

WEAVER CONSTRUCTION MANAGEMENT, INC.

3679 S. Huron St., Suite 404 Englewood, CO 80110

Phone: (303) 789-4111 FAX: (303) 789-4310

SUBMITTAL TRANSMITAL

January 27, 2012

WGC Submittal No: 08710-002

(Includes 08100)

PROJECT: Harold Thompson Regional WRF

Birdsall Rd.

Fountain, CO 80817 Job No. 2908

ENGINEER: GMS, Inc.

611 No. Weber St., #300 Colorado Springs, CO 80903 719-475-2935 Roger Sams

OWNER: Lower Fountain Metropolitan

Sewage Disposal District 901 S. Santa Fe Ave. Fountain, CO 80817

719-382-5303 James Heckman

CONTRACTOR: Newco Door & Hardware, Inc.

6606 E. 47th Ave Denver, CO 80216

303-579-0558 rickbradley@gmail.com

SUBJECT: Submittal for Hollow Metal Doors/Frames (08100) and for Finish Hardware (08710) at the Equipment & Maintenance Building

SPEC SECTION: 15800

PREVIOUS SUBMISSION DATES:

DEVIATIONS FROM SPEC: ___ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver General Construction and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto:

Contractor's Stamp:	Engineer's Stamp:
Date: 1/27/12 Reviewed by: Chuck Berry () Reviewed Without Comments (X) Reviewed With Comments	
ENGINEER'S COMMENTS:	



Project: HDTWRF

Location: Fountain, CO

Supplier: Newco Door and Hardware, LLC

Date: 1/27/12

Submittal No: 08710-002 (Includes Section 08100)

WCM Submittal Review Comments:

1. Paragraph 2.1, A, 1. calls for heavy weight hinges and in 2.1, A, 4. calls for Hager BB1199 hinges. Hager BB1199 hinges are Standard Weight per the Hager product data.

- 2. On page 3 of the hardware schedule portion of the submittal, the supplier has several questions for the architect.
- 3. There are several items in part 2 of the hardware specifications referred to by manufacturer name and model number or equivalent. The supplier has submitted an equivalent on several of the items.
- 4. Metal building shop drawing review will have to include girt elevations relative to the exterior door frame head elevations.
- 5. Door supplier has submitted Pioneer as an equivalent to the spec listed manufacturers of doors and frames.
- 6. On the Newco door elevation drawings for doors EM1, EM2 and EM3, is the vision lite toward the hinge side or the latch side of the door? The Pioneer door elevation NG, which seems to be most similar to the contract drawing type A, shows the lite toward the latch side. The project contract drawings require the lite to be toward the hinge side.

Cover - Job / Ticket #: NC1199

Newco Door & Hardware, LLC.

Denver, Co. 80216

6606 East 47TH Avenue

Delivery Date: January 16, 2012

Email address: rickbradley@gmail.com P: 303.576.0558 F: 303.576.0565

<u>Cell Phone: 303.903.3947</u>

Weaver Construction Management 3679 South Huron Street, Suite 404

Englewood, Colorado 80110-3498

Phone: 303.789.4111 Fax: 303.789.4310

Reference Job Name: Harold D. Thompson Water Reclamation Facility
Fountain, State: Colorado Zip: 80817

Attention: John Jcobs

Quantity Description

1st Attachment Finish Hardware Catalog Cuts - Section 8710

2nd Attachment Finish Hardware Catalog Cuts - Section 8710

3rd Attachment Hollow Metal Door and Frame Elevations - Section 8100

4 Attachment Hollow Metal Doors - Section 8100 - Part 2.3, A

5th Attachment Hollow Metal frames - Section 8100 - Part 2.1, A-1

Attachment Hardware Schedule Section - 8700



ARCHITECTURAL HINGES

FIVE KNUCKLE HINGES (CONTINUED)



881168 **Ball Bearing - Heavy Weight**Steel with steel pin (ANSI A8111)

BB1199

Ball Bearing - Standard Weight

Brass with stainless steel pin
(ANSI A2111) or stainless steel with
stainless steel pin (ANSI A5111)

- · Four ball bearings
- Non-rising removable pin with button tip and plug
- 5" x 5" (127 mm x 127 mm) and 4-1/2" x 4-1/2" (114 mm x 114 mm) BB1168 available with two different leaf sizes
- For use on heavy weight doors or doors requiring high frequency service

Hinge Size		Gauge of Hole		lole Screw Size		
Inches	mm	Metal	Count	Machine	Wood	
4-1/2 x 4	114 x 102	0.180	8	1/2 x 12-24	1-1/4 x 12	
4-1/2 x 4-1/2	114 x 114	0.180	8	1/2 x 12-24	1-1/4 x 12	
5 x 4	127 x 102	0.190	8	1/2 x 12-24	1-1/4 x 12	
5 x 4-1/2	127 x 114	0.190	8	1/2 x 12-24	1-1/4 x 12	
5 x 5	127 x 127	0.190	8	1/2 x 12-24	1-1/4 x 12	
6 x 4-1/2	152 x 114	0.203	10	1/2 x 1/4-20	1-1/2 x 14	
6 x 5	152 x 127	0.203	10	1/2 x 1/4-20	1-1/2 × 14	
6 x 6	152 x 152	0.203	10	1/2 x 1/4-20	1-1/2 x 14	
8 x 6	203 x 152	0.203	16	1/2 x 1/4-20	1-1/2 x 14	
8 x 8	203 x 203	0.203	16	1/2 x 1/4-20	1-1/2 x 14	



Wibbling

Ball Bearing - Heavy Weight - Wide Throw

Steel with steel pin (ANSI A8111)

WTBB1199
Ball Bearing - Heavy Weight - Wide Throw

Brass with stainless steel pin (ANSI A2111) or stainless steel with stainless steel pin (ANSI A5111)

- · Wide throw
- Four ball bearings
- Non-rising removable pin with button tip and plug
- For use on heavy weight doors or doors requiring high frequency service

Hinge Size		Gauge of	Hole	Screw Size		
Inches	mm	Metal	Count	Machine	Wood	
4-1/2 x 5	114 x 127	0.180	8	1/2 x 12-24	1-1/4 x 12	
4-1/2 x 6	114 x 152	0.180	8	1/2 x 12-24	1-1/4 x 12	
4-1/2 x 7	114 x 178	0.180	8	1/2 x 12-24	1-1/4 x 12	
4-1/2 x 8	114 x 203	0.180	8	1/2 x 12-24	1-1/4 x 12	
5 x 6	127 x 152	0.190	8	1/2 x 12-24	1·1/4 x 12	
5 x 7	127 x 178	0.190	8	1/2 x 12-24	1-1/4 x 12	
5 x 8	127 x 203	0.190	8	1/2 x 12-24	1-1/4 x 12	



3400 SERIES FUNCTION CHART

	Function	Function No.	Function Description	ANSI No.
Non-Keyed				T
(a)	Passage	10	Latchbolt operated by lever from either side at all times.	F75
4	Dummy	17	Pull one side, no mechanical operation.	-
	Privacy	40	Latchbolt operated by lever from either side. Outside lever is locked by push button and unlocked by emergency release outside, operating inside lever or closing door.	F76A
(eyed				1
	Office	50	Push-button locking. Push-button locks outside lever until unlocked with key or by rotating inside lever.	F82
	Entry	53	Deadlocking latchbolt by lever either side, except when turn button locks outside lever. Pushing turn button in locks outside lever, requiring use of key outside to unlock. (Lever handle is freewheeling in locked position.) Turning inside lever unlocks outside lever. Pushing in and turning button locks outside lever, requiring key at all times. Turning inside lever does not unlock outside lever until button is manually turned to unlocked position. Inside lever always free.	F109
404	Classroom	70	Deadlocking latchbolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latchbolt is operated by inside lever.	F84
Corridor		73	Deadlocking latchbolt operated by lever from either side except when outside lever is locked by key in outside lever or by push button or other locking device on inside. Key in outside lever locks or unlocks outside lever. Operating inside lever releases push button or other locking device placed in a locked position. Closing door releases push button or other inside locking device. Inside lever always operates latchbolt.	F90
	Storeroom	80	Deadlocking latchbolt operated by key in outside lever, or by operating inside lever. Outside lever is always locked. Inside lever is always unlocked.	F86
, <u>L</u> ap.	Intruder Classroom*	95	Deadlocking latchbolt operated by lever from either side. Key either inside or outside locks or unlocks outside lever. Inside lever always operates latchbolt.	F110

^{*}Intruder Classroom is available with an indicator. Specify IND on order.



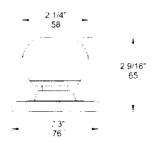


LOCKS

3400 SERIES LEVER OPTIONS

APOLLO KNOB

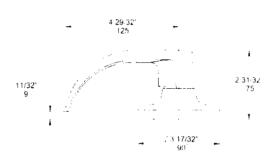




ARCHER LEVER

Suggested

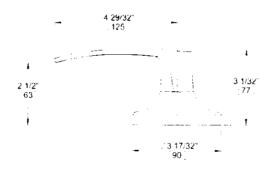




<u>E</u>

AUGUST LEVER



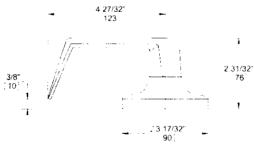




WITHNELL LEVER

Recommended







Optional tactile warning available on all lever styles (only outside lever will be dimpled unless otherwise specified).





3400 Series Grade 1 Cylindrical Extra heavy duty commercial, industrial, institutional

- Lifetime warranty
- No exposed mounting screws
- Non-handed
- Conventional cylinder or Small Format Interchangeable Core housing available

Standard Door Prep: • 2-1/8" (54 mm) diameter (cross bore)

• Latch hole: 1" (25 mm) diameter (edge bore)

• BHMA Certified ANSI A156.2 Series 4000 Grade 1 Certifications:

 ADA Compliant ANSI A117.1 Accessibility Code (levers only) ANSI A250.13 Severe Windstorm Resistant Component

UL/cUL Listed for all functions up to 3 hours for "A" label doors

• UL10C/UBC 7-2 (1997) Positive Pressure Rated

UL10B Neutral Pressure Rated

 Knobs: Wrought brass or stainless steel Exposed Trim:

· Levers: Cast zinc

 Rose: Wrought brass or stainless steel 3-17/32" (90 mm) levers; 3" (76 mm) knobs

Rose Diameter: Lock Chassis:

 Heavy gauge steel, zinc dichromated for corrosion resistance · Free wheeling (levers only)

• Thru-bolt mounting (levers only) Two operating keys supplied per lock

Keys: • Brass 6-pin, keyed different - C Keyway Cylinders/Cores: • Drilled 6-pin, Keyed 5-pin - Standard

• Other keying options, including keyed 6-pin, available from factory

· Small Format Interchangeable Core housing available

• SFIC uncombinated or combinated, brass 6- or 7-pin sold separately

 Knobs: 1-3/8" - 1-3/4" (35 mm - 45 mm) Door Thickness:

Levers: 1-3/8" - 2" (35 mm - 51 mm)

• 2-3/4" (70 mm) - Standard Backset:

• 2-3/8" (60 mm) - Optional • 3-3/4" (94 mm) - Optional 5" (128 mm) - Optional

• 1/2" (13 mm) throw, stainless steel Latchbolt:

• 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

• Square corner faceplates standard, round corner available

• Deadlocking latchbolt prevents manipulation when door is closed; keyed functions only

