

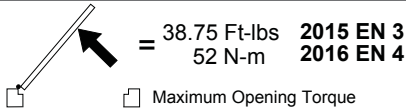


18755

2010 Series

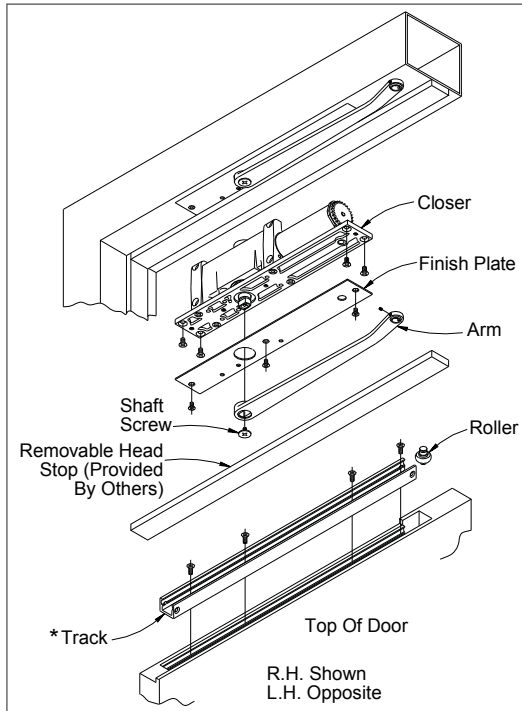
LCN®

Installation Instructions



Instructions

1. Make sure hand of closer and door correspond. Hand of closer is stamped on finish plate. Hand of closer can not be reversed.
2. If door and frame are not prepared for closer and track, prepare to dimensions shown on other side.
3. Install closer in prepared frame with proper screws. Replace finish plate (or frame plate provided by frame manufacturer) and be sure plate is flush with soffit. Place arm on closer shaft and secure with shaft screw. Insert track roller in track. Install track level in door.
4. Hang door on butts. Be sure there is no bind or friction. Open door 45° and pull arm away from stop. Using allen wrench furnished, back out arm set screw to clear arm roller stud. DO NOT DRIVE ARM DOWN OVER ROLLER STUD. Lift end of arm up and over roller and gently fit roller stud into arm. Tighten self locking set screw.



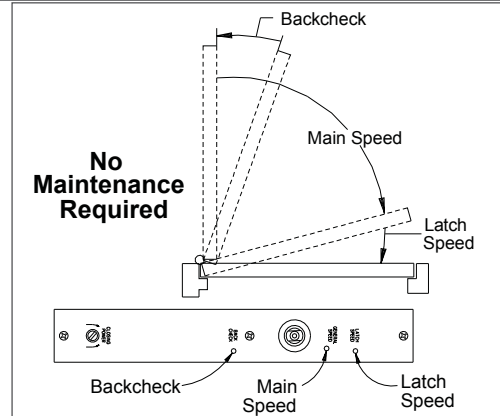
Improper installation or regulation may result in personal injury or property damage. Follow all instructions carefully. For questions, call LCN at 877-671-7011

5. IMPORTANT: Closer has been regulated prior to shipment. Adjust regulation only if necessary. Use a 3/32" hex wrench and to adjust speed (see illustration). To slow main speed of door, turn regulating screw nearest shaft clockwise. To slow latch speed of door, turn regulating screw nearest hinge clockwise. BACKCHECK To increase backcheck intensity, turn regulating screw nearest latch clockwise.

