



## MEMORANDUM

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PROJECT NO: 08029

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DATE: September 26, 2009

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RE: St. Elizabeth's Interior Renovations  
SUBMITTAL REVIEW  
Submittal No 08100-0001

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COPY: Francis Grooms  
Christine Mour  
Jeff Parish

---

TO: Carol Norris  
CAM Construction Company, Inc.  
108 West Timonium Road, Suite 200  
Timonium, Maryland 21093

---

FROM: Curt Wilson

---

We are returning herewith referenced submittal, with comments noted therein.

08029\mem-submittal-08100-0001.doc

BALTIMORE  
DALLAS

**CSD Architects**  
300 West Pratt Street  
Suite 550  
Baltimore, Maryland 21201  
p\_ 410.539.2080  
f\_410.752.5263

[www.csdarch.com](http://www.csdarch.com)



**Submittal Transmittal**

Detailed, Grouped by Each Number

**St. Elizabeth's Interior Renovation**  
 3320 Benson Avenue  
 Baltimore, MD 21227

**Project # CCC-02-0509**  
 Tel: Fax:

**Cam Construction Company, Inc.**

**Date: 9/22/2009**

**Reference Number: 0010**

**Transmitted To:** Curtis Wilson  
 Cochran, Stephenson & Donkervoet,  
 Inc.  
 323 W. Camden Street  
 Suite 700  
 Baltimore, MD 21201  
 Tel: 410-539-2080  
 Fax: 410-752-5263

**Transmitted By:** Carolyn Norris  
 Cam Construction Company, Inc.  
 108 West Timonium Road  
 Suite 201  
 Timonium, Maryland 21093-3116  
 Tel: 410-560-2828  
 Fax: 410-560-1572

Qty	Submittal Package No	Description	Due Date	Package Action
1	08100-0001 - - 0	Doors, Frame, Hardware Schedules	10/6/2009	For Approval

Transmitted For	Delivered Via	Tracking Number
Approval	E-Mail	08100-0001

Items	Qty	Description	Notes	Item Action
001	1	Door and Frame Schedule		For Approval
002	1	Hardware Schedule and Catalog Cuts		For Approval

Cc:	Company Name	Contact Name	Copies	Notes
	Lopez & Parish Interiors	Maria Lopez	transmittal only	
	Catholic Charities	Mark Schultz	transmittal only	
	St. Elizabeth Rehabilitation & Nursing Center	Christine Mour	transmittal only	

**Remarks**

\_\_\_\_\_  
 Signature

9/22/09  
 \_\_\_\_\_  
 Signed Date

# SCHEDULE OF HARDWARE

FOR

ST. ELIZABETH REHAB. & NURSING CTR

INTERIOR RENOVATIONS  
3320 BENSON AVE  
BALTIMORE, MD 21227

## CONSTRUCTION HARDWARE

960 BROOK ROAD • UNIT 7  
CONSHOHOCKEN, PA 19428  
P: 610-832-1500 • F: 610-832-1450  
WWW.CONSTRUCTIONHARDWARE.COM

This drawing has been checked by the Contractor. This review is general and neither it nor approval by the Architect or his Engineers shall in any way relieve the Subcontractor from obligation under his contract, nor shall it relieve him of the responsibility for any error which may exist. Each Subcontractor shall be responsible for his own dimensions, quantities and Specification requirement. 08100-001

CAM CONSTRUCTION COMPANY

9/22/09 By C Noms

PREPARED BY: JOHN BACHAND, JR.

ARCHITECT:

**CSD ARCHITECTS**  
323 WEST CAMDEN STREET  
SUITE 700  
BALTIMORE, MD 21201  
P: 410-539-2080 • F: 410-752-5263

CONTRACTOR:

**CAM CONSTRUCTION**  
108 WEST TIMONIUM ROAD  
SUITE 201  
TIMONIUM, MD 21093-3116  
P: 410-560-2828 • F: 410-560-1572

DATE:

9/21/2009

OUR CONTRACT #

C-0009

Project	08029	File	08100	Submission	0001
<input type="checkbox"/>	APPROVED	<input checked="" type="checkbox"/>	APPROVED AS NOTED		
<input type="checkbox"/>	NOT APPROVED	<input type="checkbox"/>	REVISE & RESUBMIT		
REVIEWED FOR CONFORMANCE WITH INFORMATION GIVEN AND DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. SUBMITTAL IS NOT REVIEWED FOR ACCURACY AND COMPLETENESS OF OTHER DETAILS, DIMENSIONS, QUANTITIES, INSTALLATION INSTRUCTIONS AND PERFORMANCE OF EQUIPMENT OR SYSTEMS. REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. APPROVAL OF A SPECIFIC ITEM DOES NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.					
Name		C Wilson		Date 9/26/09	
COCHRAN, STEPHENSON & DONKERVOET, Incorporated Architects 300 West Pratt Street Baltimore, MD 21201 410-539-2080					

### SUBMISSION RECORD:

REV-ID	DATE	TITLE
--	9/21/2009	ORIGINAL SUBMISSION



**MANUFACTURERS LIST:**

MFR ID	MANUFACTURER
CH	CHI
HA	HAGER
LC	LCN
RF	RIXSON-FIREMARK
SC	SCHLAGE

PRODUCT SUPPLIED  
SILENCERS  
HINGES, KICK DWN HOLDER, ROLLER LATCH,  
STOP & HOLDER, SWEEP, THRESHOLD,  
WALL STOP, WEATHERSTRIP  
CLOSER  
MAG. HOLDER  
CLASSROOM, DUMMY TRIM, PASSAGE,  
PRIVACY, STOREROOM

**TEMPLATE LIST:**

ANY TEMPLATES NOT LISTED BELOW SHALL BE PROVIDED UPON REQUEST ONLY.

**KEYING NOTES:**

FOUR (4) LOCKS ARE CURRENTLY INCLUDED IN THIS PROJECT. PLEASE CONFIRM IF 6-PIN, 'C' KEYWAY, 0-BITTING IS ACCEPTABLE WITH FINAL KEYING BY THE OWNER.

**St. E's confirm lock and keying requirements.**

**SCHEDULE NOTES:**

- ANY TOOLS, WRENCHES, INSTRUCTIONS, MAINTENANCE SHEETS OR OTHER INFORMATION PACKED WITH LOCKSETS, DOOR CLOSERS, PANIC BOLTS, OR OTHER ITEMS OF HARDWARE ARE TO BE TURNED OVER TO THE OWNER.
- WHEN DOORS ARE EQUIPPED WITH DOOR CLOSERS AND SEPARATE OVERHEAD HOLDERS OR STOPS, ALWAYS INSTALL THE OVERHEAD HOLDERS OR STOPS FIRST TO THE SPECIFIED DEGREE; THEN, INSTALL THE DOOR CLOSER.
- WHEN DOORS ARE EQUIPPED WITH STOP MOUNTED COORDINATORS, REFER TO COORDINATOR TEMPLATE DRAWING AND INSTALLATION INSTRUCTIONS FOR DOOR CLOSER AND EXIT DEVICE MOUNTING REQUIREMENTS.
- KICK PLATE INSTALLATION INSTRUCTIONS FOR METAL DOORS:  
NOTE: DO NOT OVERTIGHTEN SCREWS AS THIS MAY CAUSE BREAKAGE.  
(SEE CHART FOR DRILL BIT SIZE TO MAKE CORRECT MOUNTING HOLE IN DOORS.)

DOOR GAUGE	DRILL BIT SIZE
14GA	# 31
16GA	# 32
18GA	# 34
20GA	# 36

**GENERAL PROJECT NOTES:**

**HARDWARE LOCATIONS:**

- CURRIES
- EXIT DEVICES PER MANUFACTURER TEMPLATE
- SEE HARDWARE SCHEDULE FOR SPECIAL LOCATIONS

# DOOR INDEX

Project ID: C-0009

ST. ELIZABETH REHAB. & NURSING CTR

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<u>Door Number</u>	<u>Arch Mark</u>	<u>Item Number</u>	<u>Heading #</u>	<u>Keying</u>	<u>Hand</u>
101	101	7	06		RHR
102	102	9	07		LHR
103	103	10	07		RHR
104	104	8	06		LHR
161B	161B	3	02		RHR/LHR
162A	162A	2	01		RHR
216	216	4	03		LH
252A	252A	6	05		RHR
252B	252B	1	01		RHR
316	316	5	04		LH

# Hardware Schedule

Project ID: C-0009

ST. ELIZABETH REHAB. & NURSING CTR

## Heading #: 01

## BASE - SET 1

			1 SGL Door: 252B	CORR. FROM CLOSET	RHR	NONE	90 °
			2'6" x 6'8" x 1 3/4" WD/HMF				
			1 SGL Door: 162A	ACTIVITY RM FROM CLOSET	RHR	NONE	90 °
			3'0" x 6'8" x 1 3/4" WD/HMF				
6	EA	HINGES	BB1279 4 1/2" X 4 1/2"		US10	(HI-1) HAGER	
2	EA	PASSAGE	ND10S X RHO X K510-066		612	(LO-1) SCHLAGE	
2	EA	WALL STOP	236W		US10	(ST-1) HAGER	
6	EA	SILENCERS	3446		GREY	(SI-1) CHI	

## Heading #: 02

## BASE - SET 2

			1 PR Door: 161B	CORR. FROM CLOSET	RHR/LHR	NONE	90 °
			2-2'6" x 6'8" x 1 3/4" WD/HMF				
6	EA	HINGES	BB1279 4 1/2" X 4 1/2"		US10	(HI-1) HAGER	
2	EA	DUMMY TRIM	ND170 X RHO (40" CL AFF) MOUNT CL AT 40" AFF		612	(LO-2) SCHLAGE	
2	EA	SILENCERS	3446		GREY	(SI-1) CHI	
2	EA	ROLLER LATCH	318D		US10	(OT-1) HAGER	
			MOUNT STK-4" CL FROM FRAME CTR				

## Heading #: 03

## BASE - SET 3

			1 SGL Door: 216	PANTRY TO SCULLERY	LH	NONE	90 °
			3'0" x 6'8" x 1 3/4" HMD/HMF				
3	EA	HINGES	BB1279 4 1/2" X 4 1/2"		US10	(HI-1) HAGER	
1	EA	CLASSROOM	ND70PD X RHO X K510-066 X 50-210/50-211		612	(LO-3) SCHLAGE	
1	EA	CLOSER	4041REG (PULL SIDE MTG)		691	(CL-1) LCN	
1	EA	MAG. HOLDER	998 WALL MOUNTED X TRI-VOLT		691	(ST-3) RIXSON-FIREMARK	
3	EA	SILENCERS	3446		GREY	(SI-1) CHI	
			NOTE: CONFIRM MAGNET IS ACCEPTABLE AS WALL MOUNTED IN OUTLET BOX. <span style="color: red;">OK</span>				

## Heading #: 04

## BASE - SET 4

			1 SGL Door: 316	PANTRY TO SCULLERY	LH	NONE	90 °
			3'0" x 6'8" x 1 3/4" HMD/HMF				
3	EA	HINGES	BB1279 4 1/2" X 4 1/2"		US10	(HI-1) HAGER	
1	EA	CLASSROOM	ND70PD X RHO X K510-066 X 50-210/50-211		612	(LO-3) SCHLAGE	
1	EA	STOP & HOLDER	327W X		US10	(ST-2) HAGER	
3	EA	SILENCERS	3446		GREY	(SI-1) CHI	

## Heading #: 05

## BASE - SET 5

			1 SGL Door: 252A	CORR. FROM BATHING SUITE	RHR	NONE	90 °
			3'8" x 6'8" x 1 3/4" WD/HMF				
3	EA	HINGES	BB1279 4 1/2" X 4 1/2"		US10	(HI-1) HAGER	
1	EA	PASSAGE	ND10S X RHO X K510-066		612	(LO-1) SCHLAGE	
1	EA	CLOSER	4041Rw/PA (PUSH SIDE MTG)		691	(CL-2) LCN	
3	EA	SILENCERS	3446		GREY	(SI-1) CHI	

# Hardware Schedule

Project ID: C-0009

ST. ELIZABETH REHAB. & NURSING CTR

**Heading #: 06**

**PAVILION - SET 1**

	1	SGL	Door: 101	EXTERIOR FROM TOILET 101	RHR	NONE	90 °
	1	SGL	Door: 104	EXTERIOR FROM TOILET 102	LHR	NONE	90 °

3'0" x 7'0" x 1 3/4" HMD/HMF

6	EA	HINGES	BB1279 4 1/2" X 4 1/2"	US10	(HI-1) HAGER
2	EA	PRIVACY	ND40S X RHO X K510-066 (DULL CHROME INT LEV)	626/612	(LO-4) SCHLAGE
2	EA	CLOSER	4041Rw/PA (PUSH SIDE MTG)	689	(CL-3) LCN
2	FT	THRESHOLD	428S X 1/4" X 8" X 36"	MIL	(TH-1) HAGER
2	EA	WEATHERSTRIP	726S X 17FT	CHARCOA	(GA-1) HAGER
2	EA	SWEEP	752S X 36"	DBA	(SW-1) HAGER

NOTE:  
CONFIRM HARDWARE FINISHES. SATIN CHROME

**Heading #: 07**

**PAVILION - SET 2**

	1	SGL	Door: 102	EXTERIOR FROM JANITOR 104	LHR	NONE	90 °
	1	SGL	Door: 103	EXTERIOR FROM STORAGE 103	RHR	NONE	90 °

3'0" x 7'0" x 1 3/4" HMD/HMF

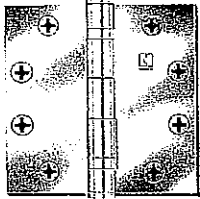
6	EA	HINGES	BB1279 4 1/2" X 4 1/2"	US10	(HI-1) HAGER
2	EA	STOREROOM	ND80PD X RHO X K510-066 X 50-210/50-211	612	(LO-5) SCHLAGE
2	EA	CLOSER	4041Rw/PA (PUSH SIDE MTG)	691	(CL-2) LCN
2	EA	KICK DWN HOLDER	271D	US10	(ST-4) HAGER
2	FT	THRESHOLD	428S X 1/4" X 8" X 36"	MIL	(TH-1) HAGER
2	EA	WEATHERSTRIP	726S X 17FT	CHARCOA	(GA-1) HAGER
2	EA	SWEEP	752S X 36"	DBA	(SW-1) HAGER