• 3/4" (18 mm) latch available

3935 ASA 1-1/4" x 4-7/8" (32 mm x 124 mm) strike - Standard Strike:

10 Passage, 17 Dummy, 40 Privacy, 50 Office, 53 Entry, 70 Classroom, 73 Corridor (levers only), Functions:

80 Storeroom, 95 Intruder Classroom (levers only)

 US3, US4, US10, US10B, US26, US26D (levers only) Finishes:

• US3, US32D (knobs only)

Apollo knob; Archer, August, Withnell levers

 Lead lined (levers only) • Tactile Warning (levers only)

Split finish

Additional latchbolts and strikes available

• Intruder Classroom indicator available, specify IND (inside rose will have three indicator points for a guide

reference for locking the door)



Lever Options: Options:

TRIM & AUXILIARY



280X

Dust Proof Strike

Certifications:

Meets ANSI A156.16 for L04021

Face Plate:

1-7/16" x 2-29/32" x 1/8" depth (37 mm x 74 mm x 3 mm)

Barrel Diameter:

1" (25 mm) 2-3/16" (56 mm)

Barrel Depth:

3/4" (19 mm)

Plunger Diameter: Materials:

Brass

Finishes:

US3, US4, US9, US10, US10B, US15, US15A, US19, US26, US26D

Fasteners: Notes:

Two (2) #8 x 1" FPHWS, two (2) plastic anchors, and spanner wrench · Packed unassembled with plate, strike, fasteners, and spanner wrench

· May be used with carpet or threshold application by omitting face plate

· Designed for use with the bottom bolt of a flushbolt set

· Spring loaded plunger returns to floor or threshold level anytime flushbolt is

retracted, eliminating the need to clean out the bottom strike



281D Slide Flush Bolt

Meets ANSI A156.16 for L04201 Certifications: 3/4" x 6" (19 mm x 153 mm) Faceplate:

1/2" (13 mm) Bolt Diameter: 1" (25 mm) Bolt Throw: 7/16" (11 mm) Bolt Backset:

7/8" x 1-3/4" (22 mm x 45 mm) Strike:

Brass, bronze faceplate with steel components Materials:

US3, US4, US5, US10, US10B, US15, US15A, US19, US26, US26D Finishes:

Four (4) #6 x 3/4" FPHWS Fasteners:

Double action spring design provides automatic holding of bolt in projected or Notes:

retracted position



Manual Flush Bolt

Certifications:

Face Plate:

Bolt Throw:

Fasteners:

Notes:

· Fits ANSI A115 door and frame prep

Meets ANSI A156.16 for L14251

1" x 6-3/4" (25 mm x 172 mm)

1/2" (13 mm) square Bolt Head:

3/4" (19 mm)

12" (305 mm) (center of face to corner of door) Standard Rod Length:

Bolt Backset: 3/4" (19 mm)

15/16" x 2-1/4" (24 mm x 57 mm) Mortise Strike:

Materials:

Brass faceplate with steel components Finishes:

US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D Eight (8) #8 x 3/4" combo screws; eight (8) #8 x 1-1/2" combo screws

· For use on hollow metal/fire rated doors

· Non-handed

· Bolt head rods are adjustable

· Sold in increments of two.

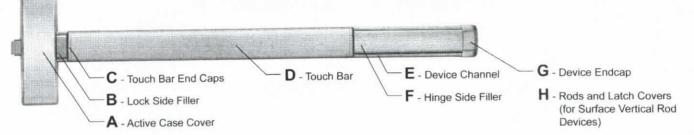
· 3-Hr fire rating for metal doors up to 4 feet wide by 10 feet tall.

· 282S strike plate bag and 282P bolt head available

 Specify 282R for optional rod length of 18" (457 mm), 25" (635 mm), or 30" (762 mm) (bolt head not included)







Base Materials

Finishes	ANSI/BHMA	US	Aluminum	Brass	Bronze	Stainless Steel
Polished Brass, Clear Coated	605	US3		A,B,C,D,E,F,G,H		
Satin Brass, Clear Coated	606	US4		A,B,C,D,E,F,G,H		
Satin Bronze, Clear Coated	612	US10			A,B,C,D,E,F,G,H	-
Dark Oxidized Satin Bronze	613	US10B			A,B,C,D,E,F,G,H	
Polished Chromium Plated	625	US26	/	С	A,B,D,E,F,G	н
Satin Chromium Plated	626	US26D		С	A,B,D,E,F,G	н
Satin Aluminum, Clear Anodized	628	US28	A,E,F			B,C,D,G,H
Satin Stainless Steel	630	US32D				A,B,C,D,E,F,G,H

Finishes

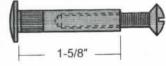
ANSI/BHMA	US	Description
600	USP	Primed for Paint
605	US3	Polished Brass, Clear Coated
606	US4	Satin Brass, Clear Coated
612	US10	Satin Bronze, Clear Coated
613	US10B	Dark Oxidized Satin Bronze
625	US26	Polished Chromium Plated
626	US26D	Satin Chromium Plated
628	US28	Satin Aluminum, Clear Anodized
630	US32D	Satin Stainless Steel
689		Aluminum Paint
695		Dark Bronze Paint

Fasteners

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

Sex Nuts & Bolts (not furnished std.)

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



Security Screws

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



Door Sizes

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

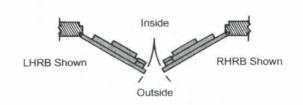
Door W	idths	Stock Sizes	
2'-1" to	2'-6"	2'-6" *	
2'-7" to	3'-0"	3'-0"	
3'-1" to	4'-0"	4'-0"	
* Not av	ailable i	for Narrow Stile Devices.	

Vertical Rod Devices

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

 Surface Vertical Rods are furnished of the same material as the device. Stainless steel rods are furnished for 625, 626, 628 and 630 devices.

Hand of Doors









S300 Standard



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 on 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 30.

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 35. 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, 626, 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 32.

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
Ε	Electric Device	28
EŁR	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
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 speci	ify 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	31
CD	Cylinder Dogging	19
DS	Door Position Monitoring Switch	29
SEC	Security Screws	3
SNB	Sex Nut and Bolt	3
WALW	Weatherized Exit Alarm: remote power	27
To spec	ify add Suffix to Device No. (e.g. 2103CD)	

STANLEY)

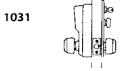
L1000 Series

1011

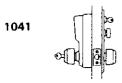
Exterior access by combination. Egress by interior lever.



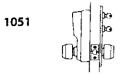
Exterior access by combination or key override. Egress by interior lever.



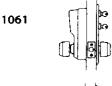
Exterior access by combination or passage feature (thumbturn activated). Egress by interior lever.



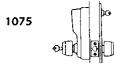
Exterior access by combination, key override, or passage feature (thumbturn activated). Egress by interior lever.



Exterior access by combination or passage feature (key activated). Egress by interior lever.



Exterior access by combination, key override, or passage feature (key activated). Egress by interior lever.



Exterior access by combination or key override. Button on inside lever activates privacy function. Egress by interior lever.

Specifications

Construction: Heavy-duty cylindrical lock housing conforms to ANSI 156.2 Grade 1. ADA & D.O.D.5220.22M. Cast front housing; fixed lever. Brass unified trim plate; cast or wrought brass levers.

Door thickness: 13/8" to 21/4" (35 to 57 mm)

Strike: Includes "TS" strike plate 201288-*-01, "ASA" strike plate 201413-*-41 and "DB" strike box 55068-000-01.

Latch: 5/8" (16 mm) throw latch carries a 3-hour UL/ULC fire rating for "A" labeled doors. 23/4" (70 mm) backset. Floating front.

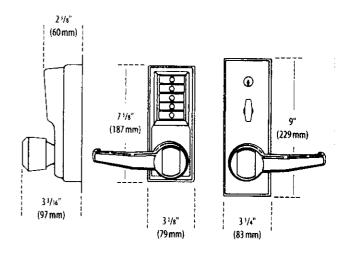
Installation: Cross bore for housing: 21/8" (54 mm) dia. Edge bore for latch: 1" (25 mm) dia. Installation wrench 201278-018-01 included. Minimum stile required: 5" (127 mm)

Control: Includes two DF59 keys for combination change; two DF5 keys for models 1051, 1061.

Door handing: Factory handed; cannot be changed in the field.

Weight: 81/4 lbs. (3.7 kg)

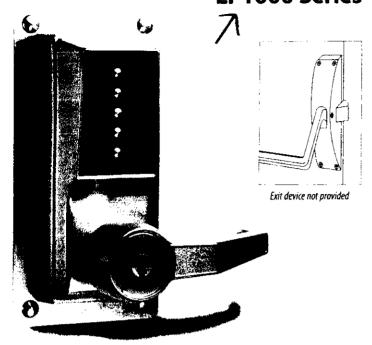
Substitute the -*- in the product number with one of the finish codes below



(LH lock shown)

		How t	o orde	r
	HAND	MODEL	FINISH	PACKAGE
(Mode	L R 1 T LEVER ds 1021, 1041 an	KEY OVER	- 26 D RRIDE lied – see page 2 for key	
MODEL	Choose from 1051, 1061		s pictured at left: 101	1, 1021, 1031, 1041,
FINISH	05 -	"Chiara" Bright Bra Antique Brass Satin Chrome	22	
FINISH PACKAGE	0\$ - 26D -	Antique Brass		

Exit Device Controls LP1000 Series



The Lever Panic lock replaces the key cylinder on new or existing surface-mounted exit devices. The UNICAN® LP1000 can be used with a variety of manufacturer's rim-mounted exit devices.

- Complies with ADA (Americans with Disabilities Act) standards.
- · Weather-resistant; all-metal construction, ideal for use outdoors.
- · Designed for high-frequency use.
- Lock comes with a 23/4" (70 mm) long tailpiece to operate exit device from the outside
- Exit device can have up to 60° rotation (either direction).
- LP1000 may not be used with mortise design, or with most vertical rod devices.
- · Exit device may be "dogged" without affecting the LP1000.

LP1000 locks can be used with many leading brands of surface-mounted exit devices including but not limited to the following:

Von Duprin — All models are Exit Only (EO) or Exit Only Fire (EOF): 22, 88 (EO only), 98, 99, 900, 2227, 9827, 9847, 9847 WDC, 9848, 9857, 9947 WDC, 9927, 9947, 90027, 90047 WDC, 90057

American Device — 6324, F6324, 6424, F6424

Monarch — XX-R*, FXX-R, 18-R*, F-18-R*, 17-R, F-17-R*, XX-V*, F-XX-V*, 18-V*, F-18-V*, F-XX-V*, 11-R*, 11-V*.

*Requires a special K-hub adapter (to be supplied by Monarch).



Specifications

Construction: Cast front housing with fixed lever (factory handed) and brass mounting plate. Cast lever meets all ADA (Americans with Disabilities Act) standards.

Door thickness: Up to 2 1/4" (57 mm)

Strike/Latch: Not included

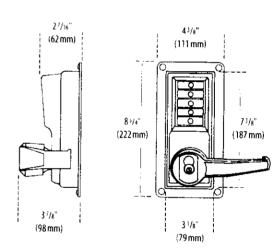
Installation: Minimum stile required: 5" (127 mm). See exit device compatibility. (Installation may require recessing LP1000 thru-bolts on

inside of door.)

Control: Includes tool #55179 for combination change.

Door handing: Factory handed; cannot be changed in the field.

