

SUBMITTAL FORM

Submittal No: 25-08710-01

Date submitted by Contractor to A/E: 03/25/2021

CONTRACTOR'S SUBMITTAL: (Submit items from only one section of Specifications at a time on this form.)

PROJECT Sylvania Heights Elementary - GOB Project MDCPS Project No: 01885800

Specification Section: 08710 Section Title: Hardware

Description of item: Hardware

Name of Producer: Quality Engineered Products - Multiple Manufactures Submitted.

Name of Subcontractor: JRT Construction, Co.

Contractor's Certification: This submittal complies with the Construction Documents and has been coordinated with the rest of the Work

This submittal is a proposed Substitution (Substitution Request Form must be submitted to the A/E for Board Approval)


Signature of Contractor's officer

Carlos R. Tarafa
Print name of Contractor's officer

03/25/2021
Date

Project Manager
Officer's title

J.R.T. Construction, Co.
Contractor's firm name

ACTION SUBMITTALS

	Quantity	Submittal (require approval or other action)
Product data attached	<u>1</u>	<u>Reviewed</u>
Shop drawings attached	<u>0</u>	<u>N/A</u>
Accompanying sample(s)	<u>0</u>	<u>N/A</u>
Design or calculations	<u>0</u>	<u>N/A</u>
Statement of qualifications	<u>0</u>	<u>N/A</u>
Warranty Sample	<u>0</u>	<u>N/A</u>
Other item(s)	<u>0</u>	<u>N/A</u>

SHOP DRAWING REVIEW
J.R.T. CONSTRUCTION, CO.
THIS WILL CONFIRM THAT THIS SUBMISSION WAS REVIEWED PRIOR TO TRANSMISSION TO THE A/E APPROVAL OF THIS SUBMISSION REMAINS THE RESPONSIBILITY OF THE A/E. THIS STAMP SHALL NOT BE CONSTRUED AS RELIEVING THE SUBCONTRACTOR/ VENDOR OF THE RESPONSIBILITY FOR COMPLYING FULLY WITH THE CONTRACT DOCUMENTS.

BY:  DATE: 03/25/2021

A/E ACTION:

REMARKS: _____

Signature of A/E

Print name of A/E

Date

A/E Title

A/E firm name

SHOP DRAWING REVIEW

(The space below is for the A/E's submittal action stamp)

- Approved
- Revise and Resubmit
- Approved as Noted
- Rejected

Approval is only for general conformance with the design concept of the Project and the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; information that pertains solely to the fabrication process or to the means and methods of construction; coordination of the work of all trades; and performing all work in a safe and satisfactory manner. This approval does not modify Contractor's duty to comply with the Contract Documents.

SR Architects, P.A.

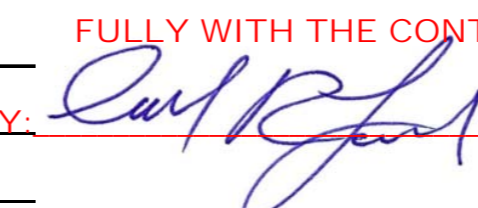
7469 SW 50th Terrace, Miami, FL 33155
Tel. 305-661-8572 / Fax. 305-661-8573

Date: 03/26/2021 By Ernesto L. Santos, AIA

1. See Memo Attached to Leonel Vasquez, PM dated Feb. 10, 2021 from Oscar Zapata, of Central Maintenance Operations.
2. As noted.

PROJECT: SYLVANIA HEIGHTS ELEMENTARY SCHOOL - GOB PROJECT NO. 01885800
 PROJECT NO.: 2018-50-04

 Page 1 of 1
 Date: March 25, 2021

TRANSMITTAL	To: <u>J.R.T. CONSTRUCTION, CO.</u>	Date: <u>March 25, 2021</u>	
A	From: <u>Quality Engineered Products, Inc.</u> <small>(VENDOR)</small>	By: <u>Andrew Bernstein</u>	<input type="checkbox"/> Resubmission
Quantity	Description & Manufacturer	Spec Section/ Paragraph/ Drawing No./ Detail	
1 Digital Copy	Quality Engineered Products Hardware Shop Drawing:	Section 08710 - Hardware	
	Hardware Cutsheets for Hinges, Cylinders, Panic Devices, Trims, Mullions, Closures	SHOP DRAWING REVIEW	
	Leversets, Surface Bolts, Auxilory Trims, and Thresholds,	J.R.T. CONSTRUCTION, CO.	
		THIS WILL CONFIRM THAT THIS SUBMISSION WAS REVIEWED PRIOR TO TRANSMISSION TO THE A/E APPROVAL OF THIS SUBMISSION REMAINS THE RESPONSIBILITY OF THE A/E. THIS STAMP SHALL NOT BE CONSTRUED AS RELIEVING THE SUBCONTRACTOR/ VENDOR OF THE RESPONSIBILITY FOR COMPLYING FULLY WITH THE CONTRACT DOCUMENTS.	
		BY:  DATE: <u>03/25/2021</u>	
<input checked="" type="checkbox"/> Submitted for review and approval <input type="checkbox"/> Substitution involved - Substitution request attached <input type="checkbox"/> Resubmitted for review and approval <input type="checkbox"/> If substitution involved, submittal includes point-by-point comparative data or preliminary details <input checked="" type="checkbox"/> Complies with contract requirements <input type="checkbox"/> Items included in submittal will be ordered immediately upon receipt of approval <input type="checkbox"/> One copy retained by sender <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____			

TRANSMITTAL	From: <u>J.R.T. CONSTRUCTION, CO.</u>	By: <u>Carlos R. Tarafa</u>	Date Transmitted by JRT: <u>3/25/2021</u>
B	To: <u>SR Architects, P.A.</u>	Attn: <u>Ernesto Santos</u>	Date Received by GMA: _____
COMMENTS:			

TRANSMITTAL	From: <u>SR Architects, P.A.</u>	By: <u>Ernesto Santos</u>	Date Transmitted by GMA: _____
C	To: <u>J.R.T. CONSTRUCTION, CO.</u>	Attn: <u>Carlos R. Tarafa</u>	Date Received by JRT: _____
<input type="checkbox"/> Approved	<input type="checkbox"/> Revise/Resubmit		
<input type="checkbox"/> Approved as noted	<input type="checkbox"/> Rejected/Resubmit		
<input type="checkbox"/> Not subject to review	<input type="checkbox"/> Approved as noted/Resubmit		
<input type="checkbox"/> No action required	<input type="checkbox"/> Submission incomplete/Resubmit		
<input type="checkbox"/> Other remarks on above submittal	<input type="checkbox"/> One copy retained by sender		
COMMENTS:			

TRANSMITTAL	From: <u>J.R.T. CONSTRUCTION, CO.</u>	By: <u>Carlos R. Tarafa</u>	Date Transmitted by JRT: _____
D	To: <u>Quality Engineered Products, Inc.</u>	Attn: <u>Andrew Bernstein</u>	Date Received by SUB: _____
COMMENTS:			

MEMORANDUM

February 10/2021

TO: Leonel Vasquez, PM
Miami-Dade County Public Schools
Office of School Facilities - Construction

FROM: Oscar Zapata, Foreperson Lks
Central Maintenance Operations

SUBJECT: Review Construction door/lock hardware schedule
School: Sylvania Heights El.
Project: 01885800

Upon review of the door/lock hardware schedule for the above referenced project, the Central Locks department has found the following:

Construction door hardware schedule dated 02-10-2021 submitted for review have certain discrepancies with the M-DCPS Master Specifications and /or Design Criteria. Resubmit revised hardware and door schedules for approval and authorization prior to ordering doors and lock hardware. **See attached hardware schedule with comments.**

GENERAL NOTES

1. Storefront glass doors shall be steel.
2. Hollow metal doors to be 16 gauge, seamless edge, door closer reinforcement 12 gauge full width of door x 5-3/4" as per MDCPS Master specifications 08110.
3. Install door closers to open 180 regardless of opening. Provide a spring cushion arm where a wall or floor stop cannot be specified.
4. Provide exit devices at all exterior doors
5. Install exit devices @ 40" and lever locksets @ 38".
6. Provide security grilles, insect screens at all exterior louvered doors
7. Provide knurled lever handles and door pulls at all hazardous areas, mechanical, electrical, custodial storerooms.

For more information, contact the Locks Department at 305- 995-4027, cell 305-873-9472


Oscar Zapata

cc: Jeff Ware, Director Central Operations & CTF
School File

3.7 THE FOLLOWING IS THE HARDWARE SCHEDULE

Hardware Schedule No. 1

Doors: 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 119, 120, 121, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 145, 147, 148, 150, 151, 152, 153, 154, 155, 157, 158, 161, 165, 166, 167, & 207.

Total 55 Doors – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfr.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	3	Hinge	FBB168 4.5" x 4.5" NPR	600/USP
MAR	1	Lockset	195S x G3 Classroom	626/US26D
SCH	1	Core - Permanent	23-001 - WTSR WUTR	626/US26D
LCN	1	Door Closer	4111 EDA AVB SNB	689/US28
HHC	1	Kick Plate	214S 16" x 34"	PK
HHC	1	FLOOR STOP	259H	626/US26D
HHC	1	Weatherstripping	891SV 36" x 84" Vinyl	Alum
HHC	1	Silencer	307D	Gray

Hardware Schedule No. 2

Doors: 118, 122

Total 2 Doors – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

Doors: 144, 169

Total 2 Doors – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	3	Hinge	FBB168 4.5" x 4.5" NPR	600/USP
MAR	1	Lockset	195F x A4 – G3 Storeroom	626/US26D
SCH	1	Core - Permanent	23-001 - WTSR WUTR	626/US26D
LCN	1	Door Closer	4111 EDA AVB SNB	689/US28
HHC	1	Kick Plate	214F 16" x 34"	PK
HHC	1	FLOOR STOP	259H	626/US26D
HHC	1	Weatherstripping	891SV 36" x 84" Vinyl	Alum
HHC	1	Threshold	520SV 36" x 5" x 1/4"	Alum

PROVIDE MARBLE THRESHOLD FOR DOORS: 118 - 122

Hardware Schedule No. 3

Doors: Pair 168

Total 1 Pair Doors – Double – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	6	Hinge	FBB199 4.5" x 4.5" NPR	600/US32D
ROC	2	Surface Bolt	585-12 Heavy Duty, Bolt Length 12" Bolt Throw 1 1/4" LHR	626/US26D
PHI	1	Mullion	HCKR822 x 84"	600/USP
SCH	2	Cylinder Rim	20-022 WFSR W UTR	626/US26D
PHI	1	Exit Device	3R0HC2103LDSNB x Less Trim x Less Dogging	626W/US26D/Active
HHC	1	Door Pull	H4G 8" TW (Knurled)	628/US28
LCN	2	Door Closer	4111EDA AVB SNB SRI	689/US28
HHC	2	Kick Plate	214S 16" x 34"	PK
HHC	2	Floor Stop	259H	626/US26D
HHC	2	Weatherstripping	891SV 36" x 84" Vinyl	Alum
HHC	2	Sweep Strip	753SN 36" CLR	Alum
HHC	1	Threshold	520S 36" x 5" x 1/4"	Alum
HHC	1	RAIN DRIP	810S X 76"	ALUM

IF FLOOR STOP CAN NOT BE USED PROVIDE SPRING CUSH ON DOOR CLOSERS

Hardware Schedule No. 4

Door: 160 ✓

Total 1 Door – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

Door: 208

Total 1 Door – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	3	Hinge	FBB168 4.5" x 4.5" NPR	600/USP
MAR	1	Lockset	195F x G3 Storeroom	626/US26D
SCH	1	Core - Permanent	23-001 - WFSR W UTR	626/US26D
LCN	1	Door Closer	4111EDA AVB SNB	689/US28
HHC	1	Kick Plate	214S 16" x 34"	PK
HHC	1	FLOOR STOP	259H	626/US26D
HHC	3	Silencer	307D	Gray

PROVIDE MARBLE THRESHOLD FOR DOOR # 160

Hardware Schedule No. 4.1

Doors: 204, 205, 206

Total 3 Doors – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	3	Hinge	FBB168 4.5" x 4.5" NPR	600/USP
MAR	1	Lockset	195F x G3 Storeroom	626/US26D
SCH	1	Core - Permanent	23-001 - WFSR W UTR	626/US26D
LCN	1	Door Closer	4111EDA AVB - SNB	689/US28
HHC	1	Kick Plate	214S 16" x 34"	PK
HHC	1	FLOOR STOP	259H	626/US26D
HHC	3	Silencer	307D	Gray

PROVIDE SPRING CUSH STOP FOR DOOR # 204 (INSTALL DOOR CLOSER FOR 110" SWING)

Hardware Schedule No. 5

Doors: Pair 163

Total 1 Pair Doors – Double – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	6	Hinge	FBB199 4.5" x 4.5" NPR	600/US32D
PHI	1	Mullion	FL822 x 84"	689/US28
SCH	1	Cylinder Rim	20-022 WTSR WUTR	626/US26D
PHI	1	Exit Device	3R0FL2108SNB x V4908A	626W/US26D/Active
PHI	1	Exit Device	3R0FL2101SNB x Less Trim	630/US32D/Inactive
LCN	2	Door Closer	4111 EDA AVB CS SNB	689/US28
HHC	2	Kick Plate	214S 16" x 34"	PK
HHC	2	Floor Stop	259H	626/US26D
HHC	2	Weatherstripping	891SV 36" x 84" Vinyl	Alum
HHC	2	Door Bottom – Auto	747SN 36" x Neoprene	Alum
HHC	1	Threshold	520S 36" x 5" x 1/4"	Alum

PROVIDE SPRING CUSH STOP ON DOOR CLOSERS (CLOSERS TO BE INSTALLED FOR 110° SWING)

Hardware Schedule No. 6

Doors: 162, 164

Total 2 Doors – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	3	Hinge	FBB168 4.5" x 4.5" NPR	600/USP
SCH	1	Cylinder Rim	20-022 WTSR WUTR	626/US26D
PHI	1	Exit Device	3R0FL2108SNB x V4908A	626W/US26D
LCN	1	Door Closer	4111 EDA AVB CS SNB	689/US28
HHC	1	Kick Plate	214S 16" x 34"	PK
HHC	1	Weatherstripping	891SV 36" x 84" Vinyl	Alum
HHC	1	Door Bottom – Auto	747SN 36" x Neoprene	Alum
HHC	1	Threshold	417S 36" x 6" x 1/4" Saddle	Alum

PROVIDE SPRING CUSH STOP ON DOOR CLOSER (CLOSER TO BE INSTALLED FOR 110° SWING)

Hardware Schedule No. 7

Doors: 146; 149

Total 2 Doors – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	3	Hinge	FBB168 4.5" x 4.5" NPR	600/USP
SCH	1	Cylinder – Rim	20-022 WTSR WUTR	626/US26D
PHI	1	Exit Device	3R0FL2108SNB x V4908A	626W/US26D
LCN	1	Door Closer	4111 EDA AVB CS SNB	689/US28
HHC	1	Kick Plate	214S 16" x 34"	PK
HHC	1	Weatherstripping	891SV 36" x 84" Vinyl	Alum
HHC	1	Door Bottom – Auto	747SN 36" x Neoprene	Alum
HHC	1	Threshold	417S 36" x 6" x 1/4" Saddle	Alum
HHC	1	FLOOR STOP	259 H	626

Hardware Schedule No. 6.1

Doors: 162,

Total 2 Doors – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	3	Hinge	FBB168 4.5" x 4.5" NPR	600/USP
SCH	4	Cylinder Rim	20-022 WTSR	626/US26D
PHI	1	Exit Device	3R0FL210:1 SNB LESS TRIM	626W/US26D
LCN	1	Door Closer	4111 EDK AVB CS SNO	689/US28
HHC	1	Kick Plate	214S 16" x 34"	PK
HHC	1	Weatherstripping	891SV 36" x 84" Vinyl	Alum
HHC	1	Door Bottom – Auto	747SN 36" x Neoprene	Alum
HHC	1	Threshold	417S 36" x 6" x 1/4" Saddle	Alum

→ PROVIDE SPRING CUSH STOP ON DOOR CLOSER
(INSTALL DOOR CLOSER FOR 110° SWING)

Hardware Schedule No. 8

Doors: Pair 202

Total 1 Pair Doors – Double – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	6	Hinge	FBB199 4.5" x 4.5" NPR	630/US32D
PHI	1	Mullion	HC822 x 84"	689/US28
SCH	1	Cylinder – Mortise	20-001 WTSR WJTR	626/US26D
SCH	1	Cylinder – Rim	20-022 WTSR WJTR	626/US26D
PHI	1	Exit Device	3R0HC2103CDSNB x Less Trim	626W/US26D/Active
PHI	1	Exit Device	3R0HC2101LDSNB x Less Trim	626W/US26D/Inactive
HHC	2	Push Plate	214S 16" x 16"	PK
HHC	1	Door Pull	H4G 8"	628/US28
LCN	2	Door Closer	4111 GDA AVB SNB	689/US28
HHC	2	Kick Plate	214S 16" x 34"	PK
HHC	2	Floor Stop	259H	626/US26D
HHC	2	Weatherstripping	891SV 36" x 84" Vinyl	Alum
HHC	1	Threshold	520SV 36" x 5" x 1/4"	Alum

Hardware Schedule No. 9

Doors: 201, 203

Total 2 Doors – Single – 3'-0" x 7'-0" x 1-3/4" – Doors / Frames Galvaneal – NL

<u>Mfg.</u>	<u>Qty</u>	<u>Type</u>	<u>Series/Description</u>	<u>Finish</u>
STA	3	Hinge	FBB199 4.5" x 4.5" NPR	630/US32D
SCH	1	Cylinder – Mortise	20-001 WTSR WJTR	626/US26D
SCH	1	Cylinder – Rim	20-022 WTSR WJTR	626/US26D
PHI	1	Exit Device	3R0HC2103CDSNB x Less Trim	626/US26D
HHC	1	Push Plate	214S 16" x 16"	PK
HHC	1	Door Pull	H4G 8"	628/US28
LCN	1	Door Closer	4111 GDA AVB SNB	689/US28
HHC	1	Kick Plate	214S 16" x 34"	PK
HHC	1	Floor Stop	259H	626/US26D
HHC	1	Weatherstripping	891SV 36" x 84" Vinyl	Alum
HHC	1	Threshold	520SV 36" x 5" x 1/4"	Alum

END OF SECTION

Finish Hardware Schedule

for

Dade County- Sylvania Heights Elementary
5901 SW 16th Street
West Miami, FL 33155

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Architect: S/R Architects P.A.
7469 SW 50 Terrace
Miami, FL 33155
USA

Phone: (305)661-8572 Fax: (305)661-8573

Contractor: JTR Contractors Inc.
PO Box 2096
Valrico, FL 33595-2096
USA
Phone: (813)661-3150 Fax: (813)653-2684

Supplier: Quality Engineered Products Co. Inc.
4506 Quality Lane
Tampa, FL 33634
(813)885-1693 Fax# (813)884-2673

Salesperson: Andrew Bernstein

Job Number: 21-131

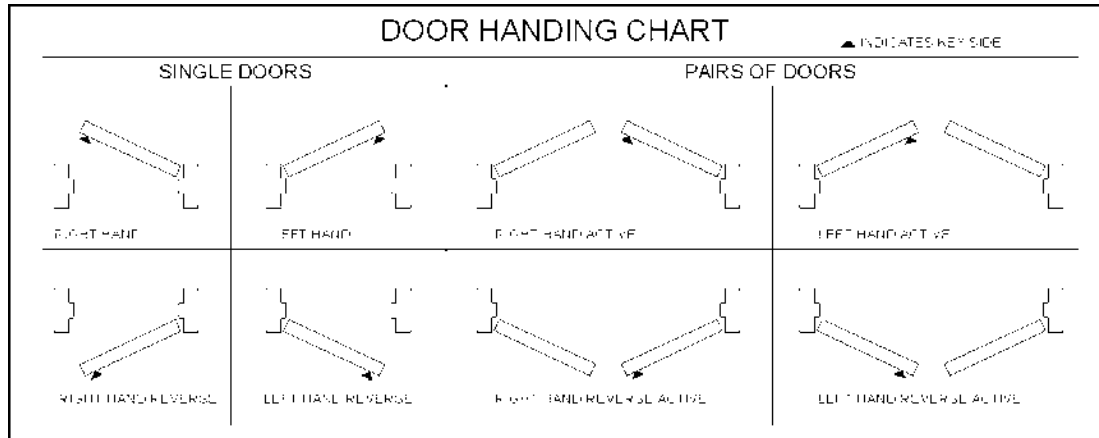
Date: March 16, 2021

Finish Hardware Schedule

Dade County- Sylvania Heights Elementary

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Job Number: 21-131



Preamble:

HARDWARE GENERAL NOTES:

1. After final approval, this schedule is to be used as a guide for shipping, delivery, installation and construction use. Therefore, it is the responsibility of all parties to make sure all items are scheduled accurately.
2. Corrections should be made by lining out incorrect items with contrasting colored pen in order to accentuate changes.
3. Materials on this project will not be ordered until final approval has been received. Any item added or changed from that specified will be an extra to the contract, and will not be ordered until a written order has been received. We can not be responsible for any delays or changes incurred because of insufficient time for delivery caused by approval or change order requests.
4. Materials specified and approved on this schedule have been special ordered for this project. Any item changed or cancelled will be at the purchaser's expense and no credit will be allowed without written approval.
5. Availability of materials is subject to the manufacturers' ability to produce and ship these to us. Normal lead times may vary from as little as two weeks to as much as 12 - 16 weeks, depending on the type of materials involved, manufacturer's back-log of orders, and other factors, none of which we can control. All lead times are from the manufacturer's receipt of a purchase order. We know from experience, what is reasonable to expect from a manufacturer for a given type of product. We will exercise every reasonable means to expedite delivery of products for your job. In NO case, however, will our firm be responsible for any manufacturer's inability to produce and deliver product on a specific date.
6. All installation and maintenance instruction, and all tools and wrenches packed with hardware items shall be identified and given to owner.

