continuous	0,33	83
All	28V	DC	Continuous	0,25	111

Continuous duty = Energized 1 minute or more

Cylindrical lockset compatibility^{1,2,3}

6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 and 6226 Strikes

Manufacturer	Cylindrical latchbolt projection
Baldwin	1/2" - 3/4" (13mm - 19mm)
Best	3/8" - 3/4" (10mm - 19mm)
Corbin	1/2" - 3/4" (13mm - 19mm)
Falcon	1/2" - 3/4" (13mm - 19mm)
Russwin	1/2" - 3/4" (13mm - 19mm)
Sargent	1/2" - 3/4" (13mm - 19mm)
Schlage	3/8" - 3/4" (10mm - 19mm)
Yale	1/2" - 3/4" (13mm - 19mm)



Mortise lockset compatibility^{1,2,3}

6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 and 6226 Strikes

Manufacturer	Model number
Von Duprin	7500
Adams Rite	4510, 4710
Baldwin	6000
Best	24H, 30H
Corbin	9000
Falcon	M2300, M2500, M2600, M3300, M3500, M3600
Precision	Mortise
Russwin	Mortise
Sargent	7700, 8100, 9000
Schlage	L9000, K30, K40, K50, K60
Yale	7030, 7130, 8600, 8700

Mortise lockset compatibility^{1,3}

6210

Manufacturer	Model number
Von Duprin	7500
Best	30H (not 45H/47H)
Corbin/Russwin	ML2200, 5000, 9000, CR2200 (not 2000)
Falcon	M100, M200, M300, M400, M500, M600
Sargent	7700, 8100 (not 7800/8200)
Schlage	L9000
Yale	8700 (not 8800)

1. Von Duprin cannot guarantee compatibility as other manufacturer's designs may change without notice.
2. Signalling may not function when using 3/8" (10mm) throw bolt. Deadlocking cannot be guaranteed with all locks.
3. When using a lockset not listed or when retrofitting a strike to an existing application, please contact Von Duprin Technical Support for assistance.

6300 Series surface mounted strike for rim exit devices

Overview

Von Duprin electric strikes are known for their reliability, durability and security. The 6300 Series is designed to withstand abuse. Its heavy-duty stainless steel construction is fully UL1034 and UL10C Listed.

6300 Series electric strikes are designed for use with a variety of rim devices. It interfaces with the latch mechanism of the exit device. The movable lip (keeper) allows a door to open even when the latch bolt is extended. This feature, called remote release, provides added benefits such as increased convenience and efficiency. The 6300 Series also provides added security and traffic control.

6300 Series electric strikes are ideal for aftermarket applications. It is easy to install without modifying or altering the door frame. To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on the next page. When using a lockset not listed or when retrofitting a strike to an existing application, please contact Von Duprin technical support for application assistance.

The 6300 is fail-secure (FSE) only to achieve compliance with UL10C for fire-rated openings. In a fail-secure application, the door is normally locked. To unlock the door, power must be applied. The 6300 strike can be used with either 12VDC or 24VDC. There are 2 connectors that ship with it and the appropriate connector for either 12VDC or 24VDC will be used, based upon the available voltage at the opening.

Features and benefits

- Non-handed design provides greater flexibility
- Requires no alteration or cutting to existing frame
- UL1034 burglary-resistant and
- UL10C electric strike for fire door
- Stainless steel (satin) finish
- Durable stainless steel construction
- Field selectable voltage 12VDC or 24VDC
- Dynamic strength 70 ft-lbs
- Endurance 2,000,000 cycles

6300 Series power requirements

Model	Voltage	Current	Duty	Amps	Ohms
6300	12V	DC	Continuous	0.50	22
6300	24V	DC	Continuous	0.24	89



Rim exit device compatibility 6300 strikes

Manufacturer	Model Number
Von Duprin	VD 22/22-F Rim
Von Duprin	VD 33A/35A Rim*
Von Duprin	VD 55 Rim
Von Duprin	VD 88 Rim
Von Duprin	VD 98/99 and 98/99-F Rim
Falcon	Falcon 24/24-F Rim*
Falcon	Falcon 25/25-F Rim
Falcon	Falcon 19/19-F Rim
Falcon Doromatic	Falcon Doromatic 1590*
Falcon Doromatic	Falcon Doromatic 1790*
Falcon Doromatic	Falcon Doromatic 2090*

* Style and frame condition may affect compatibility.

Model specifications

Model number	6300
Retrofits model	N/A
Latchbolt throw	3/4"
Face plate length	9"
Projection	3/4"
Lockset	Rim exit device
Number of doors	Single or pair with mullion
Door/frame type	Hollow metal, aluminum and wood
EB (entry buzzer)	Optional
Certifications	UL1034, UL10C, UL 294, CSFM
Application notes	Surface mounted electric strike ideal for aftermarket applications. Strike designed for use with Von Duprin 98/99, however it can be used with most rim exit devices.

6300 Series surface mounted strike for rim exit devices

Von Duprin Door control and security hardware • 17



Commercial Doors & Hardware Ltd.
2150 Winston Park Drive, Unit 16
Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

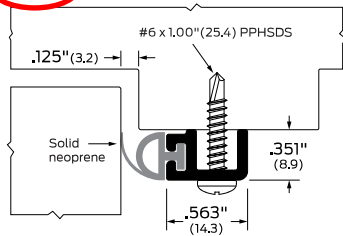
Submission Date: Mar 1/26

Perimeter seals

Head and jamb gasketing



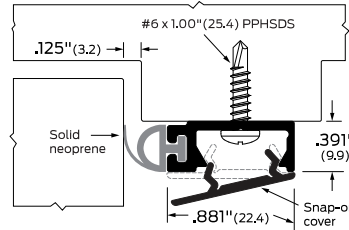
485



Finishes: AA, BK, D, G
Options: ZAG, S, SEC
ANSI/BHMA: 485AA, 485BK, 485D, 485G R3B164
BHMA CERTIFIED

ZAG option for mental health applications includes security screws. Extruded Bulb/Finger for double-sealing protection.