Weight: 8 lbs. (3.6 kg)



			How to	or	der		
	ħ	AND	MODEL	Ff	NISH	PACKAGE	
	ĻĒ	₹ P	1020A	- 2	6 D	- 41	
	VER		KEY OVE	RRIDE			
	_	(Core	not supplied – see page	2 for key overri	de options)		
MODEL 1020			ccess by combination c e (not supplied).	or key override	e.Interior e	gress by	
INISH	26D	-	Satin Chrome				
PACKAGE	41	_	1 lock per box				
fAND	LP		Left hand panic	RP -	Right ha	nd panic	—

Control Married Control Contro		
TABLE OF CONTENTS		
	• •	
D-4550 / D-4551 Series		
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		7
General Information		
Standard Application 4 Track Rail Arm Application		
Parallel Arm Application 5 Accessories		M 44
Parale Ath Addicator		U, 14
		1
Top Jamb Application6		

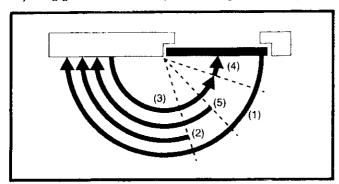
Introduction

The model D4550 Series is Stanley's best performing Heavy Duty Closer. The cylinder body is manufactured using R-14 Silicon Aluminum Alloy providing superior strength and durability on institutional applications. Available in a variety of standard and heavy-duty arm configurations accommodating a broader range of today's growing architectural application requirements.

Features

Fully Hydraulic Checking

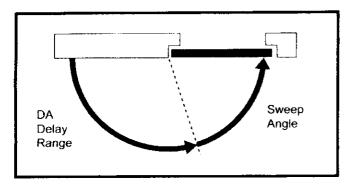
Controls the door through the entire opening and closing cycles by providing adjustable backcheck upon opening and adjusting general and latch speeds through the closing cycle.



- opening swing, no checking
- (2) backcheck
- (3) general speed
- (4) latch speed
- (5) advanced backcheck

Delayed Action - Optional

The D-4550DA / D-4551DA Series Door Closers are equiped with a seperate hydraulic valve adjustment to delay the closing speed from 180 to 70 degrees of door opening range.



Non-Handed

Can be used on both RH and LH doors for both push side and pull side mounting.

Advanced Variable Backcheck (AVB) optional

Cylinder starts backcheck at approximately 45° instead of the normal 75°. Add suffix "AVB" to selected cylinder. When combined with Delayed Action consult factory for special template. (Heavy Duty Arm applications).

Adjustable Spring Power

The D-4550/D-4551 Series Door Closers are designed to have the widest range of spring power adjustment available to meet the broadest range of aplication requirements.

Non-Critical Regulation

The separate adjustments for backcheck, general and latch speeds are equipped with non-critical "V-Slot" regulating valves which allow for fine tuning the closing and latching speeds as well as the backcheck intensity.

All Season Fluid

All season fluid eliminates the need for seasonal adjustment.

Special High Silicon Aluminum Alloy Housing

All D-4550 / D-4551 Series Door Closers are constructed of RYOBI'S R14 HIGH SILICON ALUMINUM ALLOY to exceed the ANSI/BHMA A156.4 Grade 1 requirements.

Forged Arms

Heavy duty forged arms are interchangeable between the D-4550 and D-3550 Series Door Closers.

High Impact Cover

All D-4550 / D-4551 Series Door Closers are shipped with a high impact self-extinguishing decorative cover.

Metal Cover - Optional

An optional stainless steel, brushed finish metal cover is available.

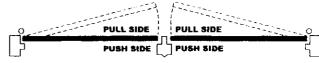
Special Rust Inhibitor (SRI) - Optional

For installations where a higher level of corrosive resistance is required.

Maintenance Free

Door Closers mounted in accordance with the provided installation instructions are maintenance free from periodic inspection and adjustment.

Handing

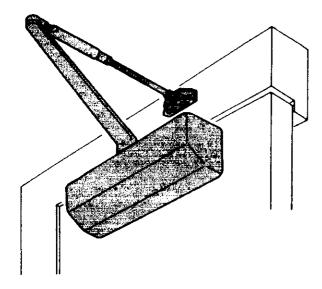


LEFT HAND DOOR

RIGHT HAND DOOR



STANDARD APPLICATION (



D-4550 / D-4551 Series Door Closer

Specifications

- · Closer mounted on Pull side of door
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Custom installation template may be available for unusual installation conditions. Contact Stanley for assistance.

Maximum Door Opening

120" Opening

A = 11-1/4" (286 mm)

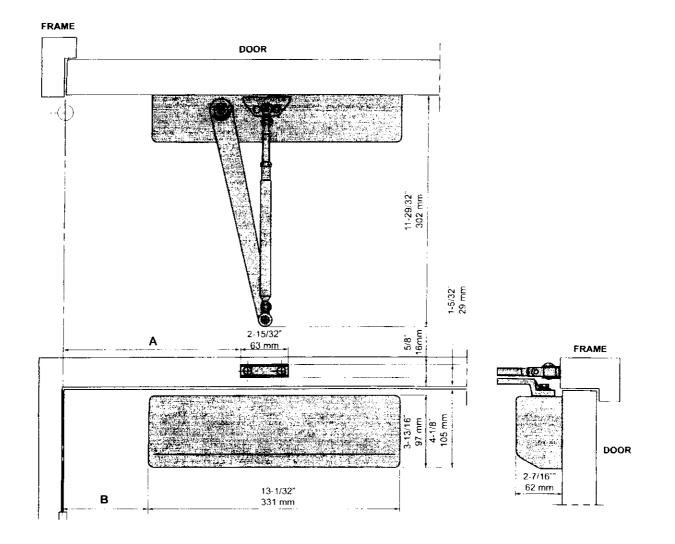
B = 6-1/2" (165 mm)

180° Opening

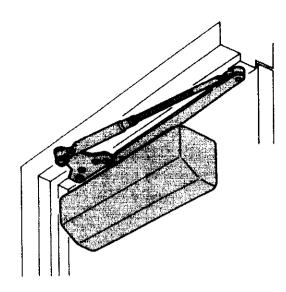
A = 9-1/4" (235 mm)

B = 4-1/2" (114 mm)

Hold-open points up to maximum door opening with hold open arm.



PARALLEL ARM APPLICATION



D-4550 / D-4551 Series Door Closer

Specifications

- · Closer mounted on PUSH side of door
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Custom installation template may be available for unusual installation conditions. Contact Stanley for assistance.

Maximum Door Opening

120° Opening

A = 8-23/32" (222 mm)

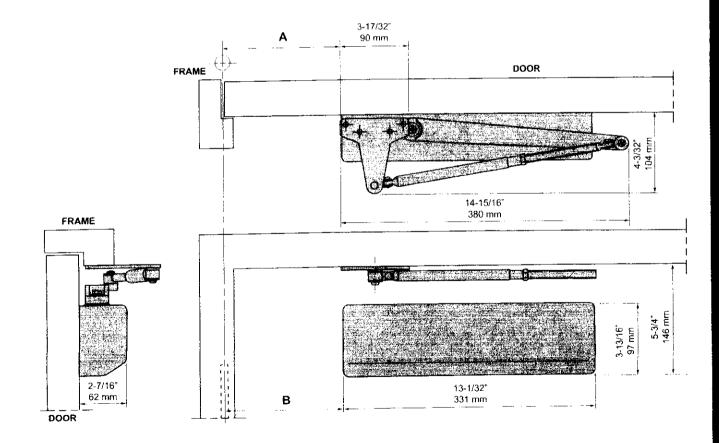
B = 8-27/32" (224 mm)

180° Opening

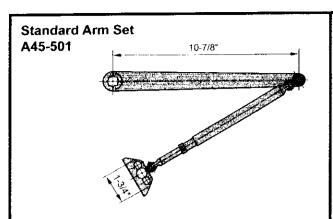
A = 6-3/32" (155 mm)

B = 6-7/32" (158 mm)

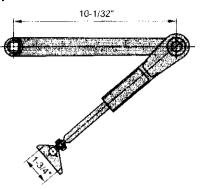
Hold-open points up to maximum door opening with hold open arm.





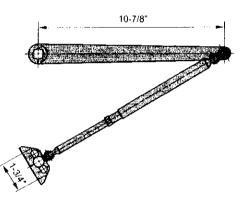


Standard Hold-Open Arm Set A45-501H



Standard Arm with Long Rod and Shoe Set A45-501L

• For reveals from 6-1/2" to 8"



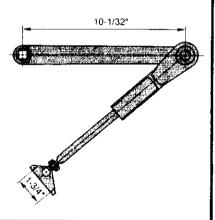
Standard Hold-Open Arm with Long Rod and Shoe Set

A45-501HL

 For reveals from 3-3/16" to 4-13/16"

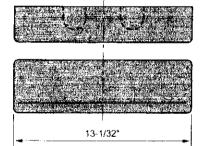
A45-501HXL

 For reveals from 4-7/8" to 8"



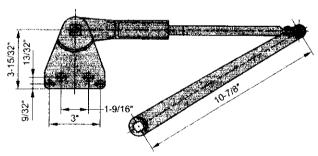
Full Cover C-455 Plastic MC-455 Metal



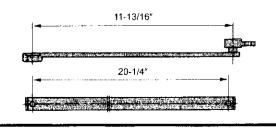


Parallel Hold-Open Arm Set A45-503H

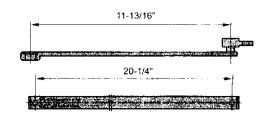




Track Rail Arm Set A45-507T



Track Rail Hold-Open Arm Set A45-507HT





DOOR STOPS						
ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH		
Hinge Pin Stop With Removable Nylon Bush Adjustable Angle Setting Comparable to IVES #69. 69F Architectural finishes available		Hinge Pins Diameter $\frac{1}{4}$ " or $\frac{5}{16}$ " HINGE SIZES: $\frac{3}{2}$ " x 3 $\frac{1}{2}$ ", $\frac{4}{3}$ " x 4" Hinge Pins Diameter $\frac{1}{4}$ " or $\frac{5}{16}$ " HINGE SIZES: $\frac{3}{2}$ " x 3 $\frac{1}{2}$ ", $\frac{4}{3}$ " x 4 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ "	DSLD81 (Recommended for Residential use) DSHD105 (Recommended for Commercial use)	US3, 5,10B, 15, 15A, 26, 26D		
	Jumbo Heavy Duty Hinge Pin Door Stop With Removable Nylon Bushing Adjustable Angle Setting For commercial and residential grade hinges Comparable to IVES #69, 69F	Hinge Pins Diameter 1/4" or 5/16" HINGE SIZES: 3 1/2" x 3 1/2", 4" x 4", 4 1/2" x 4 1/2"	IVHP23 (Commercial and Residential use)	US3, 5, 26, 26D, 15, 15A, 10B		
	Jumbo Hinge Pin Door Stop With Removable Nylon Bushing - Easy installation - For use with commercial and residential door hinges - Architectural finishes available Deluxe Hinge Pin Door Stop With Removable Nylon Bushing - Easy installation - For use with residential door hinges - Architectural finishes available		JHP11 (Commercial and Residential use)	US3, 5, 26, 15, 15A, 10B		
			NHP78 (Recommended for Residential use)	US3, 5, 26, 26D, 15, 15A, 10B		
	Residential Hinge Pin Door Stop With Removable Nylon Bushing Easy installation For use on residential hinges Architectural finishes available	Hinge Pin Diameter ½" HINGE SIZES: 3½" x 3½". 4" x 4"	HP95 (Recommended for Residential use)	US3, 5, 26, 15, 15A, 10B		
Specification Sheets available for su	bmittal purposes at www.cal-roya	al.com. Click on "Spec	cification Sheet	ts Image"		

Cal-Royal Products, Inc.