Finish Hardware Schedule
Dade County- Sylvania Heights Elementary

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Job Number: 21-131

7. Closers used on this project meet or exceed handicap accessibility requirements if properly adjusted at time of installation as follows:
 - a. Maximum force to open door shall be 8.5 lbs for exterior door and 5 lbs on interior door. A momentary auxiliary force exceeding the maximum is approved in order to overcome the inertia of the door.
 - b. Through the long closing arc, a uniform reasonable (main) speed should be maintained. The latching arc allows the door to close quietly and firmly.

8. All closers shall be installed on the push side of the door unless otherwise listed:
 - a. If item description or product number is prefixed with "P" or "PA", mount on push side of door using a soffit bracket.
 - b. Unless otherwise noted on schedule, install all closers for 180 degree opening.

9. Closers used on this project are fully adjustable type, usually sizes 1 thru 6. In addition to "Spring Power", these closers must be adjusted for latch speed, sweep speed and back check at time of installation in accordance with manufacturer's instruction for size and weight of door and handicap accessibility requirements. Selector Valves: Valves are factory preset for regular arm installation. When parallel arm is required, adjustment must be made in field. Cush arms, closers/stop or closer holders are designed for the adjustable back check to provide a buffering effect before the arm comes to a dead stop against a built-in lug on the soffit bracket. **IT IS IMPERATIVE THAT THE BACK CHECK BE PROPERLY ADJUSTED ON ALL CLOSERS TO PREVENT DAMAGE TO THE DOOR, FRAME OR HARDWARE.**

10. Any exceptions to the job specifications or any special instructions are listed as "Hardware Set Notes" following item listings.

Finish Hardware Schedule
Dade County- Sylvania Heights Elementary

Job Number: 21-131

Based On:

Hinge	Stanley Hardware (STA)
Surface Bolt	Rockwood (ROC)
Mullion	Precision Hardware, Inc. (PHI)
Cylinder - Mortise	Schlage Lock Company (SCH)
Cylinder - Rim	Schlage Lock Company (SCH)
Lockset	Marks USA (MAR)
Exit Device	Precision Hardware, Inc. (PHI)
Core - Permanent	Schlage Lock Company (SCH)
Push Plate	Hager Hinge Company (HHC)
Door Pull	Hager Hinge Company (HHC)
Door Closer	LCN Closers (LCN)
Kick Plate	Hager Hinge Company (HHC)
Floor Stop	Hager Hinge Company (HHC)
Weatherstripping	Hager Hinge Company (HHC)
Sweep Strip	Hager Hinge Company (HHC)
Door Bottom - Auto	Hager Hinge Company (HHC)
Threshold	Hager Hinge Company (HHC)
Drip Cap	Hager Hinge Company (HHC)
Key, Cut	Schlage Lock Company (SCH)
Key Control Cabinet	Telkee- Oasis International (tel)
Keying	Schlage Lock Company (SCH)
Silencer	Hager Hinge Company (HHC)

Finish Hardware Schedule
Dade County- Sylvania Heights Elementary

Job Number: 21-131

Hardware Finishes:

<u>Finish</u>	<u>Finish Description</u>
600/USP	
626/US26D	
626W/US26D	
628/US28	
630/US32D	
689/US28	
Alum	
Gray	
NS	
PK	

Finish Hardware Schedule
Dade County- Sylvania Heights Elementary

Job Number: 21-131

Door List

Door#	Hardware Set#
002	#09
043J	#08
101	#01
102	#01
103	#01
104	#01
105	#01
106	#01
107	#01
108	#01
109	#01
110	#01
111	#01
112	#01
113	#01
114	#01
115	#01
116	#01
118	#02.1
119	#01
120	#01
121	#01
122	#02.1
124	#01
125	#01
126	#01
127	#01
128	#01
129	#01
130	#01
131	#01
132	#01
133	#01
134	#01
135	#01
136	#01
137	#01

Door List

Door#	Hardware Set#
138	#01
139	#01
140	#01
141	#01
142	#01
143	#01
144	#02
145	#01
146	#07
147	#01
148	#01
149	#07
150	#01
151	#01
152	#01
153	#01
154	#01
155	#01
157	#01
158	#01
160	#04
161	#01
162	#06.1
163	#05
164	#06
165	#01
166	#01
167	#01
168	#03
169	#02

Finish Hardware Schedule

Dade County- Sylvania Heights Elementary

Job Number: 21-131

Hardware Set#: #01

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Single	101	Int Circ. 052 From Classroom 101	RHR		180
	1	Single	102	Int Circ. 052 From Classroom 002	LHR		180
	1	Single	103	Int Circ. 052 From Classroom 002	RHR		180
	1	Single	104	Int Circ. 052 From Classroom 001	LHR		180
	1	Single	105	Int Circ. 052 From Classroom 004	LHR		180
	1	Single	106	Int Circ. 052 From Classroom 003	RHR		180
	1	Single	107	Int Circ. 052 From Classroom 004	RHR		180
	1	Single	108	Int Circ. 052 From Classroom 003	LHR		180
	1	Single	109	Int Circ. 052 From Classroom 006	LHR		180
	1	Single	110	Int Circ. 052 From Classroom 005	RHR		180
	1	Single	111	Int Circ. 052 From Classroom 006	RHR		180
	1	Single	112	Int Circ. 052 From Classroom 005	LHR		180
	1	Single	113	Int Circ. 052 From Classroom 008	LHR		180
	1	Single	114	Int Circ. 052 From Classroom 007	RHR		180
	1	Single	115	Int Circ. 052 From Classroom 008	RHR		180
	1	Single	116	Int Circ. 052 From Classroom 007	LHR		180
	1	Single	119	Int Circ. 051 From Classroom 010	LHR		180
	1	Single	120	Int Circ. 051 From Classroom 010	RHR		180
	1	Single	121	Int Circ. 051 From Classroom 012	LHR		180
	1	Single	124	Int Circ. 051 From Classroom 012	RHR		180
	1	Single	125	Int Circ. 051 From Classroom 014	LHR		180
	1	Single	126	Int Circ. 051 From Classroom 015	RHR		180
	1	Single	127	Int Circ. 051 From Classroom 015	LHR		180
	1	Single	128	Int Circ. 051 From Classroom 014	RHR		180
	1	Single	129	Int Circ. 051 From Classroom 017	RHR		180
	1	Single	130	Int Circ. 051 From Classroom 016	LHR		180
	1	Single	131	Int Circ. 051 From Classroom 017	LHR		180
	1	Single	132	Int Circ. 051 From Classroom 016	RHR		180
	1	Single	133	Int Circ. 051 From Classroom 019	RHR		180
	1	Single	134	Int Circ. 051 From Classroom 018	LHR		180
	1	Single	135	Int Circ. 051 From Classroom 019	LHR		180
	1	Single	136	Int Circ. 051 From Classroom 018	RHR		180
	1	Single	137	Int Circ. 051 From Classroom 021	RHR		180
	1	Single	138	Int Circ. 051 From Classroom 020	LHR		180
	1	Single	139	Int Circ. 051 From Classroom 021	LHR		180
	1	Single	140	Int Circ. 051 From Classroom 020	RHR		180
	1	Single	141	Int Circ. 051 From Classroom 023	RHR		180
	1	Single	142	Int Circ. 051 From Lounge 022	LHR		180
	1	Single	143	Int Circ. 051 From Classroom 023	LHR		180
	1	Single	145	Int Circ. 050 From Classroom 029	RHR		180
	1	Single	147	Int Circ. 050 From Classroom 029	LHR		180
	1	Single	148	Int Circ. 050 From Classroom 031	RHR		180

Finish Hardware Schedule

Dade County- Sylvania Heights Elementary

Job Number: 21-131

Hardware Set#: #01 (Continued)

1 Single	150 ✓	Int Circ. 051 From Classroom 031	LHR	180
1 Single	151 ✓	Int Circ. 050 From Classroom 033	RHR	180
1 Single	152 ✓	Int Circ. 050 From Classroom 033	LHR	180
1 Single	153 ✓	Int Circ. 050 From Planning 035	RHR	180
1 Single	154 ✓	Int Circ. 050 From Classroom 036	LHR	180
1 Single	155 ✓	Int Circ. 051 From Planning 035	LHR	180
1 Single	157 ✓	Int Circ. 051 From Classroom 036	RHR	180
1 Single	158 ✓	Int Circ. 050 From ART E.I. 038	LHR	180
1 Single	161 ✓	Int Circ. 050 From ART E.I. 038	LHR	180
1 Single	165 ✓	Int Circ. 050 From Musci E.I. 040	LHR	180
1 Single	166 ✓	Int Circ. 050 From Musci E.I. 040	RHR	180
1 Single	167 ✓	Dining 043 From Food Servicen 043B	RHR	

54 Single

Size: 3-0 X 7-0 X 1 3/4 ✓ Galvaneal-NL Door X Galvaneal Frame ✓

GA verify.

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u> ✓	<u>Finish</u>
162	3	EA	STA	Hinge	FBB168 4.5" x 4.5" NRP	600/USP
54	1	EA	MAR	Lockset	195S x G3 Classroom AA	626/US26D
54	1	EA	SCH	Core - Permanent	23-001 WUTR ✓	626/US26D
54	1	EA	LCN	Door Closer	4111 Extra Duty Arm x AVB x TB/MS	689/US28
54	1	EA	HHC	Kick Plate	214S 16" x 34"	PK
54	1	EA	HHC	Floor Stop	259H ✓	626/US26D
54	1	EA	HHC	Weatherstripping	891SV 36" x 84" Vinyl 920SV 36" x 84" x 1/4"	Alum

* Verify and/or Provide Handing per Mark #167

Finish Hardware Schedule

Dade County- Sylvania Heights Elementary

Job Number: 21-131

Hardware Set#: #02

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Single	169 ✓	New Custodian 045 From Elect 045B	RHR	45-min	

	1	Single		Size: 3-0 X 7-0 X 1 3/4 ✓		Galvaneal-Flush Door X Galvaneal Frame ✓	
	1	Single	144 ✓	Int Circ. 051 From Vault 022A	RHR		180

	1	Single		Size: 3-0 X 7-0 X 1 3/4 ✓		Galvaneal-NL Door X Galvaneal Frame	

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u>	<u>Finish</u>
6	3	EA	STA	Hinge	FBB168 4.5" x 4.5" NRP ✓	600/USP
2	1	EA	MAR	Lockset	195F x A4 - G3 Storeroom ✓	626/US26D
2	1	EA	SCH	Core - Permanent	23-001 WUTR ✓	626/US26D
2	1	EA	LCN	Door Closer	4111 Extra Duty Arm x AVB x TB/MS ✓	689/US28
2	1	EA	HHC	Kick Plate	214S 16" x 34" ✓	PK
2	1	EA	HHC	Floor Stop	259H ✓	626/US26D
2	1	EA	HHC	Weatherstripping	891SV 36" x 84" Vinyl ✓	Alum
2	1	EA	HHC	Threshold	520SV 36" x 5" x 1/4" ✓	Alum

Hardware Set#: #02.1

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Single	118 ✓	New Male RR 011 From New Custodian 011A	LHR		
	1	Single	122 ✓	New Female RR 009 To New Custodian 009A	LH		

	2	Single		Size: 3-0 X 7-0 X 1 3/4 ✓		Galvaneal-BL Door X Galvaneal Frame	

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u>	<u>Finish</u>
6	3	EA	STA	Hinge	FBB168 4.5" x 4.5" NRP ✓	600/USP
2	1	EA	MAR	Lockset	195F x A4 - G3 Storeroom ✓	626/US26D
2	1	EA	SCH	Core - Permanent	23-001 WUTR ✓	626/US26D
2	1	EA	LCN	Door Closer	4111 Extra Duty Arm x AVB x TB/MS ✓	689/US28
2	1	EA	HHC	Kick Plate	214S 16" x 34" ✓	PK
2	1	EA	HHC	Floor Stop	259H ✓	626/US26D
2	1	EA	HHC	Weatherstripping	891SV 36" x 84" Vinyl ✓	Alum

*Marble Threshold by Others

MARBLE THRESHOLD.

Finish Hardware Schedule

Dade County- Sylvania Heights Elementary

Job Number: 21-131

Hardware Set#: #03

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Pair	168	Exterior From New Mechanical 045A	RHRA/LHR		

	1	Pair		Size: 3-0 X 7-0 X 1 3/4		Galvaneal-Flush Door X Galvaneal Frame	
				3-0 X 7-0 X 1 3/4			

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u>	<u>Finish</u>
6	6	EA	STA	Hinge	FBB199 4.5" x 4.5" NRP ✓	630/US32D
2	2	EA	ROC	Surface Bolt	585-12 Heavy Duty, Bolt Length 12", Bolt Throw 1 1/4" ✓	626/US26D/Inactive
1	1	EA	PHI	Mullion	HCKR822 x 84" ✓	600/USP
2	2	EA	SCH	Cylinder - Rim	20-022 WUTR ✓	626/US26D
1	1	EA	PHI	Exit Device ✓	3R0HC2103LDSNB x Less Trim x Less Dogging ✓	626W/US26D/Active
1	1	EA	HHC	Door Pull ✓	H4G 8" TW (Knurled) ✓	628/US28
2	2	EA	LCN	Door Closer ✓	4111 Extra Duty Arm x AVB x TB/MS ✓	689/US28
2	2	EA	HHC	Kick Plate ✓	214S 16" x 34" ✓	PK
2	2	EA	HHC	Floor Stop ✓	259H ✓	626/US26D
2	2	EA	HHC	Weatherstripping ✓	891SV 36" x 84" Vinyl ✓	Alum
2	2	EA	HHC	Sweep Strip ✓	753SN 36" CLR ✓	Alum
1	1	EA	HHC	Threshold ✓	520SV 72" x 5" x 1/4" ✓	Alum
1	1	EA	HHC	Drip Cap ✓	810S 76"w ✓	Alum

*** Quality Eng Products NOA #19-0507.03 Combined w/ Dormakaba (Aka Precision) Component FL#16202-R6 Pair of Flush HM Doors @ +/-65PSI**

Hardware Set#: #04

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Single	160 ✓	Int Circ. 050 To New Custodial 045	LH		

	1	Single		Size: 3-0 X 7-0 X 1 3/4 ✓		Galvaneal-Flush Door X Galvaneal Frame	

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u>	<u>Finish</u>
3	3	EA	STA	Hinge	FBB168 4.5" x 4.5" SP ✓	600/USP
1	1	EA	MAR	Lockset	195F x G3 Storeroom ✓	626/US26D
1	1	EA	SCH	Core - Permanent	23-001 WUTR ✓	626/US26D
1	1	EA	LCN	Door Closer	4111 Extra Duty Arm x AVB x TB/MS ✓	689/US28
1	1	EA	HHC	Kick Plate	214S 16" x 34" ✓	PK
1	1	EA	HHC	Floor Stop	259H ✓	626/US26D
3	3	EA	HHC	Silencer	307D ✓	Gray

***Per Mark #160 ONLY Y-Marble Threshold by Others**

Finish Hardware Schedule

Dade County- Sylvania Heights Elementary

Job Number: 21-131

Hardware Set#: #05

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Pair	163	Int Circ. 050 From Dining 043	RHRA/LHR		
	1	Pair		Size: 3-0 X 7-0 X 1 3/4 ✓ 3-0 X 7-0 X 1 3/4 ✓	Galvaneal-NL Door X Galvaneal Frame		

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u>	<u>Finish</u>
6	6	EA	STA	Hinge	FBB168 4.5" x 4.5" NRP ✓	600/USP
1	1	EA	PHI	Mullion	FL822 x 84" ✓	689/US28
1	1	EA	SCH	Cylinder - Rim	20-022 WUTR ✓	626/US26D
1	1	EA	PHI	Exit Device	3R0FL2108SNB x V4908A ✓	626W/US26D/Active
1	1	EA	PHI	Exit Device	3R0FL2101SNB x Less Trim ✓	630/US32D/Inactive
2	2	EA	LCN	Door Closer	4111 Spring Cush-n-Stop x AVB x TB/MS ✓	689/US28
2	2	EA	HHC	Kick Plate	214S 16" x 34" ✓	PK
2	2	EA	HHC	Weatherstripping	891SV 36" x 84" Vinyl ✓	Alum
2	2	EA	HHC	Door Bottom - Auto	747SN 36" x Neoprene ✓	Alum
1	1	EA	HHC	Threshold	417S 72" x 6" x 1/4" Saddle ✓	Alum

*** Door Closers to be installed for 110 Degree Swing**

Hardware Set#: #06

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Single	164 ✓	Int Circ. 050 From Dining 043	LHR		
	1	Single		Size: 3-0 X 7-0 X 1 3/4 ✓	Galvaneal-NL Door X Galvaneal Frame		

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u>	<u>Finish</u>
3	3	EA	STA	Hinge	FBB168 4.5" x 4.5" NRP ✓	600/USP
1	1	EA	SCH	Cylinder - Rim	20-022 WUTR ✓	626/US26D
1	1	EA	PHI	Exit Device	3R0FL2108SNB x V4908A ✓	626W/US26D
1	1	EA	LCN	Door Closer	4111 Spring Cush-n-Stop x AVB x TB/MS ✓	689/US28
1	1	EA	HHC	Kick Plate	214S 16" x 34" ✓	PK
1	1	EA	HHC	Weatherstripping	891SV 36" x 84" Vinyl ✓	Alum
1	1	EA	HHC	Door Bottom - Auto	747SN 36" x Neoprene	Alum
1	1	EA	HHC	Threshold	417S 36" x 6" x 1/4" Saddle	Alum