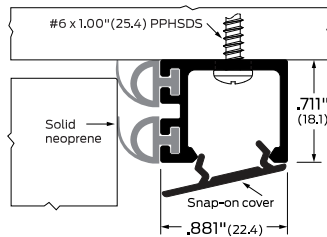
475



Finishes: AA, BK, D, G
Options: S, SEC
ANSI/BHMA: 475AA, 475BK, 475D, 475G R3B164
BHMA CERTIFIED

Extruded Bulb/Finger for double-sealing protection. Channel may be used for low-voltage wiring, subject to local building codes.

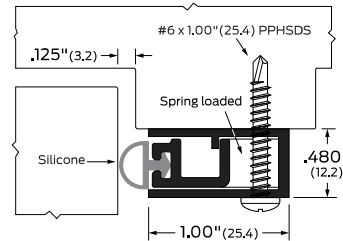
478



Finishes: AA, BK, D, G
Options: S, SEC
ANSI/BHMA: 478AA, 478BK, 478D, 478G R3B154
BHMA CERTIFIED

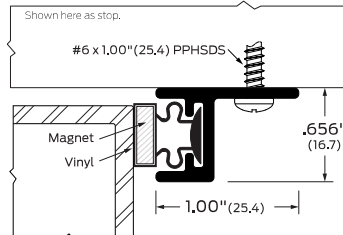
Extruded Bulb/Finger for double-sealing protection. Channel may be used for low-voltage wiring, subject to local building codes.

570



Finishes: AA, BK, D, G
Options: S, SEC
ANSI/BHMA: 570AA, 570BK, 570D, 570G R3E264
BHMA CERTIFIED

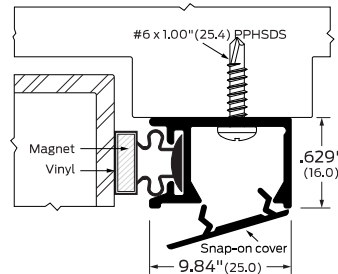
370



Finishes: A, BK, D, G
ANSI/BHMA: 370A, 370BK, 370D, 370G R3L155
BHMA CERTIFIED

Magnetic head & jamb gasketing. For use with interior metal doors only. Available to order as engineering special.

375



Finishes: A, BK, D, G
ANSI/BHMA: 375A, 375BK, 375D, 375G R3L155
BHMA CERTIFIED

Magnetic Head & Jamb Gasketing. For use with interior metal doors only. Available to order as engineering special.

See Perimeter seals Accessories & options page for details.

Finishes:

- A Aluminum mill finish
- AA Aluminum clear anodized
- BK Aluminum black anodized
- D Aluminum dark bronze anodized
- G Aluminum gold anodized
- B Bronze, architectural mill finish
- B-ORB Oil-rubbed aged bronze

Options:

- FLO Air flow/sound block
- PSA Pressure-sensitive adhesive
- ZAG Ligature resistant gasketing
- S Order as a set
- SEC Security screws

Note:



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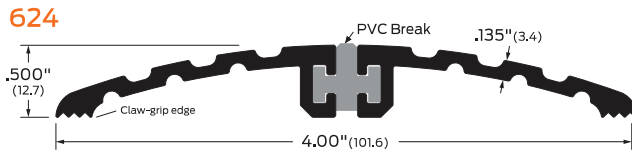
Submission Date: Mar 1/26

Thresholds

Thermal break thresholds

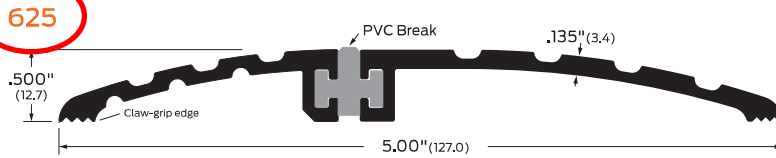


Automatic door bottoms



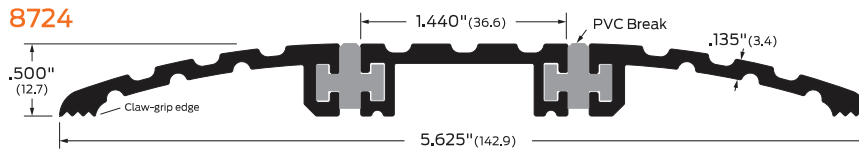
624
 Finishes: A, BK, D, G Options: E, EL, V3, EV3, ELV3 ANSI/BHMA: 624A, 624D, 624G, 624BK, 624A-E, 624D-E, 624G-D, 624BK-E J32139 J32239 **BHMA CERTIFIED**

Perimeter seals



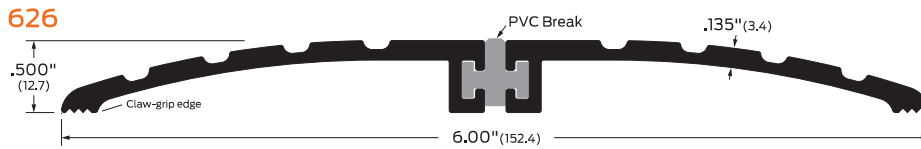
625
 Finishes: A, BK, D, G Options: E, EL, V3, EV3, ELV3 ANSI/BHMA: 625A, 625D, 625G, 625BK, 625A-E, 625D-E, 625G-D, 625BK-E J32139 J32239 **BHMA CERTIFIED**

Weatherstripping



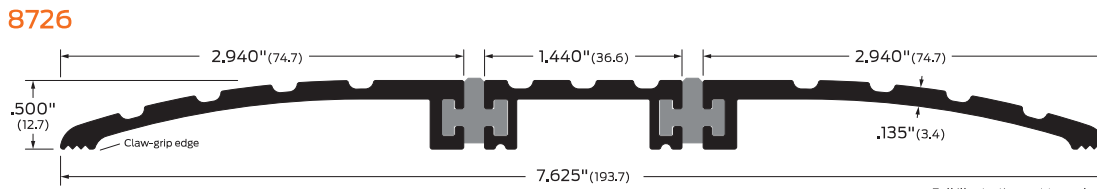
8724
 Finishes: A, BK, D, G Options: E, EL, V3, EV3, ELV3 ANSI/BHMA: 8724A, 8724D, 8724G, 8724BK, 8724A-E, 8724D-E, 8724G-E, 8724BK-E J32139 J32239 **BHMA CERTIFIED**