6605 Flotilla St., City of Commerce, CA 90040 U.S.A.

Phone: (323) 888-6601 • (800) 876-9258 • Fax: (323) 888-6699 • (800) 222-3316

Email: sales@cal-royal.com • Website: www.cal-royal.com

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Floor Door Stop & Manual Holder

FS446

Features;

- Manual type floor holder ideal for interior or exterior use.
- · Cast brass or aluminum construction
- Accommodates door undercut up to 2-1/2"
- . Non-marring rubber tip
- Unit functions as a stop but serves as a Hold-Open device when hook is manually engaged in strike. Unit requires manual disengagement to release Hold-Open
- · Packed with expansion shield and lead shield
- Meets ANSI/BHMA 156.16, L11371 for brass and L31371 for aluminum.
- Finishes: US3, US4, US5, US10, US10B, US14, US15, US15A, US26, US26D, US28.

Product	Overall	Height from Floor	Stop	Base	
No.	Height	to Stop Center Line	Diameter	Diameter	
FS446	3-3/4	2-5/8'	1-1/16"	2-1/2"	

FS450

Features:

- Manual type floor holder ideal for interior or exterior use.
- · Cast brass or aluminum construction.
- Accommodates door undercut up to 2-1/2
- · Non-marring rubber tip.
- Unit functions as a stop but serves as a Hold-Open device when hook is manually engaged in strike. Unit requires manual disengagement to release Hold-Open.
- · Packed with wood screws.
- Meets ANSI/BHMA 156.16, L11361 for brass and L31361 for aluminum.
- Finishes: US3, US4, US5, US10, US10B, US14, US15, US15A, US26, US26D, US28.

Product	Overall	Height trom Floor	Stop	Base	
No.	Height	to Stop Center Line	Diameter	Diameter	
FS450	3-3/4"	2-5/8	1-1/16"	2-1/2	

F\$451

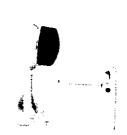
Features:

- Manual type door holder ideal for interior or exterior use.
- . Cast brass construction.
- · Strike features hinged hook which engages the holder
- Accommodates door undercut up to 2-1/2
- · Resilient rubber tip
- . FS451-WS packed with wood screws.
- FS451 packed with expansion shield and tampin. Strike packed with sheet metal screws
- FS451-WS meets ANSI/BHMA 156.16, L11361 for brass and L31361 for aluminum. FS451-WS meets ANSI/BHMA 156.16, L11371 for brass and L31371 for aluminum.
- Finishes: US3, US4, US5, US10, US10B, US14, US15, US15A, US26, US26D, US28

Product No.	Overall Height	Base Depth	Base Width	1
FS451-WS	3-3/16"	2-1/2"	1-5/8	_
FS451	3-3/16	2-1/2"	1-5/8"	









0

TRIM & AUXILIARY



Door Protection Plates

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

Mop Plate: Protects the bottom of the pull side of doors subject to cleaning and mopping

procedures.

Kick Plate: Protects the bottom of the push side of doors subject to scuffing from foot traffic. **Stretcher Plate**: Protects doors in specific areas where constant contact is made by stretchers, service

carts, or other equipment.

Armor Plate: Protects lower half of doors from abuse by carts, trucks, and rough usage.

190S

Gauge: 0.050" (1.3 mm)

Materials: Aluminum, brass, bronze, stainless steel US3, US4, US10, US10B, US28, US32,

US32D

Bevel: None

Options: UL Listed for US32 and US32D*

1935

Gauge: 0.050" (1.3 mm)

Materials: Aluminum, brass, bronze, stainless steel US3, US4, US10, US10B, US28, US32,

US32D

Bevel: 3 edges

Options: UL Listed for US32 and US32D*

194S

Gauge: 0.050" (1.3 mm)

Materials: Aluminum, brass, bronze, stainless steel US3, US4, US10, US10B, US28, US32,

US32D

Bevel: 4 edges

Options: UL Listed for US32 and US32D*

198S

Gauge: 0.038" (0.8 mm)
Materials: Stainless steel
Finishes: US32D

Options: UL Listed*

199B

Gauge: 0.038" (0.8 mm) Materials: Aluminum

Finishes: Bright gold anodized

Fasteners: #6 x 5/8" TPH Tapping Screws

2205

Gauge: 0.062" (1.6 mm)

Materials: Aluminum, brass, bronze, stainless steel US3, US4, US10, US10B, US28, US32,

US32D

Bevel: None

223S

Gauge: 0.062" (1.6 mm)

Materials: Aluminum, brass, bronze, stainless steel

Finishes: US3, US4, US10, US10B, US28, US32,

US32D

Bevel: 3 edges

224S

Gauge: 0.062" (1.6 mm)

Materials: Aluminum, brass, bronze, stainless steel

Finishes: US3, US4, US10, US10B, US28, US32,

US32D

Bevel: 4 edges

204S

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

2145

Gauge: 0.125" (3.2 mm)
Materials: Plastic laminate

Bevel: 4 edges

Colors: Black, Brown, Grey

Notes: Other colors are available and will be

subject to minimum order quantities;

priced on application

225S

Gauge: 0.060" (1.9 mm)

Materials: Kydex[®]

Colors: CBO - Calcutta Black, KGO - Beige,

KHO - Chocolate

Notes: Other colors are available and will be

subject to minimum order quantities;

priced on application

Options: UL Listed*



*Must specify UL stamp.



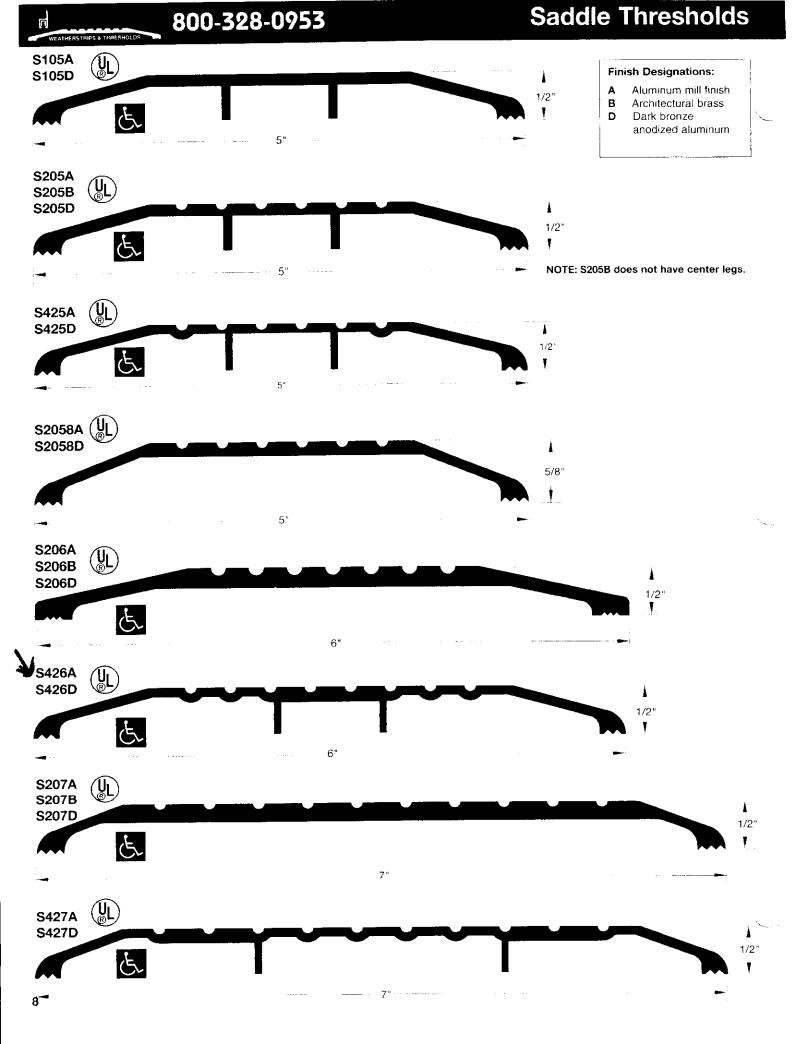


ILLUSTRATION	ITEM	S	IZE	ITEM #	FINISH	
10		3/4" dia.	3.5" x 15"	1000	US32D,	
		6"CTC	4" x 16"	1001	10B, 3	
	- 11-1			1001 ADA	US32D	
	Pull Plate	3/4" dia.	3.5" x 15"	1002	US32D,-	
	Solid Bar Round	8"CTC	4" x 16"	1003 —	10B, 3	
\ 0 \ \ \ \	1000 Series	0 010	4 X 10	1003 ADA	US32D	
	Meets ANSI 156.6 for J401 Pulls	1" dia.	3.5" x 15"	1004	US32D,	
	> 18 Gauge (0.050") Plate	8"CTC	4" x 16"	1005	10B, 3	
	######################################	0 010	4 X 10	1005 ADA	US32D	
		1" dia.	3.5" x 15"	1006	US32D,	
			4" x 16"	1007	10B, 3	
		10 010	4 7 10	1007 ADA	US32D	
	Push Plate Individually packed with protective film and screws	0.050" x 3 ½ " x 15"		PSPL3515	US32D, 10B,10, 6,	
	➤ Easy installation ➤ Confroms to ANSI/BHMA A156.6 ➤ Architectural finishes available	0.050" x 4" x 16"		PSPL4016 -	5, 4, 3, 26	
LPG2 00	Latch Guard Protector > Universal latch guard for outopening doors		2 ⁷ / ₈ " x 11"		USP,ALUM DURO, GOLI	
GJLPG2	 ➢ Fits most single, double and mortise locks ➢ Conforms with ANSI/BHMA 156.2 Series 4000 	3" x 11"		GJLPG2	US32D	
	Solid Brass Drawer Pull > Includes Screws for ¾" – 1 ¾"	Dia. of Rod : 3", 5/16" Dia. of Rod 3 ½", 5/16"		WP300		
	thick drawers or doors Conforms to ANSI/BHMA A156.9 B22011			WP350	US3, 26, 26D US10B	
	> Architectural finishes available	Dia. of Rod 4", 5/16"		WP400	23.00	

Specification Sheets available for submittal purposes at www.cal-royal.com. Click on "Specification Sheets Image"

Cal-Royal Products, Inc.

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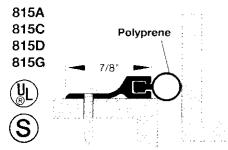


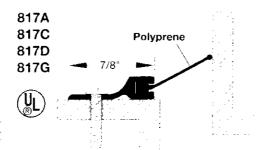
Ver. 1, Rev. 5/11 ©2011 CRP. Inc.

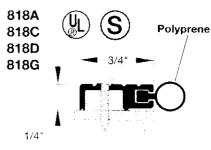


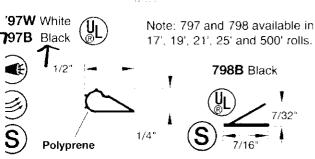
Polyprene

Polyprene®, a thermoplastic compound rubber, is a series of high-performance elastomers which combine the desirable characteristics of vulcanized rubber, such as flexibility and low compression set with the processing ease of thermoplastics.