NOTE:  
CONFIRM HARDWARE FINISHES. SATIN CHROME

# Architectural Hinges

## Full Mortise

### Five Knuckle



#### Ball Bearing - Standard Weight

For use on medium weight doors or doors requiring medium frequency service

**BB1191** Brass with Stainless Steel pin  
- ANSI A2112  
Stainless Steel with Stainless Steel pin  
- ANSI A5112\*

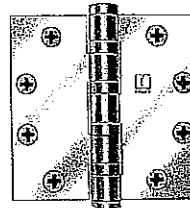
**BB1279** Steel with Steel pin  
- ANSI A8112

- Two ball bearings
- Non-rising removable pin with button tip and plug



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3 1/2 x 3 1/2	89 x 89	0.119	6	1/2 x 10-24	1 x 9
4 x 4	102 x 102	0.129	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 4 1/2	114 x 114	0.134	8	1/2 x 12-24	1 1/4 x 12
5 x 4	127 x 102	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 4 1/2	127 x 114	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 5	127 x 127	0.145	8	1/2 x 12-24	1 1/4 x 12
6 x 4 1/2	152 x 114	0.160	10	1/2 x 1/4-20	1 1/2 x 14
6 x 5	152 x 127	0.160	10	1/2 x 1/4-20	1 1/2 x 14
6 x 6	152 x 152	0.160	10	1/2 x 1/4-20	1 1/2 x 14

### Five Knuckle



#### Ball Bearing - Heavy Weight

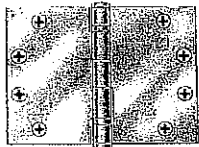
For use on heavy weight doors or doors requiring high frequency service

**BB1168** Steel with Steel pin  
- ANSI A8111

**BB1199** Brass with Stainless Steel pin  
- ANSI A2111  
Stainless Steel with Stainless Steel pin  
- ANSI A5111

- Four ball bearings
- Non-rising removable pin with button tip and plug

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			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 114	0.203	10	1/2 x 1/4-20	1 1/2 x 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



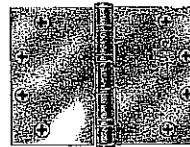
#### Ball Bearing - Standard Weight - Wide Throw

For use on medium weight doors or doors requiring medium frequency service

**BB1191** Wide Throw  
Brass with Stainless Steel pin  
- ANSI A2112  
Stainless Steel with Stainless Steel pin  
- ANSI A5112

**BB1279** Wide Throw  
Steel with Steel pin  
- ANSI A8112

- Two ball bearings
- Non-rising removable pin with button tip and plug



#### Ball Bearing - Heavy Weight - Wide Throw

For use on heavy weight doors or doors requiring high frequency service

**BB1168** Wide Throw  
Steel with Steel pin  
- ANSI A8111

**BB1199** Wide Throw  
Brass with Stainless Steel pin  
- ANSI A2111  
Stainless Steel with Stainless Steel pin  
- ANSI A5111

- Four ball bearings
- Non-rising removable pin with button tip and plug

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3 1/2 x 5	89 x 127	0.119	6	1/2 x 10-24	1 x 9
3 1/2 x 6	89 x 152	0.119	6	1/2 x 10-24	1 x 9
4 x 5	102 x 127	0.129	8	1/2 x 12-24	1 1/4 x 12
4 x 6	102 x 152	0.129	8	1/2 x 12-24	1 1/4 x 12
4 x 7	102 x 178	0.129	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 5	114 x 127	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 6	114 x 152	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 7	114 x 178	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 8	114 x 203	0.134	8	1/2 x 12-24	1 1/4 x 12
5 x 6	127 x 152	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 7	127 x 178	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 8	127 x 203	0.145	8	1/2 x 12-24	1 1/4 x 12

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			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

# ND SERIES LEVERS



## Extra Heavy Duty Commercial

ND-Series locks are for commercial, institutional and industrial use, such as schools, hospitals and factories, where a long life of dependable operation must be combined with a high degree of resistance to physical abuse.

Popular functions of all lever designs are also available in Vandgard®, where levers are free-wheeling in the locked position to resist more forceful attacks.

### Performance Features

Tested to exceed 3,000,000 cycles, greatly exceeding the 800,000 cycle ANSI Grade 1 requirement.

Exceeds ANSI A156.2 Series 4000 Grade 1 locked lever torque requirements.

Vandgard® functions have free-wheeling levers to resist force when locked.

Independent heavy duty spring cages for effective lever support.

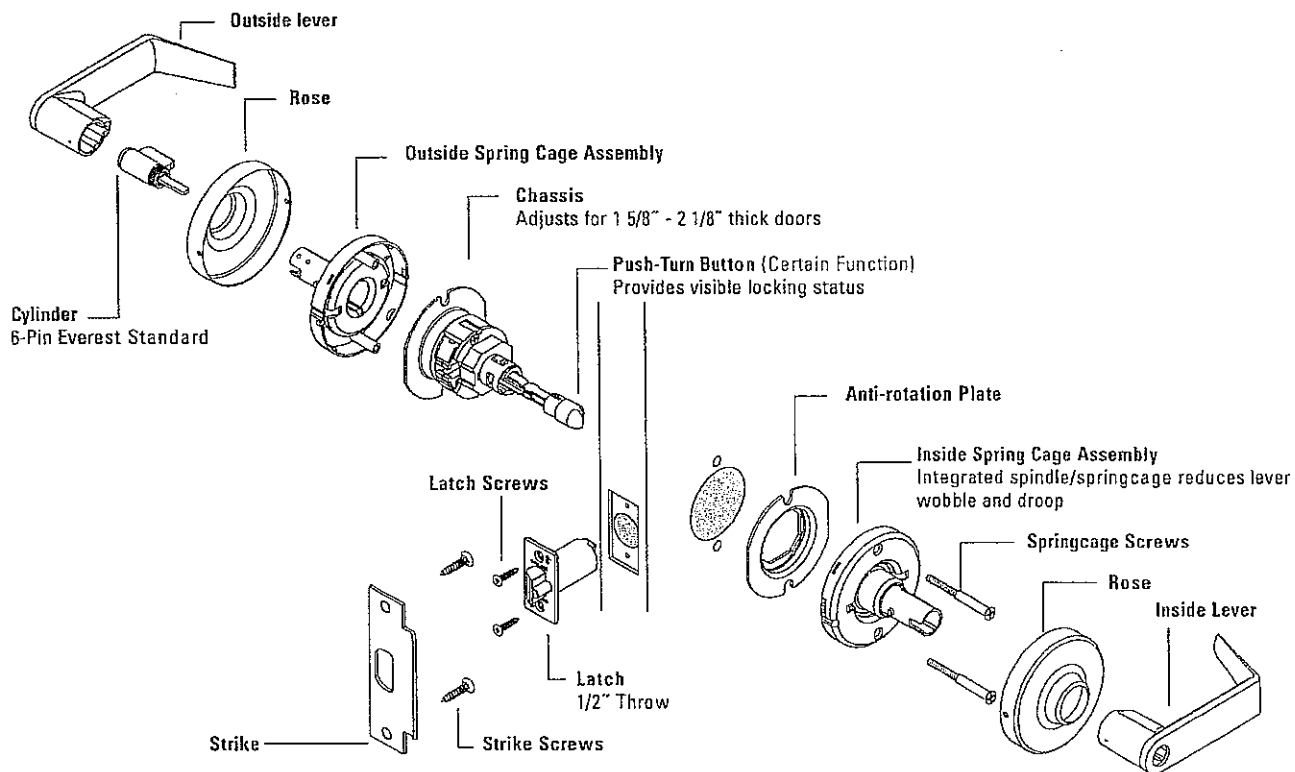
Thru-bolted mechanism for positive interlock to door.

Concealed mounting screws.

Steel Latchbolt.

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### Exploded View





## Specifications

### Handing:

All ND-Series lever locksets are non-handed.

### Door Thickness:

1 $\frac{3}{8}$ " to 2 $\frac{1}{8}$ " (41mm-54mm) standard including Vandlgard® functions. 1 $\frac{3}{4}$ " - 2" for function D85. See accessories (Page 11) for spacers required for 1 $\frac{3}{8}$ " doors.

### Backset:

2 $\frac{3}{4}$ " (70mm) standard. 2 $\frac{3}{8}$ ", 3 $\frac{3}{4}$ " and 5" (60mm, 95mm, 127mm) optional.

### Faceplate:

Brass, bronze or stainless steel. 1 $\frac{1}{8}$ " x 2 $\frac{1}{4}$ " (29mm x 57mm) square corner, beveled.

### Lock Chassis:

Zinc plated for corrosion resistance.

### Latch Bolt:

Steel,  $\frac{1}{2}$ " (12mm) throw, deadlocking on keyed and exterior functions.  $\frac{3}{4}$ " (19mm) throw anti-friction latch available for pairs of fire doors.

### Exposed Trim:

Levers: Pressure cast zinc, plated to match finish symbols. Roses: Solid brass.

### Strike:

ANSI curved lip strike 1 $\frac{1}{4}$ " x 4 $\frac{7}{8}$ " x 1 $\frac{3}{16}$ " lip to center standard. Optional strikes, lip lengths and ANSI strike box available. See page 12.

### Cylinder & Keys:

6-pin Everest C123 keyway standard with two patented nickel silver keys per lock.

### Keying Options:

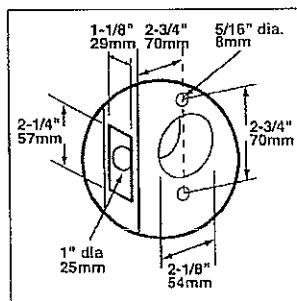
Interchangeable core and Primus® high security cylinders. Master keying, grand master keying and construction keying.

### Warranty:

Seven-year limited for all functions including Vandlgard®.

## Door Preparation

### Lever Designs



## Certifications

### ANSI

Meets or exceeds A156.2 Series 4000, Grade 1 strength and operational requirements. Meets A117.1 Accessibility Code.

### Federal

Meets FF-H-106C Series 161.

### California State Reference Code (CSFH)

(Formerly Title 19, California State Fire Marshal Standard)

All levers with less than  $\frac{1}{2}$ " (64mm) returns comply; levers return to within  $\frac{1}{2}$ " of door face.

### MEA Certification

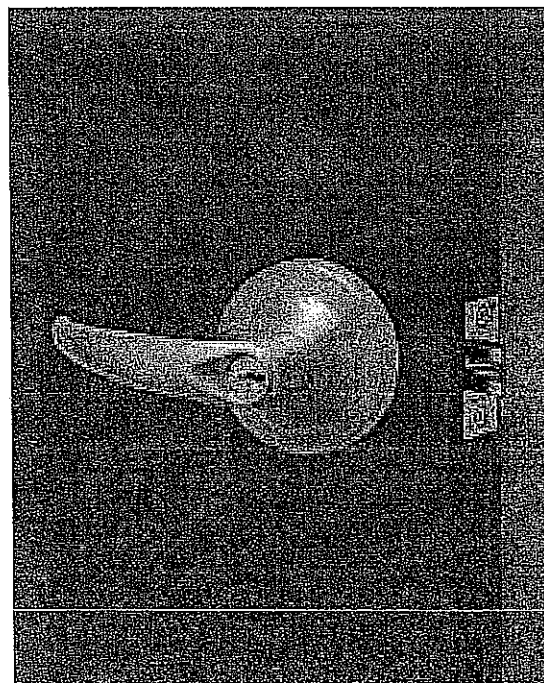
All electrified locking (fail-safe, unlocked by switch or power failures) functions accepted for use in New York City by the City of New York, Department of Buildings (MEA 24-04-E).

All levers with less than  $\frac{1}{2}$ " (64mm) returns comply with California Fire Safety Codes.

3/4" and 1/2" throw latch approved for Hurricane Resistance with Miami-Dade County, Florida and the Florida Building Commission.

