EIGHTYNINEA
HARDWARE RECAP FOR
JOB #7777 - CARE FOR THE YOUNG AT HEART FACILITY

Qty	Description	MfgCode
35	EA HINGES FBB168 4.5" X 4.5" NRP 652	ST
20	EA HINGES FBB179 4.5" X 4.5" 652	ST
164	EA HINGES FBB179 4.5" X 4.5" NRP 652	ST
2	SET BY PASS HDWE BPC150N-00-72 628	ST
3	EA CLASSROOM LOCK 9K37R15D S3 "CORMAX" 626	BL
2	EA ENTRANCE 9K37AB15D S3 "CORMAX" 626	BL
17	EA KEYPAD LOCK 9KZ37DV 15KP S3 "CORMAX" 626	BL
15	EA MORTISE CYLINDER 1E74-C4-R710 "CORMAX" 626	BL
11	EA PASSAGE LOCK 9K30N15D S3 626	BL
4	EA RIM CYLINDER 1E72-S2-RP3 "CORMAX" 626	BL
10	EA STOREROOM LOCK 9K37D15D S3 "CORMAX" 626	BL
4	EA GATE MAGNETIC LOCK 1576U X 1576-ZB 628	SDC
5	EA INDICATOR QDB285 626	STCH
1	EA ELEC STRIKE 4800 24 VDC 630	TR
2	EA EXIT DEVICE - CVR QED128 36" X 96" LBR (CD) 626	STCH
8	EA EXIT DEVICE - CVR QED129 36" X 84" LBR (FIRE RATED) 626	STCH
2	EA EXIT DEVICE - RIM QED111 36" 626	STCH
7	EA EXIT DEVICE - RIM QED112 36" (CD) 626	STCH
1	EA EXIT DEVICE - RIM QED112 48" (CD) 626	STCH
4	EA EXIT DEVICE - RIM QED113 48" (FIRE RATED) 626	STCH
1	EA DUMMY TRIM 9K01DT 15D 626	BL
4	EA DOOR PULL 19 8" CTC BTD 630	DJ

Qty	Description	MfgCode
1	EA LATCH PROTECTOR BLP-110 630	DJ
4	EA FLUSH PULLS BP250 626	ST
11	EA EXIT TRIM QET160 (KL) E "LESS CYLINDER" 626	STCH
4	EA EXIT TRIM QET170 (NL) E "LESS CYLINDER" 626	STCH
2	EA FLUSH BOLTS 1557 626	DJ
2	EA WALL SWITCH PLATES K WITH LOGO "PUSH TO OPEN" 620	BEA
1	EA AUTO OPERATOR D4990-PUSH 689	RY
25	EA CLOSER QDC211 F SN 689	STCH
13	EA CLOSER EDA STP QDC118 689	STCH
4	EA CLOSER HO QDC212 689	STCH
15	EA CLOSER/STP QDC113 689	STCH
5	EA CLOSER/STP QDC213 F SN 689	STCH
4	EA CHAIN STOP HDCS 626	CR
3	EA DOOR HOLDER 1466 4" KICK DOWN HOLDER AL	DJ
34	EA FLOOR STOP 1442 626	DJ
9	EA WALL STOP 1406 630	DJ
3	EA FLOOR STOPS 3001 BLACK	ST
4	EA ARMOR PLATE #90 34" X 34" - .050 630	DJ
1	EA KICK PLATE #90 10" X 40" - .050 B4E 630	DJ
1	EA KICK PLATE #90 8" X 22" - .050 B4E 630	DJ
16	EA KICK PLATE #90 8" X 34" - .050 B4E 630	DJ
4	EA KICK PLATE #90 8" X 40" - .050 630	DJ

Qty	Description	MfgCode
1	EA ASTRAGAL 355CS-84 628	PE
8	EA ASTRAGAL 357SP-84 X S88D-17 600	PE
8	EA AUTO DOOR BOTTOM 420SL-36 628	PE
12	EA SWEEP 315CN X 36" 628	PE
1	EA SWEEP 315CN X 42" 628	PE
32	ROLL SMOKE SEAL S88D-17 DUR	PE
8	ROLL SMOKE SEAL S88D-18 DUR	PE
8	ROLL SMOKE SEAL S88D-20 DUR	PE
1	SET MEETING STILE 18041CNB 2 @ 96" 628	PE
5	SET WEATHER STRIP 303AV 36" X 84" 628	PE
5	SET WEATHER STRIP 303AV 36" X 96" 628	PE
1	SET WEATHER STRIP 303AV 42" X 84" 628	PE
1	SET WEATHER STRIP 303AV 72" X 96" 628	PE
10	EA THRESHOLD 272A-36 628	PE
1	EA THRESHOLD 272A-42 628	PE
1	EA THRESHOLD 272A-72 628	PE
8	EA MAG HOLDER 2101 24VDC 689	AB
17	EA DOOR SILENCERS 1608 GRAY	DJ
1	EA ELEC STRIKE 310-4 630	FA
12	EA KEYPAD 925 BLK	SDC
11	EA KEYPAD 928 INTERIOR 628	SDC
7	EA MAGNETIC LOCK E1200 12/24VDC 628	SDC

Qty	**Description**	**MfgCode**
12	EA POWER SUPPLY 631RF NA	SDC
3	EA TIMER 14-2 NA	SDC

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			
								Bronze		Steel	
Inches	(mm)	Inches	(mm)	Machine	Wood			Lbs.	(Kg)	Lbs.	(Kg)
4½ x 4½	(114 x 114)	.180	(4.6)	8 - 12-24 x ½	8 -12 x 1¼	3 EA.	30 EA.	45	(21)	42	(19)
5 x 4½	(127 x 114)	.190	(4.8)	8 - 12-24 x ½	8 -12 x 1½	3 EA.	24 EA.	46	(21)	40	(18)
5 x 5	(127 x 127)	.190	(4.8)	8 - 12-24 x ½	8 -12 x 1½	3 EA.	24 EA.	50	(23)	46	(21)
6 x 4½	(152 x 114)	.203	(5.2)	10 - ¼-20 x ½	10 -14 x 1½	3 EA.	24 EA.	63	(29)	53	(24)
6 x 5	(152 x 127)	.203	(5.2)	10 - ¼-20 x ½	10 -14 x 1½	3 EA.	24 EA.	65	(30)	55	(25)
6 x 6	(152 x 152)	.203	(5.2)	10 - ¼-20 x ½	10 -14 x 1½	3 EA.	24 EA.	76	(35)	61	(28)
8 x 6*	(203 x 152)	.203	(5.2)	16 - ¼-20 x ½	16 -14 x 1¼	3 EA.	12 EA.	57	(26)	51	(23)
8 x 8*	(203 x 203)	.203	(5.2)	16 - ¼-20 x ½	16 -14 x 1½	3 EA.	12 EA.	68	(31)	61	(28)

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

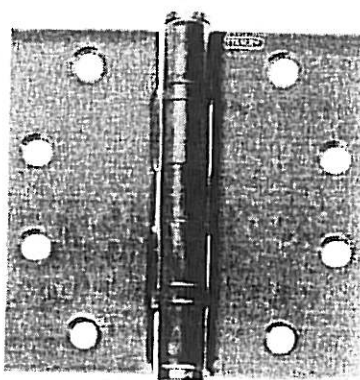ANSI · BHMA CERTIFIED

Standard Weight Ball Bearing

FBB179 – (ANSI A8112) Steel – polished and plated or phosphated and prime coated for painting
FBB191 – (ANSI A2112) Brass or bronze – polished and plated or painted
FBB191 (32) – (ANSI A5112) Stainless steel – highly polished
FBB191 (32D) – (ANSI A5112) Stainless steel – satin finish

- For medium weight doors of average frequency
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Equipped with two 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			
								Bronze		Steel	
Inches	(mm)	Inches	(mm)	Machine	Wood			Lbs.	(Kg)	Lbs.	(Kg)
3½ x 3	(89 x 76)	.123	(3.1)	6 - 10-24 x ½	6 -10 x 1	3 EA.	90 EA.	58	(26)	54	(24)
3½ x 3½	(89 x 89)	.123	(3.1)	6 - 10-24 x ½	6 -10 x 1	3 EA.	90 EA.	65	(29)	59	(27)
4 x 3½	(102 x 89)	.130	(3.3)	8 - 12-24 x ½	8 -12 x 1¼	3 EA.	48 EA.	43	(19)	39	(18)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x ½	8 -12 x 1¼	3 EA.	48 EA.	45	(20)	42	(19)
4½ x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x ½	8 -12 x 1¼	3 EA.	48 EA.	55	(25)	52	(24)
4½ x 4½	(114 x 114)	.134	(3.4)	8 - 12-24 x ½	8 -12 x 1¼	3 EA.	48 EA.	59	(27)	55	(25)
5 x 4	(127 x 102)	.146	(3.7)	8 - 12-24 x ½	4 -12 x 1¼	3 EA.	30 EA.	41	(19)	39	(18)
5 x 4½	(127 x 114)	.146	(3.7)	8 - 12-24 x ½	4 -12 x 1¼	3 EA.	30 EA.	45	(20)	43	(19)
5 x 5	(127 x 127)	.146	(3.7)	8 - 12-24 x ½	4 -12 x 1¼	3 EA.	30 EA.	50	(23)	46	(21)
*6 x 4½	(152 x 114)	.160	(4.1)	10 -¼-20 x ½	5 -14 x 1½	3 EA.	24 EA.	43	(19)	36	(16)
*6 x 5	(152 x 127)	.160	(4.1)	10 -¼-20 x ½	5 -14 x 1½	3 EA.	24 EA.	47	(21)	40	(18)
*6 x 6	(152 x 152)	.160	(4.1)	10 -¼-20 x ½	5 -14 x 1½	3 EA.	24 EA.	67	(30)	61	(28)

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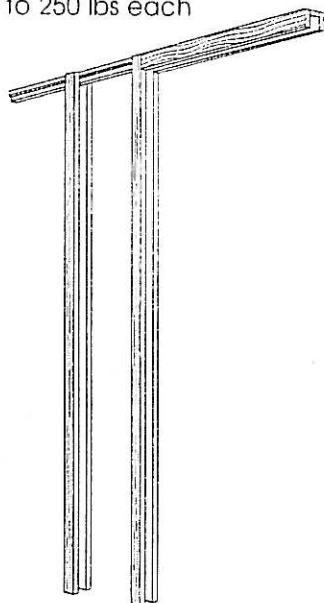
STANLEY

5 KNUCKL

Pocket Door Hardware

PDF150N & PDF250N

150lbs & 250lbs Panel Pocket Frames

PDF150N · For installation of pocket or bi-parting doors up to 3'wide and up to 8' high, weighing up to 150 lbs each

PDF250N · For installation of pocket or bi-parting doors up to 4'wide and up to 8' high, weighing up to 250 lbs each

Features

- Steel wrap around stiffener reinforced split jambs
- Four large 1" wheels for easy rolling action
- PDF150N Supports panels weighing up to 150 lbs
- PDF250N Supports panels weighing up to 250 lbs
- Easy-to-install feature makes installation a "snap"
- V-groove jump proof track
- Cut marks on header for easy sizing

ANSI Reference

All conform to ANSI A156.14 type D8671, D8701

Cross Reference

PDF150N • Crowder Crowderframe • Hager 9629
  • Sterling 1630 BB
PDF250N • Hager 9850 • Lawrence PF619
  • Sterling 1840

PDF150N – Complete Packaged Sets

CONTRACTOR Box Set

Description	Set No.	Case Qty.	Case Weight	EDP Number
3' x 6'8" opening	PDFC150N-00-68	1 set	26 lbs	40 3925
3' x 7'0" opening	PDFC150N-00-70	1 set	31 lbs	40 5940 001
3' x 8'0" opening	PDFC150N-00-80	1 set	35 lbs	40 5942 001

PDF250N – Complete Packaged Sets

CONTRACTOR Box Set

Description	Set No.	Case Qty.	Case Weight	EDP Number
4' x 8'0" opening	PDFC250N-00	1 set	39 lbs	40 5950 001

Sizing Information

Finished Rough Opening

Opening Width = Door width multiplied by 2, add 1 1/4"
For Bi Part – Sum of 2 Doors, multiplied by 2, add 1/4"

PDF150N kits are sized for 3'0" door and PDF250N kits are sized for 4'0" door. Both can be cut down to accomodate smaller door widths.
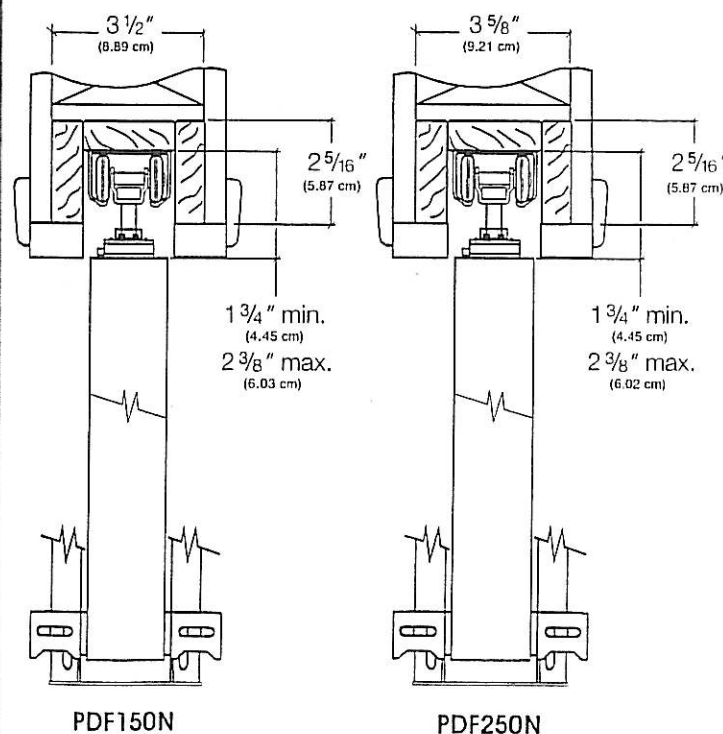
Kits are sized for 6'8", 7'0"or 8'0" door height and can be cut shorter at installation

Rough Opening Height for Single Doors

For bi-parting application refer to installation instructions

6'8" Door = 84 1/2" (2.14m)
7'0 Door = 88 1/2" (2.25m)
8'0 Door = 100 1/2" (2.55m)

Finish Floor

Distance from finished floor to bottom of rough opening

Sub Floor

Installation Detail

3 1/2" (8.89 cm)

3 5/8" (9.21 cm)

2 5/16" (5.87 cm)

2 5/16" (5.87 cm)

1 3/4" min. (4.45 cm)
2 3/8" max. (6.03 cm)

1 3/4" min. (4.45 cm)
2 3/8" max. (6.02 cm)

PDF150N

PDF250N
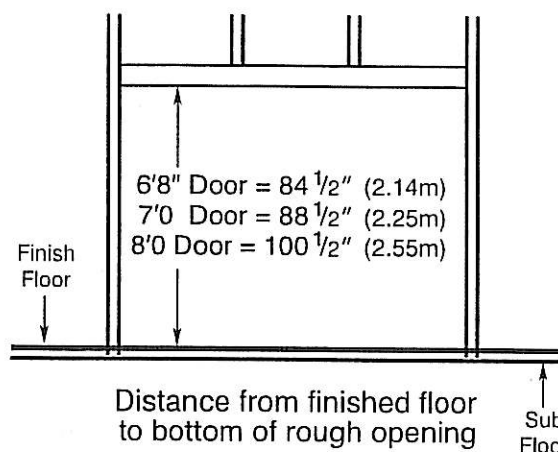
Heavy Duty Detention Floor Stops