*** Closer to be installed for 110 Degree Swing**

Finish Hardware Schedule

Dade County- Sylvania Heights Elementary

Job Number: 21-131

Hardware Set#: #06.1

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Single	162 ✓	Int Circ. 050 From Dining 043	RHR		

	1	Single		Size: 3-0 X 7-0 X 1 3/4 ✓		Galvaneal-NL Door X Galvaneal Frame	

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u>	<u>Finish</u>
3	3	EA	STA	Hinge	FBB168 4.5" x 4.5" NRP ✓	600/USP
1	1	EA	PHI	Exit Device	3R0FL2101SNB x Less Trim ✓	626W/US26D
1	1	EA	LCN	Door Closer	4111 Spring Cush-n-Stop x AVB x TB/MS ✓	689/US28
1	1	EA	HHC	Kick Plate	214S 16" x 34" ✓	PK
1	1	EA	HHC	Weatherstripping	891SV 36" x 84" Vinyl ✓	Alum
1	1	EA	HHC	Door Bottom - Auto	747SN 36" x Neoprene ✓	Alum
1	1	EA	HHC	Threshold	417S 36" x 6" x 1/4" Saddle	Alum

* Install Door Closer for 110 Degree Swing ✓ * Provide SPRING CUSH STOP ON DOOR CLOSER

Hardware Set#: #07

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Single	146 ✓	Int Circ. 050 From Workroom 032A	LHR		180
	1	Single	149 ✓	Int Circ. 050 From Secretary 032	LHR		180

	2	Single		Size: 3-0 X 7-0 X 1 3/4 ✓		Galvaneal-NL Door X Galvaneal Frame	

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u>	<u>Finish</u>
6	3	EA	STA	Hinge	FBB168 4.5" x 4.5" NRP ✓	600/USP
2	1	EA	SCH	Cylinder - Rim	20-022 WUTR ✓	626/US26D
2	1	EA	PHI	Exit Device	3R0FL2108SNB x V4908A ✓	626W/US26D
2	1	EA	LCN	Door Closer	4111 Extra Duty Arm x AVB x TB/MS ✓	689/US28
2	1	EA	HHC	Kick Plate	214S 16" x 34" ✓	PK
2	1	EA	HHC	Floor Stop	259H ✓	626/US26D
2	1	EA	HHC	Weatherstripping	891SV 36" x 84" Vinyl ✓	Alum

Finish Hardware Schedule

Dade County- Sylvania Heights Elementary

Job Number: 21-131

Hardware Set#: #08

<u>Key Set</u>	<u>Qty</u>	<u>Units</u>	<u>Door#</u>	<u>Door Location</u>	<u>Hand</u>	<u>Label</u>	<u>Deg</u>
	1	Pair ✓	043J	Interior Circ. 043J From Dining 043	RHRA/LHR		

	1	Pair		Size: 3-0 X 7-0 X 1 3/4	Galvaneal-NL Door X Galvaneal Frame		
				3-0 X 7-0 X 1 3/4			

<u>Tot Qty</u>	<u>Qty</u>	<u>UOM</u>	<u>Manf</u>	<u>Item Type</u>	<u>Item Series/Description</u>	<u>Finish</u>
6	6	EA	STA	Hinge	FBB199 4.5" x 4.5" NRP ✓	630/US32D
1	1	EA	PHI	Mullion	HC822 x 84" ✓	689/US28
1	1	EA	SCH	Cylinder - Mortise	20-001 WUTR ✓	626/US26D
1	1	EA	SCH	Cylinder - Rim	20-022 WUTR ✓	626/US26D
1	1	EA	PHI	Exit Device	3R0HC2103CDSNB x Less Trim ✓	626W/US26D/Active
1	1	EA	PHI	Exit Device	3R0HC2101LDSNB x Less Trim ✓	626W/US26D/Inactive
2	2	EA	HHC	Push Plate	214S 16" x 16" ✓	PK
1	1	EA	HHC	Door Pull	H4G 8" ✓	628/US28
2	2	EA	LCN	Door Closer	4111 Extra Duty Arm x AVB x TB/MS ✓	689/US28
2	2	EA	HHC	Kick Plate	214S 16" x 34" ✓	PK
2	2	EA	HHC	Floor Stop	259H ✓	626/US26D
2	2	EA	HHC	Weatherstripping	891SV 36" x 84" Vinyl ✓	Alum
1	1	EA	HHC	Threshold	520SV 72" x 5" x 1/4" ✓	Alum

Finish Hardware Schedule

Dade County- Sylvania Heights Elementary

Job Number: 21-131

Hardware Set#: #09

Key Set	Qty	Units	Door#	Door Location	Hand	Label	Deg
	1	Single	002 ✓	Exterior From Classroom 002	LHR		
	1	Single <i>PAIR</i>		Size: 3-0 X 7-0 X 1 3/4 ✓		Galvaneal-NL Door X Galvaneal Frame ✓	

Tot Qty	Qty	UOM	Manf	Item Type	Item Series/Description	Finish
3	3	EA	STA	Hinge	FBB199 4.5" x 4.5" NRP ✓	630/US32D
1	1	EA	SCH	Cylinder - Mortise	20-001 WUTR ✓	626/US26D
1	1	EA	SCH	Cylinder - Rim	20-022 WUTR ✓	626/US26D
1	1	EA	PHI	Exit Device	3R0HC2103CDSNB x Less Trim ✓	626/US26D
1	1	EA	HHC	Push Plate	214S 16" x 16" ✓	PK
1	1	EA	HHC	Door Pull	H4G 8" ✓	628/US28
1	1	EA	LCN	Door Closer	4111 Extra Duty Arm x AVB x TB/MS ✓	689/US28
1	1	EA	HHC	Kick Plate	214S 16" x 34" ✓	PK
1	1	EA	HHC	Floor Stop	259H ✓	626/US26D
1	1	EA	HHC	Weatherstripping	891SV 36" x 84" Vinyl ✓	Alum
1	1	EA	HHC	Threshold	520SV 36" x 5" x 1/4" ✓	Alum

* Quality Eng Products NOA #19-0507.04 (Page 3 of 13)
 3'-0" x 7'-0" NL HM Doors @ +/-70PSF

Hardware Set#: Set 000

Tot Qty	Qty	UOM	Manf	Item Type	Item Series/Description	Finish
10	10	EA	SCH	Key, Cut	35-057 Extractor Tool	
12	12	EA	SCH	Key, Cut	48-104 Construction Key, Standard Bow, Embossed	NS
105	105	EA	SCH	Key, Cut	49-131 Standard Bow, Unembossed Both Sides (MK)	NS
510	510	EA	SCH	Key, Cut	50-221 Bitting Not Stamped, Delete Key Combination	
243	243	EA	SCH	Key, Cut	50-232 Extra Cut Restricted MDCPS	NS
81	81	EA	SCH	Key, Cut	60-001 Pack Change Keys Independently (PKI)	
1	1	EA	tel	Key Control Cabinet	AWC-450-S	Gray
510	510	EA	SCH	Keying	XQ06-878 Keys Stamped Do Not Duplicate	
510	510	EA	SCH	Keying	50-003 Non Standard Code (Post #)	
81	81	EA	SCH	Keying	50-210 Master Keyed (GGMK, GMK, MK)	
81	81	EA	SCH	Keying	50-211 Split Construction Keying Charge	

Heavy Weight Ball Bearing

FBB168 – (ANSI A8111) Steel – polished and plated or phosphated and prime coated for painting

FBB199 – (ANSI A2111) Brass or bronze – polished and plated or painted

FBB199 (32) – (ANSI A5111) Stainless steel – highly polished

FBB199 (32D) – (ANSI A5111) Stainless steel – satin finish

- For use on heavy doors or doors where high frequency is expected such as entrance doors to office buildings, stores, public buildings and corridor entrance doors to offices
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Equipped with four Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- Hinges can be furnished as follows:
 - with raised barrel (RB)
 - with electric wires and/or switches (CE and/or CS)
 - with hospital tips (HT)
 - with decorative tips
 - with security studs
 - with non-removable pins (NRP)



Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)	Machine	Wood			Bronze Lbs.	(Kg)	Steel Lbs.	(Kg)
4 1/2 x 4 1/2	(114 x 114)	.180	(4.6)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	45	(21)	42	(19)
5 x 4 1/2	(127 x 114)	.190	(4.8)	8 - 12-24 x 1/2	8 - 12 x 1 1/2	3 EA.	24 EA.	46	(21)	40	(18)
5 x 5	(127 x 127)	.190	(4.8)	8 - 12-24 x 1/2	8 - 12 x 1 1/2	3 EA.	24 EA.	50	(23)	46	(21)
6 x 4 1/2	(152 x 114)	.203	(5.2)	10 - 1/4-20 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	63	(29)	53	(24)
6 x 5	(152 x 127)	.203	(5.2)	10 - 1/4-20 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	65	(30)	55	(25)
6 x 6	(152 x 152)	.203	(5.2)	10 - 1/4-20 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	76	(35)	61	(28)
8 x 6*	(203 x 152)	.203	(5.2)	16 - 1/4-20 x 1/2	16 - 14 x 1 1/2	3 EA.	12 EA.	57	(26)	51	(23)
8 x 8*	(203 x 203)	.203	(5.2)	16 - 1/4-20 x 1/2	16 - 14 x 1 1/2	3 EA.	12 EA.	68	(31)	61	(28)

*Available in Steel only
Consult factory for other sizes not listed

Cylinders

Cylinders for exit devices, aluminum door, etc.

Rim cylinders		
Number	Description	Tall piece
20-022	Conventional cylinder	Horizontal
20-021	Conventional cylinder	Vertical
20-710	Primus cylinder	Horizontal
20-710-XP	Primus XP cylinder	Horizontal
20-709	Primus cylinder	Vertical
20-709-XP	Primus XP cylinder	Vertical
20-716	Primus lockout cylinder	Horizontal
20-716-XP	Primus XP lockout cylinder	Horizontal
20-510	Primus UL437 Listed cylinder	Horizontal
20-510-XP	Primus XP UL437 Listed cylinder	Horizontal
20-509	Primus UL437 Listed cylinder	Vertical
20-509-XP	Primus XP UL437 Listed cylinder	Vertical
20-516	Primus UL437 Listed lockout cylinder	Horizontal
20-516-XP	Primus XP UL437 Listed lockout cylinder	Horizontal

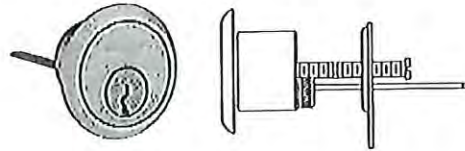
Available in 605, 606, 609, 612, 613, 619, 625 and 626 finish.

Cylinders for Adams Rite MS 4500 and 4700 Series Lori 4500 Series and Corbin Russwin DL3000 Series	
Number	Description
26-072	Conventional cylinder only
20-013	Conventional cylinder with 3/8" blocking ring
20-706	Primus cylinder with 3/8" blocking ring
20-706-XP	Primus XP cylinder with 3/8" blocking ring
20-506	Primus UL437 Listed cylinder with 3/8" blocking ring
20-506-XP	Primus XP UL437 Listed cylinder with 3/8" blocking ring
20-718	Primus lockout cylinder
20-718-XP	Primus XP lockout cylinder
20-518	Primus UL437 Listed lockout cylinder
20-518-XP	Primus XP UL437 Listed lockout cylinder

These cylinders include set screw pack B220-050 for Adams Rite locks.

Cylinders for Adams Rite 4070 Series	
Number	Description
26-073	Conventional cylinder only
20-708	Primus cylinder only
20-708-XP	Primus XP cylinder only
20-508	Primus UL437 Listed cylinder only
20-508-XP	Primus XP UL437 Listed cylinder only

- Notes
- Mortise cylinders available in 605, 606, 609, 612, 613, 619, 625, 626, 629, and 643E finish.
 - To differentiate between Classic and Everest 29, specify keyway. Example: C or CP (Classic), S123 (Everest 29). Everest 29 S123 keyway standard.
 - 1 1/4" length standard. Optional lengths available in 1/8" (4mm) increments up to 1 3/4" (44mm).
 - To order less Schlage logo, specify with K510-612 faceplate.
 - Lockout keys must be ordered separately and lockout cylinders will not be master keyed by Schlage.
 - Specify LKB if 0-bitless Primus XP cylinders are required less key blanks.
 - Plugs and FSIC cores available in 606 and 626 only.



B502-292
Cam for classic conventional prior to July 2010



L583-447
Modular cam



B502-944
Cam for Everest 29 & Primus XP prior to July 2010



L583-446
Modular cam



B502-380
Cam for classic conventional prior to July 2010



L520-744
Modular Cam



B502-945
Cam for Everest 29 & Primus XP prior to July 2010



L520-743
Modular Cam

Cylinders

Cylinders for Schlage L Series mortise locksets



Cylinder mechanism		Design	Function	Conventional	Primus/ Primus XP	Primus UL437/ Primus XP UL437	Primus XP lockout	Primus XP UL437 lockout
	L and N Escutcheons (cylinders and spring only)	All except below	30-021	20-793/ 20-793-XP	20-593/ 20-593-XP	20-717**	20-517**	
		L9060P outside	26-021	20-701/ 20-701-XP	20-501/ 20-501-XP	20-715**	20-515**	
		L9485, L9486 Hotel functions	30-022*	N/A	N/A	N/A	N/A	
	L escutcheon with concealed shell cylinder (C suffix)	All except below	30-004	20-789/ 20-789-XP	20-589/ 20-589-XP	N/A	N/A	
		L9060P outside	26-023	24-767/ 24-767-XP	24-567/ 24-567-XP	N/A	N/A	
		L9485, L9486 Hotel functions	30-005*	N/A	N/A	N/A	N/A	
	Sectional trim (cylinder with compression ring & spring)	All except below	30-001	20-787/ 20-787-XP	20-587/ 20-587-XP	20-715	20-517	
		L9060P outside	20-001	20-700/ 20-700-XP	20-500/ 20-500-XP	20-715	20-515	
		L9485, L9486 Hotel Functions	30-002*	N/A	N/A	N/A	N/A	

* Specify door hand for hotel function cylinders.

** Discard compression ring for Lockout cylinders with escutcheon trim.

- Notes
1. Available in 605, 606, 609, 612, 613, 625, 626, 629, and 643E finish. Concealed shell cylinders available in 606 and 626 only.
 2. To differentiate between Classic and Everest 29, specify keyway. Example: C or CP (Classic), S123 (Everest 29). Everest 29 S123 keyway standard.
 3. 1 1/4" length standard. Optional lengths available in 1/2" (4mm) increments up to 1 3/4" (44mm).
 4. To order less Schlage logo, specify with K510-612 faceplate.
 5. Lockout keys must be ordered separately and lockout cylinders will not be master keyed by Schlage.
 6. Specify LKB if O-bitted Primus XP cylinders are required less key blanks.

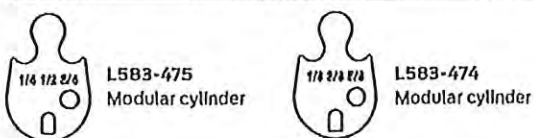
Cam for all functions except L9060 outside



Cam for L9060 outside



Modular cylinder cams

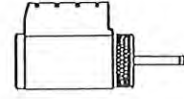
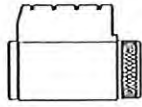


Modular cam for L9060 outside



Modular cams are used for all cylinders made after Aug 2010, whether Classic, Everest 29 or Primus. L583-474 is used on cylinders 1 1/4", 1 1/2" and 1 3/4". L583-475 is used on cylinders 1 1/4", 1 1/2" & 1 3/4".

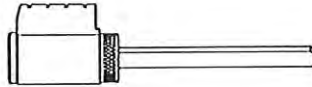
L583-476 is for cylinders 1 1/4", 1 1/2" & 1 3/4". L583-477 is for cylinders 1 1/4", 1 1/2" & 1 3/4".



Cylinders for B500 Series - double cylinder deadbolts

Number	Description	Door thickness
22-645	Conventional	1 3/8" - 1 7/8"
22-646	Conventional	> 1 7/8" - 2 1/4"
20-745	Primus	1 3/8" - 1 7/8"
20-745-XP	Primus XP	1 3/8" - 1 7/8"
20-746	Primus	> 1 7/8" - 2 1/4"
20-746-XP	Primus XP	> 1 7/8" - 2 1/4"
20-545	Primus UL	1 3/8" - 1 7/8"
20-545-XP	Primus XP UL	1 3/8" - 1 7/8"
20-546	Primus UL	> 1 7/8" - 2 1/4"
20-546-XP	Primus XP UL	> 1 7/8" - 2 1/4"

Cylinder itself available in 606 and 626 finish only. Housing is available in B250, H, and S200 Series finishes.



Cylinders for B600/700/800 Series deadlocks* (housing not included)

Lockset function	Cylinder number	Door thickness	Cylinder mechanism
B660, B663	22-644	1 3/8" - 2 1/2"	Conventional
B661, B664	22-642	1 3/8" - 2"	
	22-643	> 2 - 2 1/2"	
664	22-642	1 3/8" - 2 1/2"	Primus/ Primus XP
B662'	22-087	1 3/8" - 2"	
	22-088	> 2 - 2 1/2"	
B760, B760-XP B763, B763-XP B761, B761-XP	20-744, 20-744-XP	1 3/8" - 2 1/2"	Primus/ Primus XP
	20-742, 20-742-XP	1 3/8" - 2"	
	20-743, 20-743-XP	> 2 - 2 1/2"	
B764, B764-XP	20-742, 20-742-XP	1 3/8" - 2 1/2"	Primus/ Primus XP
B762', B762-XP'	20-745, 20-745-XP	1 3/8" - 2"	
	20-746, 20-746-XP	> 2 - 2 1/2"	
B860, B860-XP B863, B863-XP	20-544, 20-544-XP	1 3/8" - 2 1/2"	Primus/ Primus XP UL437 Listed
B861, B861-XP	20-542, 20-542-XP	1 3/8" - 2"	
	20-543, 20-543-XP	> 2 - 2 1/2"	
B864, B864-XP	20-542, 20-542-XP	1 3/8" - 2 1/2"	Primus/ Primus XP UL437 Listed
B862', B862-XP'	20-545, 20-545-XP	1 3/8" - 2"	
	20-546, 20-546-XP	> 2 - 2 1/2"	

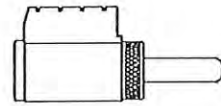
Available in 606 and 626 finish only.

*Part numbers for double-sided deadbolts represent one cylinder only.

Cylinders for D Series knobs

Number	Description
23-001	6-pln conventional cylinder (standard)
20-748	Primus cylinder
20-748-XP	Primus XP cylinder
20-548	Primus UL437 Listed high security cylinder
20-548-XP	Primus XP UL437 Listed high security cylinder
23-003	Conventional hotel function (D85) with occupancy indicator
21-002	6-pln conventional cylinder, 2" - 2 1/2" thick door
20-724	Primus cylinder, 2" - 2 1/2" thick door
20-724-XP	Primus XP cylinder, 2" - 2 1/2" thick door
20-524	Primus UL437 Listed high security cylinder, 2" - 2 1/2" door
20-524-XP	Primus XP UL437 Listed high security cylinder, 2" - 2 1/2" door
23-003-098	Conventional hotel function (D85) w/indicator, 2" - 2 1/2" door

Available in 606 and 626 finish only.