### UL / cUL:

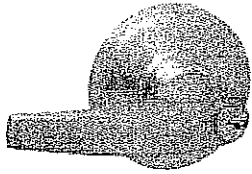
All locks listed for A label single doors, 4' x 8'. Letter F and UL symbol



# ND SERIES LEVERS

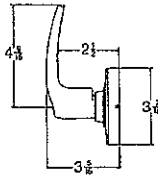
## Lever Designs & Finishes

## Lever Designs & Finishes

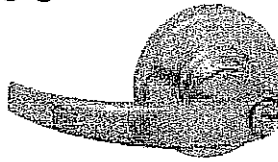


### ATHENS

Symbol: ATH (L-Series 07)  
Material: Pressure cast zinc lever; wrought brass rose  
Finishes:  
605, 606, 612,  
613, 619, 625,  
626

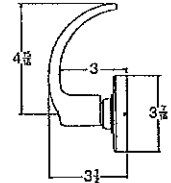


606

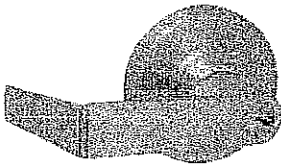


### SPARTA

Symbol: SPA (L-Series 17)  
Material: Pressure cast zinc lever; wrought brass rose  
Finishes:  
605, 606, 612,  
613, 619, 625,  
626

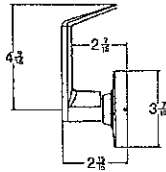


626

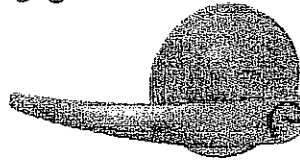


### RHODES

Symbol: RHO (L-Series 06)  
Material: Pressure cast zinc lever; wrought brass rose  
Finishes:  
605, 606, 612,  
613, 619, 625,  
626

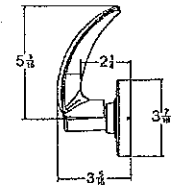


612

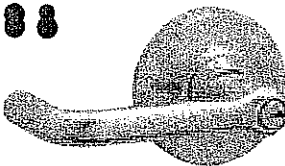


### OMEGA

Symbol: OME (L-Series Omega)  
Material: Pressure cast zinc lever; wrought brass rose  
Finishes:  
605, 606, 612,  
613, 619, 625,  
626

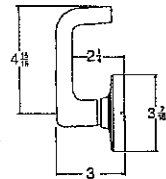


619

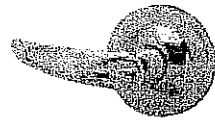


### TUBULAR (L-Series 03)

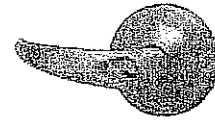
Symbol: TLR  
Material: Pressure cast zinc lever; wrought brass rose  
Finishes:  
605, 606, 612,  
613, 619, 625,  
626



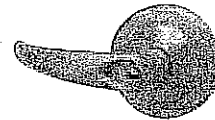
626



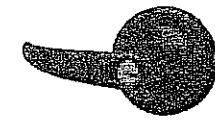
605  
Bright Brass



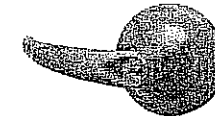
606  
Satin Brass



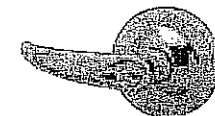
612  
Satin Bronze



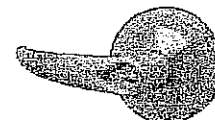
613  
Oil Rubbed  
Bronze



619  
Satin Nickel



625  
Bright Chromium  
Plated



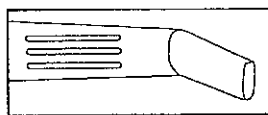
626  
Satin Chromium  
Plated



Keyed functions available with Full Size Interchangeable Core options.



Keyed functions available with Small Format Interchangeable Core options.



### TACTILE WARNING (KNURLING)

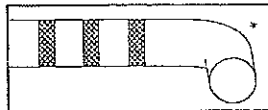
Change symbol designation as follows:

8AT for Athens

8RO for Rhodes

8SP for Sparta

8TR for Tubular\*



\*Only available with Tubular lever.

Only outside lever is knurled unless otherwise specified.

Not available with Omega trim

Extended Factory Lead Time

### Finishes

605 Bright Brass

606 Satin Brass

612 Satin Bronze

613 Oil Rubbed Bronze

619 Satin Nickel

625 Bright Chromium Plated

626 Satin Chromium Plated

# ND SERIES LEVERS


## Functions

### ANSI A156.2 Series 4000 Grade 1


#### Non-Keyed Locks

SCHLAGE ANSI

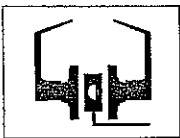
**ND10S F75** **Passage Latch**  
Both levers always unlocked.



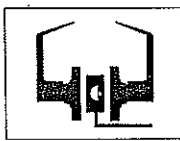
**ND12D F89** **Exit Lock**  
Outside lever always fixed. Inside lever always unlocked.



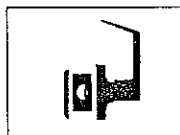
**ND12DEL** **Electrically Locked (Fail Safe)**  
Outside lever continuously locked electrically. Unlocked by switch or power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.



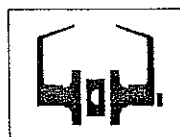
**ND12DEU** **Electrically Unlocked (Fail Secure)**  
Outside lever continuously locked until unlocked by electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.



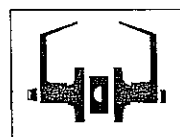
**ND25D** **Exit Lock**  
Blank plate outside. Inside lever always unlocked.



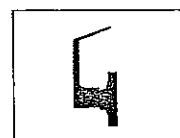
**ND40S F76** **Bath/Bedroom Privacy Lock**  
Push-button locking. Can be opened from outside with small screwdriver. Turning inside lever or closing door releases button.



**ND44S** **Hospital Privacy Lock**  
Push-button locking. Unlocked from outside by turning emergency turn-button. Turning inside lever or closing door releases button.



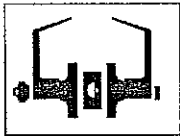
**ND170** **Single Dummy Trim**  
Dummy trim for one side of door. Used for door pull or as matching inactive trim.



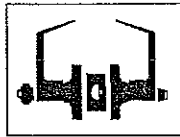
#### Keyed Locks

SCHLAGE ANSI

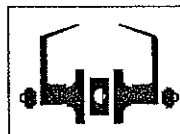
**ND50PD F82** **Entrance/Office Lock †**  
Push-button locking. Push-button locks outside lever until unlocked with key or by turning inside lever.



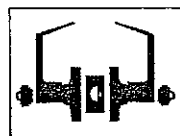
**ND53PD F109** **Entrance Lock †**  
Turn/push-button locking; pushing and turning button locks outside lever, requiring use of key until button is manually unlocked. Push-button locking; pushing button locks outside lever until unlocked by key or by turning inside lever.




**ND60PD F88** **Vestibule Lock †**  
Latch retracted by key from outside when outside lever is locked by key in inside lever. Inside lever is always unlocked.




**ND66PD F91** **Store Lock † \***  
Key in either lever locks or unlocks both levers.



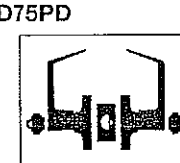
**ND70PD F84** **Classroom Lock †**  
Outside lever locked and unlocked by key. Inside lever always unlocked.



**ND73PD F90** **Corridor Lock †**  
Locked or unlocked by key from outside. Push-button locking from inside. Turning inside lever or closing door releases button. When outside lever is locked by key it can only be unlocked by key. Inside lever is always unlocked.




**ND75PD** **Classroom Security Lock †**  
Key in either lever locks or unlocks outside lever. Inside lever is always unlocked.



† Keyed functions available with 6-pin (PD/LD), SFIC(GD/BD), or FSIC(RD/ID) cylinder.

\* Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

 Safe School Locks

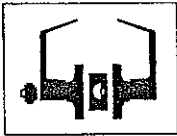
*Functions*

**ANSI A156.2 Series 4000 Grade 1**

**Keyed Locks**

SCHLAGE ANSI

ND80PD F86



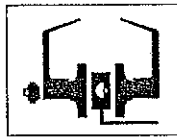
**Storeroom Lock †**  
Outside lever fixed. Entrance by key only. Inside lever always unlocked.

ND80PDEL



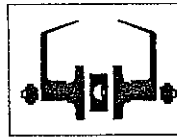
**Electrically Locked (Fail Safe) †**  
Outside lever continuously locked electrically. Unlocked by key outside or by switch or power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.

ND80PDEU



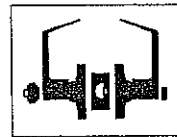
**Electrically Unlocked (Fail Secure) †**  
Outside lever continuously locked until unlocked by key or electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.


ND82PD F87



**Institution Lock † \***  
Both levers fixed. Entrance by key in either lever.

ND85PD



**Faculty Restroom Lock \*\***   
Outside lever fixed. Entrance by key only. Push-button in inside lever activates visual "occupancy" indicator, allowing only emergency master key to operate. Turning inside lever or closing door releases visual occupancy indicator. Rotation of inside spinner-button provides lock-out feature by keeping indicator thrown.

 *Safe School Locks*

† Keyed functions available with 6-pin (PD/LD), SFIC(GD/BD), or FSIC(RD/IJ/D) cylinders.

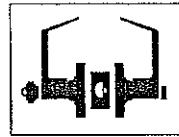
\* Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

\*\* 85 function locks are not available in Full Size & Small Format Interchangeable Cores.

**Vandlgard Functions**

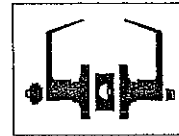
SCHLAGE ANSI

ND91PD F82



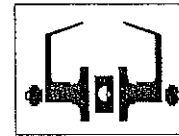
**Entrance/Office Lock †**  
Push-button locking. Push-button disengages outside lever until unlocked with key or by turning inside lever. Vandlgard is designed to disengage outside spindle from latch when in locked condition.

ND92PD F109



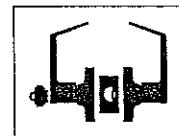
**Entrance Lock †**  
Turn/push-button locking; pushing and turning button disengages outside lever, requiring use of key until button is manually unlocked. Push-button locking; pushing button disengages outside lever until unlocked by key or by turning inside lever. Vandlgard is designed to disengage outside spindle from latch when in locked condition.


ND93PD F88



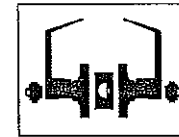
**Vestibule Lock †**  
Latch retracted by key from outside when outside lever is disengaged by key in inside lever. Inside lever is always unlocked. Vandlgard is designed to disengage outside spindle from latch when in locked condition.


ND94PD F84



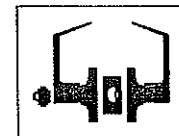
**Classroom Lock †**   
Outside lever disengaged and unlocked by key. Inside lever always unlocked. Vandlgard is designed to disengage outside spindle from latch when in locked condition.

ND95PD



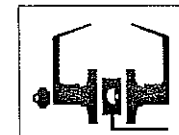
**Classroom Security Lock †**   
Key in either lever locks or unlocks outside lever. Inside lever is always unlocked.

ND96PD F86



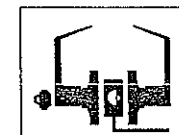
**Storeroom Lock †**  
Outside lever always disengaged. Entrance by key only. Inside lever always unlocked. Vandlgard is designed to disengage outside spindle from latch when in locked condition.

ND96PDEL



**Electrically Locked (Fail Safe) †**  
Outside lever continuously disengaged electrically. Unlocked by key outside or by switch or power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit. Vandlgard is designed to disengage outside spindle from latch when in locked condition.

ND96PDEU

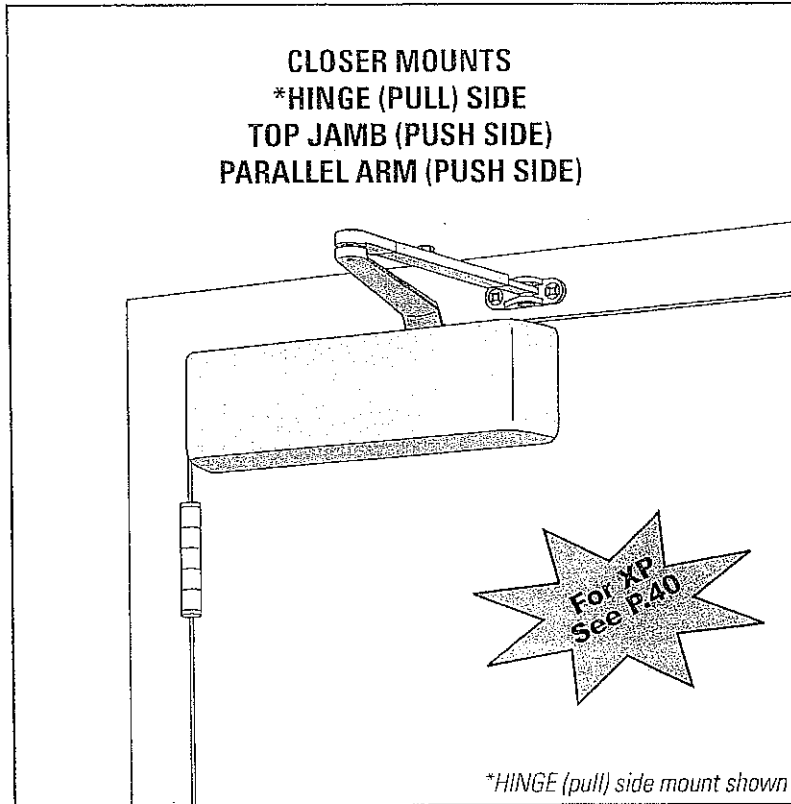


**Electrically Unlocked (Fail Secure) †**  
Outside lever continuously disengaged until unlocked by key or electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit. Vandlgard is designed to disengage outside spindle from latch when in locked condition.



# LCN 4040 SERIES

FEATURES



The 4040 SUPER SMOOTHIE® is LCN's most flexible heavy duty closer designed for institutional and other rugged high traffic applications.

- ▶ Ten Million Cycles
- ▶ Cast Iron
- ▶ Forged Steel Arm
- ▶ Double Heat Treated Steel Pinion
- ▶ All Weather Fluid
- ▶ Non-Handed
- ▶ LCN® Fast™ Power Adjust
- ▶ Fast & Accurate Installation
- ▶ UL & cUL Listed

- ▶ Standard 4040 series closer shipped with regular arm, standard plastic cover, and self reaming and tapping screws. See 4040 Series pages 45-47 for options.
- ▶ Non-sized cylinder is adjustable for interior doors to 5'0" and exterior doors to 4'0".
- ▶ Closer mounts hinge side, top jamb, and parallel arm w/PA Shoe on either right or left swinging doors.
- ▶ Closers to meet ADA requirements. See 4040 Series page 48.
- ▶ Standard or optional custom powder coat finish.
- ▶ Optional plated finish on cover, arm, and fasteners.
- ▶ Optional SRI primer for installations in corrosive conditions.
- ▶ Optional designer series metal cover
- ▶ UL and cUL listed for self-closing doors without hold-open.
- ▶ Tested and certified under ANSI Standard A156.4, grade one.