3001 – Black neoprene floor stop

- Meets industry standard for 300 pound impact testing
- 90 Durometer
- Steel anchor post ⅝" diameter x 2 ½" long
- For concrete floors in security applications

Concrete
Floor
Surface
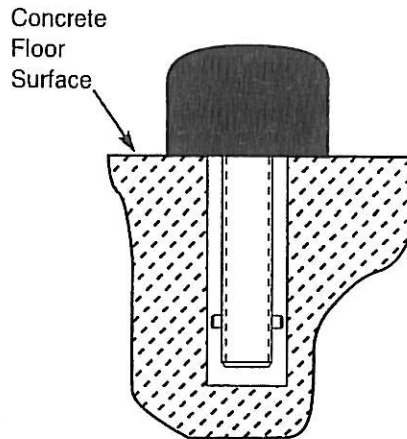
3001 EDP Number	Diameter		Height		Steel Anchor Post		Quantity Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)	Inches	(mm)		LBS.	(Kg)
81 – 1000	2"	(51)	1 ½"	(38)	⅝" x 2 ½"	(15.9 x 63.5)	25	15	(6.8)

Heavy Duty Wall Stops

3002– Black neoprene wall stop

- Unique designed molded anti-rotational post resists unauthorized removal of stop
- 90 Durometer
- For concrete or cinder block walls in security applications
- Convex design

Wall Surface
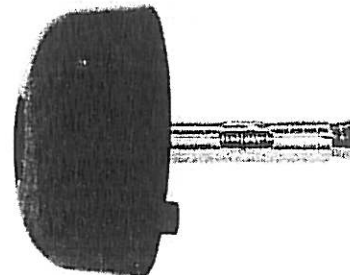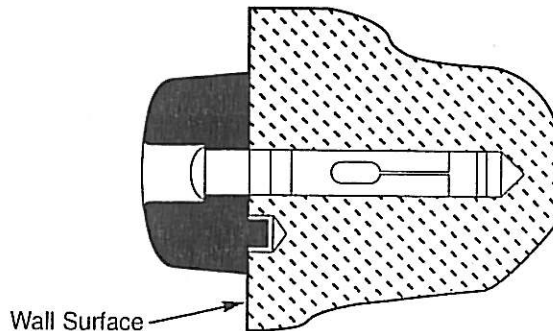
3002 EDP Number	Diameter		Projection		Security Torx Fastener		Quantity Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)	Inches	(mm)		LBS.	(Kg)
81 – 1001	2 ⅝"	(66.7)	1 ¼"	(31.8)	⅜" x 2 ½"	(9.5 x 63.5)	25	15	(6.8)

STANLEY

STANLEY ARCHITECTURAL HARDWARE

Certifications – UL Listed:
Listed by Underwriter's Laboratories for use on 3 Hr, A label single swinging doors (4'x10'). GYJT Builders Hardware-single point locks or latches.

American National Standard:
ANSI A156.2, Series 4000 Grade 1 California Fire Code NOA ANSI A250.13 Listed.

Finish – (BHMA)	US	DESCRIPTION
605	3	bright brass
606	4	satin brass
611	9	bright bronze
612	10	satin bronze
613	10B	oxidized satin bronze, oil rubbed
618	14	bright nickel plated
619	15	satin nickel plated
622	19	flat black
625	26	bright chromium plated
626	26D	satin chromium plated
690	20	dark bronze

Backset – 2 $^3/_4$" standard, 3 $^3/_4$" and 5" available.

Chassis – Critical latch and chassis components are brass or corrosion-treated steel. 2 $^1/_{16}$" diameter to fit 2 $^1/_8$" hole in door (Conforms to ANSI A115.2). Lost Motion feature available as an option. (see page 5 for options/features)

Door thickness – Available for 1 $^3/_4$" to 2 $^1/_4$" doors. Spacers available for 1 $^3/_8$" doors.

Latch – Solid brass $^9/_{16}$" throw. Front 2 $^1/_4$" x 1 $^1/_8$" beveled.

Lever handles – Lever handles are a high-quality zinc alloy. Trim components are brass or bronze. Body is approximately 1 $^5/_8$" in diameter; Handle is approximately 4 $^3/_4$" long (from center-line of chassis). #14 and #15 levers conform to California Administrative Code Title 19 and Title 24. All three styles of levers conform to the Illinois Accessibility Standard.

Mounting – In addition to standard door preparation (ANSI A115.2 for 1 $^3/_4$" doors), two additional holes are needed for through-bolts. Through-bolts require two $^5/_{16}$" diameter holes located at 12 o'clock and 6 o'clock positions. A drill jig is provided to insure accuracy of the holes. (see KD303 page 5).

Projection on door – Approximately 2 $^3/_4$" when mounted on 1 $^3/_4$" door.

Roses –
C - 3" Convex
D - 3 $^1/_2$" Convex
K - 3" Convex - no ring
L - 3 $^1/_2$" Convex - no ring

Strike – STK: Conforms to ANSI A115.2 (2 $^3/_4$" x 1 $^1/_8$" with curved lip & box). S3: Conforms to ANSI A115.2 for 1 $^3/_4$" doors (4 $^7/_8$" x 1 $^1/_4$" with curved lip). S3-7/8: Conforms to ANSI A115.2 for 1 $^3/_4$" doors (4 $^7/_8$" x 1 $^7/_8$" flat)

Products protected by one or more of the following patents:

U.S.:			Canada:
D290,085	4,428,212	4,428,570	1,184,773
4,843,852	4,318,558	4,779,908	1,194,057
4,262,507	4,496,178	5,794,472	1,229,358
5,116,170	5,590,555		

Other products patent pending.

93K	7	AB	15	D	S3	626	
Backset	**Core Housing**	**Function Code**	**Lever Style**	**Rose Style**	**Strike Package**	**Available Finishes***	**Options**
93K– 2 $^3/_4$" 94K– 3 $^3/_4$" 95K– 5"	0– keyless 7– 7 pin housing accepts all Best cores	AB– entrance D– storeroom L– privacy N– passage R– classroom Etc.	14– curved return 15– contour angle return 16– curved no return	C– 3" convex D– 3 $^1/_2$" convex K– 3" convex - no ring L– 3 $^1/_2$" convex - no ring	STK– 2 $^3/_4$" ANSI S3– 4 $^7/_8$" ANSI S3– 7/8– $^7/_8$" flat strike	605 606 611 612 613 618 619 622 625 626 690	AL– abrasive lever LL– lead lined LM– lost motion RQE– request to exit SH– security head screws TL– tactile lever 3/4– $^3/_4$" throw latch 7/8" LTC– flat lip strike NOTE: specify inside (I), outside (O), or both (B) for AL,TL options
		pages 6-9	pages 4-5	pages 4-5	page 11		page 5

* Handles are made from a zinc alloy, and have been plated to be equivalent in appearance to the finishes listed.
For information on 9K non IC products please refer to Best's non-IC keying products brochure.

93KZ	7	DV	14	KP	STK	626		**
Backset	**Core Housing**	**Function Code**	**Lever Style**	**Trim Style**	**Strike Package**	**Finishes**	**Options**	
93KZ– 2 ¾" 94KZ– 3 ¾" 95KZ– 5 " *	7–7 pin housing	DV–(w/key)	14–curved w/return ♿ 15–contour angle return ♿	KP–keypad	STK–standard S3–ANSI	626 690 *606	**EXBB**– extended battery **LM**– lost motion **YAL**– non IC Yale** **COR**– non IC Corbin/Russwin** **SAR**– non IC Sargent** **SCH**– non IC Schlage** **MED**– non IC Medeco** **SH**–security head screws* **Thick door**-specify if other than 1 ¾" * **3/4**– ¾" throw*	
		(Page 6)	(Page 6)	(Page 5)	(Page 6)	(Page 5)	(Page 2)	

* Extra cost option
** Non-IC option

35HZ	7	FV	14	KP	626	RH		**
Series	**Core Housing**	**Function Code**	**Lever Style**	**Trim Style**	**Finishes**	**Handing**	**Options**	
35HZ	0–keyless 7–7 pin housing accepts all BEST cores	EV–latch w/key FV–deadbolt w/key NV–latch w/out key LV–deadbolt w/out key	14–curved w/ return ♿ 15–contour angle return ♿	KP–keypad	626 690 *606	RH RHRB LH LHRB	**EXBB**– extended battery **SH**–security head screws* **Thick door**–specify if other than 1 ¾" *	
		(Page 4)	(Page 4)	(Page 3)	(Page 3)		(Page 2)	
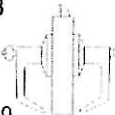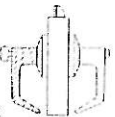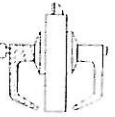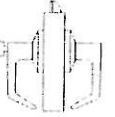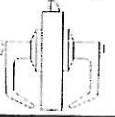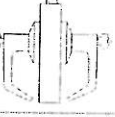
* Extra cost option

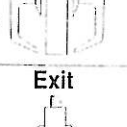| EXZ	7	EV	14	KP	626	RHR	PH1	RM	
Series	**Core Housing**	**Function Code**	**Lever Style**	**Trim Style**	**Finishes**	**Handing**	**Manufacturer**	**Locking Type**	**Options**
EXZ	0– keyless 7– 7 pin housing accepts all BEST cores	EV– latch w/key** NV– latch without key	14– curved return ♿ 15– contour angle return ♿	KP– keypad	626 690 *606	RHRB LHRB	PH1– Precision hardware 1000 series PH2– Precision hardware 2000 series VD9–Von Duprin 98/99 series	RM– rim MO– mortise RD– surface and concealed rods	SH– security head screws*
		(Page 4)	(Page 6)	(Page 6)	(Page 6)		(Page 6)		(Page 2)
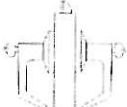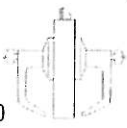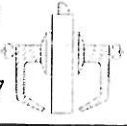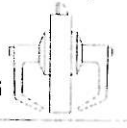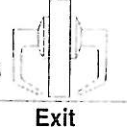
* Extra cost option.
** EV function (key override) not available on PH1000 series and Von Duprin mortise.

ELECTRONIC PRODUCTS STANLEY BEST

FUNCTIONS

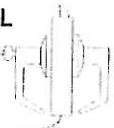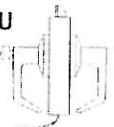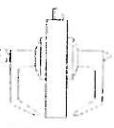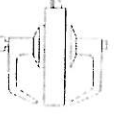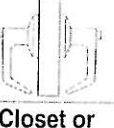| Function & Diag. (ANSI No.)	Description	Outside Lever		Inside Lever	
	Latch operated by	Locked by	Unlocked by	Locked by	Unlocked by
Single Keyed					
Entrance AB F109	• Rotating the inside lever, • Rotating the outside lever—only when the inside push button is out, • Turning the key in the outside lever	• Pushing the inside button, • Pushing and turning the inside button. Turning the button keeps the outside lever locked until the button is turned back	• Turning the key in the outside lever, (only when the button is not turned) • Rotating the inside lever, (only when the button is not turned). • Closing the door (only when the button is not turned)	Cannot be locked	Always unlocked
Storeroom D F86	• Turning the key in the outside lever, • Rotating the inside lever	Always fixed	Cannot be unlocked	Cannot be locked	Always unlocked
Service Station E F92	• Rotating the inside lever, • Rotating the outside lever-only when the inside push button is out. • Turning the key in the outside lever	• Pushing the inside button, • Pushing and turning the inside button. Turning the button keeps the outside lever locked until the button is turned back	• Turning the key in the outside lever, • Rotating the inside lever, • Closing the door-only when the button is not turned, • Turning back the slotted button	Cannot be locked	Always unlocked
Hotel Guest Rm. H F93 **Indicator Included**	• Rotating the inside lever, • Turning the key in the outside lever-only when the inside push button is out, • Removing the core with a control key and using a special emergency key	Always fixed	**Key block feature is released by:** • Rotating the inside lever, • Closing the door	Cannot be locked	Always unlocked
	Pushing the inside button projects an "occupied" indicator in the outside lever and blocks all operating keys.				
Hotel Guest Rm. HJ **No Indicator**	• Rotating the inside lever, • Turning the key in the outside lever-only when the inside push button is out, • Removing the core with a control key and using a special emergency key	Always fixed	**Key block feature is released by:** • Rotating the inside lever, • Closing the door	Cannot be locked	Always unlocked
	Pushing the inside button blocks all operating keys, but *no* "occupied" indicator is projected.				
Classroom R F84	• Rotating the inside lever, • Turning the key in the outside lever, • Rotating the outside lever when not locked by key	Turning the key in the outside lever	Turning the key in the outside lever	Cannot be locked	Always unlocked
Dormitory T F90	• Rotating the inside lever, • Rotating the outside lever when not locked by key or push button	• Turning the key in the outside lever, • Pushing the button on the inside lever	• Turning the key in the outside lever, • Rotating the inside lever (only when locked by push button), • Closing the door (only when locked by push button)	Cannot be locked	Always unlocked
Double Keyed*					
Corridor C F88	• Rotating the inside lever, • Rotating the outside lever when not locked by key, • Turning the key in the outside lever	Turning the key in the inside lever	Turning the key in the inside lever	Cannot be locked	Always unlocked
Storeroom * G F91	• Rotating the outside lever when not locked by key, • Rotating the inside lever when not locked by key	• Turning the key in the inside lever, • Turning the key in the outside lever	• Turning the key in the inside lever, • Turning the key in the outside lever	• Turning the key in the inside lever, • Turning the key in the outside lever	• Turning the key in the inside lever, • Turning the key in the outside lever
	Turning the key in either the inside or the outside, locks or unlocks both sides.				

*ATTENTION: Locksets that secure both sides of the door are controlled by building codes and the Life Safety Code. In an emergency exit situation, failure to quickly unlock the inside lever could be hazardous or even fatal.

STANLEY
BEST
ACCESS SYSTEMS

HEAVY·DUTY L

Function & Diag. (ANSI No.)	Description	Outside Lever		Inside Lever	
	Latch operated by	Locked by	Unlocked by	Locked by	Unlocked by
Double Keyed (Continued)					
Intruder IN	• Rotating inside lever, • Rotating outside lever only when not locked by inside or outside key	• Turning key in the inside lever, • Turning the key in the outside lever	• Turning key in the inside lever, • Turning the key in the outside lever	Cannot be locked	Always unlocked
Communicating* S F80	• Turning the key in the inside lever, • Turning the key in the outside lever, • Rotating the inside or outside lever (if unlocked)	Turning the key in the outside lever	Turning the key in the outside lever	Turning the key in the inside lever	Turning the key in the inside lever
	Turning the key in either lever, locks or unlocks its own lever independently.				
Institutional* W F87	• Turning the key in the inside lever, • Turning the key in the outside lever	Always fixed	Cannot be unlocked	Always fixed	Cannot be unlocked
Keyless					
Privacy L F76	• Rotating the inside lever • Rotating the outside lever only when the inside push button is out	Pushing the inside button	• Rotating the outside slotted button, • Rotating the inside lever, • Closing the door.	Cannot be locked	Always unlocked
Passage N F75	• Rotating the inside lever, • Rotating the outside lever	Cannot be locked	Always unlocked	Cannot be locked	Always unlocked
Exit NX F89	Rotating the inside lever	Always fixed	Always fixed	Cannot be locked	Always unlocked
Patio P F77	• Rotating the inside lever, • Rotating the outside lever only when the inside push button is out	Pushing the inside button	• Rotating the inside lever, • Closing the door	Cannot be locked	Always unlocked
Exit Y	Rotating the inside lever			Cannot be locked	Always unlocked
Single Dummy Trim 1DT	This is a single, surface-mounted lever for an inactive door or a non-latching door				
Double Dummy Trim 2DT	This is a through bolt mounted pair of matching levers for an inactive door or a non-latching door				

*ATTENTION: Locksets that secure both sides of the door are controlled by building codes and the Life Safety Code. In an emergency exit situation, failure to quickly unlock the inside lever could be hazardous or even fatal.