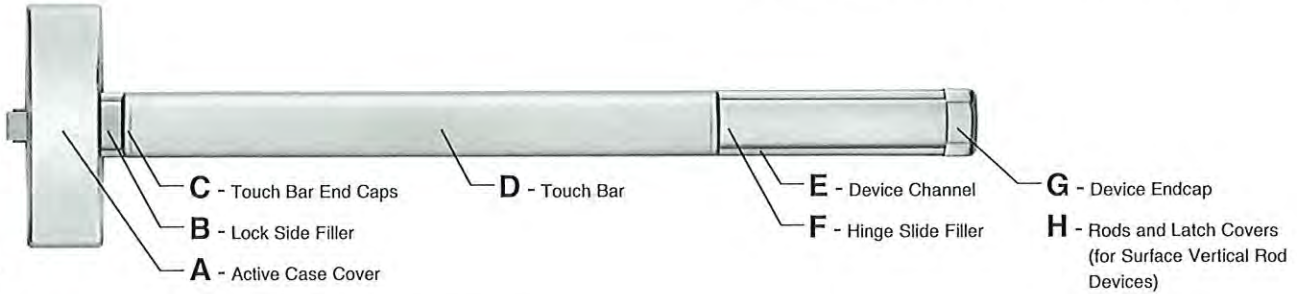


Cylinders for D Series levers (old style)

Number	Description
23-013	6-pln conventional cylinder (standard)
20-750	Primus cylinder
20-750-XP	Primus XP cylinder
20-550	Primus UL437 Listed high security cylinder
20-550-XP	Primus XP UL437 Listed high security cylinder
23-014	Conventional hotel function (D85) with occupancy indicator

Available in 606 and 626 finish only.

GENERAL INFORMATION



Base Materials

Finishes	ANSI/BHMA	US	Aluminum	Brass	Bronze	Stainless Steel
Polished Brass, Clear Coated	605	US3	—	A,B,C,D,E,F,G,H	—	—
Satin Brass, Clear Coated	606	US4	—	A,B,C,D,E,F,G,H	—	—
Satin Bronze, Clear Coated	612	US10	—	—	A,B,C,D,E,F,G,H	—
Dark Oxidized Satin Bronze	613	US10B	—	—	A,B,C,D,E,F,G,H	—
Satin Aluminum, Clear Anodized	628	US28	A,E,F	—	—	B,C,D,G,H
Satin Chrome, Weatherized	626W	US26D	—	A,B,C,D,E,F,G,H	—	—
Satin Stainless Steel	630	US32D	—	—	—	A,B,C,D,E,F,G,H

Finishes

ANSI/BHMA	US	Description
605	US3	Polished Brass, Clear Coated
606*	US4	Satin Brass, Clear Coated
612	US10	Satin Bronze, Clear Coated
613	US10B	Dark Oxidized Satin Bronze
625	US26	Polished Chromium Plated
626W	US26D	Satin Chrome, Weatherized
628	US28	Satin Aluminum, Clear Anodized
630	US32D	Satin Stainless Steel

Mullion finishes

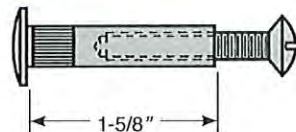
600	USP	Primed for Paint
689		Aluminum Paint
695		Dark Bronze Paint

Fasteners

Furnished standard with machine screws and full thread wood/sheet metal screws. Specify Sex Nuts and Bolts (SNB) where recommended or required by the door manufacturer.

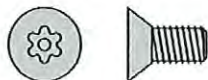
Sex Nuts & Bolts (not furnished std.)

Sex Nuts & Bolts are furnished with No. 10-24 x 1" OHMS (1-1/2" long screws required for guides).



Security Screws

All exposed screws will be a Torx pin in tamper resistant type, machine screws only. Specify (SEC) Security Screws. Cover Screws use a T20 driver, End Cap Screws use a T25 driver.



Door Sizes

Stock sizes for door widths and heights are listed below. If required, cut to size in the field.

Door Widths	Stock Sizes
2'-0" to 2'-6"	2'-6"*
2'-7" to 3'-0"	3'-0"
3'-1" to 4'-0"	4'-0"

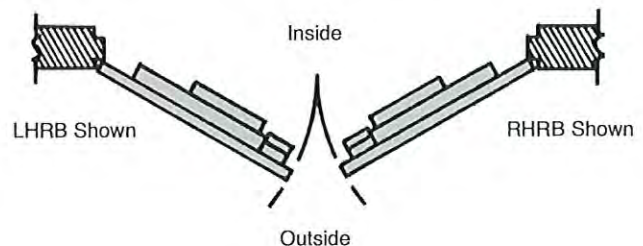
* Not available for Narrow Stile Devices.

Vertical Rod Devices

Device	Door Heights	Stock Sizes
Surface Vertical Rod Device*	up to 7'-0"	7'-0"
	7'-1" to 8'-0"	8'-0"
	8'-1" to 10'-0"	10'-0"
Concealed Vertical Rod Device	6'-8" to 8'-0"	8'-0"
	8'-1" to 10'-0"	10'-0"

* Surface Vertical Rods are furnished of the same material as the device. Stainless steel rods are furnished for 625, 628 and 630 devices.

Hand of Doors



RIM EXIT DEVICES



Apex 2100 Series - Reversible
Apex FL2100 Fire Exit Series - Reversible

DOORS - For all types of single and double doors with a mullion. For mullions, see page 18. Available for 1-3/4" to 2-1/4" thick, up to 4'0" wide opening. For thicker doors, consult factory. Furnished standard for 1-3/4" thick, 3'0" wide opening.

DEVICE - Covers ANSI A115.2 (Type 161), A115.18 cylinder lock and A115.1 (Type 86) Mortise Lock preparation.

FUNCTIONS - Functions are field selectable except for the Double Cylinder option. The device is furnished for a desired function if specified. If not specified the "03" function is furnished standard.

DOUBLE CYLINDER - Handed, "10" Function available. Requires two rim type cylinders, not furnished standard. See page 5 and 19.

BASE MATERIAL - The Cover, Touchbar, Device Channel, Lock/Hinge Side Filler and End Cap are furnished of heavy wrought Brass, Bronze or Stainless Steel. 628 Devices are furnished with Aluminum, Brass, Bronze and Stainless Steel components. See "Finish & Base Material" chart page 3.

CHASSIS - Investment Cast Steel, Zinc Dichromated.

LATCHBOLT - Stainless Steel, Deadlocking, 3/4" throw.

STRIKES - No. S300, Investment Cast Stainless Steel, Black Powder Coated furnished standard. No. S988, optional strike for use on Aluminum Door applications, please specify when ordering. No. S458, optional strike for use on Mullion applications, please specify when ordering. For optional strike information see page 34.

DOGGING - 1/4" turn hex key dogging standard. NOT available on Fire Exit Hardware.

TOUCHBAR HEIGHT - 39-15/16" from floor standard. May be varied as situation dictates.

REVERSIBLE - Reversible for all functions and Trims. Standard packaging RHRB.

UL LISTED - Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 33. Conforms to UL10C and UBC 7-2.

ANSI/BHMA - Devices are BHMA certified for ANSI 156.3, Grade 1.

FINISHES - 605, 606, 612, 613, 625, 626W, 628, 630. For Finish description see page 3.

CYLINDERS - Rim Type, not furnished standard. Specify when required. For cylinder details see page 19.

STILE WIDTH - See Stile Information on page 36.

RETROFIT APPLICATIONS - The 2100 and FL2100 Series Devices are designed to retrofit into other manufacturers' mounting hole locations. 1700 Series Pull Trim and 4900 Series Lever Trim may also be factory set for these applications by specifying prefix "R" (e.g. 2108 R4908A). Consult factory for details.

Apex 21 Series - Nonhanded

The 21 Series Device is designed to be compatible with many manufacturers' Access Control exterior trim. The device incorporates a center driven cam to receive the tailpiece of the access control product. The tailpiece rotation required to retract the latch is a minimum of 50 degrees.

Consult factory for details.

DEVICE OPTIONS

Prefix	Description	Page
C	Quick Connect Plugs.....	39
DE	Delayed Egress.....	24
E	Electric Device	28
ELR	Electric Latch Retraction	21
FL	Fire Exit Hardware	4
HC	Windstorm and Hurricane Code Device	20
LDS	Latchbolt Monitoring Double Switch	29
LS	Latchbolt Monitoring Switch	29
MLR	Motorized Latch Retraction	40-41
Q	Wireless Access Management System.....	30-32
TDS	Touchbar Monitoring Double Switch	29
TS	Touchbar Monitoring Switch.....	29
WTDS	Weatherized Touchbar Mon. Dbl. Switch.....	29
WTS	Weatherized Touchbar Monitoring Switch	29

To specify add Prefix to Device No. (e.g. TS2103)

Suffix	Description	Page
ALK	Exit Alarm: battery operated	27
ALW	Exit Alarm: remote power	27
BRL	Braille Touchbar.....	35
CD	Cylinder Dogging	19
DS	Door Position Monitoring Switch.....	29
LD	Less Dogging.....	19
SEC	Security Screws	3
SNB	Sex Nut and Bolt.....	3
WALW	Weatherized Exit Alarm: remote power	27

To specify add Suffix to Device No. (e.g. 2103CD)

1700A
"A" Grip



1700B
"B" Grip



1700C
"C" Grip



2000C
"C" Grip



1. All Trims are furnished with wrought plates and extruded or cast solid grips.
2. Specify Grip Design (A,B,C) ("A" Grip furnished standard for 1700 Series Trim, "C" Grip furnished standard for 2000 Series Trim)
3. 630 Trim is furnished for 628 Devices.
4. 626 Trim is furnished for 626W Devices.

Retrofit Applications

The R1700 Series Trim is designed to retrofit into other manufacturers' installations when used with the wide stile Apex Series Devices.

Consult factory for details.

4900A
"A" Lever



4900B
"B" Lever



4900C
"C" Lever



4900D
"D" Lever



4900K
"K" Knob



**V4908A
Vandal Resistant Trim**

A heavy duty lever trim designed to withstand abuse and vandalism. Composed of extra strength shock-absorbing "overload" springs and heavy duty investment cast stainless steel internal components. Lever returns to the "home" position eliminating the need to reset the lever.

Retrofit Applications

The R4900 Series Trim is designed to retrofit into other manufacturers' installations when used with the wide stile Apex Series Devices.

Consult factory for details.

1. All the escutcheons and levers are castings or forgings.
2. Specify Lever or Knob Design (A,B,C,D,K) and Handing ("A" Lever x RHRB furnished standard)
3. 626 Trim furnished for 626W, 628 and 630 Devices.

- For Trim dimensions see page 38.
- Trims are BHMA certified for ANSI 156.3, Grade 1.
- Trims are through bolted and will cover 161 and 86 cutouts (except for 2000C Trim).
- Cylinder Trim Type, not furnished standard. For cylinder details see page 19.

ANSI Function	01	02	03	05	08*	10*	14	15
	Exit Only (cover plate)	Dummy Trim	Key Retracts Latchbolt	Key Locks/Unlocks Thumbpiece	Key Locks/Unlocks Lever/Knob	Double Cylinder Inside Key Locks/Unlocks Lever/Knob	No Cylinder Lever/Knob Always Active	No Cylinder Thumbpiece Always Active
Device Nos.	2101 FL2101	2102	2103** FL2103**	2105 FL2105	2108 FL2108	2110 FL2110	2114 FL2114	2115 FL2115
Trim Nos.	1701 R1701	1702A R1702A	1703A R1703A	1705A R1705A	4908A R4908A	4908A R4908A	4914A R4914A	1715A R1715A
	2001 4901 R4901	2002C 4902A R4902A	2003C 4903A R4903A	2005C	RV4908A	RV4908A		2015C

Device with Trim:

Device No. _____

Add Prefix for options, see page 4.



Device Only: Device no., hand, finish, strike, and door size including thickness:
(e.g. TS2108CD x RHRB x 630 x S300 x 3'-0" x 7'-0" x 1-3/4")

Trim Only: Trim no., hand, finish, strike, and door size including thickness: (e.g. V4908A x RHRB x 626 x 1-3/4")

* "10" Function is handed

** 2103 & FL2103 x Cylinder Only Application includes Cylinder Attachment Kit "CA-03"

MULLIONS

Mullion Cap
MC822



Key Removable
Mullion Cap
KMC822
(Rim Cylinder required)



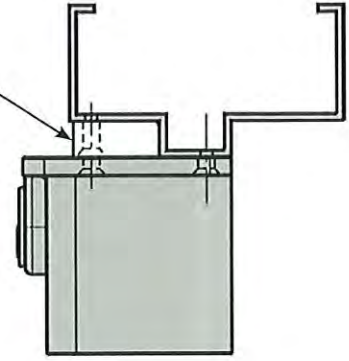
Mullion Cap Spacer
MCS822



Interlock
S1447



Stabilizer
ST989



Removable Mullions

The Mullion is used to adapt a double door opening to two single door openings with Rim Exit Devices. When the full width of an opening is required, the mullion may be removed.

KEY REMOVABLE MULLION (KR) - Provides a secure yet quick & easy means of removing the 822 or FL822 Mullion. The mullion can be reinstalled and locked without the need of the key.

STOCK SIZE - For openings 8'-0" high. For openings less than 8'-0" high the mullion can be cut down. For openings greater than 8'-0" high using the 822, KR822 or 811 mullions, consult factory.

FINISHES - 600, 689, 895. For finish description see page 3.

822, FL822, KR822, FLKR822 Mullion

U.L. LISTED - FL822 and FLKR822 listed for Fire Exit Hardware. For FIRE LABEL RATING Chart see page 33.

MULLION - 2" x 3" Steel.

MULLION BASE - Investment Cast Steel, 2" wide 3-1/2" deep. Furnished with steel anchors for concrete floors.

INTERLOCK - Black Powder Coated Investment Cast Stainless Steel. Furnished standard for FL822 and FLKR822 Mullions. It interlocks the mullion to the Rim Active Case and S300 or S301 strike.

STABILIZERS - Black Powder Coated Steel. Stabilizers are furnished standard for FL822 and FLKR822 Mullions.

MULLION CAP SPACER - Minimum width 3-1/2". For 2-1/4" frame spacer specify part No. MCS822. For use with 822 series mullion only (e.g. 822, FL822, HC822, HCKR822, KR822, FLKR822). MCS822 Kit or 822 mullion suffix option. See "To Order" example below.

822, FL822 MULLION CAP - MC822 Investment Cast Steel, 4" wide 3-5/8" deep.

KR822, FLKR822 KEY REMOVABLE MULLION CAP ASSEMBLY - Investment Cast Steel - can be ordered to convert existing 822 or FL822 mullions to Keyed Removable Mullions. Retrofits to the hole pattern of an MC822 Mullion Cap. **To order specify:** KMC822 or KMC822F.

CYLINDER - not furnished standard - Rim Type required. See page 19 for cylinder details.

HC822, HCKR822 Mullion

MULLION - 2" x 3" Steel Mullion is reinforced with a 1-1/2" x 2-1/2" 11 gage Steel Tube. MC822 or KMC822 Mullion Cap and MB822 Mullion Base Assemblies are used to secure the HC Mullion in the door opening. The S1447 Interlock must be used to Interlock the Active Case with the strike and is furnished standard with the HC822 Mullion.

To Order: Specify Mullion No. Height Finish (e.g. MCS822 x 8'-0" x 600)

811 Mullion

MULLION - 2" x 2" Steel Mullion.

MULLION CAP - Cast 4-1/2" wide x 2-5/16", furnished with machine screws for metal frames.

MULLION BASE - Cast 2" wide x 2-3/4", furnished with sheet metal screws and plastic anchors.

To Order: Specify Mullion No. Height Finish (e.g. 822 x 8'-0" x 600)

Mullion Base
MB822

Mullion Cap
MC811

Mullion Base
MB811

LCN 4110 SERIES

MOUNTING DETAILS

PARALLEL ARM (PUSH SIDE) MOUNTING

MAXIMUM OPENING

EDA or Fusible Link arm can be templated for 100°,

(A) = 5 15/16" (151 mm)

(B) = 7 1/4" (184 mm)

140°,

(A) = 4 7/16" (113 mm)

(B) = 5 3/4" (146 mm)

or 180°.

(A) = 2 15/16" (75 mm)

(B) = 4 1/4" (108 mm)

Hold-open points up to maximum opening with HEDA or Fusible Link arm.

CUSH arm can be templated for maximum opening at 85°,

(A) = 8 5/16" (211 mm)

(B) = 9 5/8" (244 mm)

90°,

(A) = 7 11/16" (195 mm)

(B) = 9" (229 mm)

100°,

(A) = 6 7/16" (164 mm)

(B) = 7 3/4" (197 mm)

or 110°.

(A) = 5 9/16" (141 mm)

(B) = 6 7/8" (175 mm)

Hold-open point at maximum opening with HCUSH arm.

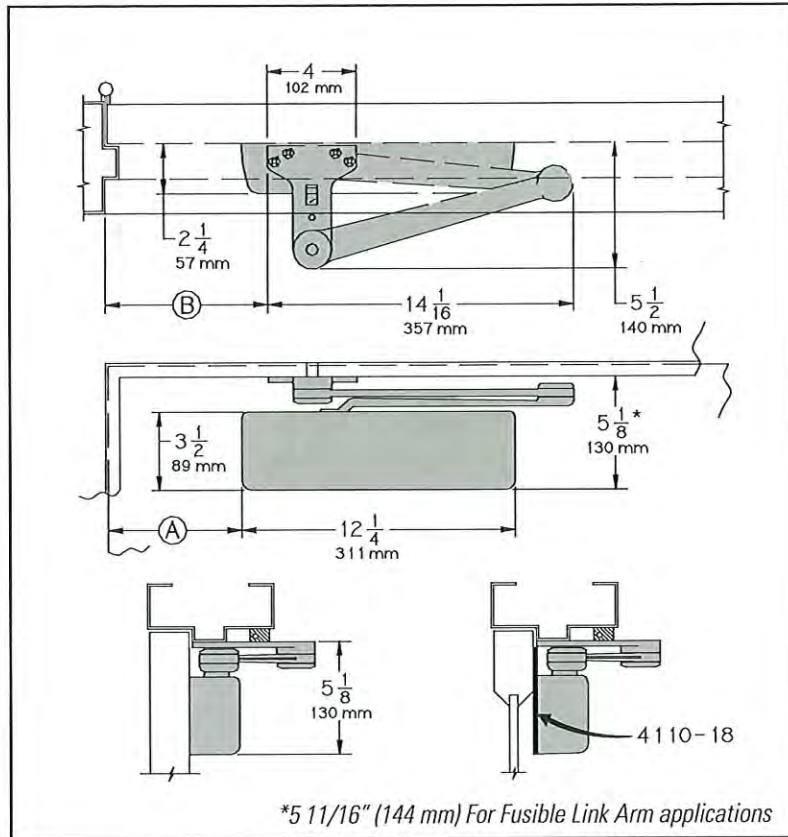
Spring Cush hold-open points are approximately 5° less than templated stop point.

Options

- ▶ Sized or non-sized cylinder.
- ▶ Delayed Action and/or Advanced Variable Backcheck cylinder.
- ▶ HEDA, CUSH, HCUSH, SPRING CUSH, SPRING HCUSH or Fusible Link arm.
- ▶ Metal or lead lined cover.

Special Templates

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



- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Auxiliary Stop** is recommended at hold-open point, where a door cannot swing 180°, or where CUSH-N-STOP arm is not used.
- ▶ **Clearance** for EDA, or CUSH shoe is 5 1/2" (140 mm) from door face.
- ▶ **Top Rail** less than 5 1/8" (130 mm) measured from stop requires PLATE, 4110-18. Plate requires 2" (51 mm) minimum measured from the stop.
- ▶ **Stop Width** minimum 1" (25 mm).
- ▶ **Head Frame** flush or rabbeted requires 4110-145 arm or PA SHOE ADAPTER, 4110-418, Use CUSH FLUSH PANEL ADAPTER, 4110-419 with CUSH arms.
- ▶ **Reveal** less than 2 3/4" (70 mm), use CUSH SHOE SUPPORT, 4110-30 with CUSH arms.
- ▶ **Blade Stop Spacer**, 4110-61 required to clear 1/2" (13 mm) blade stop.
- ▶ **Cush Arm** requires CUSH SHOE SUPPORT, 4110-30 for fifth screw anchorage with CUSH arms.
- ▶ **Delayed Action** Add suffix "DEL" to selected cylinder (eg. 4114 DEL). Not available with 4115 or 4116 cylinder. Delays closing from maximum opening to approximately 70°. Delay time adjustable up to approximately 1 minute.
- ▶ **Advanced Variable Backcheck** cylinder starts backcheck at approximately 45° instead of the normal 75°. Add suffix "AVB" to selected cylinder. When combined with Delayed Action consult factory for special template.