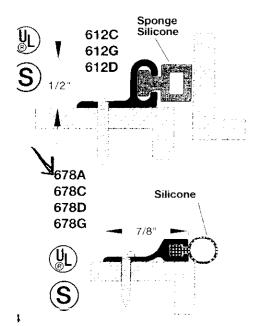
- Withstands a wide variety of temperature extremes: remains stable and keeps its shape from -76°F to 250°F.
- Has soft, good low temperature flexibility.
- More wear resistant than silicone rubber.
- Low compression set outstanding memory for consistent long-term sealing pressure.
- Unaffected by sunlight, ozone and ultraviolet rays.
- Fatigue resistance unsurpassed flex fatigue resistance.

Silicone

38CH
3/8"
Charcoal color available in 17', 19', 21' and 25' rolls.

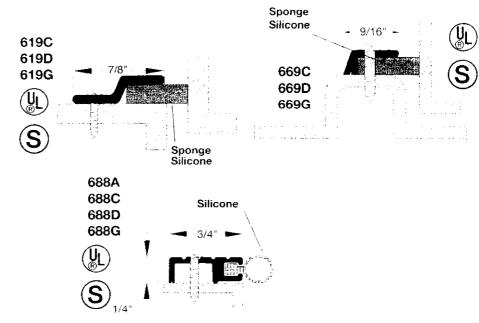
Silicone

lote: All self-adhesive weatherstrips must be pplied on clean, dry frames between +50°F nd +100°F. Smoke seals have a presistallation shelf life of 6 to 9 months.



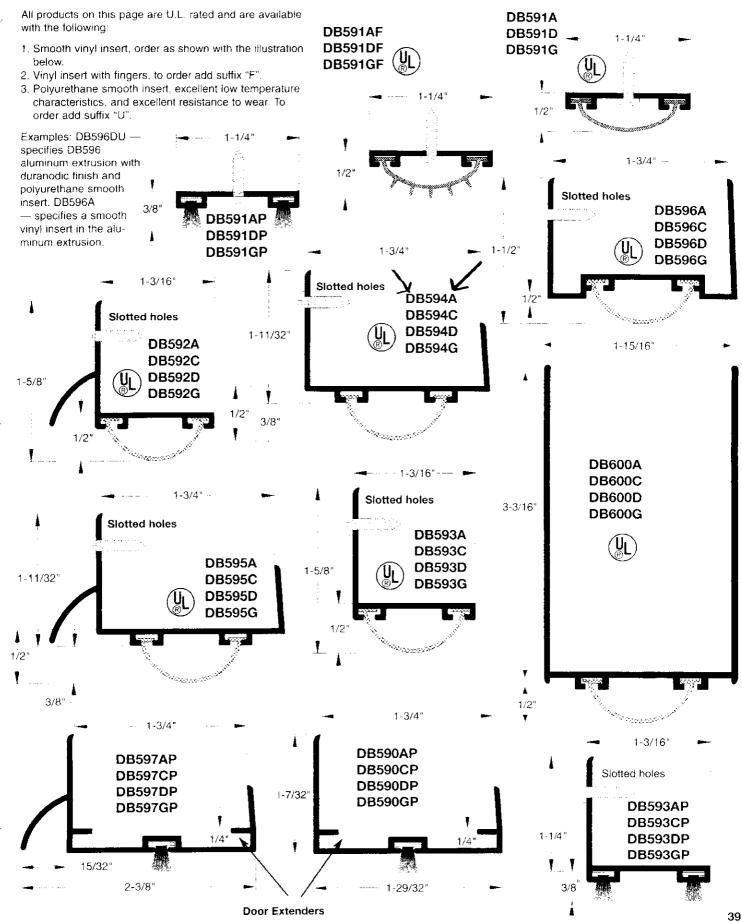
Silicone rubbers are synthetic polymers with unusual molecular structures; giant backbones of alternating silicon and oxygen atoms. This linkage is similar to that found in quartz, thus silicones have superior heat resistance compared to other elastomers.

- Withstands a wide variety of temperature extremes and remains flexible from -75°F to 400°F.
- Retains softness indefinitely will not deteriorate under normal exposure.
- Resists compression set lower than thermal plastic elastomers.
- Resists fungus, mildew, moisture and steam.
- Unaffected by sunlight, ozone and ultraviolet rays.
- Nontoxic.





Polyurethane, Vinyl and Pile Seals



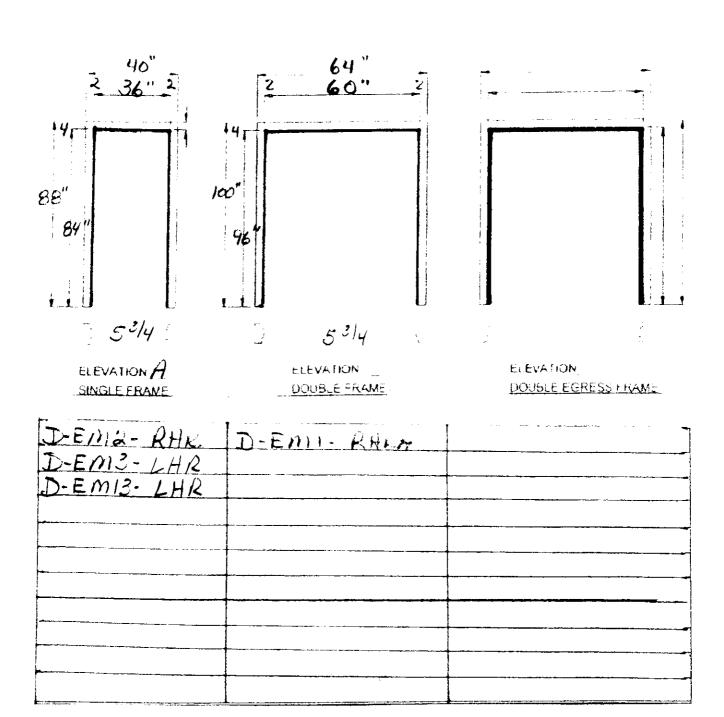
Frame Elevations

Newco Door & Hardware, LLC.

and Rick L. Bradley, your hardware consultant, Same <u>Great Service</u>, just a different name & location.

6606 E. 47[™] Ave. Denver, Co. 80216

Cell phone: 303.903.3947



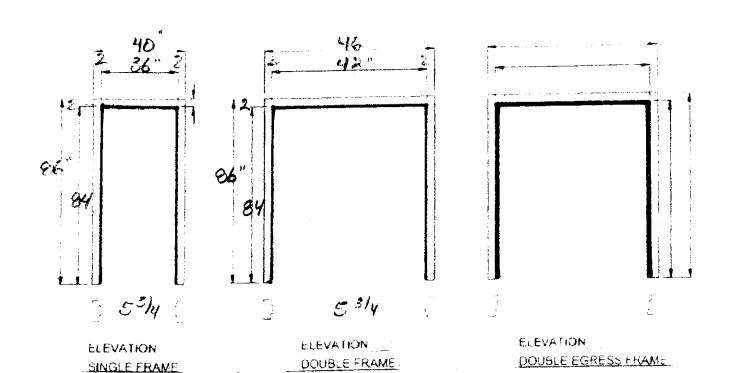
Frame Elevations

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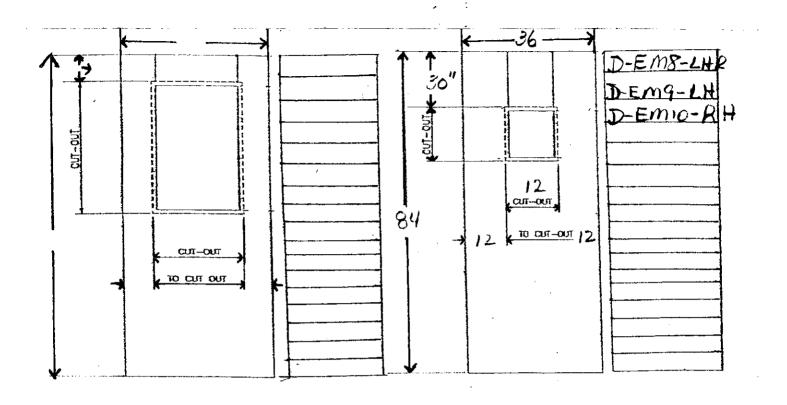
6606 E. 47™ Ave. Denver, Co. 80216

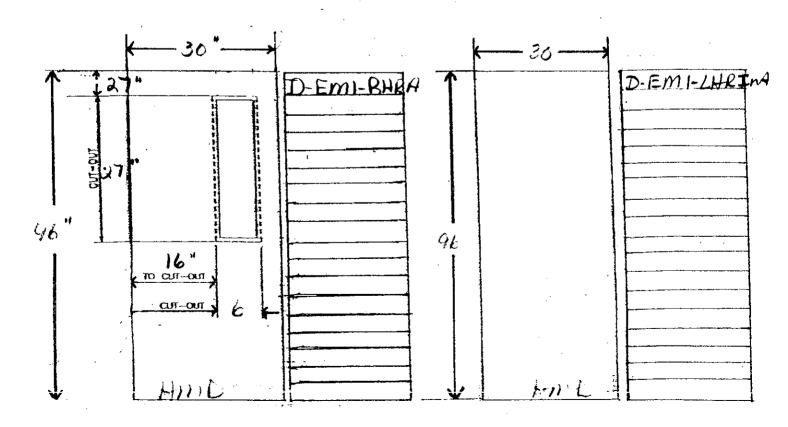
Cell phone: 303.903.3947



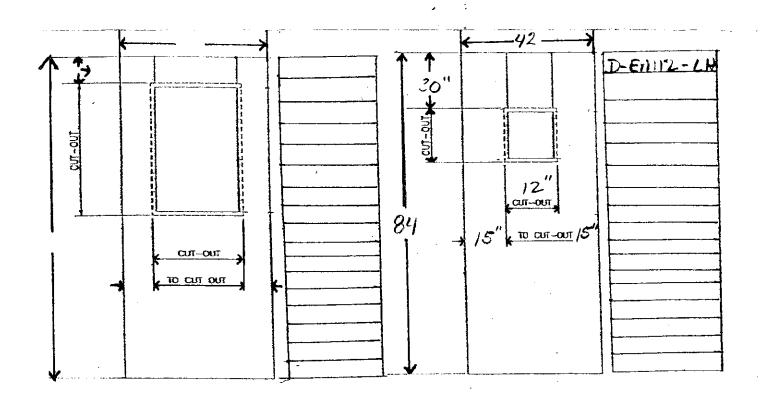
D-EM8 - LHR	D-EMIG-LH	
D-EM9- LH		
D-EMIO-RH		
D-EMII - RHR		

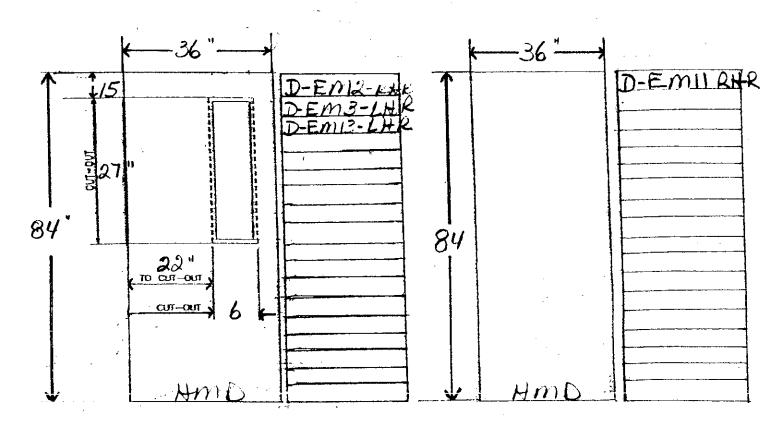
Newco Door & Hardware, LLC. and Rick L. Bradley, your hardware consultant,