Intumescent



626
 Finishes: A, BK, D, G Options: E, EL, V3, EV3, ELV3 ANSI/BHMA: 626A, 626D, 626G, 626BK, 626A-E, 626D-E, 626G-E, 626BK-E J32139 J32239 **BHMA CERTIFIED**

Sound control



8726
 Finishes: A, BK, D, G Options: E, EL, V3, EV3, ELV3 ANSI/BHMA: 8726A, 8726D, 8726G, 8726BK, 8726A-E, 8726D-E, 8726G-E, 8726BK-E J32139 J32239 **BHMA CERTIFIED**

Full illustration not to scale

All items on this page:



See Thresholds Accessories & options page for details.

Finishes:	Options:
A Aluminum mill finish	E Epoxy abrasive tread
BK Aluminum black anodized	EL Photoluminescent and abrasive epoxy tread
D Aluminum dark bronze anodized	V3 Full body strength fill
G Aluminum gold anodized	EV3 Epoxy and full body strength fill
B Bronze, architectural mill finish	ELV3 Photoluminescent and abrasive epoxy tread, full body strength fill
B-ORB Oil-rubbed bronze	

Note:
 Special anchors available for mounting most thresholds on concrete surfaces.
 Width dimensions for thresholds on this page are nominal. Slight variations may result from thermal break manufacturing.

Specialty applications

Appendix



Commercial Doors & Hardware Ltd.
 2150 Winston Park Drive, Unit 16
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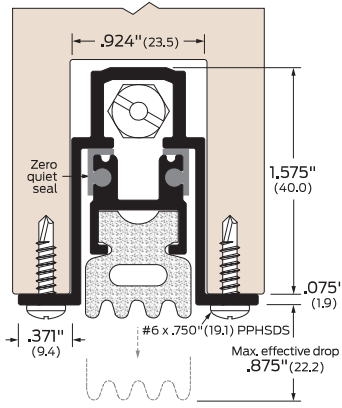
Milton District HS Reno 2026 HDSB

Submission Date: Mar 1/26



Automatic door bottoms
Heavy duty

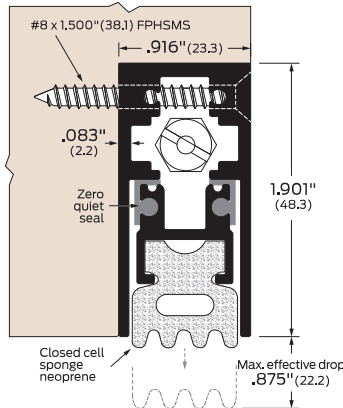
360



Finish: AA
Options: LS, Z49, End Cap, PL
ANSI/BHMA: 360AA R3C3241

Mortised. Supplied with closed cell sponge neoprene. Note: Consult your local AHJ for maximum allowable door undercut.

362

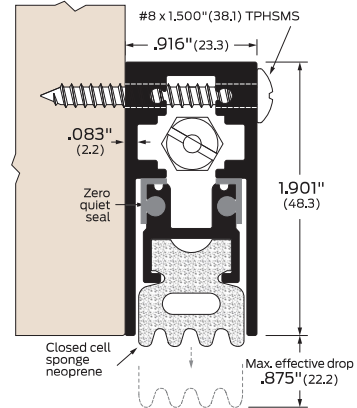


Finishes: AA, BK, D, G
Options: LS, PL, SEC, LK
ANSI/BHMA: 362AA, 362BK, 362D, 362G R3B3441

Semi-mortised applications. Supplied with closed cell sponge neoprene. Note: Consult your local AHJ for maximum allowable door undercut.



361

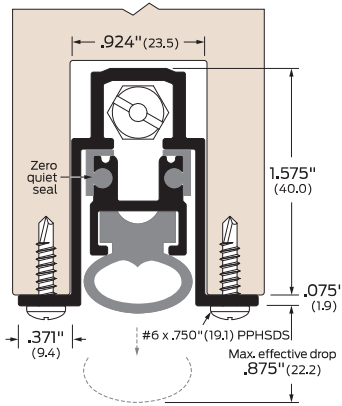


Finishes: AA, BK, D, G
Options: LS, PL, LK, SEC
ANSI/BHMA: 361AA, 361BK, 361D, 361G R3C3341

Surface-mounted applications. Supplied with closed cell sponge neoprene.



364

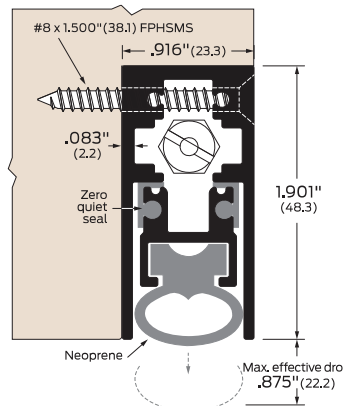


Finish: AA
Options: LS, Z49, End Cap, PL
ANSI/BHMA: 364AA R3B3241

Mortised. Supplied with solid neoprene extrusion. Note: consult your local AHJ for maximum allowable door undercut.



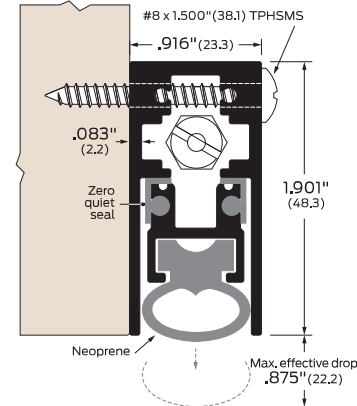
366



Finishes: AA, BK, D, G
Options: LS, PL, SEC, LK
ANSI/BHMA: 366AA, 366BK, 366D, 366G R3B3441

Semi-mortised applications. Supplied with solid neoprene extrusion. Note: Consult your local AHJ for maximum allowable door undercut.