OCK - LEVERS

FUNCTIONS

Function & Diag. (ANSI No.)	Description — Latch operated by	Outside Lever		Inside Lever	
		Locked by	Unlocked by	Locked by	Unlocked by
Electromechanical					
Electrically Locked DEL	• Rotating the inside lever, • Rotating the outside lever only when power is off, • Turning the key in the outside lever	• Applying 24 Volts DC. • Outside lever remains locked only while power is on	Switching off 24 Volts DC	Cannot be locked	Always unlocked
Electrically Unlocked DEU	• Rotating the inside lever, • Rotating the outside lever only when power is on, • Turning the key in the outside lever	Switching off 24 Volts DC	• Applying 24 Volts DC • Outside lever remains unlocked only while power is on	Cannot be locked	Always unlocked
Special					
Dormitory or Storeroom A F81	• Rotating the inside lever, • Rotating the outside lever only when inside turn button is in unlocked position, • Turning the key in the outside lever	Turning the inside button	Turning the inside button	Cannot be locked	Always unlocked
NOTE: Turn button must be manually rotated to unlock the outside lever.					
Office B F82	• Rotating the inside lever, • Rotating the outside lever only when inside push button is out, • Turning the key in the outside lever	Pushing the inside button	• Turning the key in the outside lever, • Rotating the inside lever	Cannot be locked	Always unlocked
NOTE: Push button is released by turning the key in the outside lever, OR rotating the inside lever. Closing the door does not release the push button.					
Closet or Storeroom DZ	• Turning the key in the outside lever, • Turning the inside closet turn knob	Always fixed	Cannot be unlocked	Closet turn knob cannot be locked	Closet turn knob always free
Entrance or Office EA	• Rotating the inside lever, • Rotating the outside lever only when inside push button is out, • Turning the key in the outside lever	• Pushing the inside button, • Pushing and turning the inside button. Turning the slotted button keeps the outside lever locked until the button is turned back	• Turning the key in the outside lever, • Rotating the inside lever, • Turning the slotted button back	Cannot be locked	Always unlocked
Closet or Storeroom RZ	• Turning the key in the outside lever, • Turning the inside closet turn knob, • Rotating the outside lever when not locked by key	Turning the key in the outside lever	Turning the key in the outside lever	Closet turn knob cannot be locked	Closet turn knob always free
Special* XD	Turning the key in the inside lever	Always fixed	Cannot be unlocked	Always fixed	Cannot be unlocked
Special* XR	• Turning the key in the inside lever, • Rotating the inside lever when not locked by key	Always fixed	Cannot be unlocked	Turning the key in the inside lever	Turning the key in the inside lever

*ATTENTION: Locksets that secure both sides of the door are controlled by building codes and the Life Safety Code. In an emergency exit situation, failure to quickly unlock the inside lever could be hazardous or even fatal.

STANLEY BEST ACCESS SYSTEMS

HEAVY·DUTY L

TABLE OF CONTENTS

1E SERIES – FEATURES

1E Mortise Cylinder

Standard mortise applications require use of BEST's 1E series cylinders with standard 1E-C4 cam. BEST cylinders may be altered to function with other manufacturers' locks by use of different cams (see page 8) and different cylinder rings (see page 9). Special cylinder variations are available for most applications (see pages 4 & 5). BEST cylinders are machined from brass or bronze bar stock and are available in a variety of finishes. Additional security is provided by a set screw that mounts diagonally in the cylinder wall and when tightened, holds the cylinder securely in the housing. BEST mortise cylinders feature the BEST interchangeable core and may be master-keyed into any existing BEST system. Contact your local Stanley Security Solutions sales office for information on special cylinder applications not listed in this catalog.
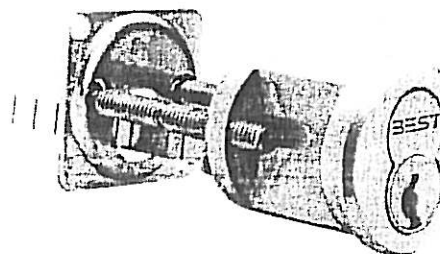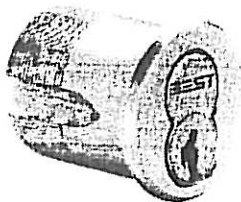
1E Rim Cylinder

Standard rim cylinder applications require the use of BEST's 1E rim cylinder series. BEST rim cylinders are interchangeable with other manufacturers' rim cylinders. BEST rim cylinders are machined from solid bar stock and are available in a variety of finishes. The standard package for the BEST rim cylinder includes cylinder, RP3 ring package, 1E-S2 spindle, clamp plate and clamp plate screws. BEST rim cylinders feature the BEST interchangeable core and may be master-keyed into any existing Best system.
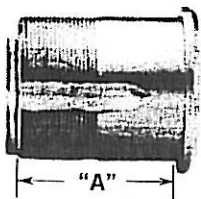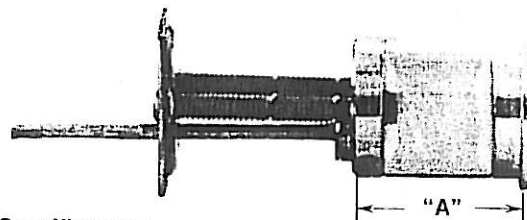
Specifications

Cylinder Nomenclature	Dimension "A"	Door Thickness
1E-64	1 1/8"	1 5/8" to 2 1/4"
1E-74	1 1/4"	1 7/8" to 2 1/2"

Cylinder diameter– 1 5/32"

To order: example: 1E74-C4-RP3-626

Products covered by on or more of the following patents:
5,590,555   5,794,472

Specifications

Cylinder Nomenclature	Dimension "A"	Door Thickness
1E-62	1 3/16"	1" to 2 3/4"
1E-72	1 11/32"	1 1/4" to 3"

Cylinder diameter– 1 5/32"

To order: example: **1E72-S2-RP3-626**

HOW TO ORDER

STEP A	B	C	D	E	F	G	
1E	**7**	**4**		**C4**	**RP3**	**626**	**
Cylinder Diameter	**Core Housing**	**Function Code Length**	**Standard Mortise Code**	**Cam or Spindle**	**Rings**	**Standard Finishes**	
1E– 1 5/32" 3E– 1 1/2" 5E– see pages 10,11 8E– see page 7	0– dummy 6– 6 pin 7– 7 pin housing accepts all Best cores	2– rim 4– mortise* 6– tapered mortise see pages 4-5 for special cylinders	Blank– standard 22– 1 3/8" 24– 1 1/2" up to 96– 6" (see page 4-5)	C4– standard cam C181– Adams Rite MS cam S2– standard spindle (For special cams see page 8)	RP1– tapered cyl. RP2– 6 pin mortise RP3– std. package RP4– 3E mortise (For special rings see page 9)	605 606 612 613 622 625 626 690 Specify hand if required	

* For additional special mortise cylinders, see pages 4 and 5.
** Must specify keymark and number of keys or designate L/C for less core.

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ACCESS SYSTEMS

MORTISE AND

1E HIGH SECURITY CYLINDERS

1EJ7J4 – 1EK7K4 Cylinder Features

Designed for high security applications, BEST offers the 1EJ7J4 high security cylinder and special 5C interchangeable core. This special cylinder is listed by Underwriters Laboratories as meeting UL437 standard for key locks. The cylinder provides additional strength through a hardened stainless steel alloy ring, face and keyway disc. Cylinder also conforms to ANSI A156.5 mortise cylinder, Grade 1A. The 1EJ7J4 cylinder must be combined at the factory. The 1EK7K4 cylinder is available where UL listing is not a requirement, and can be ordered uncombined.
NOTE: Both 1EJ7J4 and 1EK7K4 require long blade key for operation.

1EJ7J4 – 1EK7K4 Cylinder Specifications

Diameter: 1 5/32". 1.150-32 (NS-2A) threaded mortise cylinder.
Mounting length: 7 pin– 1 1/16".
Material: Brass (cylinder) and stainless steel ring.
Finish: 630 (nickel plated satin stainless steel material).
Cylinder rings: High security wrench resistant, machined from stainless steel, hardened, and nickel plated. Special door preparation required. Diameter of hole 1 3/4".
Cylinder face, Keyway disc.: Stainless steel, hardenedCam: Supplied with C258 cam. See page 8 for special cams.
To order: Designate "J4" or "K4" on Step "C" order procedure. (see page 2.)

**1EJ7J4 High Security Cylinder**

1EK7K4 High Security Cylinder

CORMAX™ PATENTED KEYING SYSTEM

BEST® CORMAX™ is the premier patented keying system offered by Stanley Security Solutions. CORMAX will meet your needs for security, key control, and convenience. A simple solution with no compromising allowed.

CORMAX is the upgrade path for existing BEST Standard, Premium, and MX8 customers; and it is an essential element of non-residential access control as security administrators strive to eliminate the unauthorized duplication of keys.
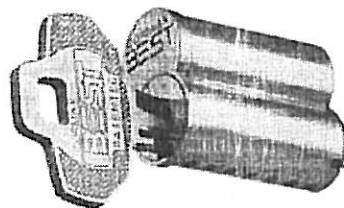
CORMAX™
Patented Keying System

CORMAX offers the following features and benefits:
- A long-term US utility patent that guarantees the extended useful life of the system through 2027.
- A second, independent locking mechanism that utilizes a patented set of built-in side pins to provide higher security.
- Several levels of geographical exclusivity, including national exclusivity, are available via the patented side pin feature.
- CORMAX cores and keys are available exclusively through Stanley sales offices. Key blanks are only sold to individuals authorized by the customer to ensure key blanks do not end up in the possession of unauthorized personnel either inside or outside the customer's facility.
- CORMAX cores are certified to meet the security, safety, and reliability requirements of BHMA A156.5 Grade 1.
- Picking and drilling resistance options are available if higher levels of security are desired.
- Complete factory masterkeying service offered, and at no charge with purchase of BEST locksets and PHI exit devices.
- Keyways are organized in families of four keyways each, with double-milled and quad-milled key levels to facilitate the design of masterkey systems in multi-building campuses.
- BEST CORMAX cores are compatible with all existing BEST interchangeable core housings, eliminating the need for new or modified locksets.

Electromagnetic Gate Locks
Magnetic Bond Sensor Standard

SDC's Gate EMLock® provides 1200lbs of holding force and enables the access and egress control of pedestrian and vehicle gates. Access controls such as card readers, digital keypads and remote control stations provide gate and lock control.

Gate EMLocks are compatible with manual and automatic, swinging and sliding, tubular and iron gates. The floating armature design compensates for gate misalignment with the electromagnet.
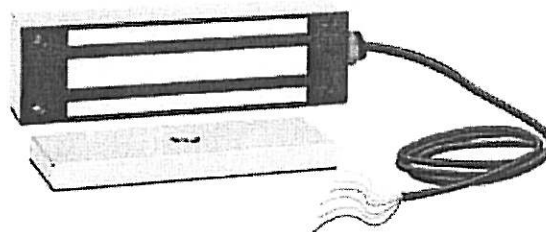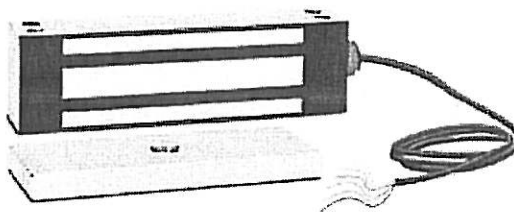
Weatherized

SDC Gate EMLocks are totally sealed in an epoxy filled stainless steel case. A threaded conduit fitting ensures weather resistant protection of the wiring.

Application

With no moving parts to bind or wear, the Gate EMLock® is inherently failsafe and will unlock automatically during a power outage. For security applications, the SDC 600 series power supplies with battery backup capability, provide continuous operation for up to 35 hours with just two 12VDC, 7 Amp Hour batteries.

Features

- Stainless Steel Case
- Epoxy filled for weather resistance
- Threaded conduit fitting
- Built-in voltage kickback protection
- Low power consumption
- Built-in bond sensor (BAS)

Ordering Information

Model
1575U	Standard mounting with magnetic bond sensor
1576U	Face drilled with magnetic bond sensor

Options
1576-BK	Mounting "L" bracket for 1576
1576-MP	Mounting plate for 1576
1576-ZB	Armature "Z" bracket for 1576
1576-AB	Armature angle bracket for 1576
BR64	Full wave bridge rectifier for AC operation

Specifications

Electrical Specifications
Holding Force 1200lbs

Voltage Input: 450mA @ 12VDC
225mA @ 24VDC

Bond Sensor
Output: 125mA @ 12/24VDC
Wire Leads: 24 AWG, 3ft. long

Conduit Fitting: 1/2" Length, 3/4" outside thread, 1/2" inside thread

Mechanical Specifications
Lock: 8-21/32"L x 2-1/2"H x 1-39/64"T
Armature: 7-9/32"L x 2-13/32"H x 5/8"T
Case: Stainless steel

Outdoor/Indoor Keypad for gates and doors with up to 480 users

The SDC 925 EntryCheck™ is a stand alone digital keypad designed to control access of a single entry point for facilities with up to 480 users. Each user is assigned a personal identification number (PIN). Keypad entry of a valid one to six digit code activates one or both of the output relays which releases an electric door lock or triggers a gate operator.

Rugged Outdoor Design

The 925 EntryCheck™ is intended for extended service, indoors or outdoors, in tough commercial environments. The keypad is housed in a rugged, cast aluminum enclosure that can be mounted to a wall or pedestal. A keylock secures the housing to the mounting plate. The die-cast buttons feature bright, durable, easy to read, yellow graphics.

Operation

Pressing any key activates a courtesy light, illuminating the keys for two minutes. Verification of key presses is provided by audible and tactile feedback. If the user presses a wrong key, the * key can be used to reset and start over. When a valid PIN is entered the LED indicator turns from red to green and the programmed relay activates for the programmed time. Too many incorrect PIN entries will lock out the keypad. Keypad lockout is indicated by a yellow LED. An anti-passback feature prevents use of the same code twice before a programmed time period elapses. The EEPROM memory retains all entry codes and programming during a power failure.

Outputs

The EntryCheck™ features four independent outputs with four independent timers. Outputs #1 and #2 are Form "C" relay contacts. Outputs #3 and #4 are solid-state open collector outputs, short to common, which are used to signal forced entry, door ajar, lockout, shunt alarms, request to exit and keypad active conditions.

Features

- Keypad programmable
- 480 user codes
- 1 to 6 digit user codes
- 4 independent outputs
- 4 independent timers
- 2 Form C relay contacts
- 2 solid state open collector outputs
- Program entry codes to activate one or two relays
- Door sense input or disable input
- Request-to-exit/enter input
- Keypad tamper lockout
- Timed anti-passback
- Courtesy lamp
- Two LED status indicators
- Tactile key feel
- Audible code entry verification

Scan Me for
- Datasheet
- Price List
- Install Instructions

Use QR Code Phone App

928 Keypad - 480 Users

The SDC 928 EntryCheck™ is a stand alone digital keypad designed to control access of a single entry point for facilities with up to 480 users. Each user is assigned a personal identification number (PIN). Keypad entry of a valid one to six digit code activates one or both of the output relays which releases an electric door lock.