Newco Door & Hardware, LLC. and Rick L. Bradley, your hardware consultant,





Phone: 800-647-7874

Fax: 800-255-7874

L-FRA100

Low Profile Self-Attaching Lite Kit for I 3/4" Door with 3/16" or 1/4" Glass

STANDARD FEATURES

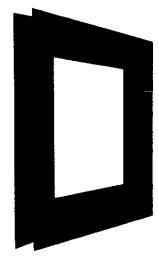
- * 20 ga. cold rolled steel
- * Mitered and welded corners
- * Welded reinforcing clips at corners
- * Counter-sunk mounting screw-holes
- * #8 x 3/4" Phillips head SMS
- * Available in uneven and fractional sizes
- * Standard finish = (GPZ) Gray Primer

OPTIONAL FEATURES

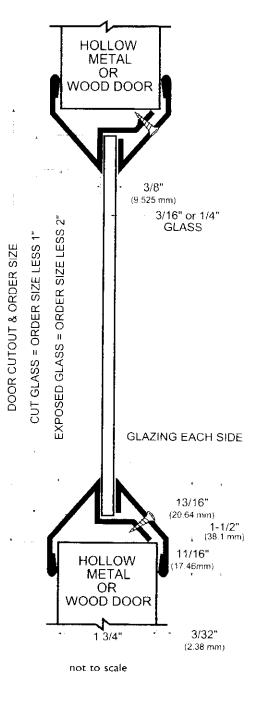
- * See page L2 for optional finishes
- * Torx Security Screws
- * Galvanneal A40 Steel
- * Zinc electro-plating
- * Glass & Glazing tape (Pages L23-L27)
- * Lead lining

ULIOC POSITIVE PRESSURE FIRE-RATED

- * Fire-rated 1/4" wire glass: 20 min. requires closed cell PVC foam glazing tape like NGP GT-116. 45, 60, 90 min. requires NGP 9800 or 3M GIS intumescent glazing tape.
- Fire-Lite® NT, or Fireglass 20TM requires closed cell PVC foam glazing tape like NGP GT-116 or GT-118.



Designed for use on 1 3/4" thick doors manufactured within door industry tolerance of +/- 1/16".







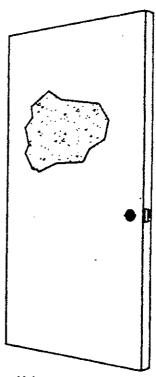
HP & CHP SERIES

ENGINEERING DETAILS for STANDARD

SERIES CHP Seamless 1 34" Doors

Specifications

- 1. HP doors shall be formed from two 16 or 18 gage A60 Galvanneated Steet per ASTM A924 and A653 and shall be 1-3/4" thick.
- CHP doors shall be formed from two 14. 6-or 18 gage A 60 Galvannealed steel per ASTM A924 and A653 and shall be 1-3/4" thick.
- 3.) Doors shall have a core of rigid Polystyrene. The core shall have a nominal density of 1.0 #/ft3, with an "R" factor of 7.12. The door panel shall develop a "U" factor of 0.014.
- 4. HP doors shall have vertical mechanical interlocking seams on hinge and lock edges. There shall be no seam on the faces of door.
- 5. CHP doors shall have no seams on the faces or edges of doors. Vertical edges of doors shall be continuously seam- welded full height of the door.
- 6.) Exterior doors shall be capped to retard moisture penetrating the door.
 - All hinge reinforcements shall be 3/16" thick.
- 8. All doors shall be internally reinforced with a 12 gage plate both sides of the door for application of surface applied door closures and holders.
- 9 Glass light moulding shall be Pioneer standard steel moulding, with no exposed screws on the secure side
- 10. Louvers shall be Pioneer standard design for application required.
- 11 All doors shall be cleaned and given one coat of baked -on rust- inhibitive metal primer in compliance with ANSI A250.10-2004
- 12. All fire rated doors, where indicated, shall be manufactured in accordance with UL or WHI procedures and bear the appropriate classification mark (label).
- 13. Door construction complies with ANSI A250.8-2003 (SDI 100)
- Doors shall be packaged to minimize damage in transit and handling.
- Hardware reinforcements are in accordance with ANSI A 250.6-2003. Locations are in accordance with ANSI/BHMA A156.115



incu	lation	Values	2
11120	nauvii	Y alue:	3

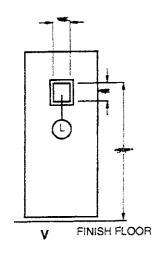
Factor		Detir	ndon	
к	insulation are	normally base eneous :mate	s thru a mater. d on one inch s rial and are	thickness of a
c	thickness. The "C" factor of the	"C" factor at ne same mate:	thru a material one inch = "k rial at three inc the "C" factor	Cfactor. The thesis 1/3 o
U	all elements of factors). A "U" factors of the v	f construction factor is det		nvironmental ding the "C"
R	A measure of thickness of resistance to the common insula	the insulation he heat flow in	n material increases. See	treases, the
	Material	1" thick	2"thick	3"thick
	Urethane	7.0	13.0	20.0

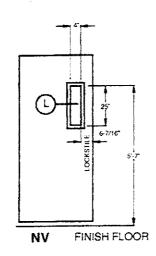
Material	1" thick	2 thick	3"thick	
Urethane	7.0	13.0	20.0	
Polystyrene	4.1	8.0	12.0	
Fiberglass (1# or less)	4.0	8.0	12.0	į
 Vermiculae	2.0	3.6	5.5	_

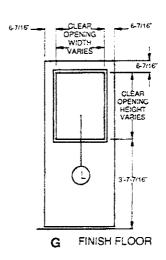
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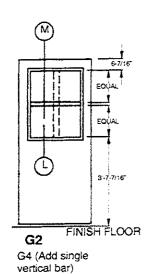


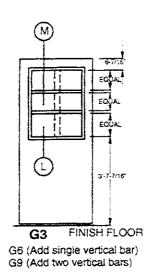


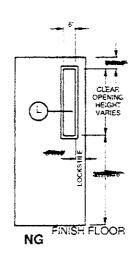




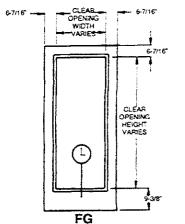


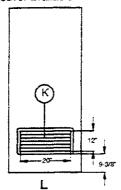


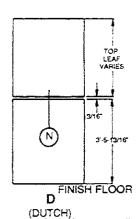




NOTE: 12" x 12" Louver standard for 2' ~0" & 2'-4"door – all others 20" x 12", 20" x 24" Louver available





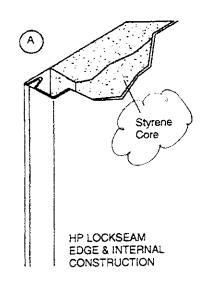


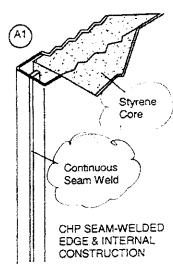
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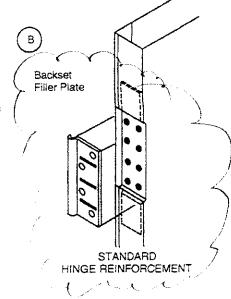


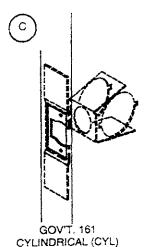
CHP SERIES

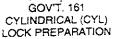
MANUFACTURING DETAILS: FULL FLUSH & SEAMLESS DOORS











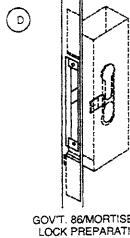
(F)

Filler Plate Optional Reinforcement

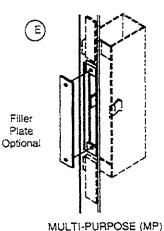
Full Height

Both Faces

Of Door

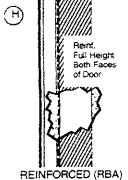


GOV'T. 86/MORTISE (M) LOCK PREPARATION



 $^{\circ}$ No internal Reinforcement

BLANK ACTIVE (BA) PREPARATION



PREPARATION

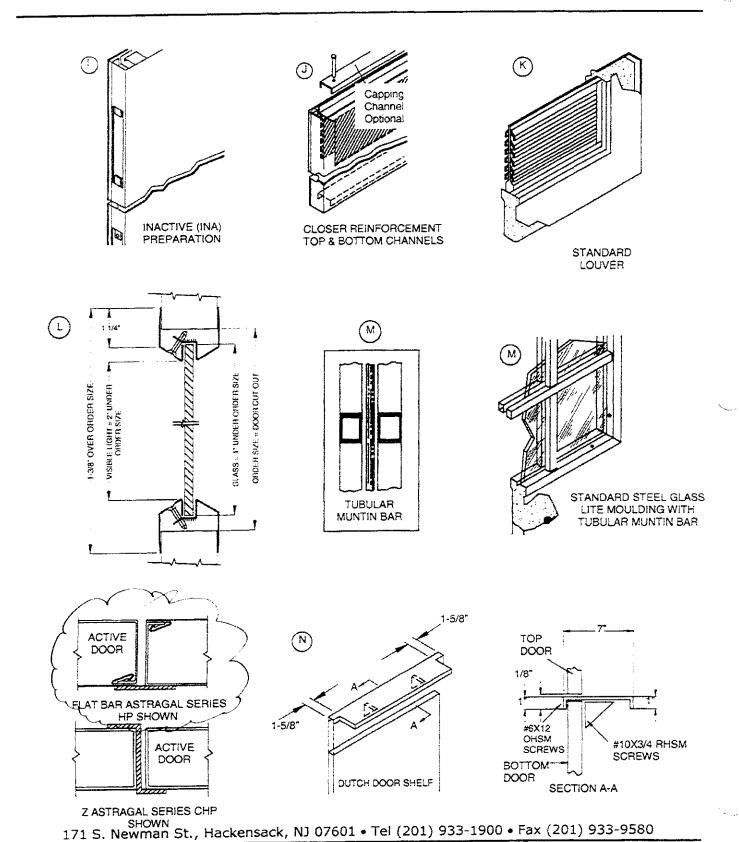
REINFORCED (RBA) **BLANK ACTIVE PREPARATION**



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CHP SERIES



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DATA SHEET REV.6/2007

TECHNICAL DATA-FRAMES

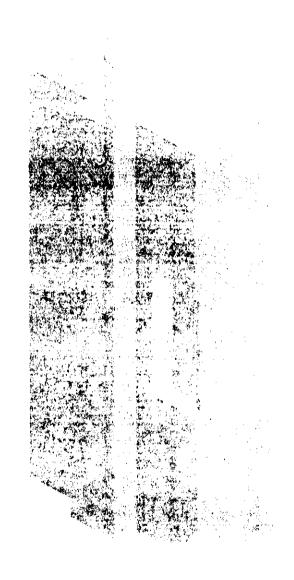
机等的现在分词

SERIES F-14 and F-16 FRAMES For 1-3/4" Doors

Specifications

spreader.