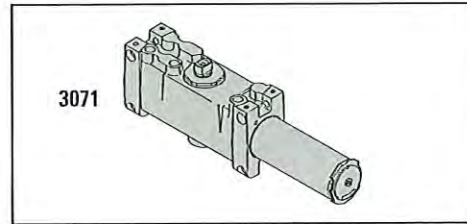
LCN 4110 SERIES

CYLINDERS

CYLINDER, 4110-3071

Standard, handed cast iron cylinder assembly.

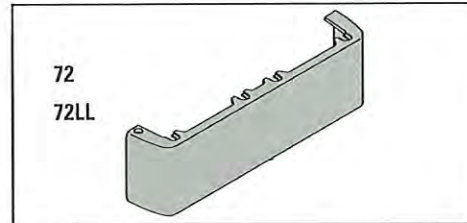
For various applications see "Table of Sizes" on 4110 Series page 63.



COVERS

COVER, 4110-72

Standard, non-handed plastic cover.

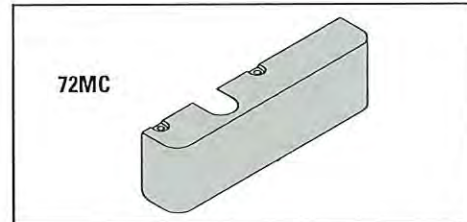


LEAD LINED COVER, 4110-72LL

Optional, non-handed plastic cover.

METAL COVER, 4110-72MC

Optional, handed cover. Required for plated finishes and custom powder coat finishes.



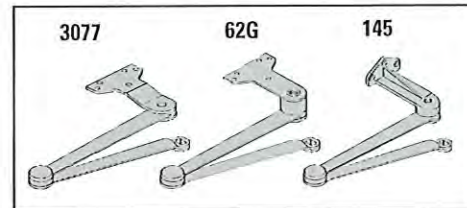
ARMS

EXTRA DUTY ARM, 4110-3077EDA, 4110-62G, 4110-145

Non-handed parallel arm features forged, solid steel main and forearm for potentially abusive installations.

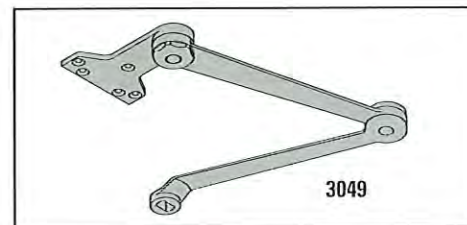
Optional 4110-62G thick hub shoe for blade stop clearance.

Optional 4110-145 flush transom shoe for single rabbeted installations. Optional shoes require special templating.



HOLD-OPEN ARM 4110-3049EDA

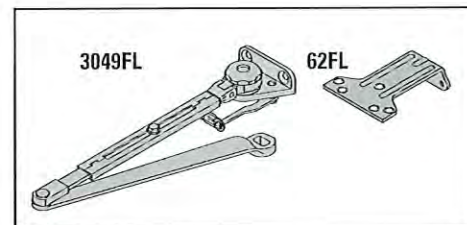
Optional handed arm provides hold-open function, adjustable at shoe.



FUSIBLE LINK ARM, 4110-3049FL

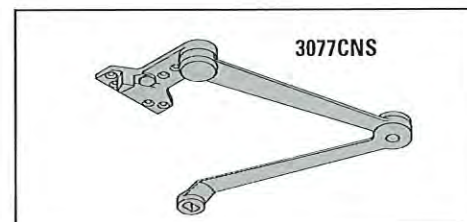
Optional, handed arm releases hold-open function adjustable at shoe when exposed to temperatures above 165° F.

NOTE: Check local codes before specifying FL arms. NOT A LIFE SAFETY PRODUCT!



CUSH-N-STOP ARM, 4110-3077CNS

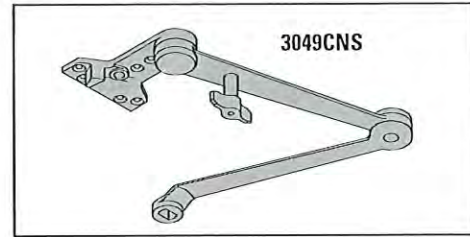
Optional, handed parallel arm features solid forged steel main arm and forearm with built-in stop in soffit shoe.



LCN 4110 SERIES

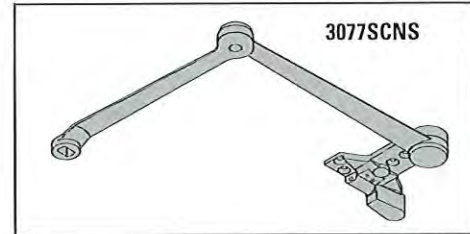
H-CUSH ARM 4110-3049CNS

Optional handed arm provides hold-open function with templated stop/hold-open points. Handle controls hold-open function.



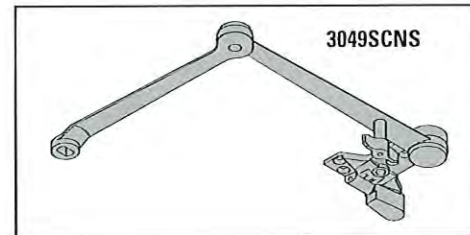
SPRING CUSH ARM, 4110-3077SCNS

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe.



SPRING H-CUSH ARM, 4110-3049SCNS

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe. Handle controls hold-open function.



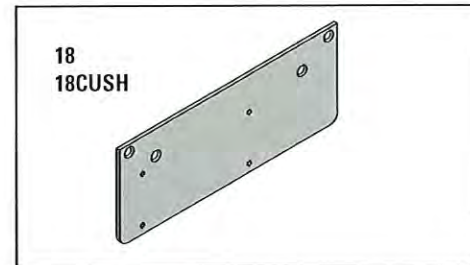
INSTALLATION ACCESSORIES

PLATE, 4110-18, 4110-18CUSH

Required for push side mount where top rail is less than 5 1/8" (130 mm), measured from the stop.

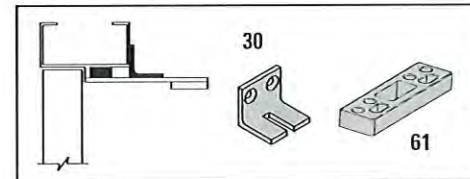
Plate requires minimum 2" (51 mm) minimum top rail.

Plate also used with CUSH Arm installations.



CUSH SHOE SUPPORT, 4110-30

Provides anchorage for fifth screw used with CUSH arm, where reveal is less than 3 1/16" (78 mm).

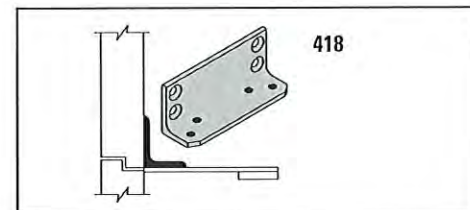


BLADE STOP SPACER, 4110-61

Lowers parallel arm shoe to clear 1/2" (13 mm) blade stop

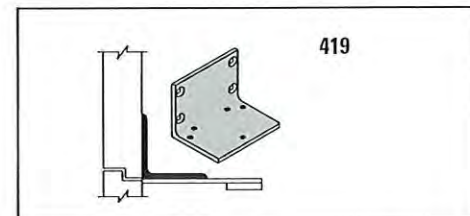
PA SHOE ADAPTER, 4110-418

Provides horizontal mounting surface for parallel arm shoe on single rabbetted or flush frame.



CUSH FLUSH PANEL ADAPTER, 4110-419

Provides horizontal mounting surface for CUSH shoe on single rabbetted or flush frame.



LCN 4110 SERIES

ORDERING INFORMATION

TABLE OF SIZES Select closer based on width of door.
 The spring power of non-sized 4111 cylinder is adjustable from size 1 through size 5 and is shipped set to size 3.
 Sized 4110 series cylinders available in size 2, 3, 4, 5, or 6.
 Closing power of all 4110 Series closers can be increased 50%.
 Specify next higher size closer where strong drafts exist.
 Delayed action not available with 4115 or 4116 cylinder
 H - CUSH and SPRING H-CUSH arm not available with 4116 cylinder.

→ Indicates recommended range of door width for closer size

EXTERIOR (and VESTIBULE) DOOR WIDTH

	28" 711mm	30" 762mm	36" 914mm	42" 1067mm	48" 1219mm
	size 3	size 4	size 5	size 6	
*4111	→				
4113	→				
4114	→				
4115	→				
4116	→				
Minimum Door Width	* Adjustable Size 1 thru 5				


INTERIOR DOOR WIDTH

	28" 711mm	34" 864mm	38" 965mm	48" 1219mm	54" 1372mm	60" 1524mm
	size 2	size 3	size 4	size 5	size 6	
*4111	→					
4112	→					
4113	→					
4114	→					
4115	→					
4116	→					
Minimum Door Width	* Adjustable Size 1 thru 5					

REDUCED OPENING FORCE 4110 CLOSERS

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

	DOOR WIDTH	36"	42"	48"
	8.5* lbs.	4111	4111	4111
	5.0* lbs.	4111	4111	4111

* Maximum opening force

HOW-TO-ORDER

4110 SERIES CLOSERS

1. SELECT CYLINDER SIZE

- 4111 (adjustable from size 1 to 5)
- 4112
- 4113
- 4114
- 4115 (DEL not available)
- 4116 (DEL, SHCUSH or HCUSH arm not available)

2. SPECIFY HAND

- RH
- LH

3. SELECT FINISH

- Standard Powder Coat _____
 Aluminum, Dark Bronze, Tan, Statuary,
 Light Bronze, Black, Brass.

Closer will be shipped with:

- STANDARD COVER,
- FIFTH SCREW SPACER
- EDA ARM,
- SELF-REAMING and TAPPING SCREWS,
 unless options listed below are selected.

4110 CLOSER OPTIONS

CYLINDER

- Delayed Action ((DEL), not available with 4115 or 4116)
- Advanced Variable Backcheck (AVB)

COVER

- Lead Lined (LL)
- Metal (MC)

FINISH

- Custom Powder Coat (RAL) _____
 (handed metal cover required)
- Plated Finish, US _____
 (handed metal cover required)
- SRI primer

SPECIFY ARM

- Hold-Open Extra Duty (HEDA)
- Fusible Link, 165° F (FL)
- Cush-N-Stop (CUSH)
- H-Cush-N-Stop (n/a with 4116 cylinder) (HCUSH)
- Spring Cush (SCUSH)
- Spring H-Cush (n/a with 4116 cylinder) (SHCUSH)

SCREW PACK

- TB*, Self-Reaming & Tapping (TBSRT)
 - Wood & Machine Screw (WMS)
 - TB*, Wood & Machine Screw (TBWMS)
 - TORX Machine Screw (TORX)
 - TB* & TORX Machine Screw (TBTRX)
- * Specify door thickness if other than 1 3/4".

INSTALLATION ACCESSORIES

- Plate, 4110-18
- CUSH Shoe Support, 4110-30
- Blade Stop Spacer, 4110-61
- PA Shoe Adapter, 4110-418
- CUSH Flush Panel Adapter, 4110-419

SPECIAL TEMPLATE

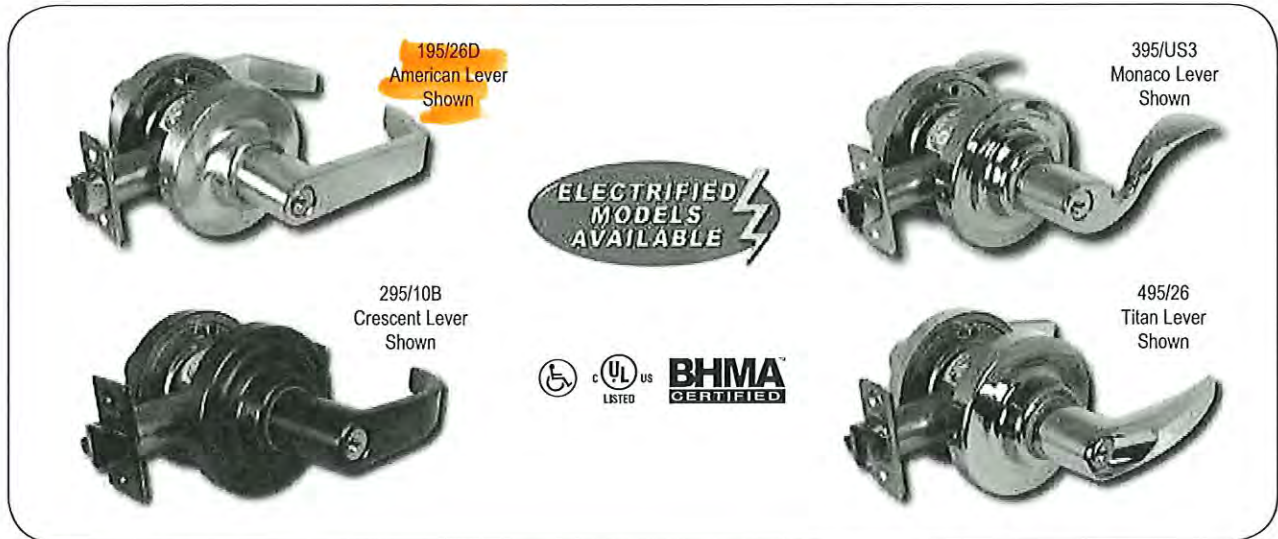
- ST- _____

SURVIVOR SERIES

CYLINDRICAL LEVERSETS ANSI 156.2 GRADES 1 & 2

SURVIVOR SERIES

Marks USA Survivor Series locksets are the most durable cylindrical lever locksets. The series is offered in four lever styles, conventional cylinder, IC core for "Best" size cores and Schlage® as well as others. The Survivor Series locksets are backed by Marks lifetime mechanical warranty. All functions are available in six standard finishes, are UL Listed for 3-hour fire rating, and satisfy ADA requirements.



MARKS GRADE 1 #195, 295, 395, 495		MARKS GRADE 2 #175, 275, 375, 475		DESCRIPTION	ANSI #	FINISH GROUPS
COMM. CYL.	IC CORE CYL.* 395 Not Available IC Core	COMM. CYL.	IC CORE CYL.* 375 Not Available IC Core			
N	—	N	—	PASSAGE	F75	3, 4, 10, 10B, 26, 26D
L	—	L	—	PRIVACY	F76	
LK	—	—	—	PRIVACY	F76 MOD.	
P	—	P	—	PATIO	F77	
DC	RDC	DC	RDC	COMMUNICATING	F80	
A	RA	A	RA	ENTRY	F81	
B	RB	B	RB	ENTRY	F82A	
AB	RAB	AB	RAB	ENTRANCE	F109	
AQ	—	AQ	—	EXIT	F83	
S	RS	S	RS	CLASSROOM	F84	
F	RF	F	RF	STOREROOM	F86	
DW	RDW	DW	RDW	INSTITUTION	F87	
DA	RDA	DA	RDA	VESTIBULE	F88	
FQ	—	FQ	—	EXIT	F89	
T	RT	T	RT	CORRIDOR	F90	
TK	RTK	—	—	HOSPITAL/PRIVACY	F90 MOD.	
GB	RGB	—	—	STORE DOOR	F91	
BS	RBS	BS	RBS	SERVICE STATION LOCK	F92	
H	—	H	—	HOTEL	F93	
DB	RDB	—	—	CLASSROOM INTRUDER	F110	
DO	—	DO	—	DUMMY TRIM OUTSIDE	—	
DT	—	DT	—	FULL DUMMY TRIM	—	
NB	—	NB	—	COMMERCIAL PASSAGE	F111	
FB	RFB	FB	RFB	COMMERCIAL STOREROOM	F112	
SB	RSB	SB	RSB	COMMERCIAL CLASSROOM	F113	
FEL	RFEL	—	—	ELECTRICALLY LOCKED	—	
FEU	RFEU	—	—	ELECTRICALLY UNLOCKED	—	

STANDARD FEATURES

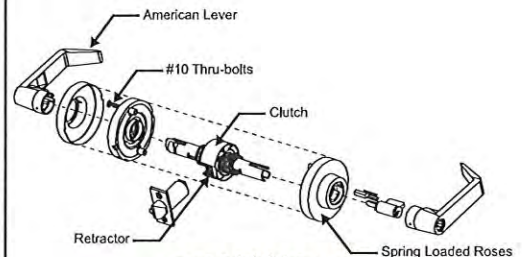
- Backset: 2-3/4"; 2-3/8", 3-3/4" & 5" Optional
- Levers: Solid cast Zamac; w/ 1/2" return (Except 395, 495, 375 & 475)
- Door thickness: 1-5/8" - 1-7/8"; 1-3/8" doors use K1904 spacer.
- Cylinder: MARKS "C" keyway, 6 pin w/ 2 keys
- UL Listed, 3 hour fire rated

95 Series:

- Latch #1834, Front: 1-1/8" x 2-1/4"; Throw: 9/16"; Stainless steel nose
- Roses: Thru-bolted, 3-7/16" dia., spring loaded 2-#10 thru-bolts
- Strike: #1135, 4-7/8" ASA curved lip strike

75 Series:

- Latch #1134, Front: 1-1/8" x 2-1/4"; Throw: 1/2"; Stainless steel nose
- Roses: Thru-bolted, 3-1/4" dia., spring loaded 2-#10 thru-bolts
- Strike: #1136, 2-3/4" "T" strike



GRADE 1
95 SERIES LEVERSETS TESTED TO
TWICE BHMA CYCLES

* Standard & HI-SECURITY™ IC Core Models: Interchangeable Core models for 6 or 7 pin cores (not included).
Accepts: Marks, Marks HI-SECURITY™, Medeco®, KeyMark™, Falcon, Schlage® small format & Best®. IC Core Tailpieces ARE Included.