Operation

Verification of key presses is provided by audible and tactile feedback. If the user presses a wrong key, the * key can be used to reset and start over. When a valid PIN is entered, the LED indicator turns from red to green and the programmed relay activates for a programmed period of time. Too many incorrect PIN entries will lock out the keypad. Keypad lockout is indicated by a yellow LED. An anti-passback feature prevents use of the same code twice before a programmed time period elapses. The EEPROM memory retains all entry codes and programming during a power failure

Outputs

The EntryCheck™ features four independent outputs with four independent timers. Outputs #1 and #2 are Form "C" relay contacts. Outputs #3 and #4 are solid-state open collector outputs, short to common, which may be used to signal forced entry, door ajar, lockout, shunt alarms, request to exit or keypad active conditions.

Features

- Keypad programmable
- 480 user codes
- 1 to 6 digit user codes
- 4 independent outputs
- 4 independent timers
- 2 Form C relay contacts
- 2 solid state open collector outputs
- Program entry codes to activate one or two relays
- Disable input
- Door sense input
- Request-to-exit/enter input
- Keypad tamper lockout

- Timed anti-passback
- Anti-tailgate
- Two LED status indicators
- Tactile key feel
- Audible code entry verification
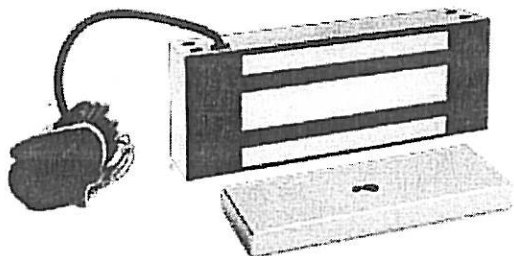- 12 or 24V, AC or DC operation
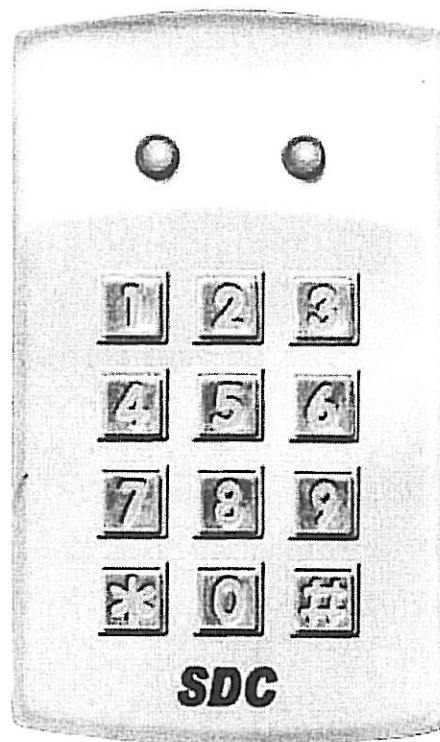
Scan Me for
- Datasheet
- Pricesheet
- Install Instructions
Use QR Code Phone App

Excel™ E6200 - Magnetic Lock

Application:
Security Access Control, & Mantraps, Indoor/Outdoor
1200 lb / 545 kg holding force magnetic lock for exterior, perimeter and interior door security and access control. Magnetic bond sensor and door status outputs are included for remote monitoring, mantraps and system application needs.

Standard Features
- Retrofits Securitron M62 and Locknetics 70 locks
- Magnetic Bond Sensor indicates door locked with full holding power
- Door Status indicates door open or closed
- Epoxy sealed electronics, tamper resistant and weatherized for indoor and outdoor use
- Stainless steel machine screws and blind nuts
- 10 ft [3.05m] jacketed, stranded conductor cable
- Dual voltage 12/24VDC
- Architectural stainless steel housing, US32/630

Mechanical Specifications

Holding Force: 1200 lbs / 545 kg

Housing: Stainless steel epoxy filled, all internal components sealed and weatherized

Lock: 8" L x 3" H x 1-49/64" D;
(203L x 73.5H x 45.7D mm)

Armature: 6" L x 13/16" H x 2-11/16" D;
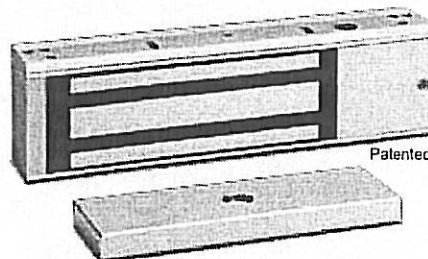(152 L x 20.63 H x 68.26 D mm)

Electrical Specifications

Wiring: 10 Ft [3.05 m] jacketed, stranded conductor cable for power input and status outputs

Circuitry: Voltage and current spike protection and instant release anti-residual magnetism circuitry

Voltage: 12/24VDC, field selectable

Magnetic Bond Sensor: SPDT, 250 mA @ 30VDC

Door Status Contact: SPDT, 250 mA @ 30VDC

Excel™ E1200 - Magnetic Lock

Application:
Security Access Control & Mantraps
1200 lb / 545 kg holding force magnetic lock for perimeter and interior door security and access control. Door and lock status outputs included for remote monitoring, mantraps and system application needs.

Standard Features
- Door status, lock status and Bi-color LED
- Interlocking quick mount assembly
- Adjustable mounting bracket with choice of self drilling and tapping mounting screws or machine screws
- Wire access chamber with terminal block
- Dual voltage 12/24VDC
- 628 Clear anodized aluminum

Mechanical Specifications

Holding Force: 1200 lbs / 545 kg

Lock: 10-1/2" L x 2-7/8" H x 1-5/8" D;
(266 L x 73 H x 41 D mm)

Armature: 7-5/16" L x 2-3/8" H x 5/8" D;
(186 L x 61 H x 16 D mm)

Electrical Specifications

Circuitry & Wiring: PC board with voltage and current spike protection, instant release anti-residual magnetism circuit, terminal block for power input and status outputs

Voltage: 12/24VDC, field selectable

Current: 500 mA @ 12VDC; 250 mA @ 24VDC

Lock Status Contact: SPDT, 2 Amp @ 30VDC
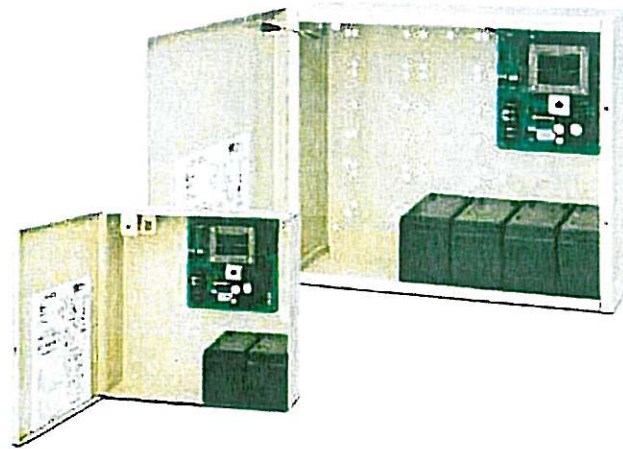
Door Status Contact: SPDT, 250 mA @ 30VDC

(UL) LISTED   ANSI/BHMA-A156.23
Grade 1 Compliant

Modular Access Control Power Supply

Field Selectable 12VDC or 24VDC Output - Standard
Dual 12VDC and 24VDC Output - Optional

"Security Industry Finest"
ISC Expo

MADE IN THE USA

(UL) LISTED
Access Control Power Supply - ALVY
General Purpose Power Supply - QQFU/QQFU7

Quality, Performance & Versatility

The SDC 632RF Power Supplies have been developed specifically to support electric locks and access controls. The high performance, heavy-duty circuitry is ideal for inductive loads and multi-door applications. The modular design is built around several different application control modules to meet your specific needs for virtually any electric lock system. SDC power supplies are designed to provide a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and fire/life safety system interface.

Modular Design

Ten different, individually fused door control modules are available for virtually any application. Time delays, latching relays and multiple fuses are available for custom configuration in the field or at the factory.

DIP Switch Select System Operation

Specification of the UR Universal Access Hardware Controller provides six standard DIP switch selectable system and mantrap variations for multiple door systems.

Manufactured & Tested to Rigorous Standards

SDC 600 Series power supplies are manufactured according to Quality Assurance standards. Tests are conducted according to tough UL criteria.

Features

Filtered and Regulated
The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.

Field Selectable 12 or 24VDC
The output is field selectable for 12 or 24VDC output.

Battery Charger Output
A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.

LED System Status Indicator
Amber - AC and DC voltages are OK
Green - No DC output
Red - No AC input, powered by batteries

Class 2 Output
Where permitted by code, conduit is not required for the Class 2 output.

Large Heavy Gauge Enclosure
Model 632RFA is housed in a 16 gauge, 16"W x 14"H x 6.5"D cabinet large enough to accommodate several additional modules and six 7 Amp hour batteries with plenty of room for wiring.

Value Added Features

Emergency Release Input (Standard)
A signal input from the fire life safety system turns off the secondary output releasing all failsafe locks. When not used for emergency release, this input may be used as main on-off control.

California Compliant Manual Reset of Emergency Release and AC Power Loss (Optional)
When this feature is required, should an AC power loss occur or the emergency release input is actuated, personnel must restore secondary output power manually at the power supply after the emergency release signal is reset and/or AC power is restored.

Low Battery Disconnect (Standard)
Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.

Isolated Charging Circuit (Standard)
While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage.

The secondary output current is maintained at the full 2 Amp capacity and is not de-rated when charging batteries.

Model

602RFL	1 Amp power supply only Less box
602RF	1 Amp power supply 12" x 12" x 4" cabinet

Options

PC	Power cord, 6 FT
KL	Key lock cover
MR-1	Push switch for manual reset of emergency release and AC power loss. California state compliant (CSFM). Consult your local Authority Having Jurisdiction (AHJ) for reset requirements.
PS-1	System on-off push switch mounted inside cabinet
PS-1A	System on-off push switch mounted on outside cover
230VAC	230VAC input (Not UL)
14-2	7-day programmable timer.

Battery Back-Up Selection

RB12V4 5 Amp hour battery

Emergency release input overrides battery back-up, maximum 4 batteries.

Back-up time for 12V and 24V using 5 Ah batteries

Load	Time	
(Amp)	***5 Ah**	****10 Ah**
.25	20 hours	40 hours
0.50	10	20
0.75	7.5	15
1.00	5	10

*12V (1 battery), 24V (2 batteries)
**12V (2 batteries, 24V (4 batteries)

## Module Capacity

FB4: 2 max
PSM, 12VR: 1 max
CR4, ACM-1: 2 max with 2 batteries
          1 max with 4 batteries
UR1: 4 max with 2 batteries
    2 max with 4 batteries

Dual 12VDC and 24VDC Outputs

12VR 12 Volt Regulated and Filtered Output Module With the power supply output set at 24VDC for locking devices and components, the addition of the 12VR provides a separate 12VDC, 500 mA output for 12V access controls and components. The total load of both outputs combined may not exceed 1 Amp.
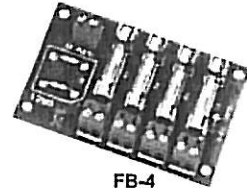
Input: 24VDC   **Output: 500 mA @ 12VDC**
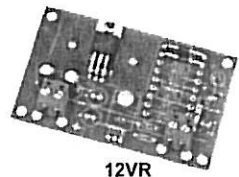
12VR

Multiple Outputs

FB-4 Four 2 Amp fuse protected outputs faster acting protection. (2 modules provide 8 outputs).

FB-4

Door Control Modules

Contacts: 2.5 Amps inductive, 5 Amps resistive @ 30VDC unless specified otherwise.

UR1 Universal Door Controllers
Voltage input: Automatic Voltage Sensing
12VDC @ 120mA, 24VDC @ 175mA
Trigger Inputs:
    a) Two (2) N.O. dry inputs for individual relay
   b) Tandem: Either N.O. dry input triggers
       both relays
Outputs : 2 form "C" SPDT outputs,
          (N.C. failsafe, N.O. failsecure)
• 10 Amps (resistive), 7 Amp (inductive) @ 30VDC
• Wet (voltage) and/or Dry output
• Wet output voltage is same as module
  input voltage
• Two (2) LED relay active indicators
Relay Mode Output Configuration:
    a) Two (2) Wet (power) and/or Dry outputs.
    b) Tandem: Simultaneously activates both
      SPDT outputs
3.2" W x 2" L x 1" H (81.28 x 50.8 x 25.4 mm)
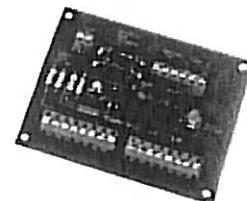

UR1
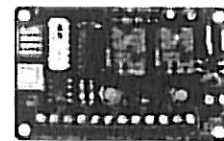
CR4 Four Station Relay Module
Voltage input: 120 mA @ 12/24VDC
(4) Fused, 2A SPDT dry outputs
    or voltage outputs
(4) 2A SPDT dry outputs
(4) N.O. dry trigger inputs
3.25"L x 2"W (83 x 51mm)

CR4

ACM-1 Access Control Module
Voltage input: 45mA @ 12/24VDC
(1) SPDT voltage output
(1) SPDT dry contact
(8) SPDT trigger inputs (4-NC,4-NO)*
(1) LED status indicator
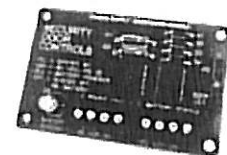5"L x 3.25"W (127 x 83mm)

ACM-1

Remote Monitoring

PSM Power Supply Remote Monitoring Module
The PSM Power Supply Monitoring module provides 2-SPDT, 1 Amp contacts to remotely monitor power supply and battery status.
Input: 30mA @12/24VDC

Remote annunciation conditions include:
• System OK   • AC Fail – No DC Output
• Battery Powered   • System Off – No Battery

14-2

PSM

SECURITY DOOR CONTROLS   **SDC**

www.sdcsecurity.com service@sdcsecurity.com
[t] 800.413.8783 805.494.0622 [f] 805.494.8861
801 Avenida Acaso, Camarillo CA 93012 • PO Box 3670, Camarillo CA 93011-3670

STANLEY
Commercial Hardware

MECHANICAL LOCKS

QDB
200 Series Grade 2
Standard-Duty Auxiliary Deadbolts

Performance Features

- Tested to meet Grade 2 specification of 150,000 cycles.
- Full 1" (25.4mm) throwbolt with saw-resistant hardened steel roller pin.
- Free spinning cylinder collar prevents against wrench attacks.
- Anti-drill design – Two (2) ball bearings inserted to prevent drill attacks.
- Free turning collar.
- Compartmentalized packaging allows for quick and easy installation.
- Available with SmartKey Technology.
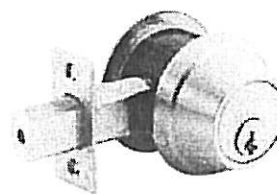
Single Cylinder
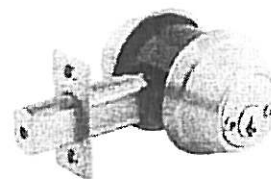
Double Cylinder

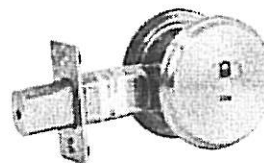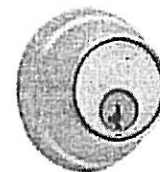## Certifications

- ANSI/BHMA A156.12 – 1999 Grade 2
- ANSI A117.1 Accessibility Code (ADA Compliant)
- UL/cUL Listed (3 hours) for "A" label single-door applications (4' x 8') (1.219m x 2.438m)
- UL10C/UBC 7-2 (1997) Positive Pressure Rated
- UL10B Pressure Rated
- Hurricane Compliant – Miami-DADE N.O.A. See page 72 for more details.