MOUNTING					FINISH		COVER	CYLINDER				**ARM FUNCTION											
HINGE (PULL) SIDE	TOP JAMB (PULL)	TOP JAMB (PUSH)	PARALLEL ARM	STOP FACE	POWDER COAT	PLATED	PLASTIC	METAL	DESIGNER METAL	NON-HANDED	NON-SIZED	ACCESSIBILITY	DELAYED ACTION	AVB***	XP	REGULAR (DOUBLE)	STANDARD (SINGLE)	HOLD-OPEN	FUSIBLE LINK	EDM/HEDA	CUSH/HOUSH	SCUSH/SHOUSH	
●	○	●	○	○	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○

● Available  
○ Not available

♿ Closer available with less than 5.0 lbs. opening force on 36" door.

\*\*Maximum opening/hold-open point with standard template.

\*\*\* Advanced Variable Backcheck

# LCN 4040 SERIES



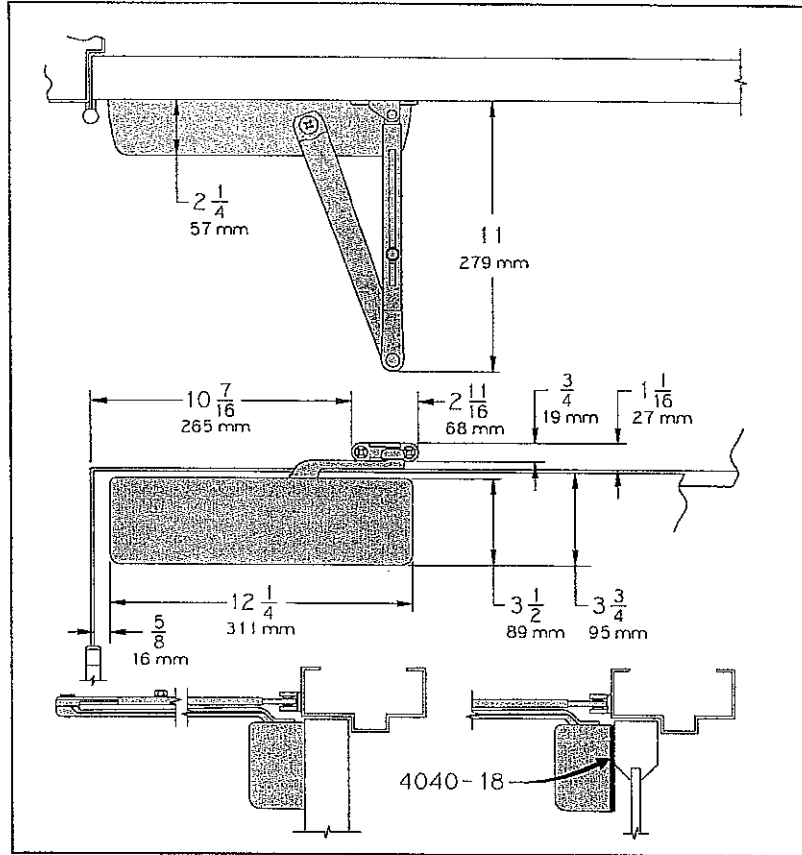
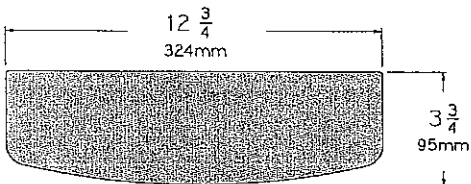
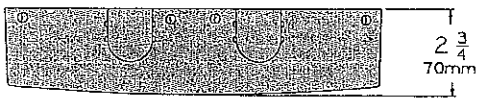
## HINGE (PULL) SIDE MOUNTING

### MAXIMUM OPENING

Templating allows up to 120°.

Hold-open points 90° up to 120° with hold-open arm.

### Optional, Non-handed Designer Series Metal Cover



MOUNTING DETAILS

### Options

- ▶ 4040XP cylinder
- ▶ 4041 Delayed action cylinder
- ▶ Hold-open arm
- ▶ Metal or lead lined cover
- ▶ Corner bracket
- ▶ Designer Series metal cover

### Special Templates

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

- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°.
- ▶ **Reveal** should not exceed 3/4" (19 mm) for regular arm or hold-open arm.
- ▶ **Top Rail** less than 3 3/4" (95 mm) requires PLATE, 4040-18. Plate requires 2" (51 mm) minimum. With Designer Series metal cover, use PLATE, 4040-18DS1
- ▶ **Clearance** of 2 3/8" (60 mm) behind door required for 90° installation. 2 7/8" (73 mm) for Designer Series metal covers
- ▶ **Delayed Action** (not available on 4040XP) Add suffix "DEL" to selected cylinder (eg. 4041 DEL). Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.
- ▶ **Bull Nose Trim** requires SOFFIT SHOE, 4040-65.
- ▶ **Corner Bracket** available for doors where top jamb or parallel arm mounting can not be used. 4040-16 allows 110° opening. Projects 5" (127 mm) from stop, 12 13/16" (325 mm) from frame. 4040-17 allows 100° opening with certain auxiliary door holders (consult factory). Projects 6 3/8" (162 mm) from stop, 13 11/16" (348 mm) from frame.

# LCN 4040 SERIES



## PARALLEL ARM (PUSH SIDE) MOUNTING

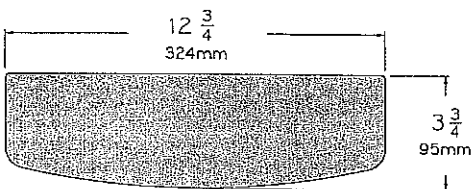
Optional mounting requires PA SHOE, 4040-62PA for REGULAR or HOLD-OPEN arms. Add prefix "P" to closer description (eg. P4041). P4041 closer includes 4040-201 FIFTH HOLE SPACER to support PA SHOE.

## MAXIMUM OPENING

180° opening/hold-open points with all except CUSH arms.

110° opening/hold-open with CUSH arms.

*Optional, Non-handed Designer Series Metal Cover*

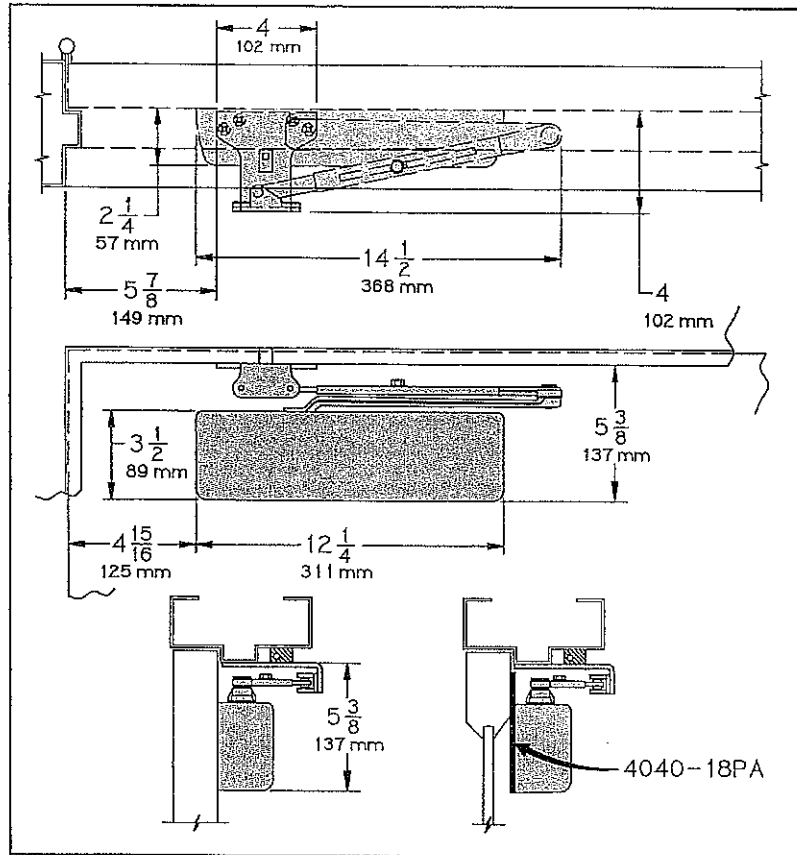


### Options

- ▶ 4040XP cylinder
- ▶ 4041 Delayed action cylinder
- ▶ Hold-open, EDA, HEDA, CUSH, HCUSH, SPRING CUSH, or SPRING HCUSH arm
- ▶ Metal or lead lined cover
- ▶ Designer Series metal cover

### Special Templates

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



MOUNTING DETAILS

- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Auxiliary Stop** is recommended at hold-open point, where the door cannot swing 180°, or where CUSH-N-STOP arm is not used.
- ▶ **Clearance** for 4040-62PA shoe is 4" (102 mm) from door face. EDA shoe projects 5 1/2" (140 mm) from door face. CUSH shoe projects 6" (152 mm) from door face.
- ▶ **Top Rail** less than 5 3/8" (137 mm) measured from the stop requires PLATE, 4040-18PA. Plate requires 2" (51 mm) minimum from the stop. With Designer Series metal cover, use PLATE, 4040-18PADS1
- ▶ **Head Frame** flush or rabbeted requires PA SHOE ADAPTER, 4040-418.
- ▶ **Stop Width** minimum 1" (25 mm). CUSH arm requires minimum 1 1/2" (38 mm).
- ▶ **Blade Stop** clearance requires 1/2" (13mm) BLADE STOP SPACER, 4040-61.
- ▶ **Delayed Action** (not available on 4040XP) Add suffix "DEL" to selected cylinder (eg. P4041 DEL). Delays time adjustable up to approximately 1 minute.

# LCN 4040 SERIES

ORDERING INFORMATION

## TABLE OF SIZES

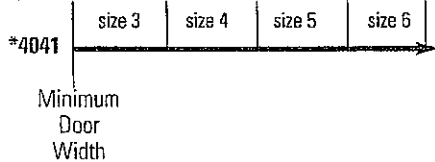
4041 cylinders are adjustable from size 1 through size 6 and is shipped set to size 3.

Closing power of 4040 series closers may be adjusted 50%.

→ Indicates recommended range of door width for closer size.

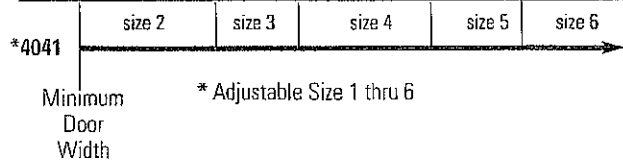
### EXTERIOR (and VESTIBULE) DOOR WIDTH

24"	30"	36"	42"	48"
610mm	762mm	914mm	1067mm	1219mm



### INTERIOR DOOR WIDTH


24"	34"	36"	48"	54"	60"
610mm	864mm	965mm	1219mm	1372mm	1524mm



## REDUCED OPENING FORCE 4040 SERIES CLOSERS

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

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

	DOOR WIDTH	30"	42"	48"
	8.5 lbs	4041	4041	4041
5.0 lbs	4041	4041	4041	

\* Maximum opening force

## HOW-TO-ORDER 4041 SERIES CLOSERS

### 1. SELECT FINISH.

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

*Closer will be shipped with:*

*- STANDARD COVER,  
REGULAR ARM,  
SELF-REAMING and TAPPING SCREWS,  
unless options listed below are selected.*

### CLOSER OPTIONS

#### CYLINDER

- Delayed Action (DEL)

#### COVER

- Lead Lined (LL)
- Metal (specify right or left hand) (MC)
- Designer Series Metal (non-handed) (DS1)

#### FINISH

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

#### ARM

- Regular w/62PA (Rw/PA)
- Regular w/62A (R/62A)
- Long (LONG)
- Extra Long (XLONG)
- Hold-Open (H)
- Hold-Open w/62PA (Hw/PA)
- Long Hold-Open (HLONG)
- EDA (optional -62G or -145)
- HEDA (specify right or left hand, optional-62G or -145)
- Cush-N-Stop (CUSH)
- HCush-N-Stop (HCUSH)
- Spring Cush (SCUSH)
- Spring HCush (SHCUSH)

#### OPTIONAL SCREW PACKS

- TB\* w/Self-Reaming and Tapping (TBSRT)
- Wood & Machine Screw (WMS)
- TB\*, Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- TB\* & TORX Machine Screw (TBTRX)

\* Specify door thickness if other than 1 3/4".