① **Do not use abrupt backcheck- nor expect door closer to act as a door stop.**

Customer Service

1-877-671-7011 www.allegion.com/us

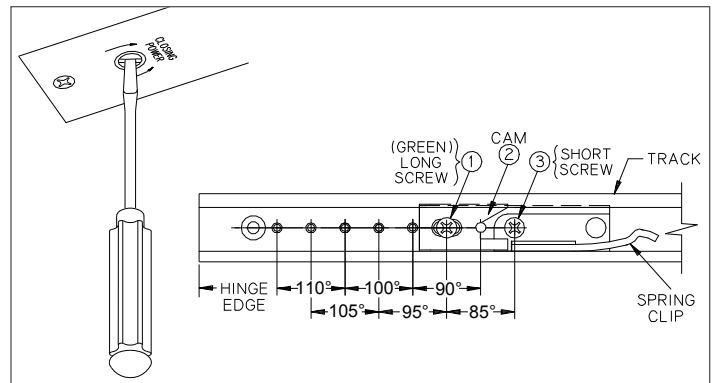


6. Adjust CLOSING POWER only if more power is needed. Closer is shipped with minimum closing power preset. To increase CLOSING POWER turn spring adjusting screw clockwise. Maximum adjustment is 18 turns.

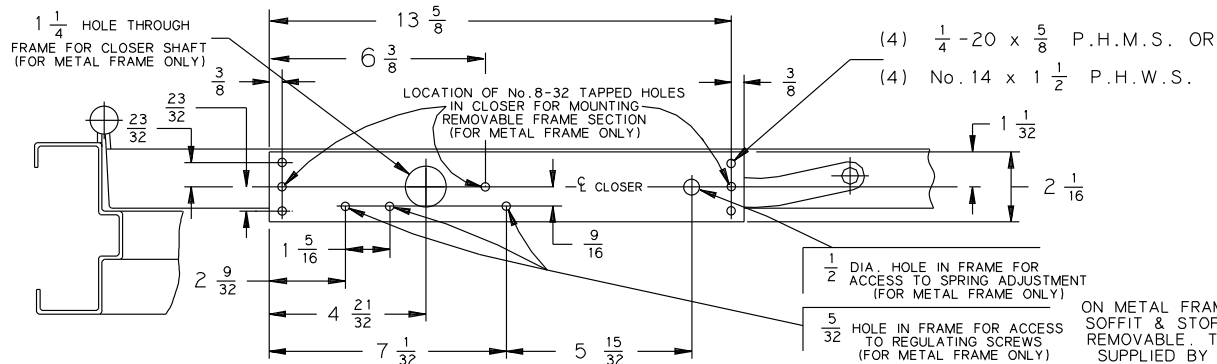
Table of Sizes

Maximum Door Width		
Exterior Doors	Interior Doors	Catalog No. of Closers
----		2011
30 (765 mm)	38 (965 mm)	2013
36 (915 mm)	48 (1220 mm)	2014
42 (1065 mm)	54 (1370 mm)	2015
48 (1220 mm)	60 (1525 mm)	2016

7. HOLD OPEN ADJUSTMENT: Change the hold open position by removing screws (1) and then (3). Locate to required position as shown. (See illustration for hold-open spring clip position.) Install screw (3) securely. Tip cam (2) into track and locate as shown. Install long green screw (1) securely. Push door into hold open position. For INCREASED HOLDING POWER, loosen long green screw (1), slide cam (2) TOWARD LATCH, retighten long green screw (1) securely. For DECREASED HOLDING POWER, loosen long green screw (1), slide cam (2) TOWARD HINGE edge of door, retighten long green screw (1) securely.