QDB285 Indicator

QDB288 Key Control

Product Specifications

- Door range – 1 ⅜" - 1 ¾" (35mm-44.5mm). Consult factory for special door ranges.
- Backset – 2 ¾" (70mm) square standard. 2 ⅜" (60mm) available.
- Exposed trim – Stainless steel with iron forged cylinder guard.
- Strike – Standard deadbolt strike 1 ¼" x 2 ¾" (32mm x 70mm). Other strike options also available.
- Latch bolt – Full 1" (25.4mm) throw with hardened steel roller.
- Faceplate – 1" x 2 ¼" (25mm x 57mm) standard. 1" x 2 ¼" (25.4mm x 57mm) faceplate available.

Keying

- 6-pin brass cylinders. Many keying options available from our factory to include, but not limited to, master keying, grand master keying and construction keying. Small format interchangeable core cylinder also available.
- Two keys included per set
- Offered with the following keyway options: SMT-SmartKey, KW-Kwikset, WE-Weiser, SC-Schlage, GA-Yale, LA-Sargent, BF-BEST, & LC-Less Cylinder. Consult factory for other cylinder options.

Warranty

- Lifetime Mechanical and 3-year finish*
- *(US3/US10B carries no finish warranty)

Functions

ANSI	Series	Description
E0152	QDB280	Single Cylinder
E0152	QDB281	Single Cylinder SFIC
E0142	QDB282	Double Cylinder
E0142	QDB283	Double Cylinder SFIC
E0193	QDB284	Inside Turnbolt
—	QDB285	Indicator
E0172	QDB286	Classroom
E0172	QDB287	Classroom SFIC
E0152	QDB288	Key Control

Finishes

BHMA	US	Description
605	US3	Bright Brass
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Bright Chrome
626	US26D	Satin Chrome

Applications

The Heavy Duty QED100 series exit devices are designed for institutional, commercial uses such as educational, health care and industrial facilities where a long-lasting, highly durable product is required. These exit devices will deliver the operational requirements set forth while withstanding the physical abuse associated with the applied environment.

Performance Features

- Tested and certified to significantly exceed 1,000,000 cycles – well above the requirements for Grade 1 certification.
- Thru-Bolted trim design for increased security and durability.
- Wide variety of trim options to fit any job.
- Consistent styling allows for suiting with other K2 Commercial Hardware products.

Certifications

- ANSI/BHMA A156.3 Series Grade 1
- UL/cUL Listed (3-hours) for "A" Label Double Door applications (8' x 8') (2.438 mt x 2.438mt)
- UL10C/UBC 7-2 (1997) Positive Pressure Rated
- UL10B Pressure Rated
- UL305 for Panic Hardware
- ANSI A117.1 Accessibility Code (ADA Compliant)
- California State Reference Code (formerly Title 19 - Fire Marshall).

Product Specifications

- Handing – All QED100 series exit devices are non-handed.
- Door Thickness – 1¾" standard (44.5mm).
- Door Height - 7' standard with 84" rods; 8' optional with 96' rods (2.1336mt) (2.4384mt).
- Latchbolt – Stainless Steel ½" throw (12.7mm).
- Fasteners – Wood Screws, Machine Screws & Sex bolts standard.
- Head Cap & End Cap – Zinc die-cast.
- Trims – Sierra and Summit Styles available.
  Escutcheon Offering – Dummy, Passage, Keyed, Night Latch.
  Pull Plate Offering – Dummy, Thumbpiece, Night Latch, Flat Plate.
- Stile Width - 3½" Minimum (89mm).
- Dogging – Hex key dogging and cylinder dogging available.
- 36" Field Sizeable to 32" Door
- 48" Field Sizeable to 36" Door
- Standard Backset: 2 7/16" (62mm) to face of door stop.

Keying

- Offered with the following keyway options: KW-Kwikset, WE-Weiser, SC-Schlage, GA-Yale, LA-Sargent, BF-Best"F" (SCIF) & LC-Less Cylinder. (SFIC) offered keyed different only. Consult factory for details on Mortise and Rim Cylinder requirements.

Warranty

Lifetime Mechanical & 3 year finish*
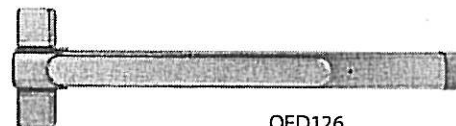*(613/US10B carries no finish warranty)
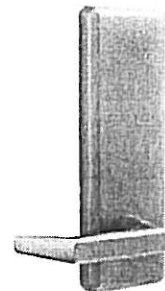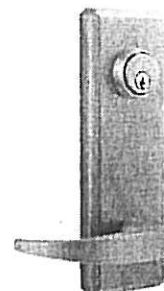
Sierra (SIE)   Summit (SUM)   (Thumbpiece Plate)

QED126

Functions

K2	Description
QED124	CVR Hex Dog
QED125	CVR Cylinder Dog
QED126	CVR Fire Rated
QED127	CVR Less Bottom Rod Hex Dog
QED128	CVR Less Bottom Rod Cylinder Dog
QED129	CVR Less Bottom Rod - Fire Rated

Exit Trim Offerings

ANSI	K2	Description
02	QET120	Dummy Lever Escutcheon
02	QET125	Dummy Pull Plate
14	QET130	Passage Lever Escutcheon
08	QET160	Keyed Lever Escutcheon
05	QET165	Thumbpiece
09	QET170	Night Latch Lever Escutcheon
03	QET175	Night Latch Pull
01	QET190	Flat Plate

Finishes

BHMA	US	Description
605	US3	Bright Brass
710	313AN	Anodized Duranodic Bronze
626	US26D	Satin Chrome

COMMERCIAL HARDWARE
BY BLACK&DECKER
K2

QED100 series
Rim Exit Devices

Applications

The Heavy Duty QED100 series exit devices are designed for institutional, commercial uses such as educational, health care and industrial facilities where a long-lasting, highly durable product is required. These exit devices will deliver the operational requirements set forth while withstanding the physical abuse associated with the applied environment.

Performance Features

- Tested and certified to significantly exceed 1,000,000 cycles – well above the requirements for Grade 1 certification.
- Thru-Bolted trim design for increased security and durability.
- Wide variety of trim options to fit any job.
- Consistent styling allows for suiting with other K2 Commercial Hardware products.

Certifications

- ANSI/BHMA A156.3 Series Grade 1
- UL/cUL Listed (3-hours) for "A" Label Single Door applications (4' x 8') (1.219mt x 2.438mt)
- UL10C/UBC 7-2 (1997) Positive Pressure Rated
- UL10B Pressure Rated
- UL305 for Panic Hardware
- ANSI A117.1 Accessibility Code (ADA Compliant).
- California State Reference Code (formerly Title 19 - Fire Marshall).

Product Specifications

- Handing – All QED100 series exit devices are non-handed.
- Door Thickness – 1¾" standard (44.5mm).
- Latchbolt – Stainless Steel ¾" throw (19mm).
- Fasteners – Wood Screws, Machine Screws & Sex Bolts Standard.
- Head Cap & End Cap – Zinc die-cast.
- Trims – Sierra and Summit Styles available.
  Escutcheon Offering – Dummy, Passage, Keyed, Night Latch.
  Pull Plate Offering – Dummy, Thumbpiece, Night Latch, Flat Plate.
- Stile Width - 4¼" Minimum (108mm).
- Dogging – Hex key dogging and cylinder dogging available.
- 36" Field Sizeable to 32" Door
- 48" Field Sizeable to 36" Door
- Standard Backset: 2 7/16" (62mm) to face of door stop

Keying

- Offered with the following keyway options: KW-Kwikset, WE-Weiser, SC-Schlage, GA-Yale, LA-Sargent, BF-Best"F" (SCIF) & LC-Less Cylinder. (SFIC) offered keyed different only. Consult factory for details on Mortise and Rim Cylinder requirements.

Warranty

Lifetime Mechanical & 3 year finish*
*(613/US10B carries no finish warranty)

QED111

Sierra (SIE)   Summit (SUM)   (Pull Plate)

Functions

K2	Description
QED111	Rim Hex Dog
QED112	Rim Cylinder Dog
QED113	Rim Fire Rated

Exit Trim Offerings

ANSI	K2	Description
02	QET120	Dummy Lever Escutcheon
02	QET125	Dummy Pull Plate
14	QET130	Passage Lever Escutcheon
08	QET160	Keyed Lever Escutcheon
05	QET165	Thumbpiece
09	QET170	Night Latch Lever Escutcheon
03	QET175	Night Latch Pull
01	QET190	Flat Plate

Finishes

BHMA	US	Description
605	US3	Bright Brass
710	313AN	Anodized Duranodic Bronze
626	US26D	Satin Chrome

QDC
200 Series
Grade 1 Heavy Duty
Door Closers

STANLEY

K2 ™

Performance Features

- Tested to significantly exceed the performance requirements for Grade 1 certification.
- Fully adjustable from 1-6 allowing for maximum flexibility.
- Delayed Action and Backcheck are standard in the same door closer body.
- All weather oil insures optimal operational performance in multiple climate conditions.
- Sized for interior doors to 5'0"; exterior doors to 4'6".

Certifications cULus BHMA CERTIFIED ANSI ♿

- ANSI/BHMA A156.4 Series Grade 1
- ANSI A117.1 Accessibility Code
- UL/cUL listed (3-hours) for for self-closing doors without hold-open
- UL10C Positive Pressure Rated
- UL10B Pressure Rated

Product Specifications

- Handing – All QDC200 series door closers are non-handed.
- Material – Cast aluminum.
- Cover – Slim-line plastic cover standard.
  Full, architectural plastic cover also available.
- Arms & Brackets – Tri-pack standard (Regular, Top Jamb, Parallel configurations). Hold Open and Dead Stop arms also available.
- Arm Material – Heat treated carbon steel.
- Springs – High impact hand drawn steel wires.
- Pinions – Heat treated chrome molybdenum steel.
- Cylinder construction – Heat treated free-cutting carbon steel.
- Fasteners –Wood and machine screws standard.
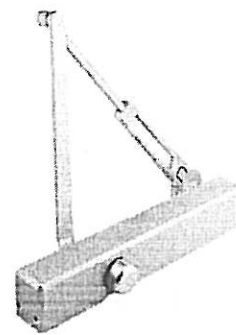 Sex nuts and bolts optional.
- Door Weights & Sizes:

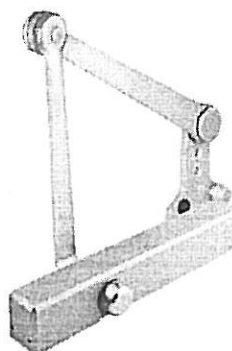| Size	Applicable Door Weight	Door Width Ranges Interior	Exterior
1	33 ~ 55 LBS (15 ~ 30 Kg)	32"	28"
2	56 ~ 99 LBS (30 ~ 45 Kg)	36"	32"
3	99 ~ 143 LBS (45 ~ 55 Kg)	42"	36"
4	143 ~ 187 LBS (65 ~ 85 Kg)	48"	42"
5	187 ~ 264 LBS (85 ~ 120 Kg)	54"	48"
6	264 ~ 330 LBS (120 ~ 150 Kg)	58"	54"

Warranty
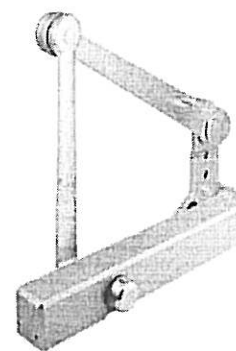
Lifetime Mechanical, 3 year finish* and 1 year electrical
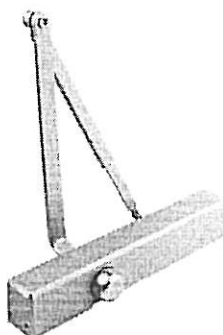
Tri-Pack Arm

Hold-Open Arm

Cush Arm

Cush Hold-Open Arm

Functions

K2	Description
QDC211	Tri-Packed Arm, Non-Hold Open
QDC212	Hold Open Arm
QDC213	Dead Stop (Cush) Arm
QDC214	Dead Stop (Cush) Hold Open Arm

Finishes

BHMA	Description
689	Painted aluminum
690	Painted Duranodic Bronze
696	Painted Satin Brass

The 4800

- For use with surface mounted rim exit devices with up to 1" throw. For use in new or replacement installations in wood or metal door frames and tight installs.

- No cutting of the frame

- Comes with Trines Patented 4-Pin Anchoring System for strength and stability. (See page 12 for details)

- Cavity is completely open – which means the 4800 allows for an incremental depth up to a 1" throw – Competitor back plates do not allow for this versatility.

- Built-in electronics automatically allow 11 through 28 <u>AC</u> and <u>DC</u> Voltage input – with surge and kickback protection.

- Contains a one piece locking mechanism with one solenoid.
  Less parts mean less problems.

- Fail-safe/Fail-secure Field selectable.

- BHMA Grade 1 Electric Strike:
  + 1,500,000+ Life cycles
  + 3,000+ lbs. Holding Force.

Electronics allow for PLUG and PLAY capability

Electric Characteristics

| Voltage	Pull In/Hold Amps	Duty	Sound
12DC	0.566/0.217	Intm./Cont.	Silent
24DC	0.253/0.099	Intm./Cont.	Silent
12AC	0.509/0.181	Intm./Cont.	Silent
16AC	0.405/0.149	Intm./Cont.	Silent
24AC	0.215/0.087	Intm./Cont.	Silent

4800-32D (Satin Stainless Steel – BHMA630)

The following finishes are:
- **4800-US3** (Bright Brass – BHMA605)
- **4800-US4** (Satin Brass – BHMA606)
- **4800-US10** (Satin Bronze – BHMA612)
- **4800-US10B** (Dark Bronze – BHMA613)
- **4800-32** (Polished Stainless Steel – BHMA629)

See Page 12 for options.

We challenge you to compare our strike against the competition on reliability, adaptability, and price.