LIFETIME MECHANICAL WARRANTY • FINISHES ARE EXCLUDED FROM THIS WARRANTY

CYLINDRICAL KNOB/LEVER FUNCTIONS

ANSI 156.2 GRADES 1 & 2

CYLINDRICAL LEVER FUNCTIONS

ANSI # CODE	Marks Function		ANSI # CODE	Marks Function	
	I/S	O/S		I/S	O/S
F75 PASSAGE: Latch by knob/lever either side.		N	F90 (MOD.) HOSPITAL/PRIVACY: Deadlocking latch by knob/lever either side unless outside locked by knob/lever or inside push-button. Unlock by turn-knob, turning inside knob/lever or closing door.		TK
F76 PRIVACY: Latch by knob/lever either side unless outside knob/lever locked by push-button from inside. Outside unlocks by turning inside knob/lever, outside emergency turn or closing door.		L	F91 STORE DOOR (95 Series Leverset ONLY): Deadlocking latch by knob/lever either side except when both knob/levers are locked by key from either side.		GB
F76 (MOD.) HOSPITAL/PRIVACY: Latch by knob/lever either side unless outside knob/lever locked by push-button from inside. Outside unlocks by turning inside knob/lever, outside emergency turn-knob or closing door.		LK	F92 SERVICE STATION LOCK: Deadlocking latch by knob/lever either side unless outside locked by key or inside push-button. Unlock by key, turning inside knob/lever or closing door, except when slotted push-button is turned in locked position. Inside knob/lever always opens latch.		BS
F77 PATIO: Deadlocking latch by knob/lever either side unless outside knob/lever locked by push-button inside. Unlocks by turning inside knob/lever or closing door.		P	F93 HOTEL: Deadlocking latch by knob/lever inside. Outside knob/lever always locked. Inside push-button projects indicator on cylinder face shutting out all keys except emergency key. Turning inside knob/lever or closing door releases push-button.		H
F80 COMMUNICATING: Key both sides. Locks or unlocks either knob/lever independent of the other. Deadlocking latch.		DC	F109 ENTRY: Outside locked by pushing turn-button inside. Key outside opens lock. Rotating inside knob/lever releases button and outside knob/lever. By pushing and turning inside button, outside knob/lever remains locked. Deadlocking latch.		AB
F81 ENTRY: Deadlocking latch bolt by knob/lever either side except when outside locked by turn-button inside. When outside locked, key outside or knob/lever inside opens lock. Turn-button operated manually.		A	F110 CLASSROOM INTRUDER: Deadlocking latch by knob/lever either side, except when outside locked by key inside. Key outside locks or unlocks outside. Inside always open		DB
F82A ENTRY: Deadlocking latch by knob/lever either side. Outside locked by push-button inside. When outside locked by push-button inside, key opens lock, unlocks push-button. Inside knob/lever always opens latch. Closing door does not release push-button.		B	DUMMY TRIM: Outside only, rigid.		DO
F83 EXIT: Deadlocking latch by knob/lever either side except when outside locked by turn-button inside. Inside knob/lever always opens latch. Turn-button operated manually.		AQ	DUMMY TRIM: Both sides, rigid.		DT
F84 CLASSROOM: Deadlocking latch by knob/lever inside. Outside knob/lever locked or unlocked by key.		S	F111 COMMUNICATING PASSAGE: Blank outside. Deadlocking latch by knob/lever inside.		NB
F86 STOREROOM: Deadlocking latch by knob/lever inside, key outside. Outside knob/lever always locked.		F	F112 COMMUNICATING STOREROOM: Blank outside. Deadlocking latch by key only. Knob/lever always locked.		FB
F87 INSTITUTION: Both knob/levers always locked. Deadlocking latch by key both sides.		DW	F113 COMMUNICATING CLASSROOM: Blank outside. Inside knob/lever locked or unlocked by key. Deadlocking latch.		SB
F88 VESTIBULE: Deadlocking latch by knob/lever either side, except when outside knob/lever locked by key inside. Key outside retracts deadlocking latch. Inside always open.		DA	ELECTRICALLY LOCKED - FEL: <i>(Fail Safe)</i> Outside always locked electrically. Open by key outside, switch or loss of power. Deadlocking latch by lever inside. Lever only.		FEL
F89 EXIT: Deadlocking latch by knob/lever inside. Outside always locked.		FQ	ELECTRICALLY UNLOCKED - FEU: <i>(Fail Secure)</i> Outside always locked until unlocked by key or electrically energized. Deadlocking latch by lever inside. Lever only.		FEU
F90 CORRIDOR: Deadlocking latch by knob/lever either side unless outside locked by key or inside push-button. Unlock by key, turning inside knob/lever or closing door.		T			

CYLINDRICAL KNOB/LEVER FUNCTIONS

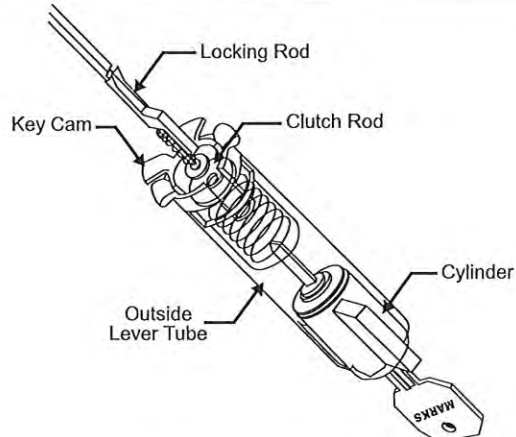
SURVIVOR SERIES

CYLINDRICAL LEVERSETS ANSI 156.2 GRADES 1 & 2

SURVIVOR SERIES CYLINDRICAL LEVERSETS

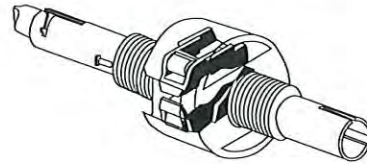
CLUTCH SYSTEM

When locked, the Survivor's clutch disengages the outside lever allowing it to turn freely without opening the latch. This reduces the torque applied to the outside lever. Other locksets with RIGID levers are prone to failure because of excessive torque.



SUPER STRENGTH RETRACTOR

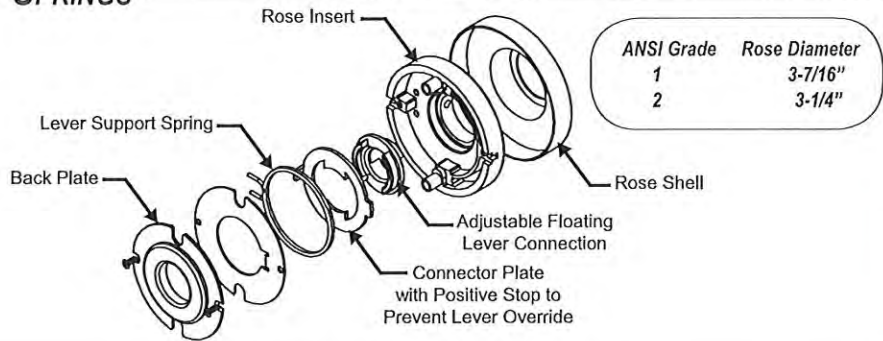
The Survivor's retractor is cast stainless steel with bronze roller bearings for ultra-high strength, smooth operation & long life.



LONG LIFE LEVER SUPPORT SPRINGS

Each Survivor rose contains its own proprietary high strength lever support spring.

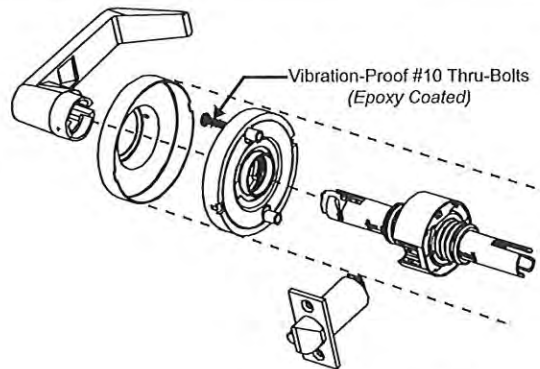
*Twice BHMA continuous cycles,
NO LEVER DROOP...EVER!*



STRENGTH & LIFE

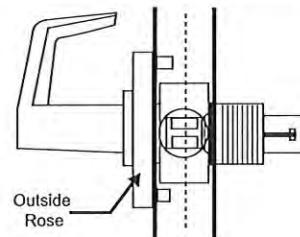
SURVIVOR:

- Withstands torque of 1800 inch-pounds; over twice ANSI/BHMA (1996) test value
- Life tested over twice BHMA cycles; Fully operational after these tests
- Thru-bolting with #10 epoxy coated bolts assures vibration-proof mounting
- Only two thru-bolts for easy installation
- Breakaway handles (*American & Crescent design*) protect against excessive abuse

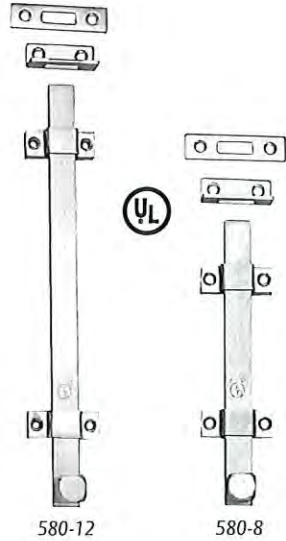


QUICK INSTALLATION

- The Survivor easily adjusts for door thickness
- 1-5/8" - 1-7/8" without the use of spacer plates or special tools
- Adjustment is made by merely rotating outside rose
- Spacer plates are available for 1-3/8" doors with K1904 spacer rings
- Extend to 2-1/4" door thickness with D7 option

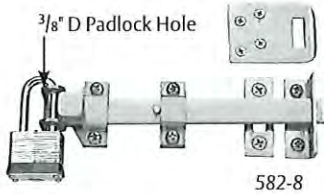


LIFETIME MECHANICAL WARRANTY • FINISHES ARE EXCLUDED FROM THIS WARRANTY



580-12

580-8



582-8

Surface Bolts No. 580, 582 Series

Material: No. 580: Steel, stainless steel
No. 582: Stainless steel

Finishes: US3, US10, US10B painted, US26D, US32D

Fastener: No. 580: 8 ea. #10x1¹/₄" FH SMS, 8 ea. #10-24x1" FH MS
No. 582: Bolt: 4 ea. #10-24x1¹/₂" PH MS; 4 ea. #10x1¹/₄" PH WS
Strikes: 6 ea. #10-32x1¹/₂" FH MS; 6 ea. #10-32x1¹/₂" FH WS

Other: 1¹/₈" bolt throw, 1/4" x 3/4" bolt material

Features:

- No. 580 Series bolts are UL listed for use on inactive leaf of a pair of 3-hour labeled fire doors
- No. 580 and No. 582 series both include a universal top strike and a mortise bottom strike
- No. 582 Series has a bracket for padlock (padlock not included)

Options: Sex bolts available for extra secure mounting

No.	Bolt Length	Weight	ANSI A156.16
580-8	8"	1.1 lbs.	L04161
580-12	12"	1.4 lbs.	L04161
580-18	18"	1.7 lbs.	L04161
580-24	24"	2.0 lbs.	L04161
582-8	8"	1.3 lbs.	
582-12	12"	1.6 lbs.	



3/8" D Padlock Hole

Heavy Duty Surface Bolts No. 585 Series

Material: Steel

Finishes: US26D

Fastener: Bolt: 4 ea. 1/4-20x2¹/₄" FH MS
4 ea. 1/4-20x1³/₈" sex bolts
Strike: 2 ea. #14x2¹/₂" FH SMS, 2 ea. Plastic Anchors
2 ea. 1/4-20x1" FH MS, 2 ea. 1/4-20 Lead Anchors

Other: 1¹/₄" bolt throw, 3/4" x 3/4" bolt material

Features:

- UL listed for use on inactive leaf of a pair of 3-hour labeled fire doors
- Includes a universal top strike and a mortise bottom strike
- Locks in both the up and down position
- Bolt locks automatically when thrown – can be released only by pressing knob toward door while retracting
- Can be used on any type of door
- Accommodates padlock

No.	Bolt Length	Weight	ANSI A156.16
585-12	12"	3.9 lbs.	L04161
585-24	24"	6.1 lbs.	L04161

800-458-2424 | www.rockwoodmfg.com
Check the web site for the up-to-date catalog

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ASSA ABLOY

The global leader in
door opening solutions



TRIM & AUXILIARY

4

Round Wrought Door Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H4E)

- Notes:
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - May be combined with a plate to make a pull plate
 - Other centers on special order
 - If ordered with tempered glass, specify glass thickness and hole size

CTC Length	4G	4H	4J	4L
Inches	8	9	10	12
Millimeters	203	229	254	305

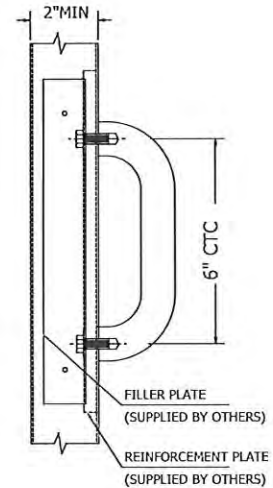


P4E

Security Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 1" (25 mm) diameter
 Projection: 2-1/4" (57 mm)
 Clearance: 1-1/4" (32 mm)
 CTC Length: 6" (152 mm)
 Material: Stainless Steel
 Finish: US32D
 Fasteners: Two (2) 3/8-16 x 1-1/4" "NYLOC" hex head cap screws

- Notes:
- For metal doors
 - Requires reinforcing plate with an access plate and Torx screws for door edge



T4E

Security Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 1" (25 mm) diameter
 Projection: 2-1/4" (57 mm)
 Clearance: 1-1/4" (32 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 CTC Length: 6" (152 mm)
 Material: Stainless Steel
 Finish: US32D
 Fasteners: Two (2) 1/4-20 x 2-1/4" Security Torx thru-bolts

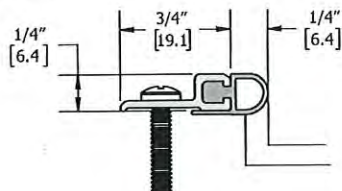


THRESHOLDS & WEATHERSTRIPPING



JAMB WEATHERSTRIPPING (CONTINUED)

891S

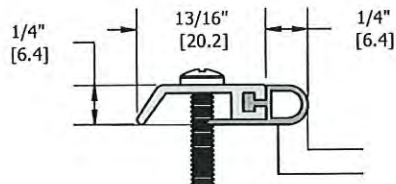


Finishes: MIL, DBA, GLD
 Inserts: V, N, S, F
 Category: H, J

Certifications:



896S

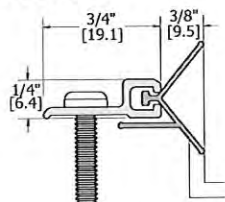


Finishes: MIL, DBA, GLD
 Inserts: V, N, S
 Category: H, J

Certifications:



892S

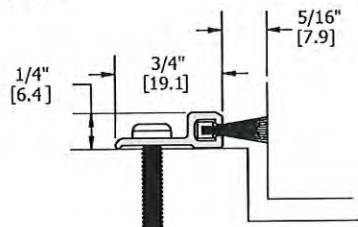


Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J

Certifications:



893S



Finishes: MIL, DBA, GLD
 Inserts: W
 Category: J

Certifications:





THRESHOLDS & WEATHERSTRIPPING

PANIC THRESHOLDS

Use in conjunction with surface applied vertical rod exit device

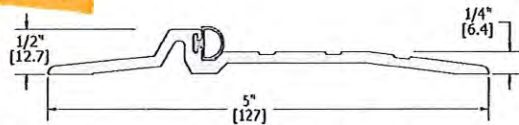
Fasteners: #10 x 1-1/2" flat head wood screws, other screw types and anchors available upon request

Options: Available with Sure Step non-slip abrasive coating

- Notes:
- MIL finish thresholds are supplied with zinc plated screws
 - Brass thresholds are supplied with brass screws
 - Color anodized thresholds are supplied with screws plated to match



520S



Finishes: MIL, DBA, GLD, MIB

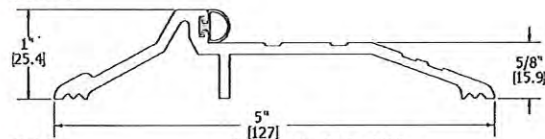
Inserts: V, N, S, W

Door Clearance: Allow 3/8"

Certifications:



532S



Finishes: MIL, DBA, GLD, MIB

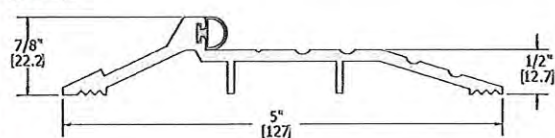
Inserts: V, N, S, W

Door Clearance: Allow 3/4"

Certifications:



541S



Finishes: MIL, DBA, GLD, MIB

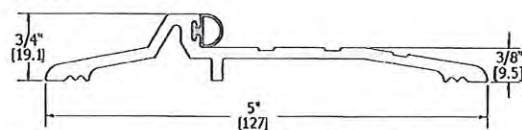
Inserts: V, N, S, W

Door Clearance: Allow 5/8"

Certifications:



552S



Finishes: MIL, DBA, GLD, MIB

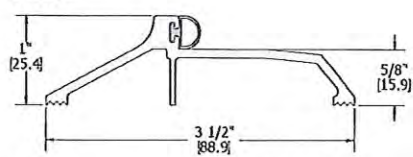
Inserts: V, N, S, W

Door Clearance: Allow 1/2"

Certifications:



560S



Finishes: MIL, DBA, GLD

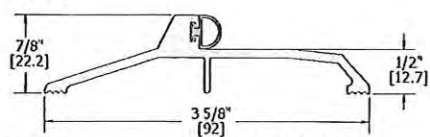
Inserts: V, N, S, W

Door Clearance: Allow 3/4"

Certifications:



565S



Finishes: MIL, DBA, GLD

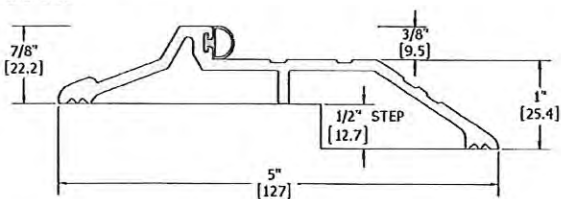
Inserts: V, N, S, W

Door Clearance: Allow 5/8"

Certifications:



570S



Finishes: MIL, DBA, GLD, MIB

Inserts: V, N, S, W

Door Clearance: Allow 5/8"

Certifications:





TRIM & AUXILIARY



259F

Tri Base Floor Stop

Base: 2-1/2" wide x 1-9/16" deep (64 mm x 40 mm)
 Overall Height: 1-11/16" (43 mm)
 Material: Cast brass with grey rubber bumper
 Finishes: US3, US4, US10, US10B, US26, US26D
 Fasteners: Three (3) #10 x 1-1/4" FPHWS, three (3) plastic anchors, three (3) 10-32 x 3/4" FPHMS, and three (3) 10-32 lead anchor

Notes:

- 1/2" (13 mm) max door to floor clearance
- Heavy duty - for use in high traffic areas
- For use on wood or concrete floors



259H

Tri Base Floor Stop - Tall

Base: 2-1/2" wide x 1-9/16" deep (64 mm x 40 mm)
 Overall Height: 2-1/4" (57 mm)
 Materials: Cast brass with grey rubber bumper
 Finishes: US3, US4, US10, US10B, US26, US26D
 Fasteners: Three (3) #10 x 1-1/4" FPHWS, three (3) plastic anchor, three (3) 10-32 x 3/4" FPHMS, and three (3) 10-32 lead anchors

Notes:

- 1" (25 mm) max door to floor clearance
- Heavy duty - for use in high traffic areas
- For use on wood or concrete floors



267F

Cast Floor Stop

Certifications: Meets ANSI A156.16 for L02131
 Base Diameter: 2-1/4" (57 mm)
 Overall Height: 3-1/8" (80 mm)
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: One (1) #10 x 1" OPHWS, one (1) plastic anchor, one (1) 5/16-18 lead anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 x 2-1/2" combo threaded stud

Notes:

- 2-3/8" (60 mm) max door to floor clearance
- Heavy duty - for use in high traffic areas
- For use on concrete floors



267S

Cast Floor Stop

Certifications: Meets ANSI A156.16 for L02121
 Base Diameter: 2-1/4" (57 mm)
 Overall Height: 3-1/8" (80 mm)
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Three (3) #10 x 1" OPHWS and three (3) plastic anchors

Notes:

- 2-3/8" (60 mm) max door to floor clearance
- Heavy duty - for use in high traffic areas
- For use on wood floors





TRIM & AUXILIARY

Door Protection Plates

The metal door protection plates below meet ANSI A156.6 for J101 Metal Armor Plate, J102 Metal Kickplate, and J103 Metal Mop Plate. The plastic door protection plates below meet ANSI A156.6 for J105 Plastic Armor Plate, J106 Plastic Kickplate, and J107 Plastic Mop Plate. Options for all plates include countersunk holes, UL armor plate stamped, self-adhesive tape, spanner head screws, torx head screws, round corners, wrap around side and bottom return, and 0.125" (3.2 mm) material. All plates below are supplied standard with #6 x 5/8" truss head screws (unless specified otherwise). They are available in mop plate, kick plate, stretcher plate, and armor plate sizes.