#### INSTALLATION ACCESSORIES

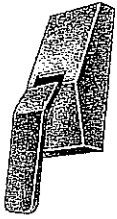
- Plate, 4040-18
- Plate, 4040-18TJ
- Plate, 4040-18G
- Plate, 4040-18PA
- Plate, 4040-18DS1
- Plate, 4040-18TJDS1
- Plate, 4040-18PADS1
- CUSH Shoe Support, 4040-30
- Blade Stop Spacer, 4040-61
- Auxiliary Shoe, 4040-62A
- Soffit Shoe, 4040-65
- PA Shoe Adapter, 4040-418
- CUSH Flush Panel Adapter, 4040-419

#### SPECIAL TEMPLATE

- ST- \_\_\_\_\_



## Latches & Latch Protection Plates



### Push/Pull Latch

ANSI A156.2 Closest Equivalent  
(Bored Latch - Series 4000 - Grade 2)



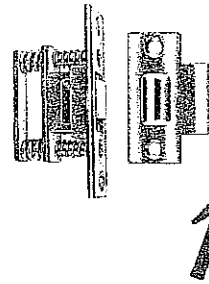
#### 311D

Push and Pull

- Levers: 1½" x 4½" (38 mm x 114 mm)
- Escutcheons: 2½" x 5" (64 mm x 127 mm)
- Projection: 2⅝" (67 mm)
- Bolt Throw: ½" (9.5 mm) - standard
- Backset: 2¾" (70 mm) - standard  
5" (127 mm) - optional
- Strike (ANSI A115.1, W7) - standard:  
2¾" x 1⅞" (70 mm x 29 mm)
- Strike (ANSI A115.1, W7) - standard:  
4⅞" x 1¼" (124 mm x 32 mm)
- Material: Stainless Steel
- Finishes: US3, US4, US10, US10B, US26
- Notes:
  - Non-handed
  - For 1¼" (45 mm) doors

#### 311L

Same as 311D except:  
For use with lead lined doors

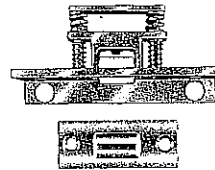


### Roller Latch with Tee Strike

Meets ANSI A156.16 for E09091

#### 318D

- Latch Face: 1" x 3⅜" (25 mm x 86 mm)
- Strike: 1⅞" x 2¾" (29 mm x 70 mm)
- Strike Gauge: 0.063"
- Material: Brass
- Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
- Fasteners: #8 x 1" Flat head wood screws;  
#8 Oval head tapping screws
- Note: Adjustable spring tension

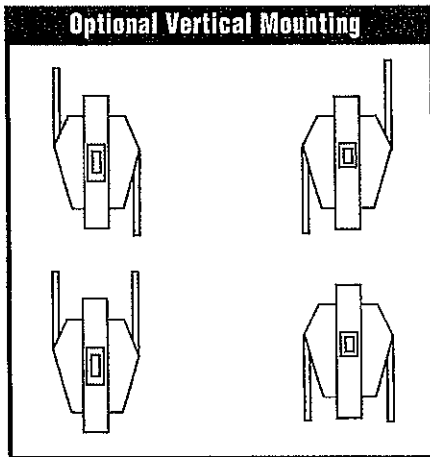


### Roller Latch with Stop

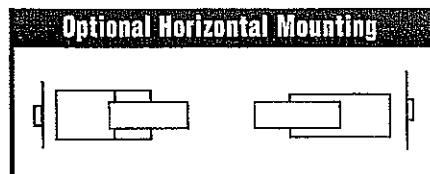
Meets ANSI A156.16 for E0911

#### 318S

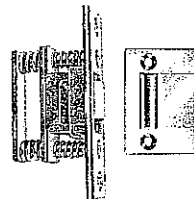
- Latch Face: 1½" x 4½" (38 mm x 114 mm)
- Angle Stop: ⅝" x 4½" (16 mm x 114 mm)
- Strike: 1⅞" x 2¼" (29 mm x 57 mm)
- Strike Gauge: 0.063"
- Material: Brass
- Finishes: US3, US4, US10, US10B, US15, US26, US26D
- Fasteners: #8 x 1" Flat head wood screws;  
#8 Oval head tapping screws
- Note: Adjustable spring tension



Requires 2¾" to 5" (70-127 mm) backset



Requires 5" (127 mm) backset



### Roller Latch with Full Lip Strike

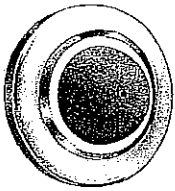
Meets ANSI A156.16 for E09091

#### 1442

- Latch Face: 1" x 3⅜" (25 mm x 86 mm)
- Size: 1⅞" x 2¼" (43 mm x 57 mm)
- Strike Gauge: 0.156"
- Material: Brass
- Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
- Fasteners: #8 x 1" Flat head wood screws;  
#8/32 Flat head machine screws
- Note: Adjustable spring tension with nylon roller



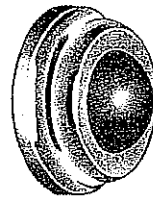
## Wall Stops & Holders



### Convex Wall Stop

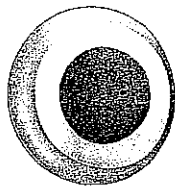
Meets ANSI A156.16 for L02101

- 230W** Diameter: 2 $\frac{1}{16}$ " (62 mm)  
 Projection:  $\frac{1}{16}$ " (30 mm)  
 Materials: Cast Brass, Bronze  
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D  
 Fasteners: #10 x 1 $\frac{1}{4}$ " concealed mounting with shield and toggle bolt  
 Note: Specify 230T for Machine screw and toggle nut screw pack



### Convex Wall Stop

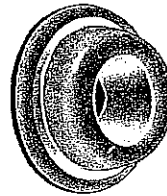
- 250W** Diameter: 1" (25 mm)  
 Projection:  $\frac{1}{2}$ " (13 mm)  
 Material: Brass  
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D  
 Fasteners: #6 x  $\frac{5}{8}$ " screw with shield



### Convex Wall Stop

Meets ANSI A156.16 for L02101

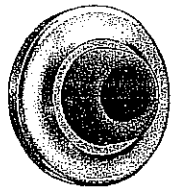
- 232W** Diameter: 2 $\frac{1}{2}$ " (64 mm)  
 Projection:  $\frac{1}{16}$ " (30 mm)  
 Materials: Wrought Brass, Bronze, Stainless Steel  
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D, US32, US32D  
 Fasteners: #10 x 1 $\frac{1}{4}$ " concealed mounting with shield and toggle bolt  
 Note: Specify 232T for Machine screw and toggle nut screw pack



### Concave Wall Stop

- 251W** Diameter: 1 $\frac{7}{8}$ " (48 mm)  
 Projection:  $\frac{3}{4}$ " (19 mm)  
 Material: Adhesive backed rubber bumper  
 Finish: Grey only

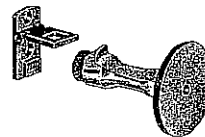
**BL232W** Purchase case quantity 50



### Concave Wall Stop

Meets ANSI A156.16 for L02251

- 234W** Diameter: 2 $\frac{1}{16}$ " (62 mm)  
 Projection:  $\frac{1}{16}$ " (30 mm)  
 Materials: Cast Brass, Bronze  
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D  
 Fasteners: #10 x 1 $\frac{1}{4}$ " concealed mounting with shield and toggle bolt  
 Note: Specify 234T for Machine screw and toggle nut screw pack



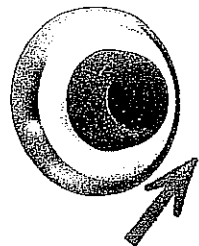
### Wall Stop and Holder

Meets ANSI A156.16 for L01351

- 254W** Diameter: 2 $\frac{3}{8}$ " (60 mm)  
 Projection: 3 $\frac{3}{8}$ " (86 mm)  
 Keeper: 1" x 2" (25 mm x 51 mm)  
 Fasteners:  $\frac{5}{16}$ " stud and anchor  
 Material: Cast Brass  
 Finishes: US3, US4, US10, US10B, US15, US26, US26D

Meets ANSI A156.16 for L01341

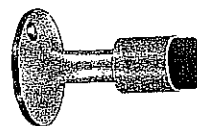
- 254S** Same as 254W except:  
 Fasteners: #10 Oval head tapping screws



### Concave Wall Stop

Meets ANSI A156.16 for L02251

- 236W** Diameter: 2 $\frac{1}{2}$ " (64 mm)  
 Projection:  $\frac{1}{16}$ " (30 mm)  
 Materials: Wrought Brass, Bronze, Stainless Steel  
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D, US32, US32D  
 Fasteners: #10 x 1 $\frac{1}{4}$ " concealed mounting with shield and toggle bolt  
 Note: Specify 236T for Machine screw and toggle nut screw pack



### Wall Stop

Meets ANSI A156.16 for L02021

- 255W** Diameter: 2 $\frac{1}{16}$ " (62 mm)  
 Projection: 3 $\frac{5}{8}$ " (92 mm)  
 Fasteners:  $\frac{5}{16}$ " stud and anchor  
 Material: Cast Brass  
 Finishes: US3, US4, US10, US10B, US15, US26, US26D

Meets ANSI A156.16 for L02011

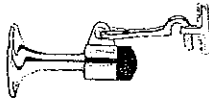
- 255S** Same as 255W except:  
 Fasteners: #10 Oval head tapping screws

**BL236W** Purchase case quantity 50



# Trim & Auxiliary

## Wall Stops & Holders



### Manual Wall Stop and Holder

Meets ANSI A156.16 for L01351

- 256W** Diameter: 2 1/4" (57 mm)
- Projection: 3 1/16" (97 mm)
- Keeper: 1 3/16" x 1 1/2" (21 mm x 38 mm)
- Material: Cast Brass
- Finishes: US3, US10, US10B, US15, US26, US26D
- Fasteners: 5/16" stud and anchor

Meets ANSI A156.16 for L01341

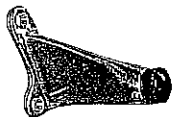
- 256S** Same as 256W except:
- Fasteners: #10 Oval head tapping screws



### Light Duty Wall Bumper

Meets ANSI A156.16 for L0203

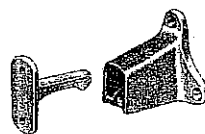
- 324W** Base: 7/8" (22 mm) diameter
- Projection: 3 1/4" (83 mm)
- Materials: Brass, Bronze
- Finishes: US3, US4, US5, US10, US10B, US15, US15A, US19, US26, US26D
- Fasteners: 3/4" x 3/16" Wood screw
- Note: Replaceable rubber tip available



### Angled Wall Stop

Meets ANSI A156.16 for L022D1

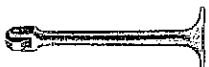
- 260W** Projection: 3 3/4" (96 mm)
- Material: Cast Brass
- Finish: US26D
- Base: 2 1/4" x wide x 3" high (57 mm x 76 mm)
- Fasteners: 10 x 1 1/2" Machine screws
- 1/4"-20 x 3/4" Machine screw with anchors plastic expansion shields



### Automatic Wall Stop & Holder

Meets ANSI A156.16 for L0129

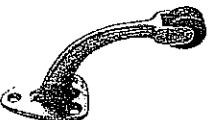
- 326W** Holder Base: 2 3/4" x 2 7/16" (70 mm x 62 mm)
- Holder Projection: 2 1/4" (57 mm)
- Projection (Wall to Door): 3 1/2" (89 mm)
- Keeper: 1" x 2" (25 mm x 51 mm)
- Material: Cast Brass
- Finishes: US3, US10, US10B, US26, US26D
- Fasteners: #10 x 1" Machine screws and anchors
- Note: For use with wood or metal doors



### Roller Bumper

Meets ANSI A156.16 for L022D1

- 272W** Base: 2" (51 mm) diameter
- Projection: 6 3/8" (162 mm)
- Materials: Brass, Bronze
- Finishes: US3, US10, US10B, US26, US26D
- Fasteners: #8 x 1" Flat head wood screws



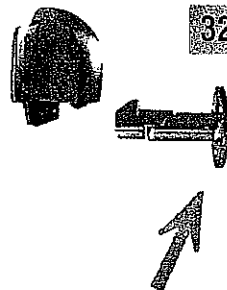
### Curved Roller Bumper

Meets ANSI A156.16 for L12211

- 273W** Projection: 2 5/8" (67 mm)
- Material: Brass
- Finishes: US3, US4, US10, US10B, US26, US26D
- Fasteners: #10 x 1" Flat head machine screws

### Automatic Wall Stop & Holder

Meets ANSI A156.16 for L11291



- 327W** Strike Diameter: 2 3/8" (61 mm)
- Holder: 3" x 3 1/16" (76 mm x 93 mm)
- Holder Projection: 2" (51 mm)
- Projection (Wall to Door): 3 7/16" (87 mm)
- Material: Cast Brass
- Finishes: US3, US4, US10, US10B, US26, US26D
- Fasteners: #12-24 x 1/2" Machine screws; #12 x 1" Wood screws; 1/4"-20 x 3/4" Machine screws with lead expansion shield anchors; #14 x 1 1/4" Wood screws with plastic expansion shield anchors
- Note: For use with wood or metal doors and wood or concrete floors



**3446**



**3445**

**Door Silencers  
No. 3445, 3446**

**Material:** DuraFlex Gray Rubber

**Other:** Sold in packages of 100.

No.	Size	Frame Type	Weight	ANSI A156.16
<b>3446</b>	1/2" dia. x 3/8"	metal	1.3 lbs./500	L03011
<b>3445</b>	3/8" x 3/4"	wood	1.3 lbs./500	L03021

**Form pneumatic air pockets to absorb noise and shock of door closing. Resilient cushion eliminates door rattle. Tamper proof. Gray rubber.**



## Floor Stops & Holders

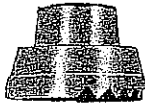
## Surface Bolts & Flush Bolts



### Kick-Down Door Holder

Meets ANSI A156.16 for L01381

- 270D** Base: 1 5/8" x 1 3/4" (41 mm x 45 mm)  
 Arm: 3 7/8" (98 mm)  
 Material: Cast Brass  
 Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D  
 Fasteners: #6 x 1" Oval head wood screws



### Replacement Rubber Tip

Use with Hager 270D and 271D Door Holders

- 270R** Material: Rubber



### Kick-Down Door Holder

Meets ANSI A156.16 for L01381

- 271D** Base: 1 5/8" x 1 3/4" (41 mm x 45 mm)  
 Arm: 4 3/4" (121 mm)  
 Material: Cast Brass  
 Finishes: US3, US10, US10B, US26, US26D  
 Fasteners: #6 x 1" Oval head wood screws



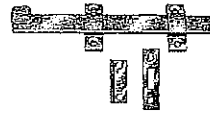
### Automatic Floor Stop & Holder

Meets ANSI A156.16 for L01301

- 326F** Strike Height: 1 1/4" (32 mm)  
**327F** Strike Height: 1 3/4" (44 mm)  
**328F** Strike Height: 2 1/4" (57 mm)  
**329F** Strike Height: 2 3/4" (70 mm)  
 Holder: 3" x 3 3/16" (76 mm x 87 mm)  
 Holder Projection: 1 15/16" (49 mm)  
 Floor Strike: 2 5/16" x 4 1/8" (56 mm x 105 mm)  
 Material: Brass  
 Finishes: US3, US10, US10B, US26, US26D

- Fasteners: • 4 each #12-24 x 1/2" Machine screw (combination slotted and Phillips head)  
 • 3 each #14 x 1 1/2" Flat head machine screw and anchors