1/8"

1 3/4"

9"

8 1/4"

1 1/2"

1 1/8"

1/8" Spacer included

3/4"

10

DON-JO MFG., INC.
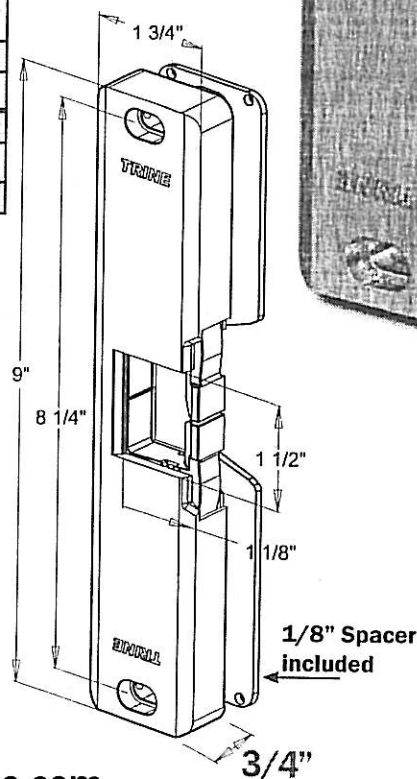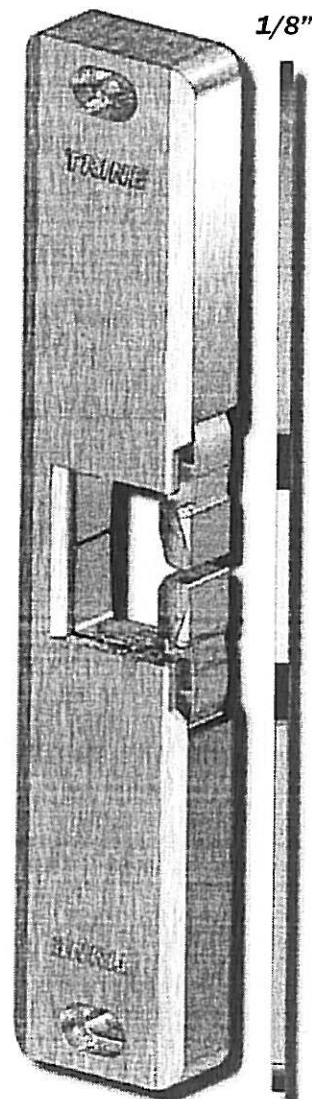
5/8" & 3/4" ROUND DOOR PULLS

NUMBER	CTC	DIAMETER	DIMENSIONS			ANSI A156.6	MATERIAL
			OVERALL	PROJECTION	CLEARANCE		
11	5 1/2"	5/8"	6 1/8"	2"	1 3/8"	J401	Aluminum, Brass, Bronze, Stainless Steel
14	5 1/2"	3/4"	6 1/4"	2 1/4"	1 1/2"	J401	
15	6"	3/4"	6 3/4"	2 1/4"	1 1/2"	J401	
16	8"	3/4"	8 3/4"	2 1/4"	1 1/2"	J401	
17	10"	3/4"	10 3/4"	2 1/4"	1 1/2"	J401	

SHELF PACK: 1   **Box Pack**
FASTENERS: 1/4-20 Thru bolt & finish washer
**FEATURE:** Made from solid bar stock
FINISHES: 605, 606, 609, 612, 613, 628, 629, 630
OPTIONS:
- Back to back mounting for pulls 3/4" dia. only
- Back to back mounting not available on 5/8" dia. Pulls
- Concealed Mounting
- Specify door thickness if greater than 1 3/4"
- Use prefix "H" for 2 1/2" clearance
- See page 14b for other mounting options

1" ROUND DOOR PULLS

NUMBER	CTC	DIAMETER	DIMENSIONS			ANSI A156.6	MATERIAL
			OVERALL	PROJECTION	CLEARANCE		
19	8"	1"	9"	3"	2"	J401	Aluminum, Brass, Bronze, Stainless Steel
20	10"	1"	11"	3"	2"	J401	
21	12"	1"	13"	3"	2"	J401	
22	18"	1"	19"	3"	2"	J401	

SHELF PACK: 1   **Box Pack**
FASTENERS: 1/4-20 Thru bolt & finish washer
FEATURE: Made from solid bar stock
FINISHES: 605, 606, 612, 613, 628, 629, 630
OPTIONS:
- Back to back mounting for pairs
- Concealed Mounting
- Specify door thickness if greater than 1 3/4"
- Use prefix "H" for 2 1/2" clearance
- See page 14b for other mounting options

FLAT BAR DOOR PULLS

NUMBER	CTC	DIAMETER	DIMENSIONS			ANSI A156.6	MATERIAL
			OVERALL	PROJECTION	CLEARANCE		
30	6"	3/8" x 1 1/4"	6 3/8"	2"	1 5/8"	J401	Aluminum, Brass, Bronze, Stainless Steel
31	8"	3/8" x 1 1/4"	8 3/8"	2"	1 5/8"	J401	
32	10"	3/8" x 1 1/4"	10 3/8"	2"	1 5/8"	J401	

SHELF PACK: 1   **Box Pack**
FASTENERS: 1/4-20 thru bolt & finish washer
FEATURE: Made from solid bar stock
FINISHES: 605, 613, 628, 630

DON-JO MFG., INC.

A Complete Line of Architectural Hardware Accessories

Latch Protector BLP 110

Product Specifications
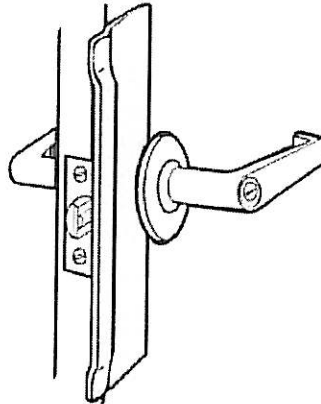
Number	BLP 110
Dimensions	3-1/4" x 10"
Gauge	12 ga., .104
Material	Stainless Steel
Shelf_pack	10
Features	Concealed welded studs with fasteners
Finishes	630
Donjo_attached_files	1161

P.O. Box 929 - Sterling, MA 01564-0929 - TEL: 978-422-3377 FAX: 978-422-3467
EMAIL: info@don-jo.com - http://www.don-jo.com

DON-JO MFG., INC.

FLUSH BOLTS

1555
Metal Doors

1557
Wood Doors

NUMBER	SIZE	ANSI A156.16	MATERIAL
1555	Face Plate: 1" x 6 3/4"	L14251	Cast Brass
	Strike: 15/16" x 2 1/4"		
	Guide: 1" x 2"		
1557	Face Plate: 1" x 6 3/4"	L04261	Cast Brass
	Strike: 15/16" x 2 1/4"		

SHELF PACK: 10   **Box Pack**
FASTENERS: (1555) 4 ea. #8 x 1 1/2" Combo Screw, 4 ea. #8 x 3/4" Combo Screw
              (1557) 7 ea. #8 x 3/4" Combo Screw
FEATURES: (1555) • **Fits ANSI Door & Frame Prep.**
              • **3/4" Bolt Throw, 3/4" Rod Backset**
              • **12" Rod length**
              • **1 1/2" Adjustable Bolt Head**
FEATURES: (1557) • **3/4" Bolt Throw, 3/4" Backset**
              • **Door strength maintained by corner reinforcement plate**
FINISHES: 605, 606, 612, 613, 625, 626
OPTIONS: (1555) Longer rod options available
            Works w/1570 Dust Proof Strike

AUTOMATIC FLUSH BOLTS

1560
Metal Doors

NUMBER	SIZE	ANSI A156.3	MATERIAL
1560	Face Plate: 1" x 6 3/4"	Type 25	Brass
	Strike: 15/16" x 2 1/4"		Cast Brass
	Guide: 1" x 1 7/8"		Cast Brass
	Door Strike: 1 3/4" x 1 3/4"		Cast Brass

SHELF PACK: 10   **Box Pack**
FASTENERS: 8 ea. #8 x 3/4" Combo Screw, 2 ea. #8 x 3/8" MS
FEATURES: • **Non handed**
              • **Conforms to UL, IOC and UBC 7-2-1997**
              • **For Fire Rated Metal Doors labeled A, B, C, D & E**
              • **Sold in pairs**
              • **Fits standard ANSI prep for metal doors**
              • **Requires only 5 lbs. of force meeting ADA regulations**
              • **1" vertical adjustment for bolts**
FINISHES: 605, 613, 626
OPTION: Works w/1570 Dust Proof Strike

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1d

DON-JO MFG., INC.

A Complete Line of Architectural Hardware Accessories

Floor Stop 1442

Product Specifications

Number	1442
Ansi	L12161
Material	Cast Brass
Height	1-1/4"
Base	3/8" x 1-3/4"
Features	1 ea 1/4-20 x 1-1/4" MS, 1 ea. 1/4" x 1-1/4" SMS, 1 ea. Plastic Anchor and 1 ea. Lead Expansion Shield
Finishes	606, 606, 612, 613, 619, 625, 626
Donjo_attached_files	2176

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DON-JO MFG., INC.

A Complete Line of Architectural Hardware Accessories

Wrought Wall Bumpers 1406

Product Specifications

Number	1406
Ansi	L22101, L52101
Material	Wrought
Type	Convex
Projection	1-1/8"
Diameter	2-1/2"
Features	1 ea. #8 x 1-1/4" SMS, 1 ea. Plastic Anchor & Plastic Drywall Anchor
Finishes	605, 606, 612, 613, 619, 620, 625, 626, 630
Donjo_attached_files	2200

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DON-JO MFG., INC.

COMMERCIAL KICK PLATES

ARMOR PLATE

KICK PLATE
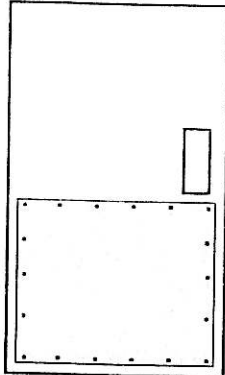
MOP PLATE

ANSI:
J101 Metal / J105 Plastic
Up to 48"h x 48"w for some finishes
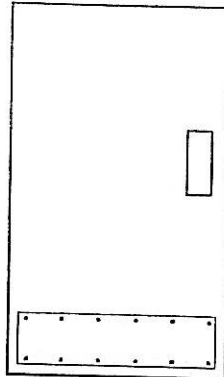
ANSI:
J102 Metal / J106 Plastic
8" to 16"h x 48"w
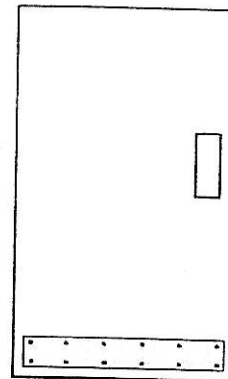
ANSI:
J103 Metal / J107 Plastic
under 8"h to 48"w

FASTENERS: • Individually packaged with screws #6 x 5/8" SMS
• Full threaded to the head stainless steel sheet metal screws with plated finish

FEATURES:
• Beveled 3 or 4 sides optional
• Commercial grade thickness
• Other thicknesses available on special order
• Furnished with grain or satin finish running horizontally to door
• Finishes: 605, 606, 609, 612, 613, 619, 620, 626, 628, 629, 630, 670, Brass Tone (BT), Dark Anodized Aluminum (DB), Kydex, and **Endurance**.™
• Plastic colors include: Black, Brown, Gray, Beige, White, Clear
ORDERING: Specify height x width x finish – add options
(e.g.: 8" X 34" - 630, Tek)
OPTIONS:
• MAG - Magnetic backing for metal doors
• SM - Double face 3M Tape (Scotch Mount)
• Tek - Self drilling screws
• CSK - Countersunk holes
• C/O - Cutout for locks, louvers & windows
• Torx - Security torx screws
• WH - Warnock Hersey listed armor plates for fire rated 3 hour metal doors*

* Only available on .050 thick 630 plates
Labelling only required when the top of the plate exceeds
16" in height

** Some options carry additional charges.

NUMBER	MATERIAL
90	.050 Metal
91	.038 Metal
92	.125 Plastic
93	.125 Clear Plastic

Warnock Hersey

US

NEW WARNOCK HERSEY LISTED ARMOR PLATES
We now offer Armor Plates for fire rated 3 hour metal doors. Please specify prefix "WH" when ordering (i.e. WH-48" x 48"-630). Screw mount only. There is a $5.00 per plate additional charge.

DON-JO MFG., INC.

A Complete Line of Architectural Hardware Accessories

Door Silencers 1608

Product Specifications

Number	1608
Ansi	L03011
Material	Rubber
Features	For Metal Frame
Finishes	Gray
Donjo_attached_files	2159

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EMAIL: info@don-jo.com - http://www.don-jo.com

Dimensions: 4.5" [114.30mm] height, 4.5" [114.30mm] width, 1.36" [34.43mm] depth
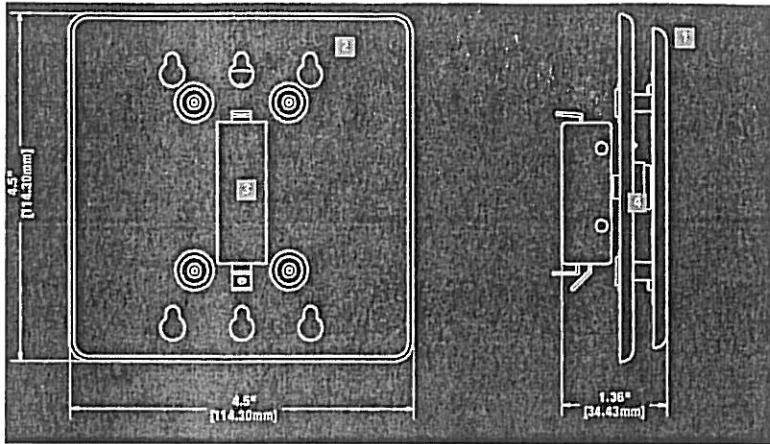
Components

1. Front Plate
2. Back Plate
3. Cherry Switch
4. Weatherboot

Technical Specifications/ Mounting Hardware

a. 16 gauge, 304 2B Stainless Steel Faceplate

b. 16 gauge, 304 2B Stainless Steel Backplate

c. Stainless Steel 6-32 x 1" Phillips head mounting screws

d. Stainless Steel 6-32 x 1/4" Phillips or tamper-resistant Spanner head assembly screw

e. Cherry Switch: Single-pole, 15A, COM/ NO/ NC contacts

f. Powdercoat then clear coated faceplates available on certain styles

g. Wire nuts

Custom Specifications

BEA proposes a variety of custom solutions for your push plates:

Abrasive Etching/Engraved – This method creates a very accurate and deep "scratch" in the plate that is then filled with paint to create the custom logo/text on the surface of the plate.

Pad Printed – Logo/text is stamped onto the surface of the steel plate using a special pad. The logo is only printed on the surface of the plate.

Embossing – This process requires the use of a special tool designed to punch the back of the face plate with the custom information. A special coating is added to create a dramatic 3D embossing for your push plate.

PBS45 Series
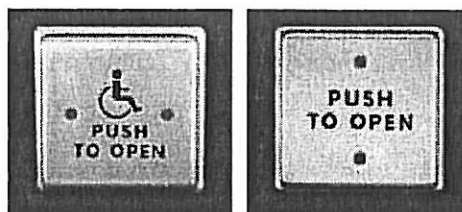
10PBS451 - Text and Logo

10PBS45 - Text only
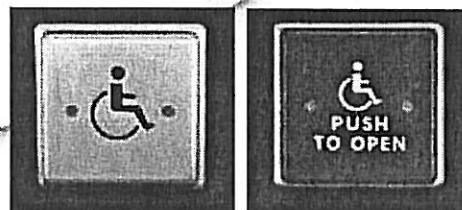
10PBS45LL- Logo Only

10PBS451B - Text and Logo blue

10PBS45B - Text only blue

Mounting Components
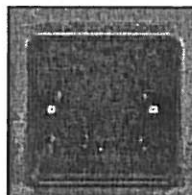
10BOX455QSM
Mount Box
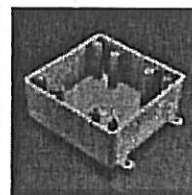
10BOXDG45C
Double Gang Mount Box
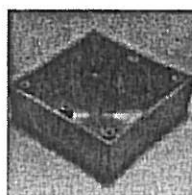
10BOXDG4H
Double Gang Mount Box
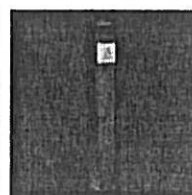
10BOLLARD

Contact Information

BEA Inc.
RIDC Park West
100 ENTERPRISE DRIVE
PITTSBURGH, PA 15275

PHONE 1-412-249-4100
FAX 1-888-523-2462
TOLL FREE 1-800-5 BEA INC

BEA West
190 East
Arrow Highway Suite A
San Dimas, CA 91773-3314
FAX 1-888-523-2462
TOLL FREE 1-877-232-9378

www.beasensors.com

BEA
OPEN UP NEW HORIZONS

ELECTRICAL DATA SPECIFICATIONS

- Power input: 115 VAC ±15% 60 Hz
- Current draw: 2A maximum (4 maximum number of operators per breaker)
- Auxiliary output: 24VAC @ 0.125A maximum
- Solid state output can signal electric strikes
  (For powering strikes see page 7.)