- Mop Plate:** Protects the bottom of the pull side of doors subject to cleaning and mopping procedures.
- Kick Plate:** Protects the bottom of the push side of doors subject to scuffing from foot traffic.
- Stretcher Plate:** Protects doors in specific areas where constant contact is made by stretchers, service carts, or other equipment.
- Armor Plate:** Protects lower half of doors from abuse by carts, trucks, and rough usage.

190S

Gauge: 0.050" (1.3 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Bevel: None
 Options: UL Listed for US32 and US32D*

193S

Gauge: 0.050" (1.3 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Bevel: 3 edges
 Options: UL Listed for US32 and US32D*

194S

Gauge: 0.050" (1.3 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Bevel: 4 edges
 Options: UL Listed for US32 and US32D*

198S

Gauge: 0.038" (0.8 mm)
 Materials: Stainless steel
 Finishes: US32D
 Options: UL Listed*

199B

Gauge: 0.038" (0.8 mm)
 Materials: Aluminum
 Finishes: Bright gold anodized
 Fasteners: #6 x 5/8" TPH Tapping Screws

220S

Gauge: 0.062" (1.6 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Bevel: None

223S

Gauge: 0.062" (1.6 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Bevel: 3 edges

224S

Gauge: 0.062" (1.6 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Bevel: 4 edges

204S

Gauge: 0.125" (3.2 mm)
 Materials: Clear plastic
 Bevel: 4 edges

214S

Gauge: 0.125" (3.2 mm)
 Materials: Plastic laminate
 Bevel: 4 edges
 Colors: Black, Brown, Grey
 Notes: Other colors are available and will be subject to minimum order quantities; priced on application

225S

Gauge: 0.060" (1.9 mm)
 Materials: Kydex®
 Colors: CBO - Calcutta Black, KGO - Beige, KHO - Chocolate
 Notes: Other colors are available and will be subject to minimum order quantities; priced on application
 Options: UL Listed*



*Must specify UL stamp.



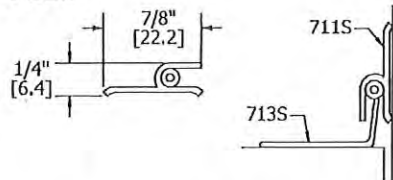
THRESHOLDS & WEATHERSTRIPPING



INTERLOCKING/OVERHEAD DRIP GUARDS

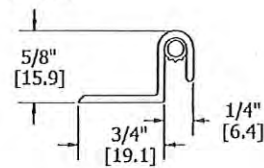
Fasteners: #6 x 5/8" pan head sheet metal screws

711S



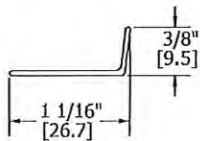
Finishes: MIL, DBA, GLD
 Insert: V
 Certifications:

718S



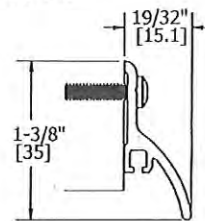
Finishes: MIL, DBA, GLD
 Inserts: V
 Certifications:

713S



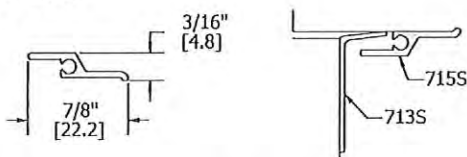
Finishes: DBA, GLD, MIB, CLR
 Certifications:

770S



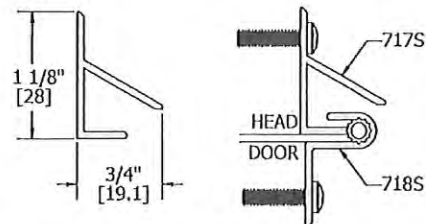
Finishes: MIL, DBA, GLD
 Insert: B, V
 Certifications:

715S



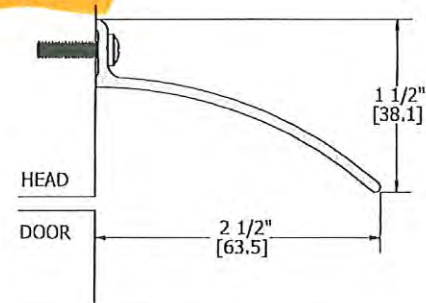
Finishes: DBA, GLD, MIB, CLR
 Certifications:

717S



Finishes: MIL, DBA
 Certifications:

810S



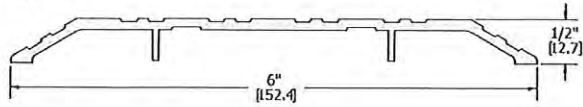
Finishes: MIL, DBA, GLD
 Certifications:

THRESHOLDS & WEATHERSTRIPPING



SADDLE THRESHOLDS (CONTINUED)

415S



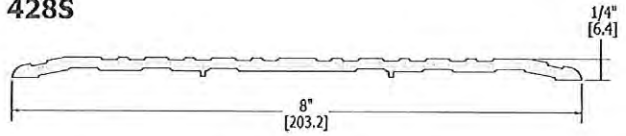
Finishes:

MIL, DBA, GLD, MIB

Certifications:



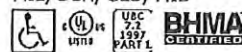
428S



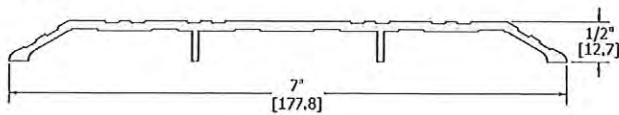
Finishes:

MIL, DBA, GLD, MIB

Certifications:



416S



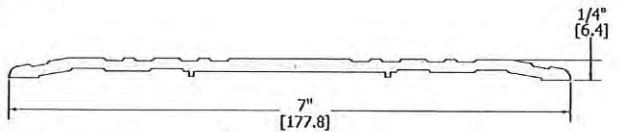
Finishes:

MIL, DBA, GLD, MIB

Certifications:



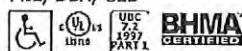
430S



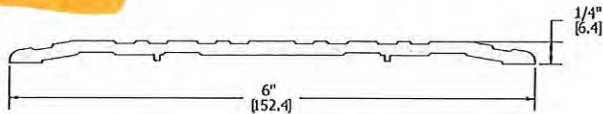
Finishes:

MIL, DBA, GLD

Certifications:



417S



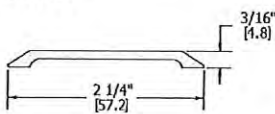
Finishes:

MIL, DBA, GLD, MIB

Certifications:



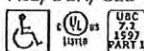
436S



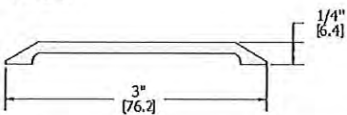
Finishes:

MIL, DBA, GLD

Certifications:



418S



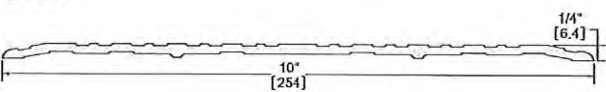
Finishes:

MIL, DBA, GLD, MIB

Certifications:



448S



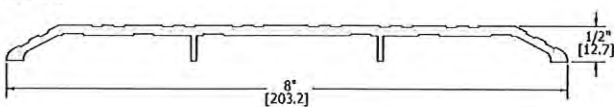
Finishes:

MIL, DBA

Certifications:



426S



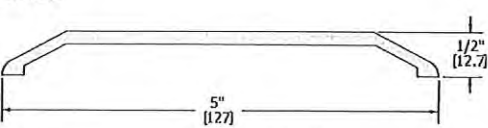
Finishes:

MIL, DBA, GLD, MIB

Certifications:



492S



Finishes:

MIL, DBA, GLD

Certifications:

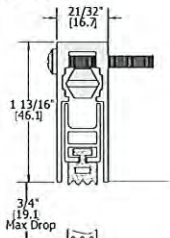




THRESHOLDS & WEATHERSTRIPPING

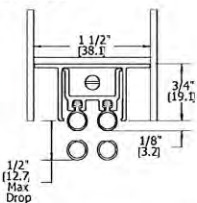
AUTOMATIC DOOR BOTTOMS (CONTINUED)

740S



Finishes: DBA, GLD, CLR
 Inserts: N, S
 Category: H, J
 Certifications:

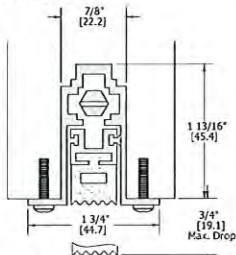
742S



Finishes: MIL
 Inserts: N, V
 Category: J
 Certifications:

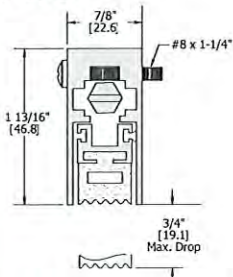
Notes: For use on hollow metal door

743S



Finishes: MIL
 Inserts: N
 Category: H, J
 Certifications:

747S



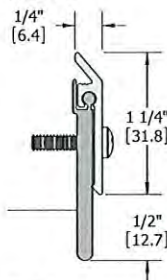
Finishes: CLR, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:

DOOR BOTTOM SWEEPS

Typically door bottom sweeps are used on the exterior of an outswing door
 Fasteners: #6 x 5/8" pan head sheet metal screws furnished with mortise types

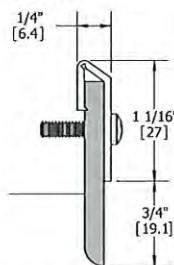
- Notes:
- MIL finish weatherstripping is supplied with zinc plated screws
 - Brass weatherstripping is supplied with brass screws
 - Color anodized weatherstripping is supplied with screws plated to match
 - Stainless steel weatherstripping is supplied with stainless steel screws

750S



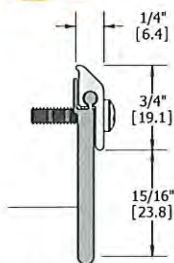
Finishes: DBA, GLD, MIB, CLR, US32D
 Inserts: N, S
 Category: H, J
 Certifications:

752S



Finishes: MIL, DBA, GLD
 Inserts: V
 Category: H, J
 Certifications:

753S



Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:





301D

Heavy Duty Hinge Pin Stop

Certifications: Meets ANSI A156.16 for L02223
 Materials: Wrought steel with rubber bumpers
 Finishes: US3, US26D
 Notes:

- Works with 1/4" (6 mm) and 5/16" (8 mm) hinge pins
- For use where standard door stops are not desirable
- Positive slip proof design
- Adjustable from 70 degrees to 100 degrees



303W

Handrail Bracket

Certifications: Meets ANSI A156.16 for L03061
 Base Diameter: 3-5/32" (80 mm)
 Base to Center of Rail: 2-3/4" (70 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US15A, US19, US26, US26D
 Fasteners: Three (3) #10 x 1-1/4" FPHWS, three (3) plastic anchors, three (3) 10-24 x 13/16" FPHMS, and three (3) 10-24 lead anchors



305D

Wire Pull

Certifications: Meets ANSI A156.9 for B02011
 Diameter of Rod: 5/16" (7.9 mm)
 Projection: 1-9/32" (32.5 mm)
 CTC Lengths: 3" (76 mm), 3-1/2" (89 mm), 4" (102 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US26, US26D
 Fasteners: Two (2) 8-32 x 1-3/4" TPHMS



307D

Door Silencer

Certifications: Meets ANSI A156.16 for L03011
 Diameter: 1/2" (13 mm)
 Projection: 1/8" (3 mm)
 Materials: Rubber
 Notes:

- For use with metal frames
- Proper installation eliminates door rattle and provides constant tension for door latches or locks



308D

Door Silencer

Certifications: Meets ANSI A156.16 for L0302
 Projection: 9/64" (3.5 mm)
 Base: 3/8" x 3/4" (9.5 mm x 19 mm)
 Length: 3/4" (19 mm)
 Materials: Rubber
 Notes:

- For use with wood frames
- Eliminates door rattle when door is latched
- Proper installation eliminates door rattle and provides constant tension for door latches or locks



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<p>FL #</p> <p>Application Type</p> <p>Code Version</p> <p>Application Status</p> <p>Comments</p> <p>Archived</p> <p>Product Manufacturer</p> <p>Address/Phone/Email</p> <p>Authorized Signature</p> <p>Technical Representative</p> <p>Address/Phone/Email</p> <p>Quality Assurance Representative</p> <p>Address/Phone/Email</p> <p>Category</p> <p>Subcategory</p> <p>Compliance Method</p> <p>Florida Engineer or Architect Name who developed the Evaluation Report</p> <p>Florida License</p> <p>Quality Assurance Entity</p> <p>Quality Assurance Contract Expiration Date</p> <p>Validated By</p> <p>Certificate of Independence</p> <p>Referenced Standard and Year (of Standard)</p> <p>Equivalence of Product Standards</p> <p>Certified By</p> <p>Sections from the Code</p> <p>Product Approval Method</p>	<p>FL16202-R6 </p> <p>Revision</p> <p>2017</p> <p>Approved</p> <p><input type="checkbox"/></p> <p>dormakaba USA Inc. / Door Hardware</p> <p>6161 E 75th Street</p> <p>Indianapolis, IN 46250</p> <p>(317) 806-3288</p> <p>bob.strong@dormakaba.com</p> <p>Robert Strong</p> <p>bob.strong@dormakaba.com</p> <p>Exterior Doors</p> <p>Exterior Door Components</p> <p>Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer</p> <p><input type="checkbox"/> Evaluation Report - Hardcopy Received</p> <p>Hermes F. Norero, P.E.</p> <p>PE-73778</p> <p>Intertek Testing Services NA, Inc. - QA Entity</p> <p>12/31/2020</p> <p>Locke Bowden P.E.</p> <p><input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received</p> <p>FL16202_R6_COI_COI_dormakaba_USA_SS_2019-02-18.pdf</p> <table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table> <p>Method 1 Option D</p>	Standard	Year	TAS 201	1994	TAS 202	1994	TAS 203	1994
Standard	Year								
TAS 201	1994								
TAS 202	1994								
TAS 203	1994								

Date Submitted 04/09/2020
 Date Validated 04/09/2020
 Date Pending FBC Approval 04/14/2020
 Date Approved 06/02/2020

Summary of Products

FL #	Model, Number or Name	Description
16202.1	Best Access Series 45H & 47H Mortise Locksets With/Without Deadlock and 48H & 49H Mortise Deadlocks	Best Access Series 45H & 47H Mortise Locksets With/Without Deadlock and 48H & 49H Mortise Deadlocks - Component Approval
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for hardware details, door construction requirements, allowable sizes, design pressures, configurations, installation requirements and limits of use.		Installation Instructions FL16202_R6_II_DOR005_SS_2019-02-18.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL16202_R6_AE_PER6055_SS_2019-02-18.pdf Created by Independent Third Party: Yes
16202.2	Best Access Series 9K Cylindrical Lockset Hardware	Best Access Series 9K Cylindrical Lockset Hardware - LMI - Component Approval
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for hardware details, door construction requirements, allowable sizes, design pressures, configurations, installation requirements and limits of use.		Installation Instructions FL16202_R6_II_DOR001_SS_2019-02-18.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL16202_R6_AE_PER6051_SS_2019-02-18.pdf Created by Independent Third Party: Yes
16202.3	dormakaba C100 Series Leversets	dormakaba C100 Series Leversets - Component Approval
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for hardware details, door construction requirements, allowable sizes, design pressures, configurations, installation requirements and limits of use.		Installation Instructions FL16202_R6_II_DOR017_SS_2020-04-09.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL16202_R6_AE_PER6753_SS_2020-04-09.pdf Created by Independent Third Party: Yes
16202.4	dormakaba DB80 Series Deadbolts with C100 Leversets	dormakaba DB80 Series Deadbolts with C100 Leversets - Component Approval
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for hardware details, door construction requirements, allowable sizes, design pressures, configurations, installation requirements and limits of use.		Installation Instructions FL16202_R6_II_DOR018_SS_2020-04-09.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL16202_R6_AE_PER6752_SS_2020-04-09.pdf Created by Independent Third Party: Yes
16202.5	PHI Series ARM-A-DOR Panic Exit Device	PHI Series "Arm-A-Dor" Panic Exit Device - Component Approval
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for hardware details, door construction requirements, allowable sizes, design pressures, configurations, installation requirements and limits of use.		Installation Instructions FL16202_R6_II_DOR008_SS_2019-02-18.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL16202_R6_AE_PER6142_SS_2019-02-18.pdf Created by Independent Third Party: Yes
16202.6	PHI Vertical Rod & Rim Exit Devices	PHI Series HC2200, HC2300, & HC2800 Vertical Rod Panic Exit Devices and HC2100 Rim Exit Device with HCK822 Removable Mullion - LMI - Component Approval
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A		Installation Instructions FL16202_R6_II_DOR002_SS_2019-02-18.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports



	<p>Other: See Installation Instructions and Product Evaluation Report for hardware details, door construction requirements, allowable sizes, design pressures, configurations, installation requirements and limits of use.</p>	<p>FL16202_R6_AE_PER6052_SS_2019-02-18.pdf Created by Independent Third Party: Yes</p>
<p>16202.7</p>	<p>Stanley Commercial Hardware Series - QDB Series Deadbolts with QCL or QTL Series Leversets</p>	<p>Stanley QDB Series Deadbolts with QCL or QTL Leverset Locking Hardware - Component Approval</p>
	<p>Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for hardware details, door construction requirements, allowable sizes, design pressures, configurations, installation requirements and limits of use.</p>	<p>Installation Instructions FL16202_R6_II_DOR003_SS_2019-02-18.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL16202_R6_AE_PER6053_SS_2019-02-18.pdf Created by Independent Third Party: Yes</p>
<p>16202.8</p>	<p>Stanley Commercial Hardware Series - QED 100RIM & QED 100SVR Devices</p>	<p>Stanley QED Series 100RIM & 100SVR (Surface Vertical Rod) Panic Exit Devices (Single Door application) - Component Approval</p>
	<p>Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for hardware details, door construction requirements, allowable sizes, design pressures, configurations, installation requirements and limits of use.</p>	<p>Installation Instructions FL16202_R6_II_DOR004_SS_2019-02-18.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL16202_R6_AE_PER6054_SS_2019-02-18.pdf Created by Independent Third Party: Yes</p>

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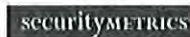
Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

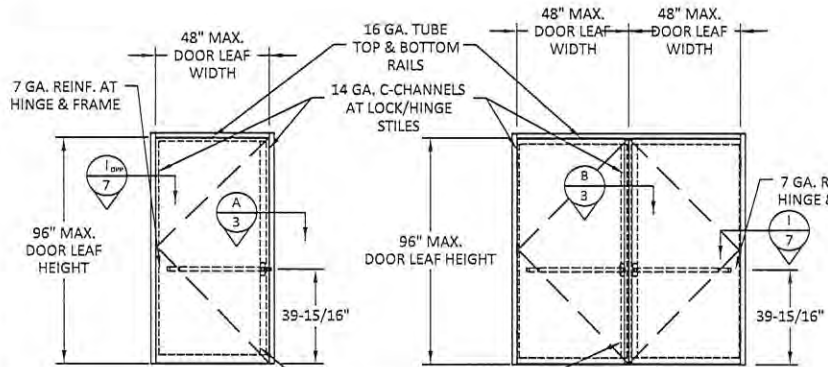
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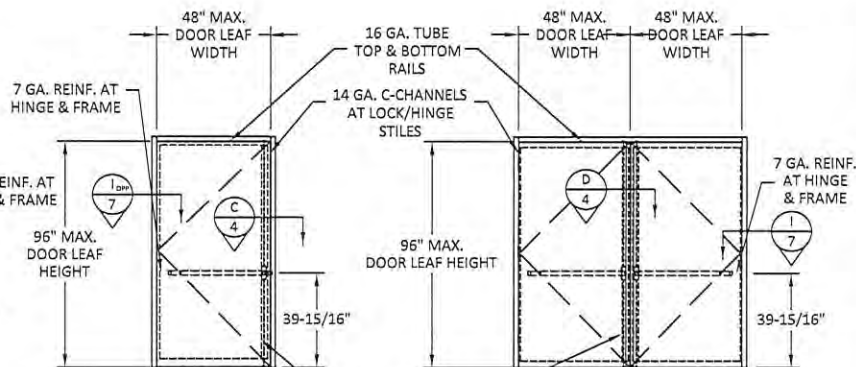