365



Finishes: AA, BK, D, G
Options: LS, PL, SEC, LK
ANSI/BHMA: 365AA, 365BK, 365D, 365G R3B3341

Surface-mounted applications. Supplied with solid neoprene extrusion.



All items on this page:



See ADB Accessories & options page for details.

Finishes:	Options:	Note:
AA Aluminum clear anodized	LS Light spring	Maximum order length is 60" unless noted otherwise.
BK Aluminum black anodized	Z49 Removable end cap	Lengths 10" - 18" available only with light spring drop mechanism.
D Aluminum dark bronze anodized	PL Pull out	Not recommended for maximum drop greater than .500".
G Aluminum gold anodized	SEC Torx security screws	Except where noted, all models on this page are shipped in standard LH/RHR configuration with locking screw concealed (facing the door). Handing is reversible.
	LK Locking key	

Thresholds

Automatic door bottoms

Perimeter seals

Weatherstripping

Intumescent

Sound control

Specialty applications

Appendix



Commercial Doors & Hardware Ltd.
2150 Winston Park Drive, Unit 16
Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

Submission Date: Mar 1/26

Thresholds

Automatic door bottoms

Perimeter seals

Weatherstripping

Intumescent

Sound control

Specialty applications

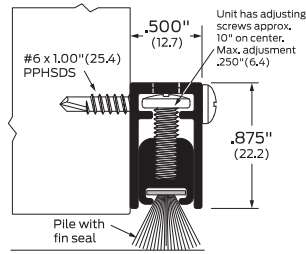
Appendix

Perimeter seals

Door sweeps



871

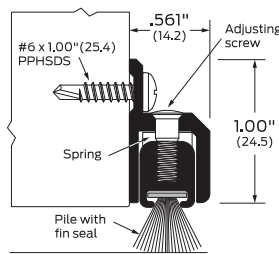


Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 871AA, 871BK, 871D, 871G R3F434

Adjustable



255

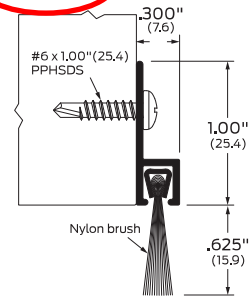


Finishes: AA, BK, D, G Option: SEC ANSI/BHMA: 255AA, 255BK, 255D, 255G R3F434

Adjustable



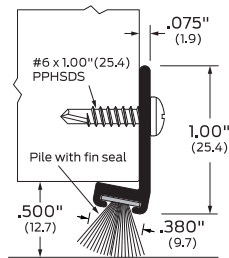
8192



Finishes: AA, BK, D, G Options: PSA, SEC ANSI/BHMA: 8192AA, 8192BK, 8192D, 8192G R3A436



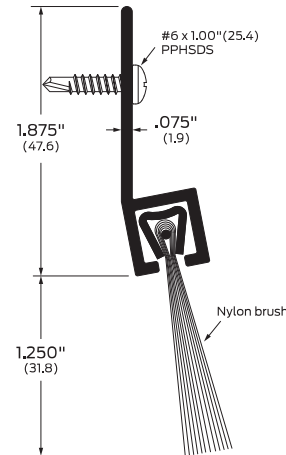
98



Finishes: A, BK, D, G Options: PSA, S, SEC ANSI/BHMA: 98A, 98BK, 98D, 98G R3F436



96



Finishes: A, BK, D, G Option: SEC ANSI/BHMA: 96A, 96BK, 96D, 96G R3A436

Suitable for mixed-use commercial, hospitality, multi-family, as well as sliding barn doors.

All items on this page:



See Perimeter seals Accessories & options page for details.

Finishes:

- A Aluminum mill finish
- AA Aluminum clear anodized
- BK Aluminum black anodized
- D Aluminum dark bronze anodized
- G Aluminum gold anodized

Options:

- PSA Pressure-sensitive adhesive
- S Order as a set
- SEC Security screws

Note:

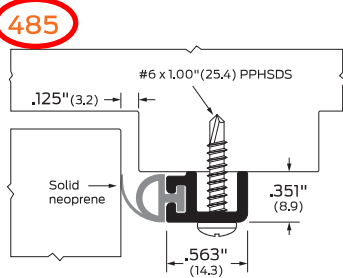


Commercial Doors & Hardware Ltd.
2150 Winston Park Drive, Unit 16
Oakville, L6H 5V1

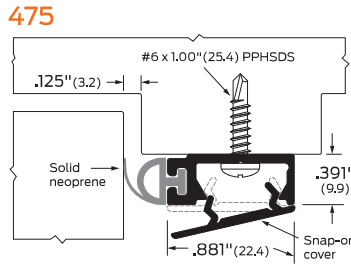
Milton District HS Reno 2026 HDSB

Submission Date: Mar 1/26

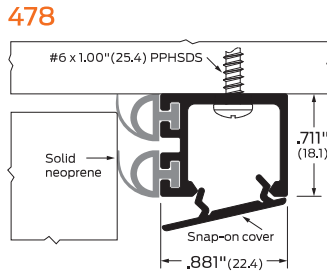
Perimeter seals Head and jamb gasketing



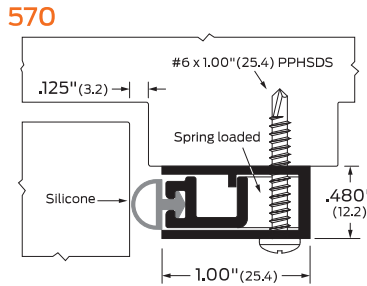
485
Finishes: AA, BK, D, G
Options: ZAG, S, SEC
ANSI/BHMA: 485AA, 485BK, 485D, 485G
R3B164
 ZAG option for mental health applications includes Extruded Bulb/Finger for double-sealing protection.