Note: For use on wood or metal doors and wood or concrete floors



### Surface Bolt

Meets ANSI A156.16 for L04161 or L84161

- 275D** Length: 8" (203 mm)  
 Height x Width: 1/4" x 3/4" (6 mm x 19 mm)  
 Throw: 1" (25 mm)



- 276D** Length: 12" (305 mm)  
 Height x Width: 1/4" x 3/4" (6 mm x 19 mm)  
 Throw: 1" (25 mm)

- Material: Steel  
 Finish: US26D  
 Fasteners: #10-24 x 1" Flat head machine screw;  
 #10-1 1/4" x 1" Flat head wood screw

Note: Universal and angle strikes included



### Surface Bolt

Meets ANSI A156.16 for L04151

- 278D** Bolt Length: 6" (152 mm)  
 Bolt Width: 1/2" (12.5 mm)  
 Bolt Throw: 5/16" (24 mm)  
 Base Width: 1 1/16" (17 mm)  
 Knob: 1/2" (12.5 mm) diameter

- Surface Bolt Projection: 1 1/16" (17 mm)  
 Material: Brass  
 Finishes: US3, US26D  
 Fasteners: Flat head wood screw  
 Note: Mortise and universal strikes included



### Surface Bolt for Dutch Doors

- 279D** Length: 4 3/8" (111 mm)  
 Width: 1 5/8" (41 mm)  
 Throw: 9/16" (14 mm)  
 Half Round Bolt Size: 5/8" (16 mm)  
 Material: Brass  
 Finishes: US3, US10, US10B, US26D  
 Fasteners: #5 x 3/4" Wood screw;  
 #6 x 3/4" Wood screw

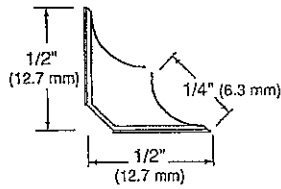
Note: Mortise and universal strikes included



### Smoke Seal Systems

Add to the frame of a smoke rated opening to comply with the requirements of UBC 7-2 1997 Part II, NFPA 105 and UL1784. The addition of a smoke seal is necessary to complete installation instructions and validate the "S" label of a smoke control door.

- 721S** Charcoal
- 721B** Brown
- 721G** Gray
- 721T** Tan
- 721W** White

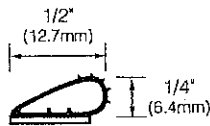


Category: H & J

Certifications:    

Note: Thermoplastic Elastomer (TPE) material

- 726S** Charcoal
- 726W** White

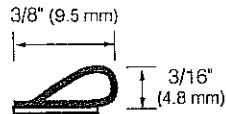


Category: H & J






Certifications:     

Note: Silicone material

- 736S** Charcoal
- 736W** White

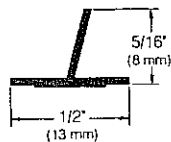


Category: H & J

Certifications:     

Note: Silicone material

- 737S** Charcoal
- 737W** White





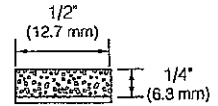
Category: H & J

Certifications:     

### Draft Control Gaskets



- 725S** Charcoal

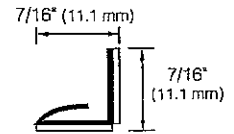
Category: J  
Certifications:  



Note: Sponge neoprene material



- 727S** Charcoal

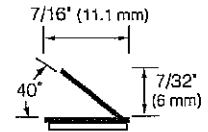
Category: J  
Certifications:  



Note: Thermoplastic Elastomer (TPE) material

- 728S** Charcoal
- 728W** White

Category: J  
Certifications:  



Note: Thermoplastic Elastomer (TPE) material



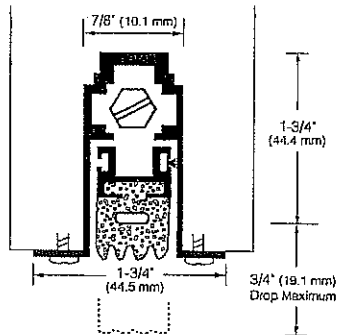
# Weatherstripping

## Automatic Door Bottoms

## Door Bottom Sweeps

**743S**

Finishes: MIL  
 Inserts: N  
 Category: J  
 Certifications:

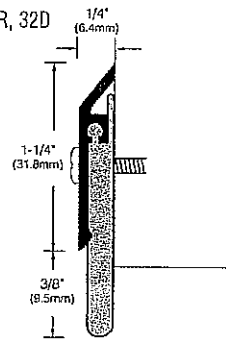


Typically door bottom sweeps are used on the exterior of an outswinging door

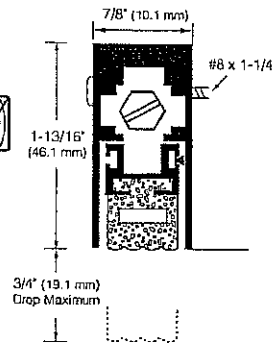
- Fasteners: #6 x 5/8" Pan head sheet metal screws furnished with mortise types
- Notes:
- MIL finish weatherstripping is supplied with zinc plated screws
  - Brass weatherstripping is supplied with brass screws
  - Color anodized weatherstripping is supplied with screws plated to match
  - Stainless steel weatherstripping is supplied with stainless steel screws

**750S**

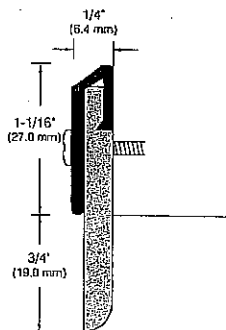
Finishes: DBA, GLD, MIB, CLR, 32D  
 Inserts: N, S  
 Category: J  
 Certifications:

**747S**

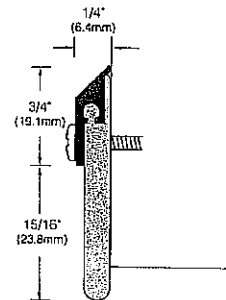
Finishes: MIL, DBA, CLR  
 Inserts: N  
 Category: J  
 Certifications:

**752S**

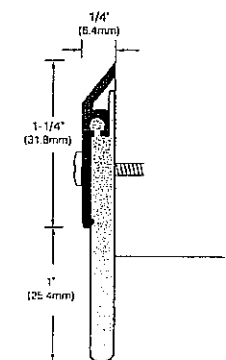
Finishes: MIL, DBA, GLD  
 Inserts: V  
 Category: J  
 Certifications:

**753S**

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

**754S**

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



Finish Codes • MIL - mill finish aluminum • DBA - dark bronze anodized • GLD - gold anodized  
 MIB - mill finish bronze • CLR - clear anodized • 32D - Stainless Steel

Insert Codes • V - Vinyl • N - Neoprene, EDPM, or TPE • S - Silicone



# Thresholds

## Saddle

**415S** Finishes: MIL, DBA, GLD, MIB  
 Certifications:

**428S** Finishes: MIL, DBA, GLD  
 Certifications:

**416S** Finishes: MIL, DBA, GLD, MIB  
 Certifications:

**430S** Finishes: MIL, DBA, GLD  
 Certifications:

**417S** Finishes: MIL, DBA, GLD, MIB  
 Certifications:

**436S** Finishes: MIL, DBA, GLD  
 Certifications:

**418S** Finishes: MIL, DBA, GLD, MIB  
 Certifications:

**492S** Finishes: MIL, DBA, GLD  
 Certifications:

**426S** Finishes: MIL, DBA, GLD  
 Certifications:

**480S** Finishes: MIL, DBA, MIB

### MODEL 998

#### Application

- Wall Mount
- Standard Doors
- Concealed Wiring

#### Product Description & Features

- Total Projection: 3-5/8" (92mm)
- Mounting Requirements: 2" x 4" x 1-3/4" (51 x 102 x 45mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- UL listed door holder

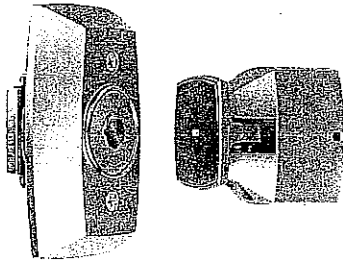
#### Technical Information

- Voltage and Current:
  - 120 VAC, 60 Hz., .020 amp
  - 24 VAC/DC, 60 Hz., .020 amp
  - 12 VDC, .040 amp

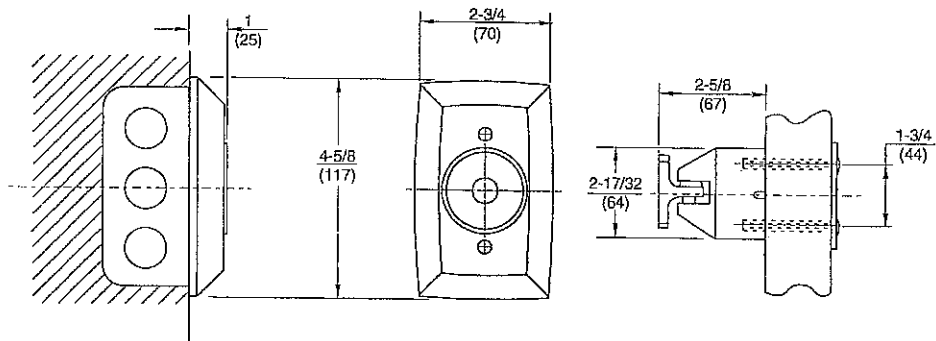


250 VAC, 50/60 Hz., .009 amp

- Shipping Weight: 2-1/2 lbs. (1.1 kg)



#### Technical Information



### MODEL 999

#### Application

- Typical Usage
- Universal Mounting

#### Product Description & Features

- Base Plate; Concealed Wiring
- Total Projection: 4-3/8" (111mm)
- Mounting Requirements: 2" x 4" (51 x 102mm) outlet box; 4" (102mm) square box; 4" (102mm) octagonal box
- Wall must be properly reinforced and outlet box adequately fastened
- UL listed door holder

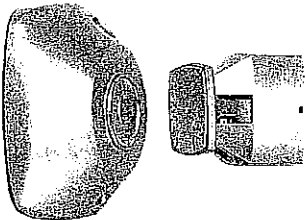
#### Technical Information

- Voltage and Current:
  - 120 VAC, 60 Hz., .020 amp
  - 24 VAC/DC, 60 Hz., .020 amp
  - 12 VDC, .040 amp

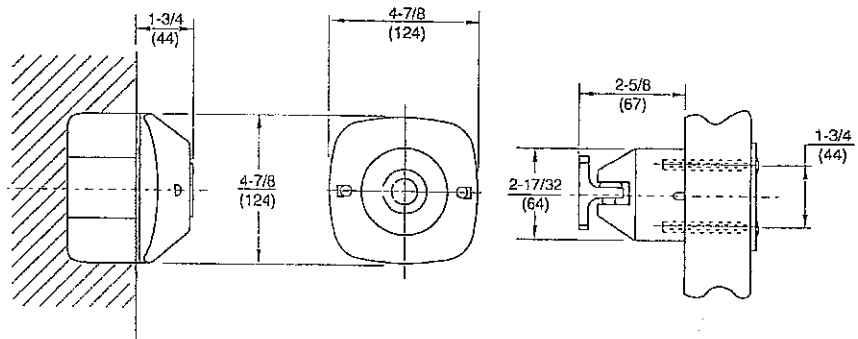


250 VAC, 50/60 Hz., .009 amp

- Shipping Weight: 2-3/4 lbs. (1.2 kg)



#### Technical Information



Electromagnetic Door Releases

This drawing has been checked by the Contractor. This review is general and neither it nor approval by the Architect or his Engineers shall in any way relieve the Subcontractor from obligation under his contract, nor shall it relieve him of the responsibility for any error which may exist. Each Subcontractor shall be responsible for his own dimensions, quantities and Specification requirements.