Certifications

- ANSI/BHMA A156.19 certified Standard For Power Assist And Low Energy Power Operated Doors
- UL 325 Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems or use on fire and smoke check doors
- UL 228 Standard for Door Closers-Holders, With or Without Integral Smoke Detectors
- Meets requirements for UL 10B, 10C and UBC 7.2 for positive pressure
- Meets ADA – Americans With Disabilities Act
- Complies with ANSI 117.1 section 4.13
- In compliance with FCC 47 CFR Part 15 Class B emissions requirements (USA)

Exterior Finishes

628 – satin aluminum, clear anodized
313AN – dark bronze anodized

Warranty

Two years from the date of invoice

Package Includes:

- D-4990 Low Energy Operator (Non-handed)
- Standard Arm (PUSH side) or Track Arm (PULL side)
- Mounting template
- Technical manual
- Door closer spring adjustment wrench
- Tuning screwdriver
- Signs (see page 11)

HOW TO ORDER D-4990/D-4990T

D-4990	628	CL2248
Model No.	**Finishes**	**Accessories**
D-4990 – standard arm (push side) **D-4990T** – track arm (pull side)	**628** – satin aluminum, clear anodized **313AN** – dark bronze anodized For special finishes consult factory	**CL2248** – push plate mounting post– silver **CL2247** – push plate mounting post– black **CL2249** – push plate mounting post– bronze **CL2216** – 6" round push plate– stainless steel **CL4163** – 4 ¹⁄₂" square push plate– stainless steel **CL2055** – 1 ¹⁄₂" x 4 ¹⁄₂" jamb plate– stainless steel **CL2025** – touchless plate **CL4485** – radio control receiver **CL4490** – radio control transmitter **PS490** – power supply **314066** – signage kit **CL2212** – push plate package
page 5		page 10 & 11

Example: D-4990 Low Energy Operator x 628 finish.
2-CL2216-6" round push plates

LOW ENERGY PC
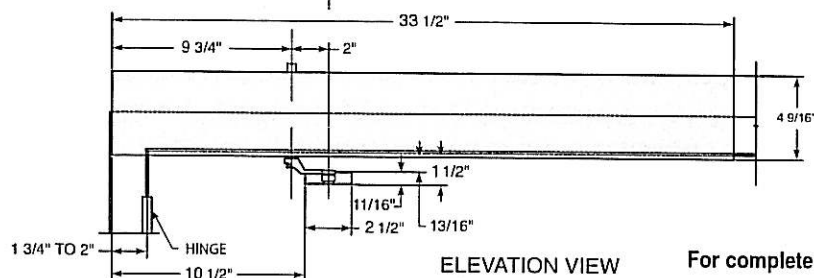
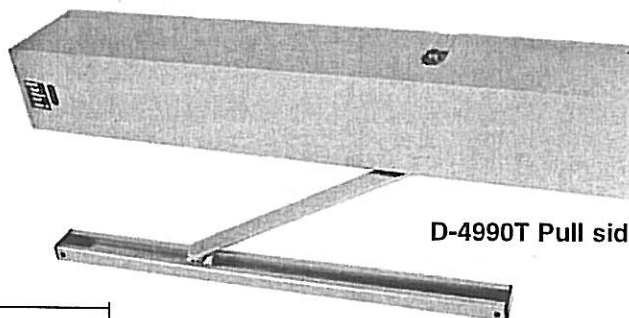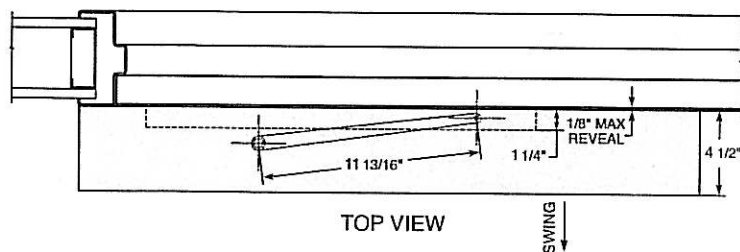## D-4990 Standard Arm (PUSH Side)

- 6 5/8" (168mm) Maximum Reveal

D-4990 Push side

6 5/8" MAX REVEAL

4 1/2"

13 5/8"

TOP VIEW

13 5/8"

6 1/2" TOTAL UNIT

1/4"

SWING

6 5/8" MAX REVEAL

SECTION VIEW

33 1/2"

9 3/4"

2"

4 9/16"

1 1/2"
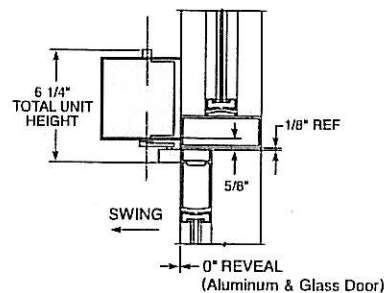
11/16"

2 1/2"

13/16"

1 3/4" TO 2"

HINGE

10 1/2"
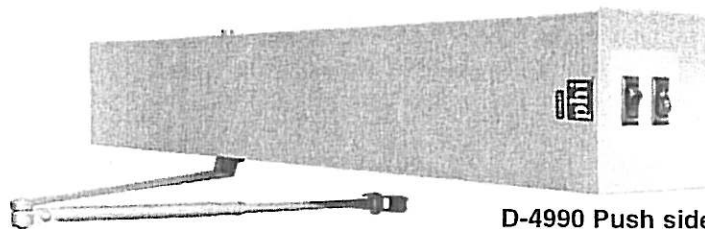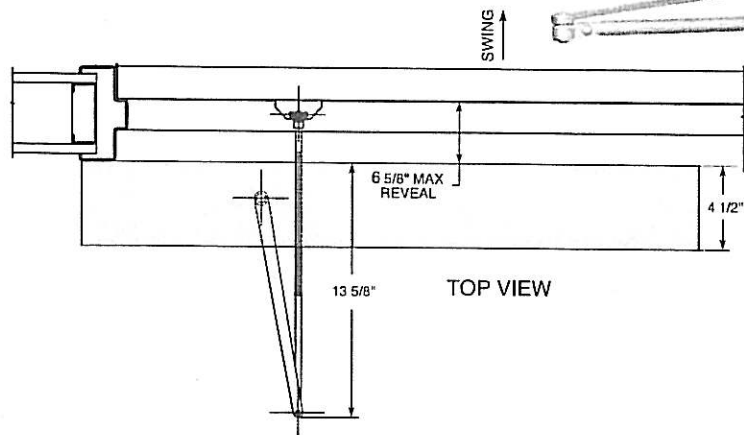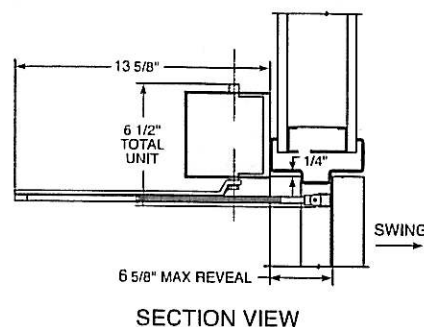
ELEVATION VIEW

Hollow Metal Door Shown

For complete detailed drawings visit www.stanleytemplates.com
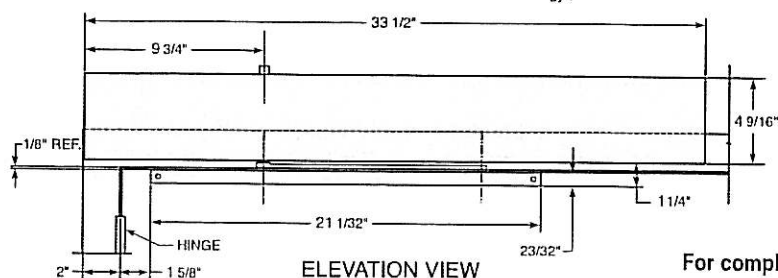
D-4990T Track Arm (PULL Side)

- 1/8" (3mm) Maximum Reveal

D-4990T Pull side

1/8" MAX REVEAL

11 13/16"

1 1/4"

4 1/2"

SWING

TOP VIEW

6 1/4" TOTAL UNIT HEIGHT

1/8" REF

5/8"

SWING

0" REVEAL
(Aluminum & Glass Door)

SECTION VIEW

Aluminum & Glass Door Shown

33 1/2"

9 3/4"

4 9/16"

1/8" REF.

11/4"

21 1/32"

23/32"

HINGE

2"

1 5/8"

ELEVATION VIEW

For complete detailed drawings visit www.stanleytemplates.com

STANLEY

phi

D-4990 Low Energy Operator with PUSH–PULL

Operation:
- Free ingress & egress using low energy operator or bypassing the operator and using door manually
- Door operator acts as standard door closer when entering or exiting manually

Material:
- Precision Low Energy Operator
- 2 Precision Door Actuators or Push and Go
- Local Power

115VAC

PUSH–PULL
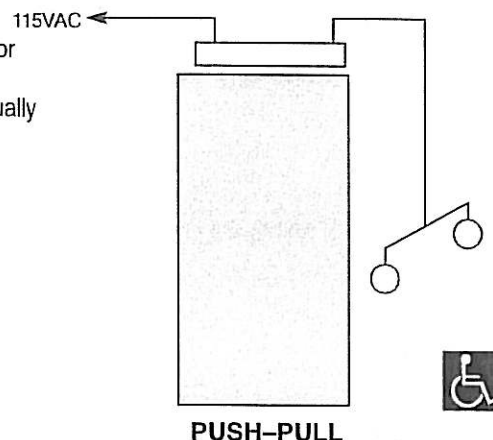
D-4990 Low Energy Operator with Concealed Mag Lock for Glass Door Applications

Operation:
- Free entry when security system is shunted or off
- Entry after hours by card reader, which unlocks & activates low energy operator
- Free egress at all times by touching push bar or using inside actuator, which de-energizes mag lock and activates low energy operator

Material:
- Precision Low Energy Operator
- Electromagnetic Shear Lock and Power Supply (PS)
- Electrified Pivot
- Touch Bar Sensor Kit (TBSK) by others PUSH–PULL set
- Terminal Interface Enclosure (TIE)
- BEST Card Reader
- Precision Actuators

115VAC

PS | TIE

Card Reader

Magnetic Lock for Glass Door
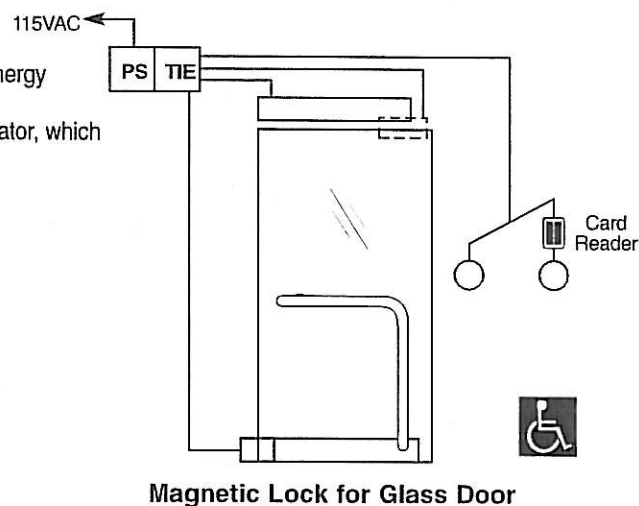
D-4990 Low Energy Operator with Vestibule

Operation:
- When exit device is dogged low energy operator can be activated by external actuator
- When exit device is locked (Not Dogged) all actuators are disabled (Ex: After hours at a school or library)
- Recommended dual vestibule actuator will re-open internal or external doors (Ex: Student waiting for parent pick-up)

Material:
- 2 Precision Low Energy Operators
- 2 Precision Actuators (Internal, External)
- 1 CL2388 Precision Dual Vestibule Push Plate (Recommended)
- Optional Precision Interior Vestibule Actuator
- Precision Exit Device with Cylinder Dogging
- Stanley Power Transfer Hinge
- 1 Precision Exit Dummy Trim

115VAC

Internal | Dummy Trim | Recommended | External

Vestibule
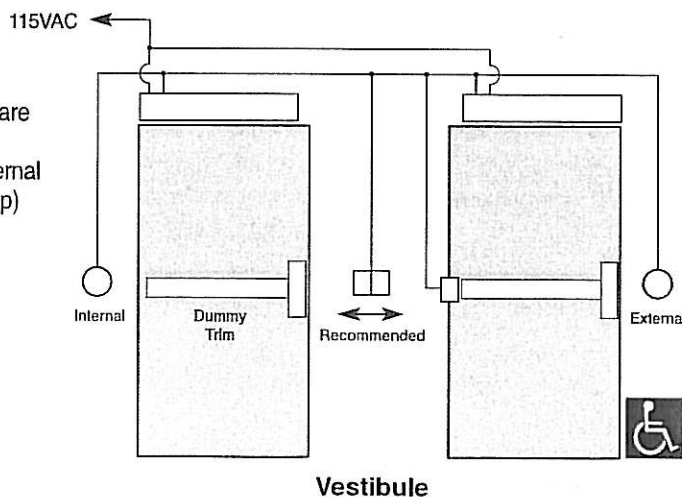
D-4990 Low Energy Operator with Electric Strikes

Operation:
- Doors are to be closed and latched (Example: Fire Doors)
- Key switch shunts exterior actuator
  (Example: After hours traffic control)
- When not shunted, actuators will signal electric strike power supply and activate auto operators
- From secure side, egress by manually pushing exit devices or using inside actuator to activate auto operators

Material:
- 2 Precision Vertical Rod Exit Devices
- Electric Strike & Precision PS490 Power Supply (PS)
- Key Switch
- 2 Precision Actuators
- 2 Precision Low Energy Operators
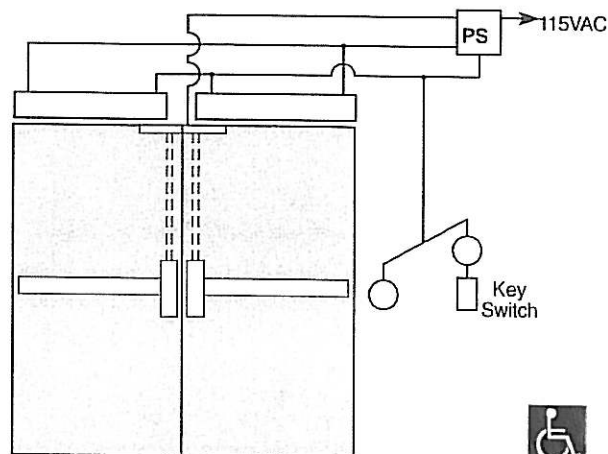
Electric Strikes

D-4990 Low Energy Operator with Latch Retraction

Operation:
- Doors are to be closed and latched at all times
- When activated, latch bolts are retracted and door(s) will automatically open
- Non-rated devices can be dogged for push/pull operation

Material:
- 2 Precision Low Energy Operators
- 1 Precision Power Supply
- 2 Stanley Electric Hinges
- 2 Precision Exit Devices with Electric Latch Retraction
- 2 Precision Actuators
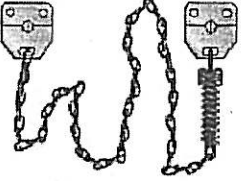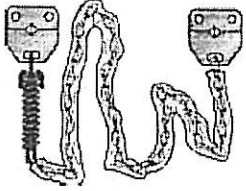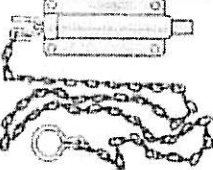- 1 CL2388 Precision Dual Vestibule Push Plate

Latch Retraction

CAL-ROYAL PRODUCTS, INC
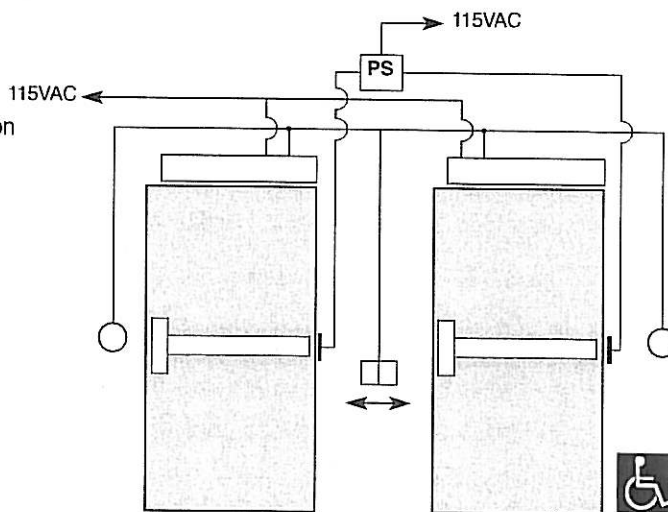
Providing Quality Service and Products Since 1983

Home   About Us   Products   Templates   Terms   Forms   Contact

Crash Chains and Bolts

| IMAGE	ITEM #	FINISH	DESCRIPTION		
	CCD30	ZINC	Single Spring Crash Chain Door Guard, **No Vinyl** 21 3/4" Chain		
	CDV24	ZINC	Single Spring Crash Chain Door Guard, **With Vinyl** 21 3/4" Chain		
	HDCDV48	US26D	**Super Heavy Duty** Adjustable Chain Door Stop With Vinyl Cover, Comparable To IVES #115 For Heavy Commercial Doors Adjustable 20" To 30 1/2"		
	CB-6	ZINC CHROMIUM	24" Chain Bolt Hardened Steel, Supplement To A Regular Door Lock For Added Security. **Included**: Packed In Individual Poly Bag With Strikes And Screws.		