OUTSWING SINGLE STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2100 SERIES RIM DEVICE

OUTSWING SINGLE OR PAIR STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
TWO HC2100 SERIES RIM DEVICES
WITH HCKR822 MULLION

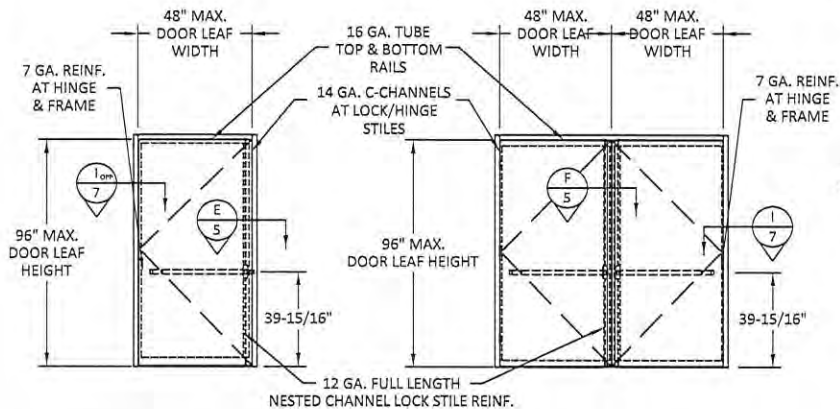
SERIES HC2100 RIM EXIT W/ HCK822 MULLION



OUTSWING SINGLE STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2200 SERIES SURFACE VERTICAL RODS

OUTSWING SINGLE OR PAIR STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
TWO HC2200 SERIES SURFACE VERTICAL RODS

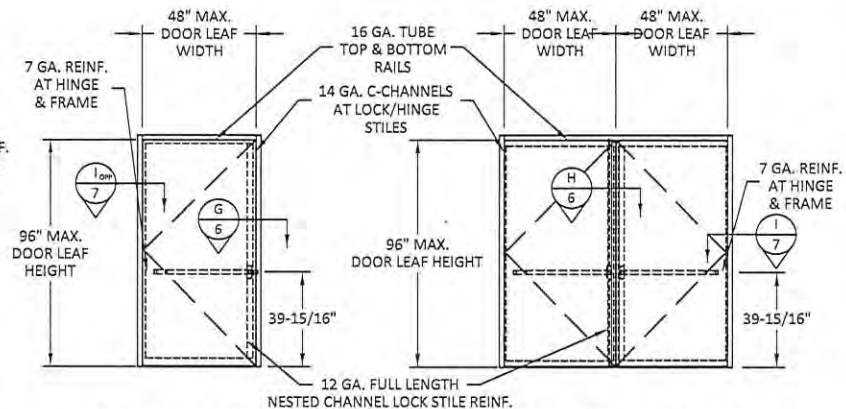
SERIES HC2200 SURFACE VERTICAL ROD (SVR)



OUTSWING SINGLE STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2800 SERIES CONCEALED VERTICAL ROD

OUTSWING SINGLE OR PAIR STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
TWO HC2800 SERIES CONCEALED VERTICAL RODS

SERIES HC2800 CONCEALED VERTICAL ROD DEVICES (CVR)



OUTSWING SINGLE STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2300 SERIES SINGLE MORTISE LOCK

OUTSWING SINGLE OR PAIR STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2300 SERIES MORTISE LOCK

SERIES HC2800 CVR/SERIES HC2300 MORTISE LOCK
OR SERIES HC2800 CVR SINGLE OR DOUBLE DOORS

NOTE: ALL ELEVATIONS SHOWN FROM EXTERIOR SIDE

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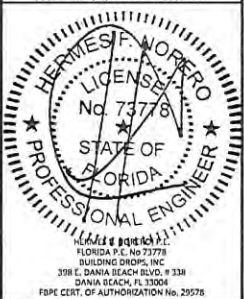
dormakaba USA Inc.
6161 E. 75TH STREET
INDIANAPOLIS, IN 46250
PH: (317) 806-3288

TITLE: PH1 SERIES HC2200, HC2300, HC2800 SVR AND
HC2100 RIM W/ HC822 REMOVABLE MULLION
DOOR ELEVATIONS

PREPARED BY:
BUILDING DROPS, INC.
395 E. DANIA BEACH BLVD., 3RD FL., #18
DANIA BEACH, FL 33004
PH: (954) 939-8478
FAX: (954) 944-8738
WEB: www.bd-engineers.com

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DATE: 12.11.18

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CHK. BY: HFN

SCALE: NTS

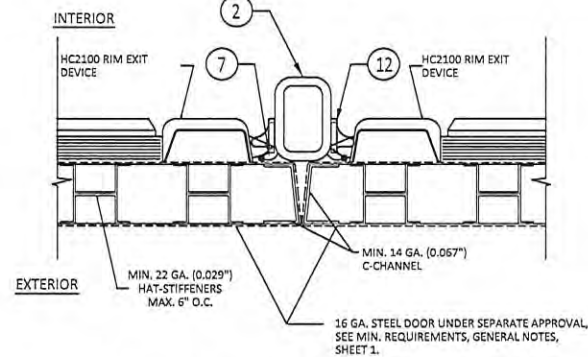
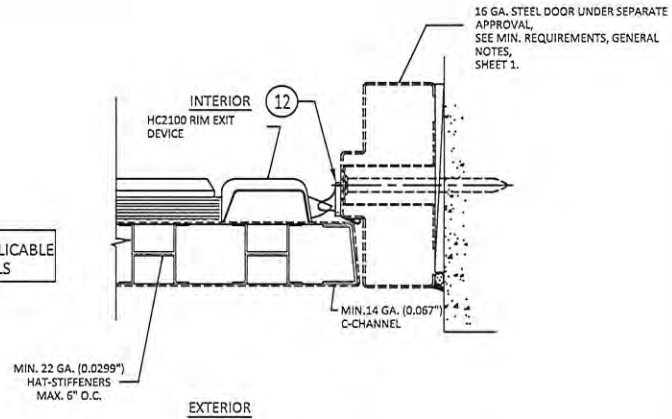
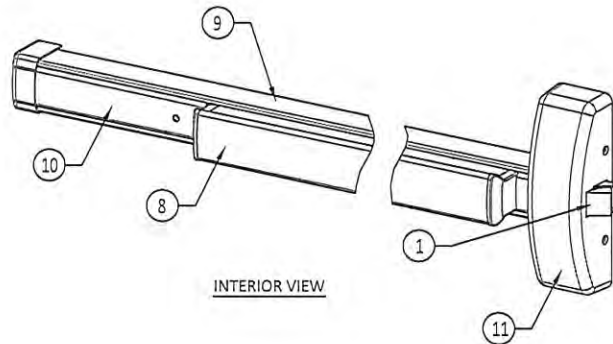
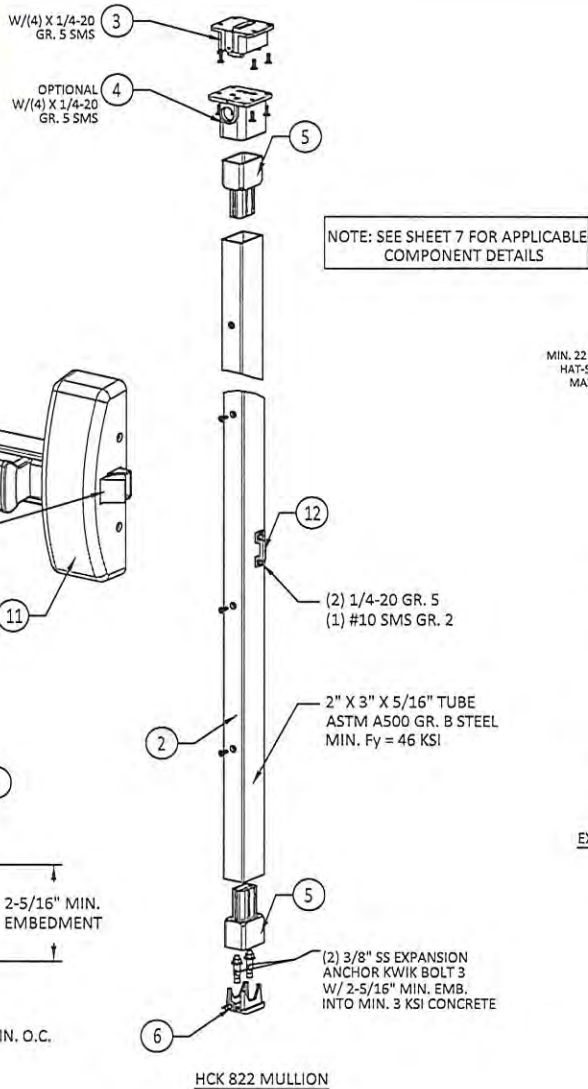
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SHEET:

2

OF 7

SERIES HC2100 RIM EXIT WITH HCK 822 MULLION EXIT DEVICE		
MAX. DESIGN PRESSURE	SINGLE DOOR W/ OUT MULLION	DOUBLE DOOR WITH MULLION
POSITIVE	70 PSF	65 PSF
NEGATIVE	70 PSF	65 PSF



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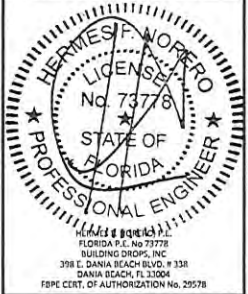
dormakaba USA Inc.
6161 E. 75TH STREET
INDIANAPOLIS, IN 46250
PH: (317) 806-3288

TITLE: PHI SERIES HC2100, HC2300, H2800, SWR AND HC2100 RIM W/ HCK822 REINFORCABLE MULLION HC2100 RIM W/ HCK822 MULLION

PREPARED BY: BUILDING DROPS, INC.
378 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
PH: (954) 929-8278
FAX: (954) 944-8718
WEB: www.b-drops.com

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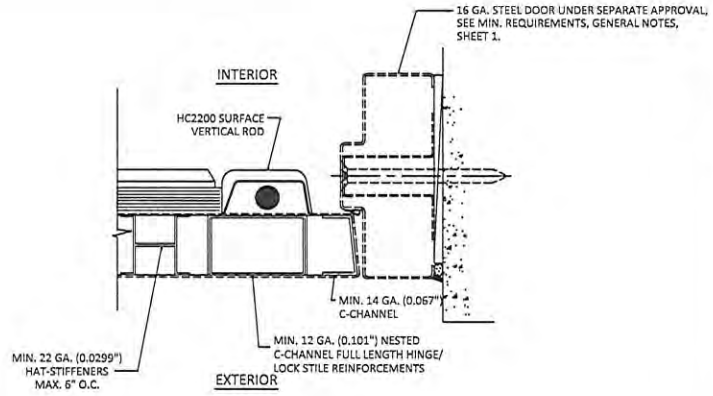
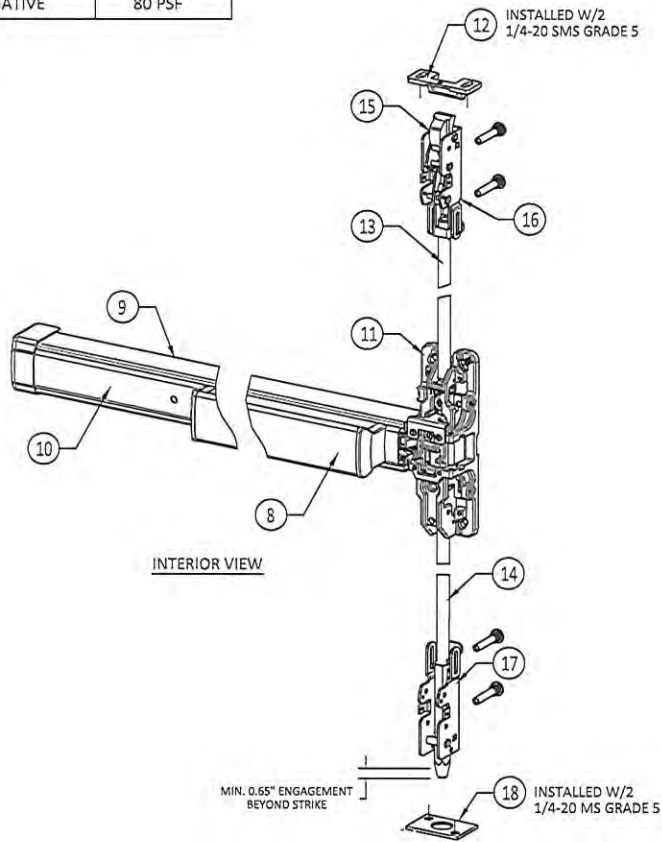


FL16202

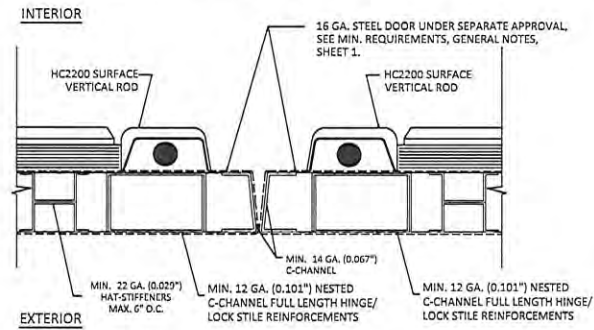
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DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DOR002
SHEET:	3

215102124-5X118

SERIES HC2200 SURFACE MOUNT VERTICAL ROD EXIT DEVICE (SVR)	
MAX. DESIGN PRESSURE (SINGLE OR DOUBLE DOORS)	
POSITIVE	80 PSF
NEGATIVE	80 PSF



C
4 HORIZONTAL SECTION
HC2200 SVR
SINGLE DOOR APPLICATION



D
4 HORIZONTAL SECTION
HC2200 SVR
DOUBLE DOOR APPLICATION

dormakaba

dormakaba USA Inc.
6161 E. 75TH STREET
INDIANAPOLIS, IN 46250
PH: (317) 806-3288

TITLE:
FIN. SERIES HC2200, HC2200, H2800 SVR AND
HC2200 RIM W/ HC6832 REMOVABLE MULL

HC2200 SURFACE VERTICAL ROD (SVR)

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., # 338
DANIA BEACH, FL 33004
PH: (954) 999-8878
FAX: (954) 944-8718
WEB: www.b-drg.com



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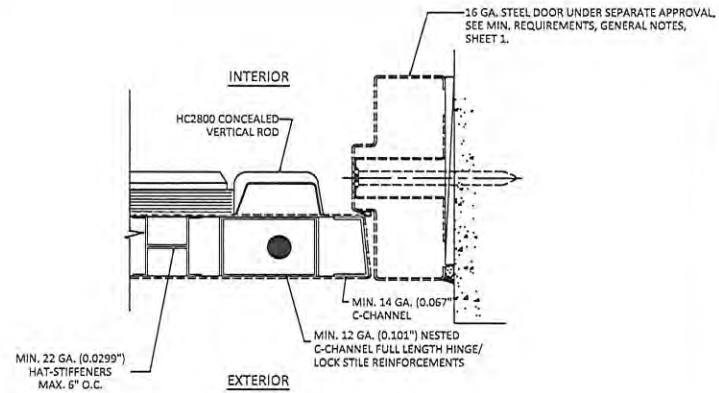
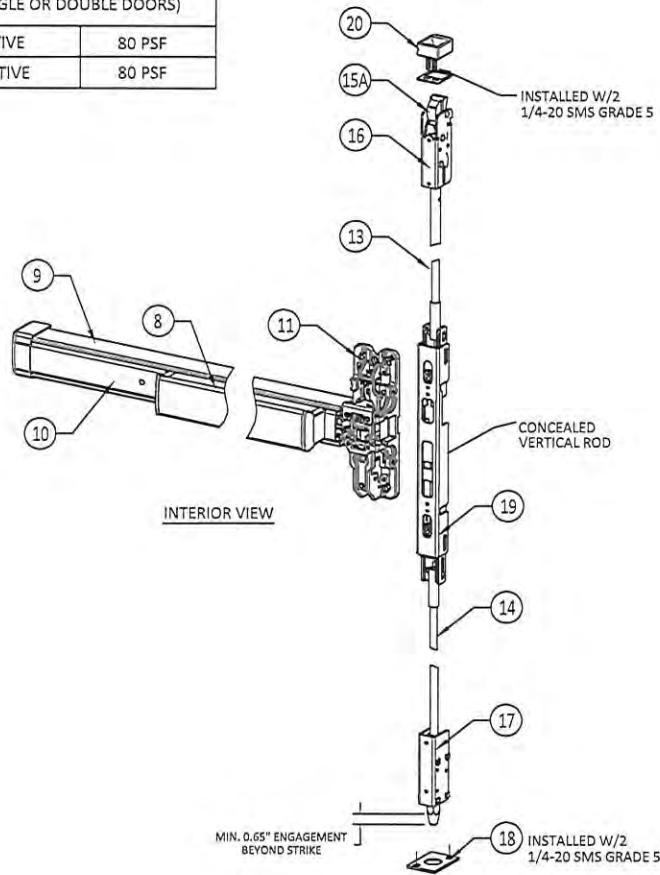
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SCALE:	NTS
DWG. #:	DOR002
SHEET:	4

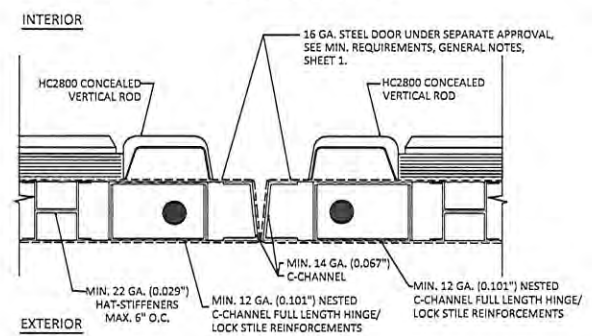
OF 7

2/17/2014 4:45 PM

SERIES HC2800 CONCEALED VERTICAL ROD EXIT DEVICE (CVR)	
MAX. DESIGN PRESSURE (SINGLE OR DOUBLE DOORS)	
POSITIVE	80 PSF
NEGATIVE	80 PSF



E
5
HORIZONTAL SECTION
HC2800 CVR
SINGLE DOOR APPLICATION



F
5
HORIZONTAL SECTION
HC2800 CVR
DOUBLE DOOR APPLICATION

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dormakaba USA Inc.
6161 E. 75TH STREET
INDIANAPOLIS, IN 46250
PH: (317) 806-3288

TITLE: HC2800 CONCEALED VERTICAL ROD (CVR)
PREPARED BY: BUILDING DROPS, INC.
333 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
PH: (954) 939 8478
FAX: (954) 944 8733
WEB: www.b-drops.com

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HERMES F. WORTRO
LICENSED PROFESSIONAL ENGINEER
No. 73778
STATE OF FLORIDA
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
333 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 25578

FL16202

DATE:	12.11.18
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DOR002
SHEET:	5

OF 7