**CAM CONSTRUCTION COMPANY**

9/22/09 by C Noms

# CURRIES Door & Frame Schedule

Distributed By:  
**CONSTRUCTION HARDWARE, INC.**

960 BROOK ROAD  
CONSHOHOCKEN, PA 19428  
Phone: (610) 832-1500  
Fax: (610) 832-1450

Project **08029** File **08100** Submission **0001**

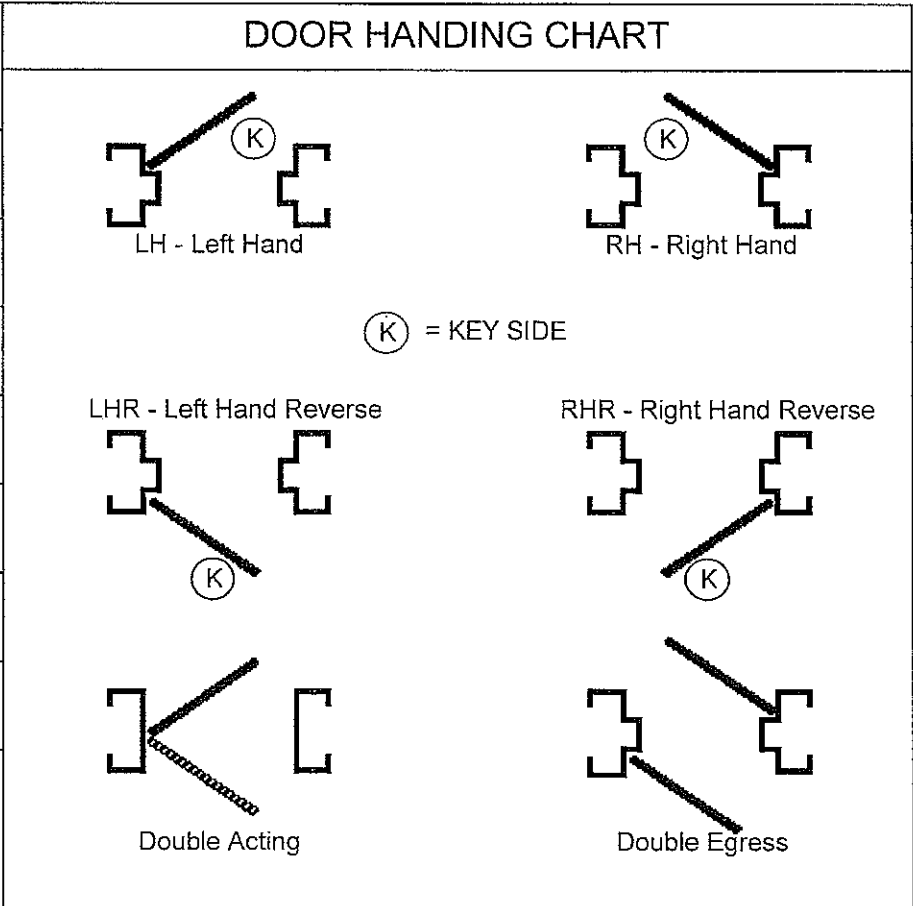
APPROVED       APPROVED AS NOTED  
 NOT APPROVED       REVISE & RESUBMIT

REVIEWED FOR CONFORMANCE WITH INFORMATION GIVEN AND DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. SUBMITTAL IS NOT REVIEWED FOR ACCURACY AND COMPLETENESS OF OTHER DETAILS, DIMENSIONS, QUANTITIES, INSTALLATION INSTRUCTIONS AND PERFORMANCE OF EQUIPMENT OR SYSTEMS. REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. APPROVAL OF A SPECIFIC ITEM DOES NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

Name **C Wilson** Date **9/26/09**  
COCHRAN, STEPHENSON & DONKERVOET,  
Incorporated Architects  
300 West Pratt Street Baltimore, MD 21201 410-539-2000



RECORD OF SUBMITTALS	
SUBMITTED	RETURNED
1ST	
2ND	
3RD	
4TH	
RECEIVED APPROVED DRAWINGS	
RECEIVED APPROVED HARDWARE	
DRAWN BY: JOHN BACHAND	



JOB NO. C-0009
PROJECT ST. ELIZABETH REHAB. & NURSING CTR
LOCATION INTERIOR RENOVATIONS BALTIMORE, MD 21227
ARCHITECT CSD ARCHITECTS
CONTRACTOR CAM CONSTRUCTION
FINISH HARDWARE BY CONSTRUCTION HARDWARE, INC.
SHEET NO.      OF

# LEGEND

## HM Frames

## HM Doors

## Wood Doors

<p><b><u>Anchor</u></b>                  WSC STEEL STUD - WELD IN (6)                  MP MULTI-PURPOSE - LOOSE (6)</p> <p><b><u>Construction</u></b>                  SW SHOP WELD - SEAM (KD)</p> <p><b><u>Face Jamb</u></b>                  2" 2" JAMBS</p> <p><b><u>Head Jamb</u></b>                  2" 2" FACE HEAD</p> <p><b><u>Steel</u></b>                  RK 18/16 GA(A60) SNG 6-9 7/8"JD                  CR COLD ROLLED STEEL</p>	<p><b><u>Edge</u></b>                  S SEAM ON EDGE</p> <p><b><u>Face</u></b>                  F FLUSH DOOR</p> <p><b><u>Label</u></b>                  UNLABELED</p> <p><b><u>Steel</u></b>                  CR COLD ROLLED STEEL                  RK GALVANEAL (A60)</p>	<p><b><u>Construction</u></b>                  PC5 BONDED PARTICLEBOARD CORE</p> <p><b><u>Edge</u></b></p> <p><b><u>Face</u></b>                  F FLUSH - SGL                  FF FLUSH - PR</p> <p><b><u>Label</u></b>                  NONE NO LABEL</p> <p><b><u>Prefinish</u></b></p> <p><b><u>Series</u></b>                  DPC1 MARSHFIELD 5 PLY (PC)</p> <p><b><u>Set</u></b></p> <p><b><u>Specie</u></b>                  MDO MEDIUM DENSITY OVERLAY</p> <p><b><u>Stile</u></b>                  MO MILL OPTION</p>
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# Opening Detail Recap Report

Project ID: C-0009

ST. ELIZABETH REHAB. & NURSING CTR

Job Number: C-0009

OPENINGS					DOORS								FRAMES						HDS #			
Opening #	Arch Mark	Qty	UOM	Hand	Qty	Hand	Mat	Size	Ser/Model	Edge	Ga/	ST/Specie	Qty	Hand	Mat	Size	Jamb	Profile/Trim		Gauge	ST/WT	Head
Description					UOM	Status			Face Type	Stile	Con	Lab	Status					Construction		Throat	Anchor	Face
Rev	Location								Prefinish	Blocking								Label		Elevation	Section	
101	101	1	SGL	RHR	1	RHR	HM	3'0" x 7'0" x 1-3/4"	707	S	18	RK	1	RHR	HM	3'0" x 7'0"	8 1/4"	M	16	RK	2"	
	3'0" x 7'0" x 1 3/4" HMD/HMF EXTERIOR FROM TOILET 101				SGL				F									SW	7 1/4"	WSC	2"	
																			TS			
102	102	1	SGL	LHR	1	LHR	HM	3'0" x 7'0" x 1-3/4"	707	S	18	RK	1	LHR	HM	3'0" x 7'0"	8 1/4"	M	16	RK	2"	
	3'0" x 7'0" x 1 3/4" HMD/HMF EXTERIOR FROM JANITOR 104				SGL				F									SW	7 1/4"	WSC	2"	
																			TS			
103	103	1	SGL	RHR	1	RHR	HM	3'0" x 7'0" x 1-3/4"	707	S	18	RK	1	RHR	HM	3'0" x 7'0"	8 1/4"	M	16	RK	2"	
	3'0" x 7'0" x 1 3/4" HMD/HMF EXTERIOR FROM STORAGE 103				SGL				F									SW	7 1/4"	WSC	2"	
																			TS			
104	104	1	SGL	LHR	1	LHR	HM	3'0" x 7'0" x 1-3/4"	707	S	18	RK	1	LHR	HM	3'0" x 7'0"	8 1/4"	M	16	RK	2"	
	3'0" x 7'0" x 1 3/4" HMD/HMF EXTERIOR FROM TOILET 102				SGL				F									SW	7 1/4"	WSC	2"	
																			TS			
✓ 161B	161B	1	PR	RHR/LHR	1	RHR	WD	2'6" x 6'8" x 1 3/4"	DPC1		PC5	MDO	1	RHR/LHR	HM	5'0" x 6'8"	5 3/4"	M	16	CR	2"	
	2-2'6" x 6'8" x 1 3/4" WD/HMF CORR. FROM CLOSET				PR				FF		MO	NONE						SW	4 7/8"	MP	2"	
																			FP			
					1	LHR	WD	2'6" x 6'8" x 1 3/4"	DPC1		PC5	MDO										
					PR				FF		MO	NONE										
✓ 162A	162A	1	SGL	RHR	1	RHR	WD	3'0" x 6'8" x 1 3/4"	DPC1		PC5	MDO	1	RHR	HM	3'0" x 6'8"	5 3/4"	M	16	CR	2"	
	3'0" x 6'8" x 1 3/4" WD/HMF ACTIVITY RM FROM CLOSET				SGL				F		MO	NONE						SW	4 7/8"	MP	2"	
																			FS			
216	216	1	SGL	LH	1	LH	HM	3'0" x 6'8" x 1-3/4"	707	S	18	CR	1	LH	HM	3'0" x 6'8"	5 3/4"	M	16	CR	2"	
	3'0" x 6'8" x 1 3/4" HMD/HMF PANTRY TO SCULLERY				SGL				F									SW	4 7/8"	MP	2"	
																			FS			

CONFIRM THROAT & ANCHORS  
SEE NOTE 1.

CONFIRM THROAT & ANCHORS  
SEE NOTE 1.

CONFIRM THROAT & ANCHORS  
SEE NOTE 1.

# Opening Detail Recap Report

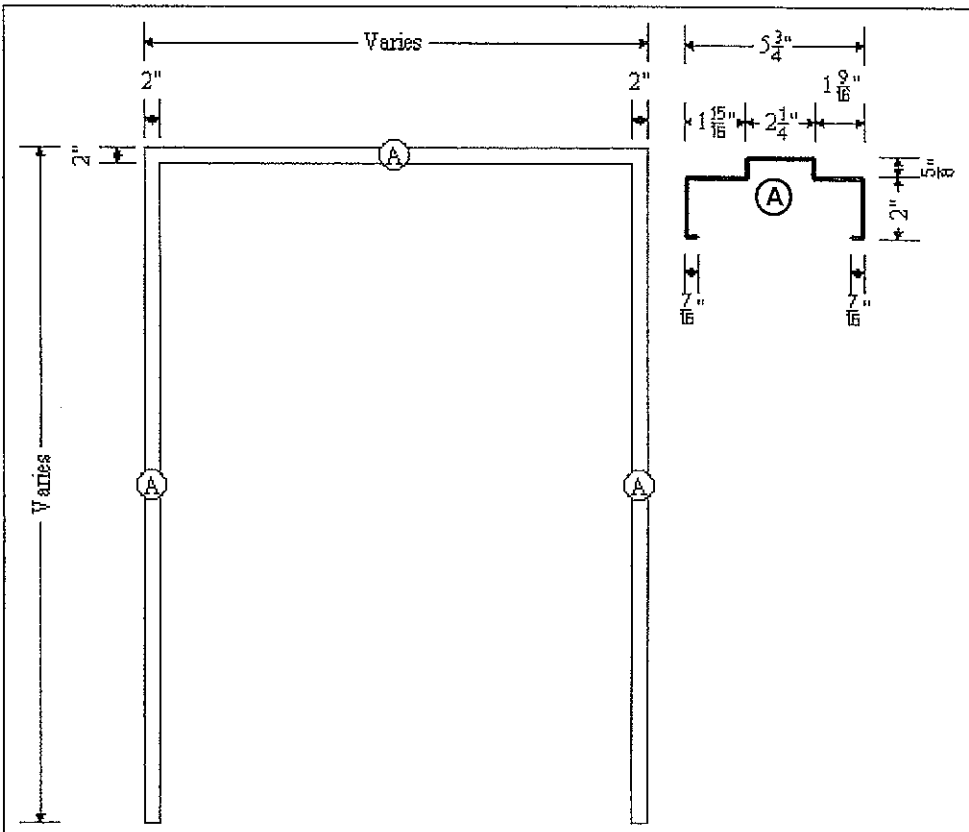
Project ID: C-0009

ST. ELIZABETH REHAB. & NURSING CTR

Job Number: C-0009

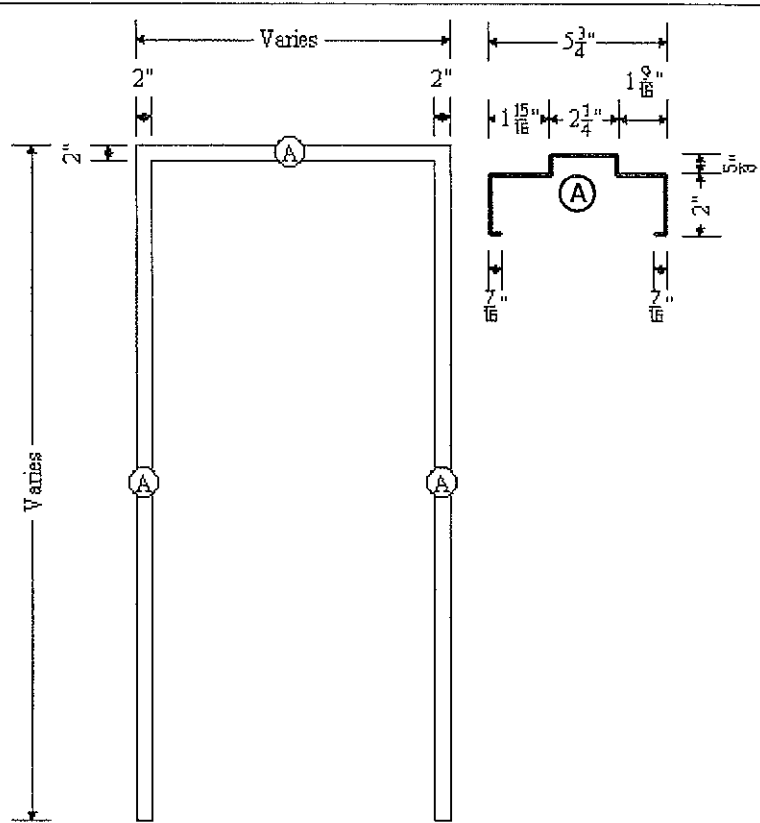
OPENINGS					DOORS							FRAMES					HDS #					
<u>Opening #</u>	<u>Arch Mark</u>	<u>Qty</u>	<u>UOM</u>	<u>Hand</u>	<u>Qty</u>	<u>Hand</u>	<u>Mat</u>	<u>Size</u>	<u>Ser/Model</u>	<u>Edge</u>	<u>Ga/</u>	<u>ST/Specie</u>	<u>Qty</u>	<u>Hand</u>	<u>Mat</u>	<u>Size</u>	<u>Jamb</u>	<u>Profile/Trim</u>	<u>Gauge</u>	<u>ST/WT</u>	<u>Head</u>	<u>HDS #</u>
<u>Description</u>					<u>UOM</u>	<u>Status</u>			<u>Face Type</u>	<u>Stile</u>	<u>Con</u>	<u>Lab</u>	<u>Status</u>				<u>Construction</u>	<u>Throat</u>	<u>Anchor</u>	<u>Face</u>		
<u>Rev</u>	<u>Location</u>								<u>Prefinish</u>	<u>Blocking</u>								<u>Label</u>	<u>Elevation</u>	<u>Section</u>		
252A	252A	1	SGL	RHR	1	RHR	WD	3'8" x 6'8" x 1 3/4"	DPC1		PC5	MDO	1	RHR	HM	3'8" x 6'8"	5 3/4"	M	16	CR	2"	05
3'8" x 6'8" x 1 3/4" WD/HMF CORR. FROM BATHING SUITE					SGL				F		MO	NONE	CONFIRM THROAT & ANCHORS <b>SEE NOTE 1.</b>					SW	4 7/8"	MP	2"	
									FLUSH - SGL										FS			
252B	252B	1	SGL	RHR	1	RHR	WD	2'6" x 6'8" x 1 3/4"	DPC1		PC5	MDO	1	RHR	HM	2'6" x 6'8"	5 3/4"	M	16	CR	2"	01
2'6" x 6'8" x 1 3/4" WD/HMF CORR. FROM CLOSET					SGL				F		MO	NONE	CONFIRM THROAT & ANCHORS <b>SEE NOTE 1.</b>					SW	4 7/8"	MP	2"	
									FLUSH - SGL										FS			
316	316	1	SGL	LH	1	LH	HM	3'0" x 6'8" x 1-3/4"	707	S	18	CR	1	LH	HM	3'0" x 6'8"	5 3/4"	M	16	CR	2"	04
3'0" x 6'8" x 1 3/4" HMD/HMF PANTRY TO SCULLERY					SGL				F				CONFIRM THROAT & ANCHORS <b>SEE NOTE 1.</b>					SW	4 7/8"	MP	2"	
									FLUSH DOOR										FS			