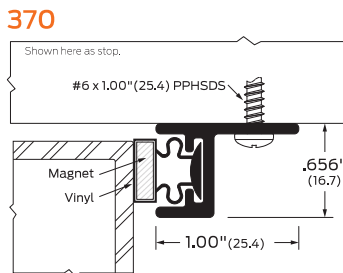
475
Finishes: AA, BK, D, G
Options: S, SEC
ANSI/BHMA: 475AA, 475BK, 475D, 475G
R3B164
 Neoprene extruded bulb/finger for secure seal. Subject to local building codes.



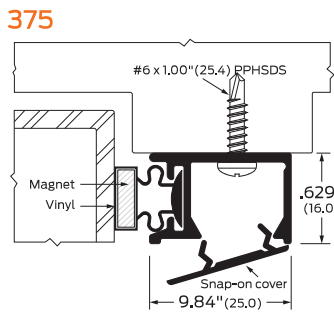
478
Finishes: AA, BK, D, G
Options: S, SEC
ANSI/BHMA: 478AA, 478BK, 478D, 478G
R3B154
 Neoprene extruded bulb/finger for secure seal. Subject to local building codes.



570
Finishes: AA, BK, D, G
Options: S, SEC
ANSI/BHMA: 570AA, 570BK, 570D, 570G
R3E164



370
Finishes: A, BK, D, G
Options: 370A, 370BK, 370D, 370G
ANSI/BHMA: 370A, 370BK, 370D, 370G
R3L155
 Magnetic head and jamb gasketing. For use with interior metal doors only. Available to order as engineering special.



375
Finishes: AA, BK, D, G
Options: 375AA, 375BK, 375D, 375G
ANSI/BHMA: 375AA, 375BK, 375D, 375G
R3L165
 Magnetic head and jamb gasketing. For use with interior metal doors only. Available to order as engineering special.



All items on this page:



See Perimeter seals Accessories & options page for details.

Finishes:	Options:	Note:
A Aluminum mill finish	ZAG Ligature resistant gasketing	
AA Aluminum clear anodized	S Order as a set	
BK Aluminum black anodized	SEC Security screws	
D Aluminum dark bronze anodized		
G Aluminum gold anodized		



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 Oakville, L6H 5V1

Milton District HS Reno 2026 HDSB

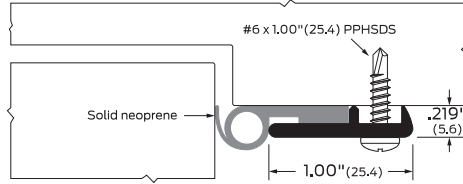
Submission Date: Mar 1/26

Perimeter seals

Head and jamb gasketing



326

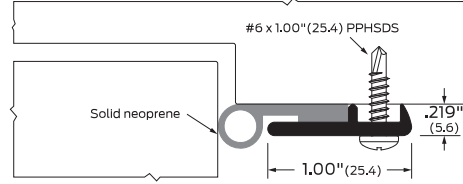


Finishes: AA, BK, D, G, B, B-ORB
Options: ZAG, S, SEC
ANSI/BHMA: 326AA, 326BK, 326D, 326G, 326B
R3B164
R1B164



Neoprene extruded bulb/finger for secure seal.

328

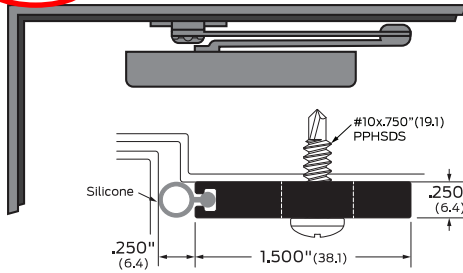


Finishes: AA, BK, D, G, B, B-ORB
Options: ZAG, S, SEC
ANSI/BHMA: 328AA, 328BK, 328D, 328G, 328B
R3B164
R1B164



ZAG option for mental health applications includes security screws

429

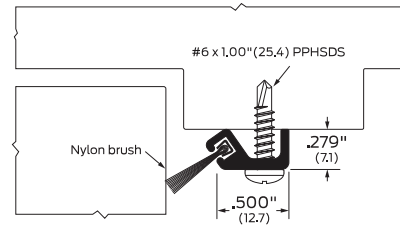


Finishes: AA, BK, D, G
Options: S, SEC
ANSI/BHMA: 429AA, 429BK, 429D, 429G
R3E164



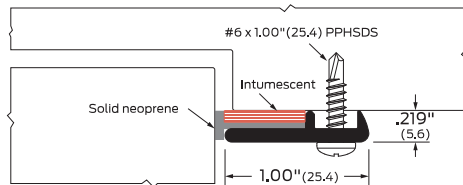
Gasketing protection for closer bracket or door coordinator.

8305



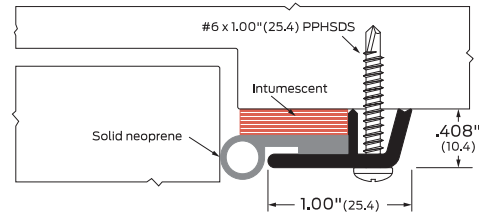
Finishes: AA, BK, D, G
Options: S, SEC
ANSI/BHMA: 8305AA, 8305BK, 8305D, 8305G
R3A166

302FS



Finishes: AA, BK, D, G, B
Options: S, SEC
ANSI/BHMA: 302FS-AA, 302FS-BK, 302FS-D, 302FS-G
R3R164

328FS



Finishes: AA, BK, D, G
Options: S, SEC
ANSI/BHMA: 328FS-AA, 328FS-BK, 328FS-D, 328FS-G
R3R164



See Perimeter seals Accessories & options page for details.