- Frames shall be manufactured of 14 or 16 gage. Steel per ASTM A 1008, 568 & 569, OR A60 Galv. Per ASTM A924 & A653.
- Frames shall be knocked down for field assembly.
 Milters shall have a precision hairline joint when assemble.
 OPTION: Corners shall be arc-welded and ground smooth, and frames shall be provided with steel bottom.
- Heads shall be reinforced for surface applied closers, holders, or brackets when required.
- 4. Dual purpose hinge reinforcements shall be 3/16" thick, it comes equipped with galvanneal back-up filler plate for standard weight hinges. Conversion from standard weight to heavy weight hinges is done by removing the filler plate. All reinforcements for hinges and strikes shall have steel-plaster guards.
- 5 All frames shall be prepared to receive G.J.64 type door silencers; three for single frame and two for pair frame. (Silencers by others)
- Frames are available with appropriate anchors as required to suit wall conditions. Frames shall have floor office at bottom of all jambs for attachment to finished floor.
- Heads of pair frames over 4'-0" wide and up to 16 gage shall be prepared with a universal "knock-out" or Mortised Flush Bolt prep. as required.
- Frames shall be prime painted by Pioneer's exclusive "DURA-BOND" process, consisting of a wash, phosphate treatment, "flo-coat" painting and oven baking in compliance with ANSI A250.10-2004

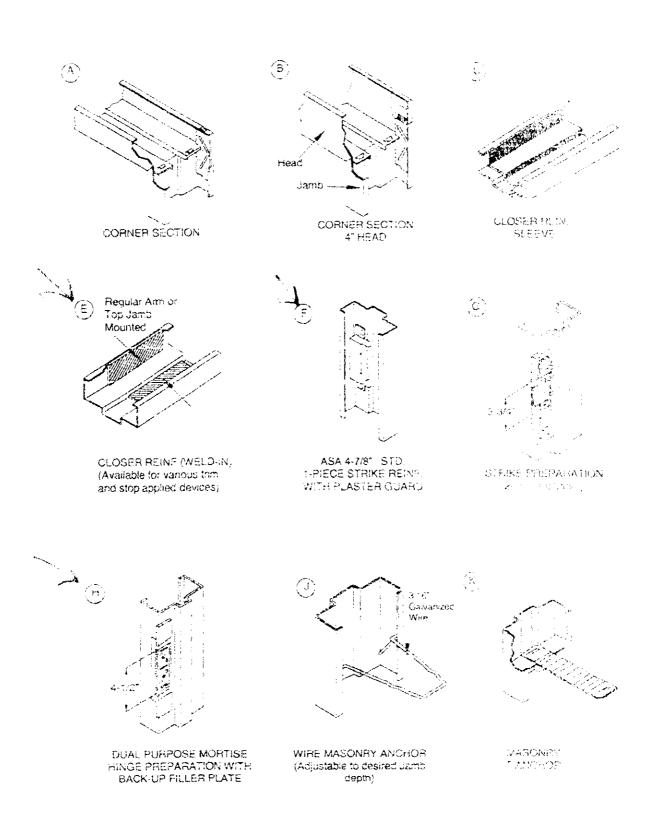


- Frames shall be furnished with WHI or UL Positive and Negative. Pressure rated it sting to a fall of the state of the stat
- 10. Frame construction complies with ANSI A 250.8-2003 (SDI -100)
- 11. Hordware, preparations, and reinforcements comply with ANSI A250.6-2003. For altions are represented accordance with ANSI/BHMA, A156 115-2006.

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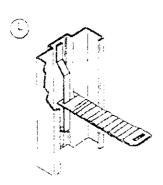
TECHNICAL DATA - FRAMES



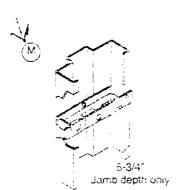
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TECHNICAL DATA - FRAMES



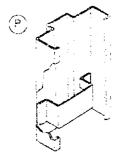
YOKE & STRAP MASONRY ANCHOR



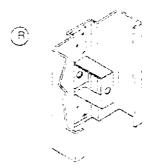
COMBINATION ANCHOR for Steel Stud, Wood Stud and Existing Masonry



STEEL 8: UD ANCHOR (Adjustable to desired Jamo depth)



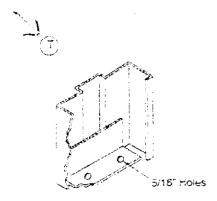
CLOSED CHANNEL STEEL STUD ANCHOR (Specify stud width)



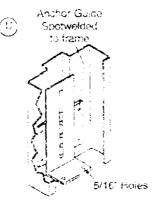
EXISTING MASONRY ANCHOR 3/8" Bolt and Shield furnished when UL listed



WCOD STUD ANCHOR (Adjustable to desired Jamb depth)



BASE ANCHOR



ADJUSTABLE FLOOR KNEE

NOTE: In order to provide our Oustoiners with the linest Products, manufactured in the Most up to date manner. Probeer Industries reserve the right to make design or specific construction changes without notice.

Pioneer Industries will not be Responsible for errors incurred By other parties through the use Of this diata steet without written confirmation from Pioneer. Other trades chould contact Pioneer for exact hardware locations.

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TECHNICAL DATA - FRAMES

F-SERIES

NOTES

Standard Hinge Preparation:

1 ½ pair of 4 ½ x 4 ½ standard weight template hinges for 6'-8", 7'-0" 1 7'-2" height. Two pair for 7'-10" and 8'-0" height. Hinge Backset 5-16" for 4 ½" Regular Weight Butts; 11/32" for 4 ½" Heavy Weight Butts.

Standard Strike Preparations:

ASA 4-7/8" furnished as standard. 2 ¾" strike is optional. Strike Backset = 11/02".

Standard Anchors:

Jamb Anchors — Wire Masonry anchors are available for all frames. Three (3) anchors per jamb for 6'-8", 7'-6" & 7'-2" height; four anchors per jamb for 7'-10" & 8'-0".

Base Anchoro - Rigid Floor Knee furnished as standard for all frames, unless otherwise specified

Fire Rated Label: All 16 Ga. And 14 Ga. Frames available with UL or WHI (Intertok) liching mark enless specifically prohibited by (iii).

Standard Finish: All frames are furnished with a baked "Dura-Bond" prime finish.

MANUFACTURING TOLERANCES

Door Opening width

Nominal opening + 1/16". -0"

Door opening height

Nominal opening ... ± 1/16°

Jamb depth ± 1/16'

Throat

(Between returns) ± 1/16"

Hardware cutouts

Template dimension + 1/64°, -0°

Hardware Prep location

Height ± 1/64"

Backset ± 1/64"

Depth + 1/32", - 0"

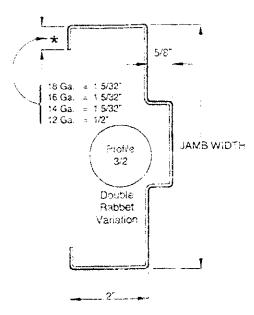
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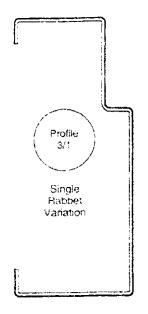
TECHNICAL DATA - FRAMES

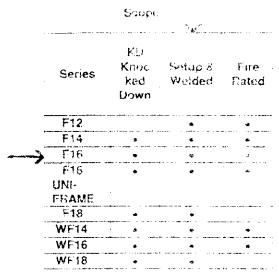
STANDARD PROFILES

ENGINEERING DETAILS for STEEL FRAMES — Type 3 (Standard Profile)



* 7/16 " at standard 5 3/4*Profile





SCOPE data above intended only as a guidelish as it applies to the product information covered on this page. We recommended you weekly all data as to application.

Dimensions shown are standard for this pickle. Vanations to suit designed conditions are available.



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		,

Newco Door & Hardware, LLC.,

6606 East 47th Avenue

Denver, Co. 80216

E-mail: rickbradley56@gmail.com P: 303.576.0558 F: 303.576.0565 Cell Phone: 303.903.3947

Project:

Harold D. Thompson Regional Water Reclamation Facility Lower Fountain Metropoloitan Sewage Disposal District Equipment, Maintenance and Storage Building

Architect:

GMS, Inc.
Consulting Engineers
611 N. Weber, Suite 300
Colorado Springs, Colorado 80903

Phone: Fax:

Contractor:

Weaver Construction, Management, Inc. 3679 South Huron Street, Suite 404 Englewood, Colorado 80110

Phone: 303.789.4111 Fax: 303.789.4310

Prepared By: Rick L. Bradley

Lptp

Date: January 12, 2012

Revision Date:

Job Number: NC1199

Manufacturers:

Cal Royal - Hinge Pin Stops, Latch guards Hager - Hinges, Kick plates, Passage, Privacy Ives - Stops Pioneer - Hollow Meal Doors & Frames Precision - Exit Devices Reese - Sweeps, Thresholds, Weather stripping Stanley - Closers

approved submittals.	
Project Manager:	
Office / Cell Phone Number:	Fax:
Email Address:	
Superintendent:	
Office / Cell Phone Number:	Fax:
Email Address:	
Dates Required:	
1) Hollow Metal Door Frames:	
2) Hollow Metal Borrowed Lite Frames: _	
3) Hollow Metal Doors:	
4) Timely Steel Frames:	
5) Aluminum Frames:	
6) Wood Doors:*Pre finished wood doors - Sample(s) to be	e provided by the General Contractor or his agent.
7) Finish Hardware:	
8) Miscellaneous:	
9) If we are to provide the keying for this p	project, please provide us with the following contact information
Name of the contact:	Phone #:
Fax #:	Email Address:
Please have this signed and returned with this project until the above information has	the submittals. We will not proceed with fabrication, or purchasing of s been provided.
Failure to provide this information could re	esult in additional lead times and costs.
Signed by:	Date:

In order to better service our customers we require the following information be provided and returned with the

Job Note(s):

1) To comply with ADA requirements vision lites cannot exceed 42" above the finish floor to the bottom of the vision lite. Please verify location of vision lites in all doors with lites.

Architect please advise.

- 2) Hardware set E. opening D-EM8, has an exit device specified with no outside trim. Is this correct/ *Architect please advise*.
- 3) Hardware set E.1. opening D-EM12, has an exit device specified with no outside trim. The door swings into the mechanical room, with no apparent means to egress from that room.
- 1) Please verify that the door is to swing into the room, or should it swing out?
- 2) Please verify that the exit is a correct application.
- 3) If it is a correct application, should there be an outside trim to get out of the mechanical room?

Architect please advise.

4) Hardware set F, openings E-M9 and E-M10, have passage sets specified. Please verify that this is correct. Should these be storeroom locksets?

Architect please advise.

- 5) Hardware set G, opening E-M11, has a passage set specified. I believe this should be a privacy set. *Architect please advise*.
- 6) Exterior elevations show all jambs are to have 4" heads. The legend on sheet EM-2 show exterior walls to have 6" studs and wall detail 3 on sheet EM-3 shows the frame butting up in the opening, and does not wrap the walls. What type of anchors do you require in order to install the frames?

Architect please advise.

7) Interior wall legend shows interior walls to be 4 3/4". Please verify that 5 3/4" frames are correct for the interior walls and verify what type of anchors are required to install these frames.

Architect / contractor please advise.

8) All doors with sweeps - sweeps show 3/8" vinyl and the thresholds specified are ½". We suggest using either a ¼" threshold, or changing the sweep to a surface applied, to allow enough clearance between the threshold and the sweep.