**NOTE 1.  
CAM VERIFY THROAT AND ANCHORS IN FIELD.**



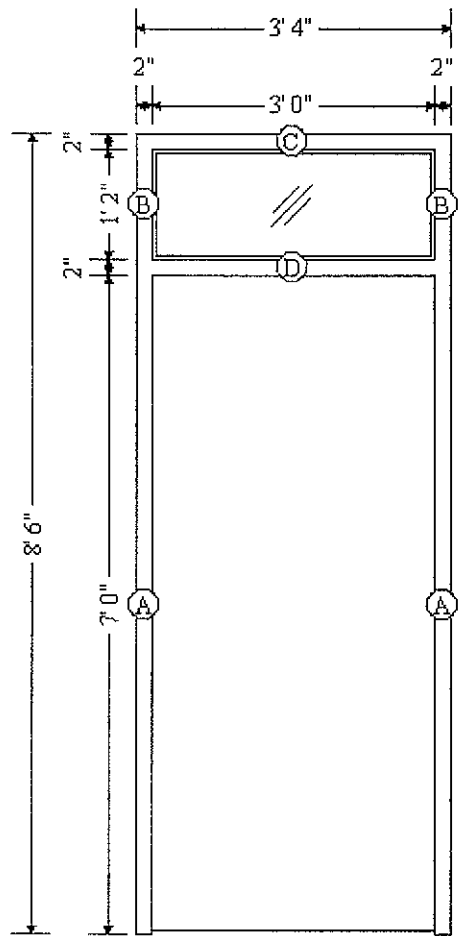
FP

Doors #s: 161B (5'0" x 6'8")



**FS**

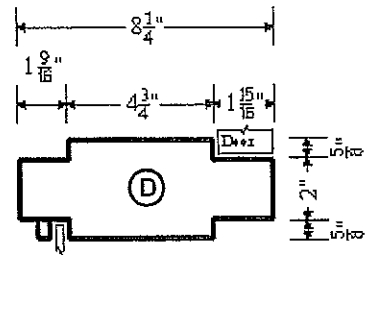
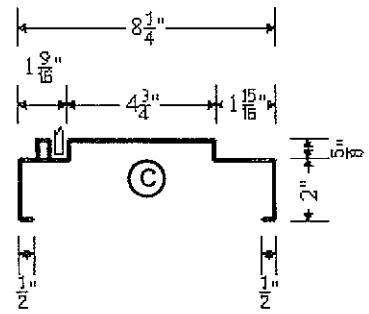
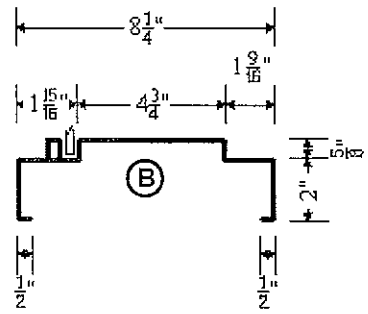
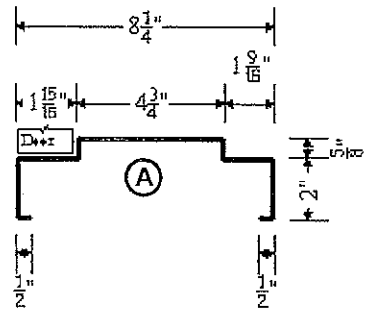
Doors #s: 162A (3'0" x 6'8"), 216 (3'0" x 6'8"), 252A (3'8" x 6'8"), 252B (2'6" x 6'8"), 316 (3'0" x 6'8")



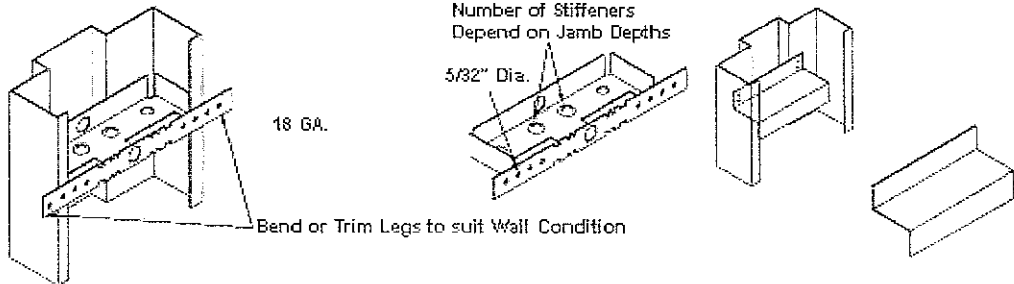
1/4" GLASS & GLAZING BY OTHERS

TS

Doors #s: 101 (3'0" x 7'0") , 102 (3'0" x 7'0") , 103 (3'0" x 7'0") , 104 (3'0" x 7'0")

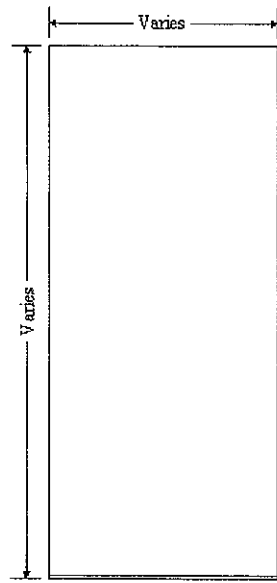


# ANCHORS

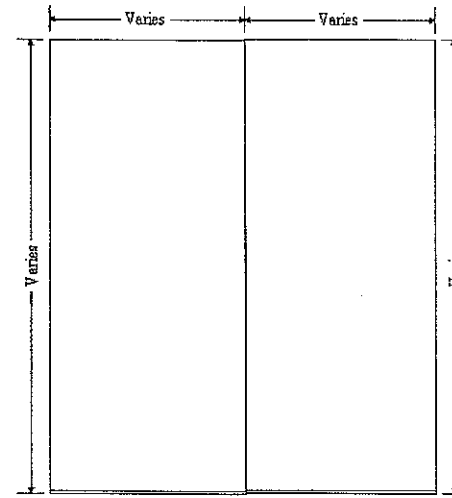


Multi-Purpose

Steel Channel - Welded



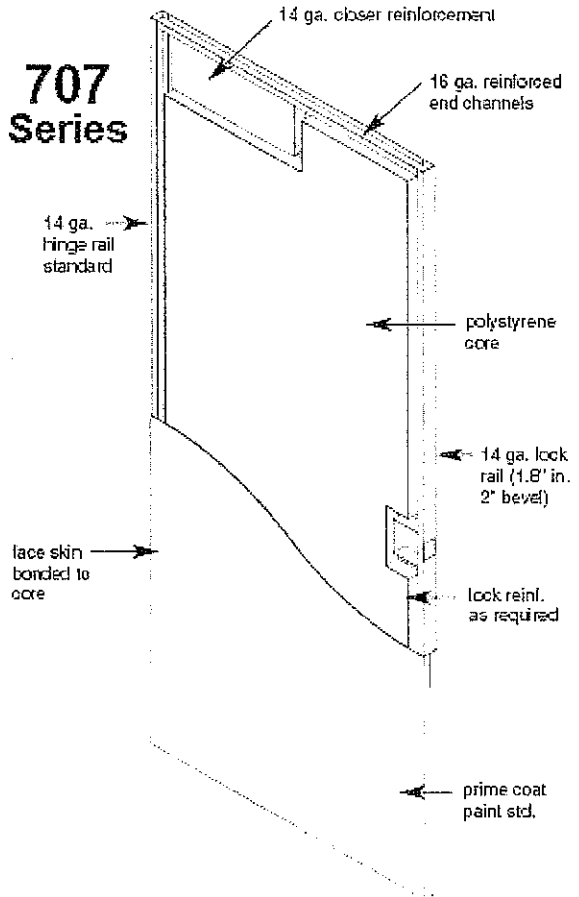
F



FF

DOOR SERIES

707 Series



Polystyrene Core

# Particleboard Core Doors

## Neutral Pressure - NON-RATED (DPC-1) and 20-MINUTE (DFP-20)

### Product Features and Specifications

Interior Only (1)

#### Thickness Maximum Size

1-3/4" or 1-3/8"  
**DPC-1:** Single: 4/0 x 10/0 Pair: 8/0 x 10/0  
**DFP-20:** 1-3/4": Single: 4/0 x 10/0 Pair: 8/0 x 10/0 (2)  
 Double Egress Pair: 8/0 x 8/0 (2)  
 1-3/8": Single Only: 3/0 x 7/0

#### Minimum Size Faces

0/8 x 1/10 (3)

- Wood Veneer (5-Ply)
- Medium-Density Overlay (MDO)
- Engineered fiber. \*Standard construction is edgeband after decorative laminate face, no crossband is used (3-ply). If doors require edgeband before decorative laminate face, the crossband is used (5-ply).
- 1-3/8" LSL with veneer band or decorative laminate to match face (2) (4)
- 1-1/8", mill option (5) (6) (7)
- Type I (waterproof)
- Type II (water-resistant)
- Particleboard (which complies with ANSI A208.1-LD-2)

#### Crossbands

- Decorative Laminate\*
- Styled™ Door Face

#### Stiles

Top and Bottom Rails  
 Face Assembly Adhesive  
 Core Assembly Adhesive  
 Core

#### Maximum Size of Lite Openings (8)

#### METAL VISION FRAMES OR WOOD MOULDING:

**DPC-1:** (9) (10)

Total area of openings not to exceed 1,296 sq. in. of visible glass or one continuous dimension of 36" W or 54" H

#### METAL VISION FRAMES OR WOOD MOULDING (11):

**DFP-20:** (12) 1-3/4" thickness: 1/4" wired glass only:

Total area of openings not to exceed 1,296 sq. in. of visible glass or one continuous dimension of 36" W or 54" H

#### METAL VISION FRAMES (13):

**DFP-20:** (12) 1-3/4" thickness: 3/16" Firelite® NT glass only (14):

Total area of openings not to exceed 1,296 sq. in. of visible glass or one continuous dimension of 36" W or 54" H

**DFP-20:** (12) 1-3/8" thickness: 1/4" wired glass only:

Total area of openings not to exceed 100 sq. in. of visible glass or one continuous dimension of 12" W or 33" H

- Fitting
- Clear or stain with satin gloss Enviroclad UV™ finish
- Machining
- Standard Louvers
- Applied Moulding
- Glazing
- Prime only
- Opaque with flat gloss topcoat

#### Warranty

#### Security Rating

#### Acoustic Rating

Full; life of original installation (1)  
 Class 40 (17), highest security rating possible  
 STC 31 (inoperable)

#### Other Detail Work (15) Factory Finish (16)

- (1) Use of Marshfield DoorSystems, Inc. doors in exterior applications is not recommended and not warranted.
- (2) Fire retardant stiles eliminate the need for metal edge and astragal.
- (3) Either the width or length dimension must be at least 22".
- (4) 2-ply full outer stile available.
- (5) Laminated Strand Lumber (LSL) or hardwood at mill option.
- (6) Wider rails available.
- (7) Bottom rails are a minimum 2-1/2" in doors requiring deep mortise machining for closers, holders, pivots, bottom seals, etc.
- (8) Marshfield DoorSystems, Inc. does not assume responsibility for choice of glazing materials used. Refer to Consumer Product Safety Commission 16 CFR 1201 CAT. II (1-1-97 Edition) to determine the need for safety-rated glazing.
- (9) Lites will be allowed up to 110" in length on DPC-1 doors but will not be covered by the Marshfield DoorSystems, Inc. warranty.
- (10) Minimum 5" from lite to any edge and adjacent openings, including hardware cutouts.
- (11) If 1/4" wired glass is used in doors that are shipping to Canada or anywhere that requires hose stream testing, Trim-Lite™ moulding is required.
- (12) Minimum 5-1/2" from lite to any edge and adjacent openings, including hardware cutouts.
- (13) All Metal 118M vision frame required.
- (14) Metal vision frame is All Metal stamping 115-1 for ITS-WH and a 117 or 118M for UL.
- (15) All fire-rated doors must be machined by Marshfield DoorSystems, Inc. or other approved fire door machiners. Factory machining of surface-mounted exit devices with face holes 1" and larger is available.
- (16) All colors may not be available.
- (17) Per UBC standard 41-1 and ASTM F-476.

Note: Marshfield DoorSystems, Inc. doors are manufactured per the standards listed on this page. Specifications are subject to change without notice.

For more information call: **800-869-3667**



Marshfield  
 DoorSystems