Finishes:	Options:
AA Aluminum clear anodized	ZAG Ligature resistant gasketing
BK Aluminum black anodized	S Order as a set
D Aluminum dark bronze anodized	SEC Security screws
G Aluminum gold anodized	

Note:
 All items on this page:



Commercial Doors & Hardware Ltd.
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Submittal Date: Mar 1/26

Thresholds

Weatherstripping

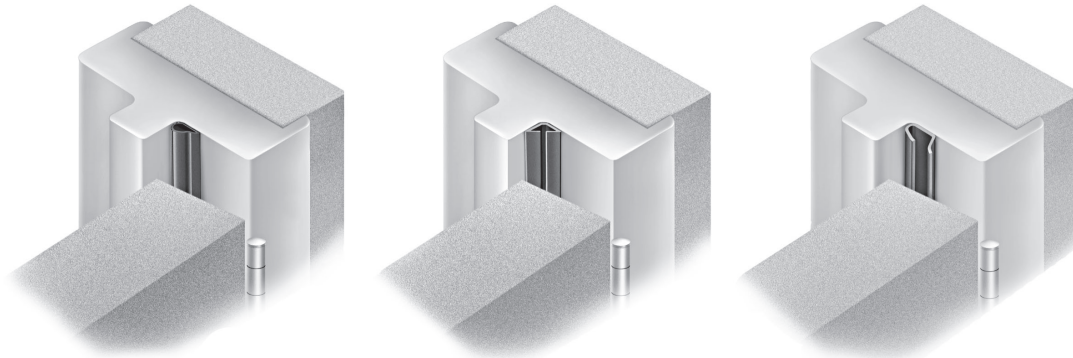
Self-adhesive weatherstripping

Solid neoprene and silicone seals



Automatic door bottoms

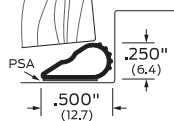
Perimeter seals



Weatherstripping

188 / 488

188S/188FS/188BIO



Material/ Finishes: Options: ANSI/BHMA:

S: BK, BR, CL, GY, WH ZAG 188S

FS: BK ZAG ROE151

BIO: BR ZAG 188FS

ROU154

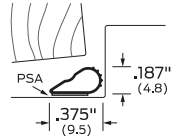
S: PSA standard.

FS: Intumescent rubber for fire and smoke protection, PSA standard.

BIO: BioWall antimicrobial rubber, PSA standard.



488S/488FS/488BIO



Material/ Finishes: Options: ANSI/BHMA:

S: BK, BR, CL, GY, WH ZAG 488S

FS: BK ZAG ROE154

BIO: BR ZAG 488FS

ROU154

S: PSA standard.

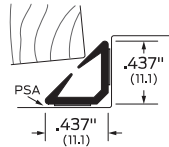
FS: Intumescent rubber for fire and smoke protection, PSA standard.

BIO: BioWall antimicrobial rubber, PSA standard.



8144

8144S/8144FS



Finishes: Options: ANSI/BHMA:

S: BK ZAG 8144S

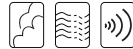
FS: BK ZAG ROE154

8144FS

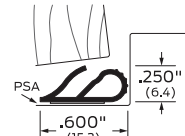
ROU154

S: PSA standard.

FS: Intumescent rubber for fire and smoke protection, PSA standard.



8145S



Finish: Option: ANSI/BHMA:

BK ZAG 8145S

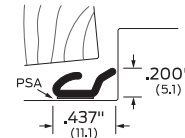
ROE154

PSA standard.



8042

8042S



Finish: Option: ANSI/BHMA:

BK ZAG 8042S

ROE154

PSA standard.



Intumescent

Sound control

Specialty applications

Appendix

All items on this page:



See Weatherstripping Accessories & options page for details.

Finishes: Option:

BK Black ZAG Ligature-resistant gasketing

BR Brown

CL Clear

GY Gray

WH White

B Architectural mill finish bronze



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Thresholds

Solutions and specialty products Finger guards



Automatic door bottoms

Finger guards

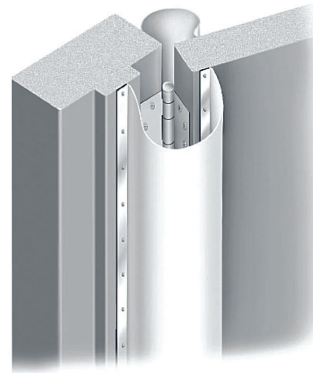
Hand and finger protection for heavy-duty industrial applications, child care, school safety, hospitals, and workplaces.

A commercial-quality, maintenance-free product. Aluminum and flexible rubber available in grey color.

51A-90 (6.5" wide) For door opening up to 90°

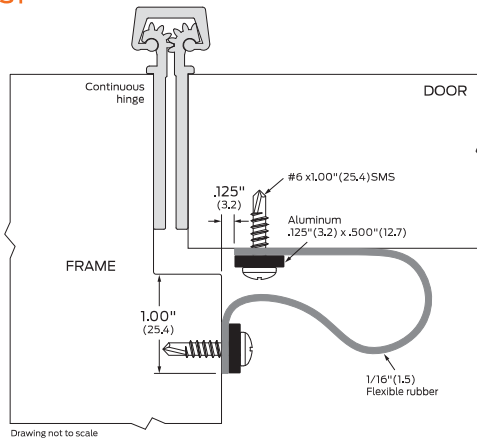
51A-180 (8.5" wide) For door opening up to 180°

951 Cover for mortise type hinges



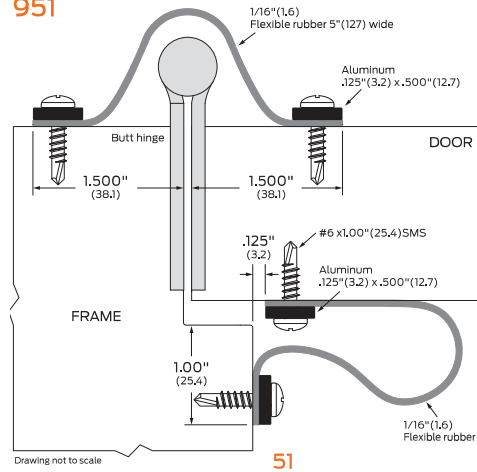
Perimeter seals

51



Finishes: A, BK, D, G Option: SEC Opening degree: 90, 180

951

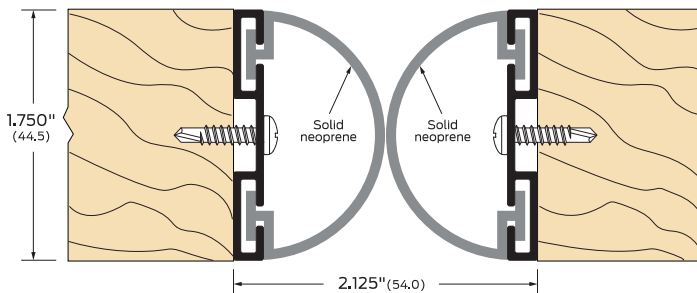


Finishes: A, BK, D, G Option: SEC

Weatherstripping

Intumescent

72



Finishes: A Option: SEC



Specialty applications

Appendix

- | | |
|--|---------------------------------|
| Finishes: | Option: |
| A Aluminum Mill Finish | SEC Torx security screws |
| BK Black Anodized Aluminum | |
| D Dark Bronze Anodized Aluminum | |
| G Gold Anodized Aluminum | |