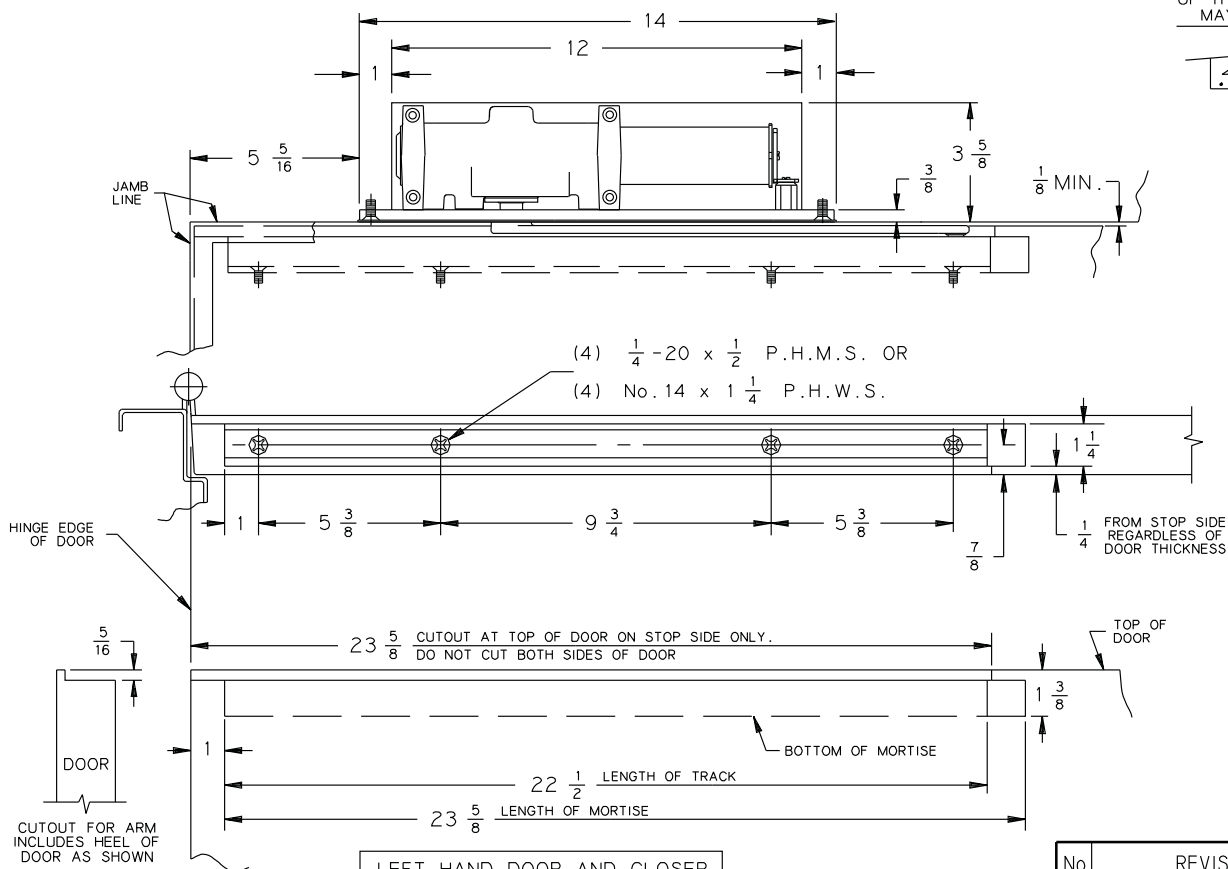
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18755 Rev. 01/14-j



(4) $\frac{1}{4}$ - 20 x $\frac{5}{8}$ P.H.M.S. OR
(4) No. 14 x $1\frac{1}{2}$ P.H.W.S.

2011 } NON HOLD OPEN (90°-180°)
2013 }
2014 } H 90 (85°-110°)
2015 } MAX. OPENING 180°
2016 }

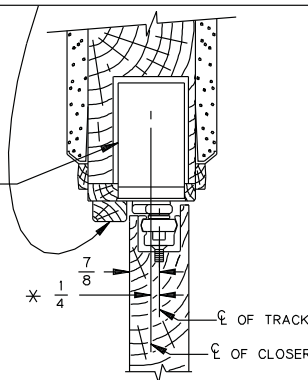
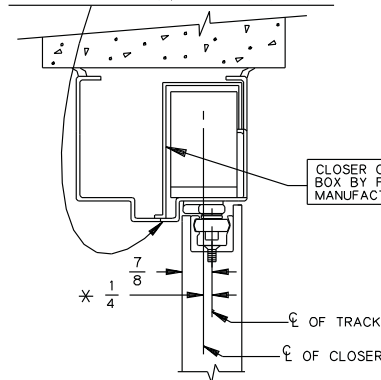
AUXILIARY STOP RECOMMENDED



(4) $\frac{1}{4}$ - 20 x $\frac{1}{2}$ P.H.M.S. OR
(4) No. 14 x $1\frac{1}{4}$ P.H.W.S.