Architect please advise.

9) The Sparta lever specified is not available with the Kaba Ilco mechanical push button locksets. In order to keep the lever design consistent, may we change the lever design to the Rhodes lever design?

Architect please advise.

Abbreviations

Abbreviation(s) For Hollow Metal Doors and Frames:

86 - Mortise Lock Prep

161 - Cylindrical Lock Prep

453 - 3 Each 4.5" X 4.5" Hinges

CYL - Cylindrical

CYLS - Cylinders

H453 - 3 Each Heavy Weight 4.5" X 4.5" Hinges

FBW - Fully Back Welded

FWC - Full Width Cloer Reinforcement

FWH - Full Width Hinge Reinforcement

LH - Left Hand

LHR - Left Hand Reverse

MRTS - Mortise

PA - Parallel Arm Closer Reinforcement

REG - Regular Arm Closer Reinforcement

RH - Right Hand

RHR - Right Hand Reverse

RESR - Rim Exit Strike Reinforcement

SNB - Sex Nuts and Bolts

SSR - Special Strike Reinforcement

TB - Thru Bolt(s)

UC - Uner Cut

WGS - Welded Ground Smooth

Abbreviation(s) For Wood Doors:

86 - Mortise Lock Prep

161 - Cylindrical Lock Prep

B1E - Bevel 1 Edge (Leading Edge)

B2E - Bevel Both Edges

CYL - Cylindrical

CYLS - Cylinders

H453 - 3 Each Heavy Weight 4.5" X 4.5" Hinges

HC - Hollow Core

LH - Left Hand

LHR - Left Hand Reverse

MPLE - Maple

MRTS - Mortise

MVE - Matching Vertical Edge

PSRO - Plain Slice Red Oak

RH - Right Hand

RHR - Right Hand Reverse

RCB - Rotary Cut Birch

SC - Solid Core

SNB - Sex Nuts and Bolts

SWE - Soft Wood Edges

TB - Thru Bolts

UC - Under Cut

Hw Set A

Opng/Tag D-EM2		from Vehicle Bays	Handing Right Hand Reverse		
D-EM3	Exterior	from Vehicle Bays	Left Hand Reverse		
Pioneer Hmf		5 ¾" 4" hd. 14ga. gal. welded hol H453 hinges, asa strike, parallel a			
Pioneer Hmd	prep H45	2 - 3070 1 ¾" flush 16ga. gal. hollow metal doors - Type a prep H453 hinges, 161 cylindrical lockset, standard under cut, seamless edge vision lite cut out 6" x 27" located 15" down and 8" in			
Nation Guard VL Kits	2 - L-FR	A 100 6" X 27" for use with 1/4" g	lass provide by others		
Mfr	Qty	Subtype	Item Description		
Hager	6	Butts	BB1199 4.5 X 4.5 US32D nrp		
Simplex	1	Mech. Combo Lock	LL1021S 2 ¾ x ASA x US26D LH		
Simplex	1	Mech. Combo Lock	LR1021S 2 3/4 x ASA x US26D RH		
Schlage	2	I/C Cores	23-030 626		
Stanley	2	Closer	D4551 SRI Hold Open x snb 689		
Ives	2	Floor Stop	FS448 626		
Hager	2	Kick plate	.050 10" x 34" 630		
Reese	2	Threshold	S426A 36"		
Reese	2	Weather stripping	678A 1/36" x 2/84		
Reese	2	Sweep	DB594AF 36"		
Cal Royal	2	Latch guards	GJLPG2 US26D .		
Hw Set B					
Opng/Tag	Location		Handing		
D-EM13	Exterior from Electrical Room Left Hand Reverse				
Pioneer Hmf	1 - 3070 5 ¾" 4" hd. 14ga. gal. welded hollow metal frames - Type a prep for H453 hinges, rim exit strike reinforcement, parallel arm closer reinforcement				
Pioneer Hmd	1 - 3070 1 3/4" flush 16ga. gal. hollow metal doors - Type a Prep H453 hinges, 161 cylindrical lockset, standard under cut, seamless edge vision lite cut out 6" x 27" located 15" down and 8" in				
Nation Guard VL Kits	1 - L-FRA 100 6" X 27" for use with ¼" glass provide by others				
Mfr	Qty	Subtype	Item Description		
Hager	3	Butts	BB1199 4.5 X 4.5 US32D nrp		
Stanley	1	Rim Exit	2103 x snb US32D LHR		
Simplex	1	Mech. Combo Lock	LP1021S 2 3/4 x ASA x US26D LHR		
Schlage	1	I/C Cores	23-030 626		
Stanley	1	Closer	D4551 SRI Hold Open x snb 689		
Ives	1	Floor Stop	FS448 626		
Hager	1	Kick plate	.050 10" x 34" 630		
Reese	1	Threshold	S426A 36"		
Reese	1	Weather stripping	678A 1/36" x 2/84		
Reese	1	Sweep	DB594AF 36"		
Cal Royal	1	Latch guards	GJLPG2 US26D .		

Hw Set D

Opng/Tag Location Handing

D-EM1 Exterior from Electrical Room Right Hand Reverse Active

Pioneer Hmf 1 - 5080 5 3/4" 4" hd. 14ga. gal. welded hollow metal frames - Type a

prep for H454 hinge legs, flush bolt strike, parallel arm closer reinforcement RHR LF only

Pioneer Hmd 1 - 2680 1 3/4" flush 16ga. gal. hollow metal doors - Type a - RHRA

prep 454 hinges, 161 cylindrical lockset w/blank latch bolt edge, standard under cut

vision lite cut out 6" x 27" located 27" down and 8" in

Seamless welded edges, astragal mounted to outside edge of active leaf

Nation Guard VL Kits 1 - L-FRA 100 6" X 27" for use with 1/4" glass provide by others

Pioneer Hmd 1 - 2680 1 3/4" flush 16ga. gal. hollow metal doors - Type a - LHR Inactive

prep H454 hinges, manual flush bolts, surface mounted rim exit strike, standard under cut

Seamless welded edges

Mfr Qty Subtype Item Description 8 **Butts** BB1199 4.5 X 4.5 US32D nrp Hager Hager 2 Manual Flush bolts 282D 12" 626 Hager 1 **Dust Proof Strike** 280X 626 2103 x snb US32D RHR 30" Stanley 1 Rim Exit LP1021S 2 3/4 x ASA x US26D RHR Simplex 1 Mech. Combo Lock Schlage I/C Cores 23-030 626 1 Stanley 1 Closer D4551 SRI hold open x snb 689 2 Floor Stop FS446 626 LHR Lf Ives 2 Kick plate .050 10" x 28" 630 Hager Reese 1 Threshold S426A 60" Reese 1 Weather stripping 678A 1/60" x 2/96 Reese 1 Sweep DB594AF 30" Astragal 357SP 96" x 797B 96"

Reese

Hw Set E

Opng/Tag Location Handing

D-EM8 Vehicle Bays from Electrical Room Left Hand Reverse

Pioneer Hmf 1 - 3070 5 3/4" 14ga. gal. welded hollow metal frames - 1 hour - Type f

prep for H453 hinges, ASA strike, parallel arm closer reinforcement

Pioneer Hmd 1 - 3070 1 34" flush 16ga. gal. hollow metal doors - 1 hour - Type f

> prep H453 hinges, 161 cylindrical lockset, standard under cut vision lite cut out 12" x 12" located 30" down and centered

Seamless welded edges

Nation Guard VL Kits 1 - L-FRA 100 12" X 12" for use with 1/4" glass provide by others

Sweep

Mfr Qty Subtype Item Description BB1199 4.5 X 4.5 US32D **Butts** Hager 3 Stanley 1 Rim Exit F2103 x snb US32D LHR Stanley 1 D4551 SRI pa x snb 689 Closer Cal Royal Hinge Pin Stop IVHP23 626 1 Kick plate .050 10" x 34" 630 Hager 1 Reese 1 Threshold S426A 36" Reese 1 Weather stripping 678A 1/36" x 2/84

DB594AF 36"

Hw Set E.1

Reese

Opng/Tag Location Handing

D-EM12 Vehicle Bays to Mechanical Room Left Hand (RHR)

Pioneer Hmf 1 - 3670 5 3/4" 14ga. gal. welded hollow metal frames - 1 hour - Type f

prep for H453 hinges, ASA strike, parallel arm closer reinforcement

Pioneer Hmd 1 - 3670 1 3/4" flush 16ga. gal. hollow metal doors - 1 hour - Type f

> prep H453 hinges, 161 cylindrical lockset, standard under cut vision lite cut out 12" x 12" located 30" down and centered

Seamless welded edges

1 - L-FRA 100 12" X 12" for use with 1/4" glass provide by others Nation Guard VL Kits

Sweep

Subtype Mfr Item Description Qty BB1199 4.5 X 4.5 US32D Hager 3 Butts Stanley 1 Rim Exit F2103 x snb US32D RHR 42" D4551 SRI reg x snb 689 Stanley 1 Closer Cal Royal 1 Hinge Pin Stop IVHP23 626 Hager Kick plate .050 10" x 40" 630 1 Reese 1 Threshold S426A 42" Reese 1 Weather stripping 678A 1/42" x 2/84 DB594AF 42"

Reese

Hw Set F

Opng/TagLocationHandingD-EM9Vehicle Bays to StorageLeft HandD-EM10Vehicle Bays to Heated Storage RoomRight Hand

Pioneer Hmf 2 - 3070 5 3/4" 14ga. gal. welded hollow metal frames - Type e

prep for H453 hinges, ASA strike, regular arm closer reinforcement

Pioneer Hmd 2 - 3070 1 3/4" flush 16ga. gal. hollow metal doors - Type e

prep H453 hinges, 161 cylindrical lockset, standard under cut vision lite cut out 12" x 12" located 30" down and centered

Seamless welded edges

Nation Guard VL Kits 2 - L-FRA 100 12" X 12" for use with ¼" glass provide by others

Mfr	Qty	Subtype	Item Description
Hager	6	Butts	BB1199 4.5 X 4.5 US32D
Hager	2	Passage Set	3410 Archer 2 3/4 asa us26d
Stanley	2	Closer	D4551 SRI Reg x snb 689
Cal Royal	2	Hinge Pin Stop	IVHP23 626
Hager	2	Kick plate	.050 10" x 34" 630
Reese	2	Weather stripping	678A 1/36" x 2/84
Reese	2	Sweep	DB594AF 36"

Hw Set G

Opng/Tag Location Handing

D-EM11 Vehicle Bays fr Toilet Room Right Hand Reverse

Pioneer Hmf 1 - 3070 5 3/4" 14ga. gal. welded hollow metal frames - Type c

prep for H453 hinges, ASA strike, parallel arm closer reinforcement

Pioneer Hmd 1 - 3070 1 3/4" flush 16ga. gal. hollow metal doors - Type c

prep H453 hinges, 161 cylindrical lockset, standard under cut

Seamless welded edges

Mfr	Qty	Subtype	Item Description	
Hager	3	Butts	BB1199 4.5 X 4.5 US32D	
Hager	1	Passage Set	3440 Archer 2 3/4 asa US26D	
Stanley	1	Closer	D4551 SRI x snb 689	
Cal Royal	1	Hinge Pin Stop	IVHP23 626	
Hager	1	Kick plate	.050 10" x 34" 630	
Reese	1	Weather stripping	678A 1/36" x 2/84	
Reese	1	Sweep	DB594AF 36"	