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CC-998



FEATURES

- 300 lbs. [136 kg] weight capacity
- Effortless opening and closing of the door with the Catch 'N' Close Closing System (for doors wider than 20 in [508 mm])
- Easy Connect Hanger System for easy installation
- Nylon wheels and precision ball bearings provide smooth and quiet door operation
- Adjustable in-track stops
- Cycle tested for up to 150,000 cycles without fail
- ADA Compliant (Barrier-free) design
- Anodized or powder-coated finishes also available

COMPLETE 1 DOOR KIT BREAKDOWN



1 - CC-904 Top Mount Track
x length based on kit size (e.g. 72 in [1829 mm] kit for 36 in [914 mm] wide door)



2 - CC-998 Heavy-Duty Easy Connect Catch 'N' Close Hangers
complete with screws and adjustment tools



2 - CC-101HD Catch 'N' Close In-Track Stops
complete with set screws for friction fit



2 - Catch 'N' Close Closing Devices
complete with screws
CC-2 for doors up to 200 lbs. [91 kg]
CC-3 for doors up to 300 lbs. [136 kg]



1 - C-914 Aluminum Guide Channel
x length based on kit size (e.g. 36 in [914 mm] guide channel for 72 in [1829 mm] kit)

1 - C-913 Floor Guide
complete with screws

OPTIONAL

Door Locks & Pulls



Add-On Products



CC-940 Fascia
x track length



CC-941 End Cap Pair
Complete with screws
For use with CC-404 track only, no fascia



CC-942 End Cap Pair
Complete with screws
For use with CC-904 track, 1 fascia only



CC-943 End Cap Pair
Complete with screws
For use with CC-904 track, 2 fascias only

Customer Name

Job No./Name

Date

Provided By

Notes

KN Crowder

1220 Burloak Drive, Burlington, Ontario, Canada, L7L 6B3
T. 1-866-999-1562 customerservice@kncrowder.com kncrowder.com
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CDH

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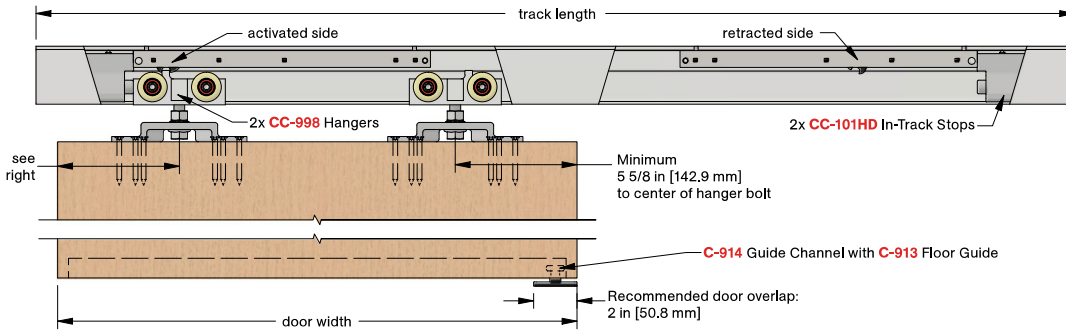
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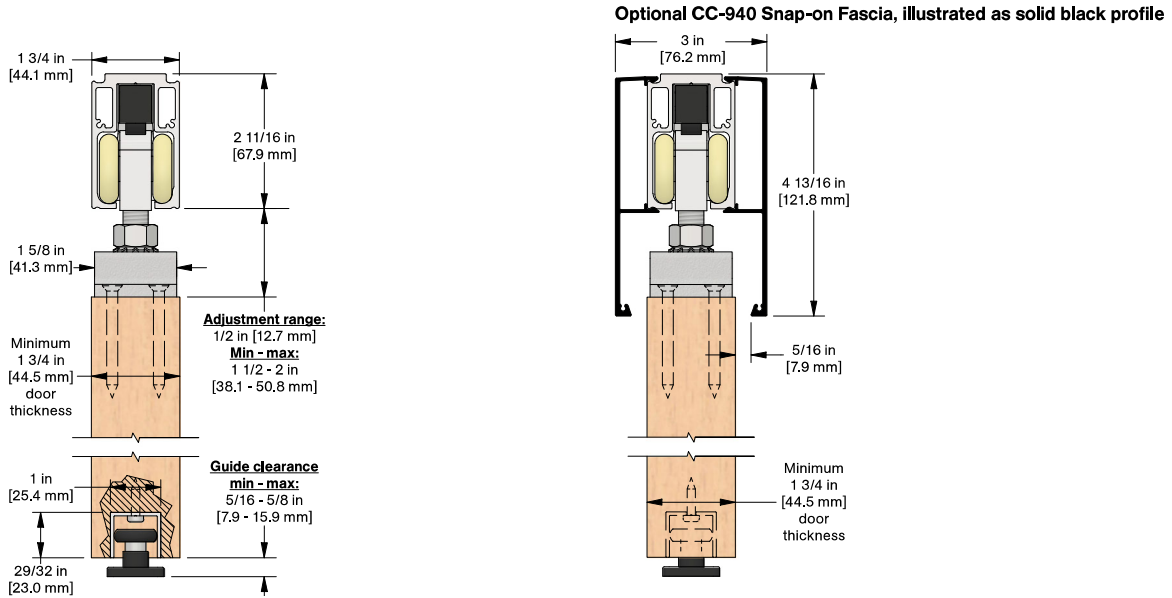
CC-998