PEMKO

ASSA ABLOY

ASTRAGALS & MEETING STILES: "T" AND OVERLAPPING ASTRAGALS

355_S

AVAILABLE FINISHES: B, BDG, C, D, G, PW, SN
PROFILE WIDTH: 1-3/8" (34.9 mm)
HEIGHT: 1/4" (6.4 mm)

1 3/8" (34.9)

1/4" (6.4)

silicone (S)

door edge

door face
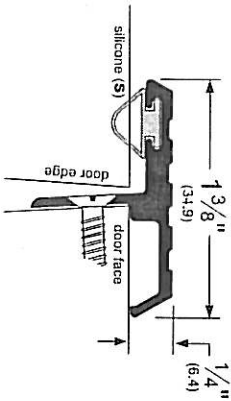
B (Mill Finish Extruded Bronze [Brass])
BDG (Bright Dip Gold Anodized Aluminum)
C (Clear Anodized Aluminum)
D (Dark Bronze Anodized Aluminum)
G (Gold Anodized Aluminum)
PW (Painted White Aluminum)
SN (Satin Nickel Anodized Aluminum)

TITLE:

PREPARED FOR:

PREPARED BY:

DATE:

COMMENTS:
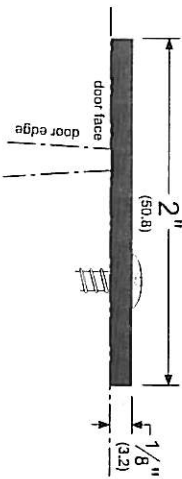
355_S_CUT Rev 1 - 04.01.08

PEMKO
ASSA ABLOY

ASTRAGALS & MEETING STILES:
"T" AND OVERLAPPING ASTRAGALS

357_ 🔩

AVAILABLE FINISHES: C, D, G, SP, SS
PROFILE WIDTH: 2" (50.8 mm)
HEIGHT: 1/8" (3.2 mm)

door edge
door face
2" (50.8)
1/8" (3.2)

C (Clear Anodized Aluminum)
D (Dark Bronze Anodized Aluminum)
G (Gold Anodized Aluminum)
JP (Galvannealed Steel)
SS (Stainless Steel, #4 Finish and #4 Edge)

TITLE:

PREPARED FOR:

PREPARED BY:

DATE:

COMMENTS:

357_CUT   Rev 1 - 04.01.08

PEMKO

ASSA ABLOY

DOOR BOTTOMS: AUTOMATIC DOOR BOTTOMS

420_SL

AVAILABLE FINISHES: A
WIDTH: 1-3/8" (34.9 mm)
HEIGHT: 13/16" (20.6 mm)

1 3/8"
(34.9)

13/16"
(20.6)

silicone (S)
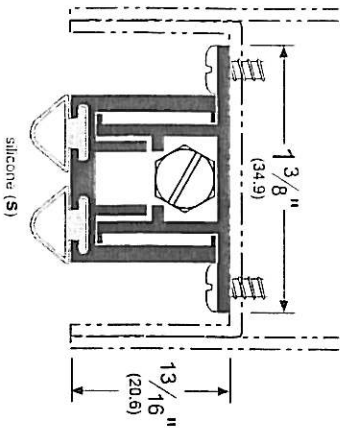
A (Mill Finish Aluminum)

TITLE:

PREPARED FOR:

PREPARED BY:

DATE:

COMMENTS:

420_SL_CUT Rev 1 - 05.14.08

PEMKO
ASSA ABLOY

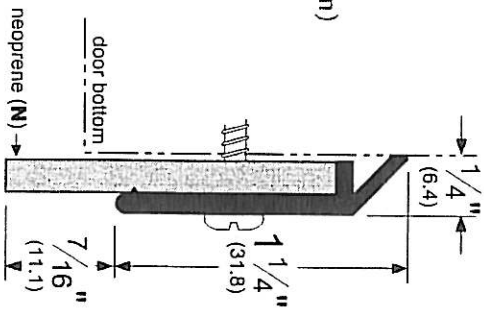# DOOR BOTTOMS: DOOR BOTTOM SWEEPS

315_N

BHMA CERTIFIED

AVAILABLE FINISHES: B, C, D, G, SN

WIDTH: 1/4" (6.4 mm)

PROFILE HEIGHT: 1-1/4" (31.8 mm)

TOTAL HEIGHT WITH INSERT: 1-11/16" (42.9 mm)

neoprene (N)

door bottom

1/4" (6.4)

1 1/4" (31.8)

7/16" (11.1)

B (Mill Finish Extruded Bronze [Brass])
C (Clear Anodized Aluminum)
D (Dark Bronze Anodized Aluminum)
G (Gold Anodized Aluminum)
SN (Satin Nickel Anodized Aluminum)

TITLE:

PREPARED FOR:

PREPARED BY:

DATE:

COMMENTS:

315_N_CUT Rev 1 - 05.14.08

PEMKO

ASSA ABLOY

ADHESIVE GASKETING:
SILICONSEAL™ ADHESIVE-BACKED
FIRE/SMOKE GASKETING

S88 _

AVAILABLE FINISHES: BL, C, D, GR, TAN, W

AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204'

WIDTH: 1/2" (12.7 mm)

HEIGHT: 1/4" (6.4 mm)

1/4" (6.4)

1/2" (12.7)

Compression Bulb

Stabilizer Flange

Adhesive Backing
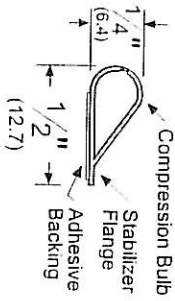
BL (Black)
C (Clear)
D (Dark Brown)
GR (Gray)
TAN (Tan)
W (White)

TITLE:

PREPARED FOR:

PREPARED BY:

DATE:

COMMENTS:

S88_CUT   Rev 1 - 04.01.08

PEMKO
ASSA ABLOY

BRUSH GASKETING: MEETING STILES

18041_NB (MS)

AVAILABLE FINISHES: C, D, G, SN
WIDTH: 3/4" (19.1 mm)
WIDTH INCLUDING BRUSH: 7/8" (28.6 mm)
PROFILE HEIGHT: 1/4" (6.4 mm)
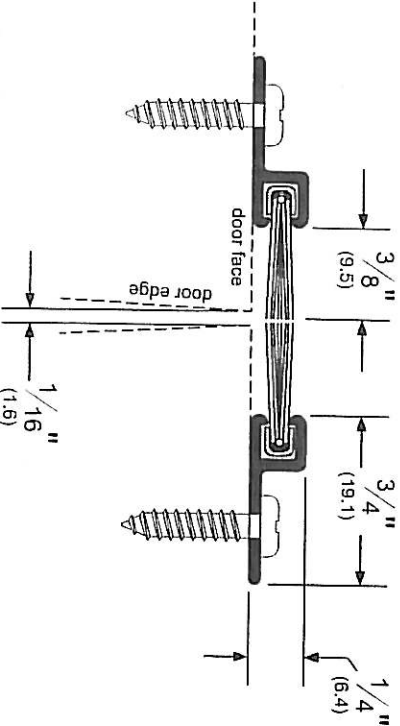
door face
door edge

3/8" (9.5)
3/4" (19.1)
1/16" (1.6)
1/4" (6.4)

→ C (Clear Anodized Aluminum)
D (Dark Bronze Anodized Aluminum)
G (Gold Anodized Aluminum)
SN (Satin Nickel Anodized Aluminum)

TITLE:

PREPARED FOR:

PREPARED BY:

DATE:

COMMENTS:

18041_NB (MS)_CUT Rev 1 - 05.14.08

PEMKO

ASSA ABLOY

ASTRAGALS & MEETING STILES:
ASTRAGALS AND MEETING STILE GASKETING-
SPLIT ASTRAGALS

303_V (MS)

ORDER TWO
(AS A PAIR)

AVAILABLE FINISHES: A, BDG, D, G, PW, SN

PROFILE WIDTH: 7/8" (22.2 mm) (x2)

TOTAL WIDTH WITH INSERT: 1-1/8" (28.6 mm) (x2)

HEIGHT: 1/4" (6.4 mm)
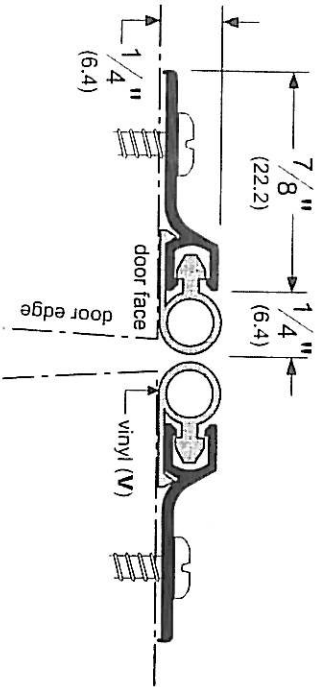
1/4" (6.4)

7/8" (22.2)

1/4" (6.4)

door face

door edge

vinyl (V)

A (Mill Finish Aluminum)
BDG (Bright Dip Gold Anodized Aluminum)
D (Dark Bronze Anodized Aluminum)
G (Gold Anodized Aluminum)
PW (Painted White Aluminum)
SN (Satin Nickel Anodized Aluminum)

TITLE:	
PREPARED FOR:	
PREPARED BY:	
DATE:	
COMMENTS:	

PEMKO

ASSA ABLOY

COMMERCIAL THRESHOLDS:
SADDLE THRESHOLDS

272_

BHMA

AVAILABLE FINISHES: A, B, D, G, SN
WIDTH: 6" (152.4 mm)
HEIGHT: 1/4" (6.4 mm)

1/4"
(6.4)

6"
(152.4)
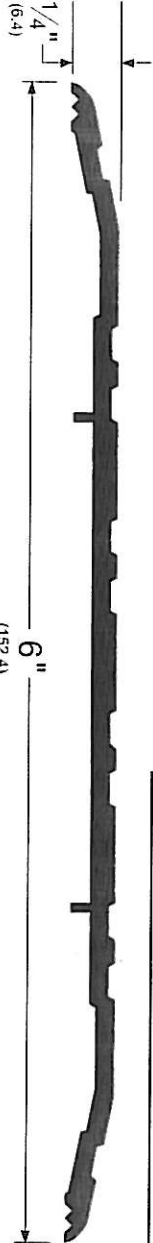
A (Mill Finish Aluminum)
B (Mill Finish Extruded Bronze (Brass))
D (Dark Bronze Anodized)
G (Gold Anodized)
SN (Satin Nickel Anodized)

TITLE:

PREPARED FOR:

PREPARED BY:

DATE:

COMMENTS:

272_CUT   Rev 1 - 04.01.08

RIM EXIT DEVICES

S301 Optional

S458 Optional

S988 Optional

S300 Standard

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, 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
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
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)

STANLEY

phi

APEX 2000 S

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.

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 with stand 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 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, Rim 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 2101 4901 R4901	1702A R1702A 2102C 4902A R4902A	1703A R1703A 2103C 4903A R4903A	1705A R1705A 2105C	4908A V4908A R4908A RV4908A	4908A V4908A R4908A RV4908A	4914A R4914A	1715A R1715A 2015C

Device with Trim:
Device No.

Add **Prefix** for options, see page 4.

Add **Suffix**: for options, see page 4.
Add **Prefix**: "V" Vandal Resistant Lever Trim "R" Retrofit Trim
Add **Suffix**: Lever or Knob Design (A,B,C,D, K) Grip Design (A,B,C)
Add **Suffix**: "KNR" Knurled Lever or Grip (Abrasive Strip)

TS2108CD x V4908AKNR x RHRB x 630 x S300 x 3'-0" x 7'-0" x 1-3/4"

Device w/options | Trim No. | Hand | Finish | Strike | Door Size

Device Only: Device no., hand, finish, strike, and door size including thickness:
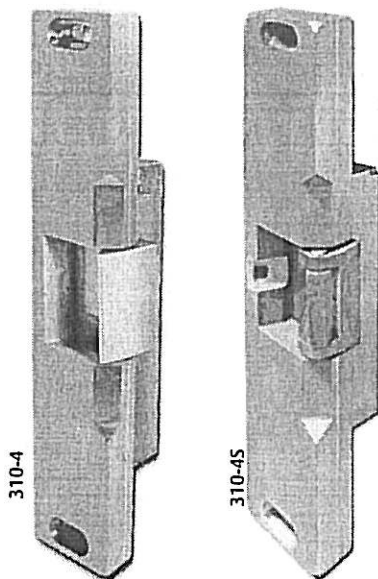(e.g. TS2108CD x RHRB x 630 x S300 x 3'-0"x7'-0"x 1-3/4")

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"

Folger Adam®

310-4

310-4S

Industrial grade electric strikes
for use with rim exit devices

fire rated

UL 1034
burglary listed

grade 1

These heavy duty electric strikes offer amazing versatility. Both the 310-4 and 310-4S come with a standard 3/4" thick faceplate, suitable for metal frames. For aluminum frames, an integrated shim quickly unscrews to create a 1/2" faceplate.

Applications

310-4
For up to 3/4" pullman style latchbolts on single doors
• PK keeper standard

310-4S
For squarebolt style latchbolts like
• Corbin Russwin® ED4200S, ED5200S and ED5200SA SecureBolt™
• Yale® 7150(F), 7250, 7270M(F) Squarebolt® Exit Devices
• SK keeper standard

rim exit devices

Specifications

• UL 10C, 3 hour fire-rated (fail secure only)
• CAN4-S104 (ULC-S104) fire door conformant
• UL1034, burglary-resistant listed

• ANSI/BHMA A156.31, Grade 1
• NFPA-252 fire door conformant
• ASTM-E152 fire door conformant