COMPLETE ELEVATION VIEW



PRODUCT DIMENSIONS



Installation
Instructions



Customer Name _____ Job No./Name _____ Date _____ Provided By _____

Notes

KN Crowder

1220 Burloak Drive, Burlington, Ontario, Canada, L7L 6B3
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GT710/8710

Low-Energy
ADA Swing Door Operator
Where SOLUTIONS are AUTOMATIC



Product Features and Benefits

- Hydraulic design offers **proven reliability**
- Adjustable closing speeds to **enhance energy savings**
- Manual mode requires very little pressure to open **promoting ease of operation**
- Approved on fire door assemblies rated up to 3 hours, **maintaining security and safety**
- Hydraulic back-check during windy conditions **protects the door and operator from damage**

CDH

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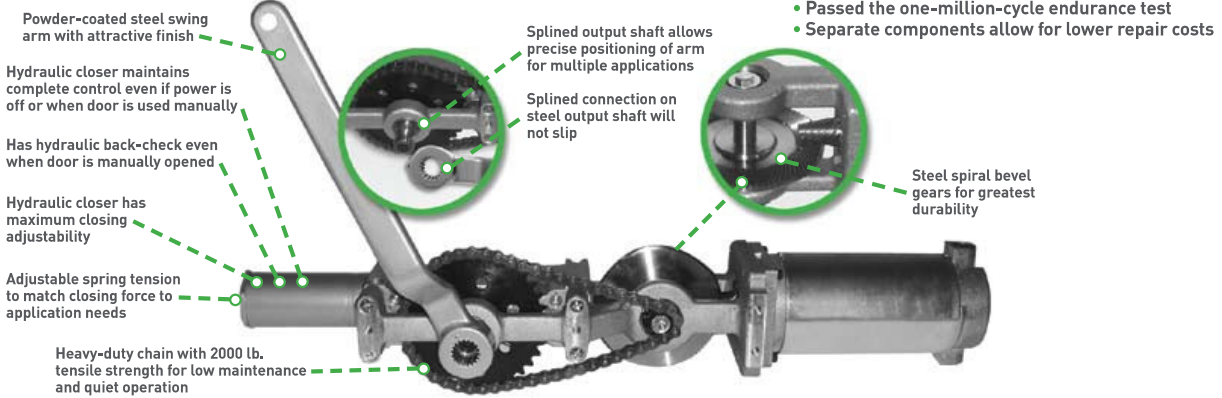
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Submittal Date: Mar 1/26

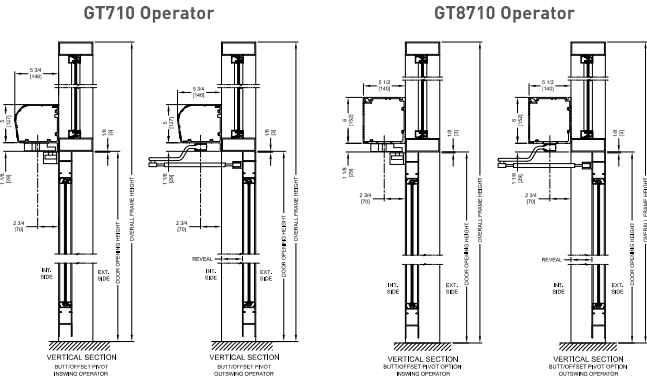


GT710/8710 Low-Energy ADA Swing Door Operator

The NABCO GT710/8710 Low-Energy Operator is engineered for interior and exterior use, and designed to automate essentially any new or existing door frame. The GT710/8710 operates in both automatic and manual modes with a hydraulic back-check that protects the door and mechanical operator from damage when forced open in windy conditions or when manually operated. The GT710/8710 Operator has been approved for use on fire door assemblies rated up to 3 hours. The low-energy performance, combined with the adjustable opening and closing speeds, reduces energy consumed, which offers a prompt return on your investment.



PRODUCT INFORMATION	
Header dimensions	Side load - 5" H X 5 3/4" D [GT710] curved header Side load - 6" H X 5 1/2" D [GT8710]
Standard finish	Clear and dark bronze anodized
Optional finishes	Painted, clad, special anodized
Mounting	Surface applied or overhead concealed
Installation types	Push or pull
Operating voltage	120 VAC @ <5 amps
Auxiliary power output	12VDC 750mA
Operator drive	Electro-hydraulic
Motor voltage	Pulse width modulated
Motor type	1/8th HP @ peak
Control type	Microprocessor
Door panel weight	300 lbs.
Adjustable open	Force and speed
Adjustable close	Force and speed
Closing method	Spring/hydraulic (with selectable power assist)
Adjustable opening angle	Up to 145°
Power boost close	Selectable
Basic features	Low-energy operation Push and go Obstacle detection in opening and closing cycles Sequential or timer mode operation LCD display for programming and diagnostics Open- or closed-circuit safety inputs Momentary or maintained activation
Switch modes	On, off, hold-open
Opening and closing speed	Adjustable
Hold-open time	Adjustable (0-30 seconds)
Code compliances	ANSI A156.19/ANSI A117.1
Approvals	UL, ULC



CONFIGURATIONS:
The GT710/8710 is available for multiple configurations, such as single doors, simultaneous pairs, and dual-egress, as well as the Opman configuration, which is a single continuous header for a pair of doors containing a manual closer on one side and an automatic operator on the other.

NABCO Service and Specifications

Along with the NABCO factory branches, NABCO has the largest independently owned network of automatic door distributors in North America. Their friendly, qualified installers and technicians always strive to exceed your expectations from install to after-sales service. NABCO's factory branches and independent distributors provide AAADM-certified technicians to ensure your doors meet all ANSI A156.10/A156.19 standards.

Complete three-part specifications and CAD drawings are available on the NABCO website.



Member of the Nabtesco Group

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