ON METAL FRAMING, THE SECTION OF SOFFIT & STOP AT CLOSER MUST BE REMOVABLE. THIS SECTION MUST BE SUPPLIED BY THE FRAME MFR. TO INSURE CONFORMITY WITH REMAINDER OF THE FRAME, CONTOUR OF FRAME MAY VARY FROM THAT SHOWN.

ON WOOD FRAMING A METAL FINISH PLATE IS SUPPLIED BY LCN CLOSERS TO COVER ENTIRE CLOSER. IF APPLIED STOP IS USED THE ENTIRE HEAD STOP SHOULD BE SCREWED IN PLACE SO IT WILL BE REMOVABLE. THIS MAKES CUTTING OF STOP OVER CLOSER UNNECESSARY.



*: $\frac{1}{4}$ DIMENSION MAY BE INCREASED TO $\frac{7}{8}$ TO ACCOMMODATE VARYING WALL THICKNESSES. SUBMIT DETAILS TO LCN FOR SPECIAL INSTRUCTIONS.

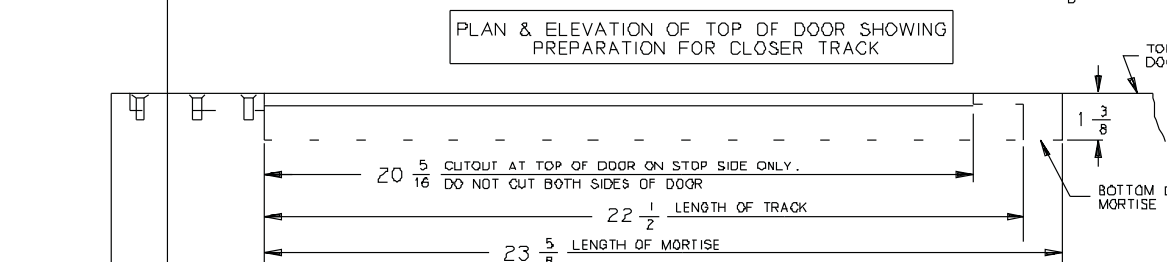
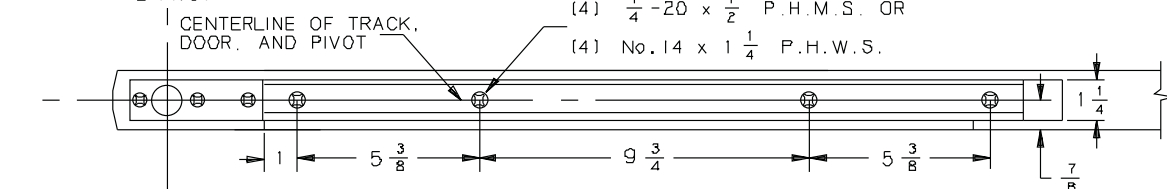
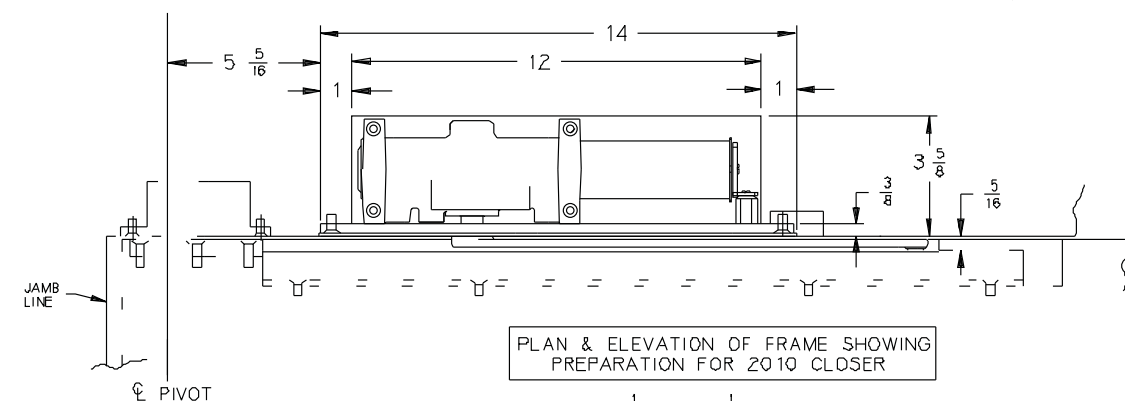
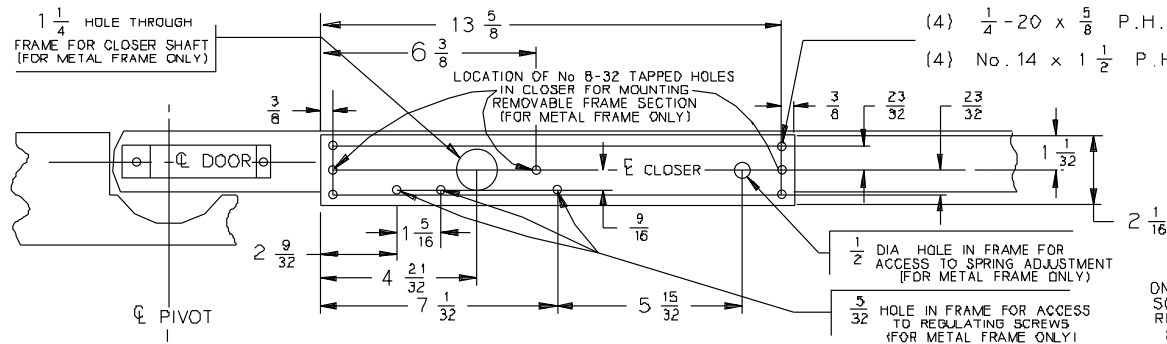
NOTES:

1. FOR 180° OPENINGS, MAX. ALLOWABLE BUTT SIZE IS 5" x 5".
2. MIN. STOP THICKNESS $\frac{1}{2}$ "
3. $\frac{1}{8}$ " DOOR TO SOFFIT CLEARANCE REQUIRED.
4. REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOORS & FRAMES.
5. WITH 2" HEADER ON HOLLOW METAL FRAMES, THE HEADFRAME MUST BE MORTISED.

LEFT HAND DOOR AND CLOSER SHOWN, RIGHT HAND OPPOSITE

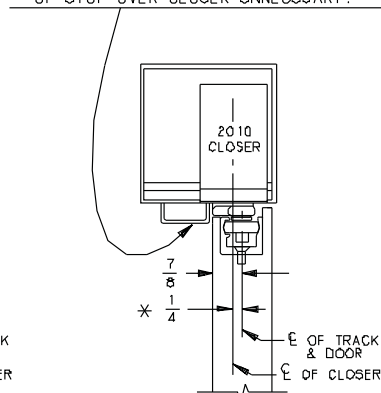
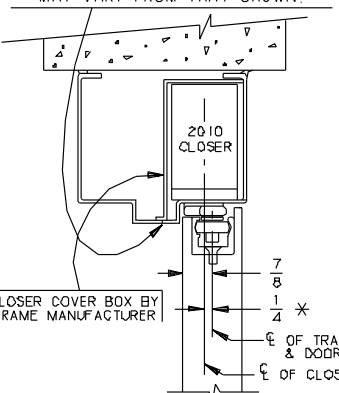
inch	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{23}{32}$	$\frac{7}{8}$	1	$1\frac{1}{32}$	$1\frac{1}{4}$	$1\frac{5}{16}$	$1\frac{3}{8}$	$1\frac{1}{2}$
mm	3	4	6	8	10	13	14	16	18	22	25	26	32	33	35	38
inch	2	$2\frac{1}{16}$	$2\frac{9}{32}$	$2\frac{19}{32}$	$3\frac{5}{8}$	$4\frac{1}{4}$	$5\frac{1}{16}$	$5\frac{3}{8}$	$7\frac{1}{32}$	$7\frac{1}{4}$	$9\frac{3}{4}$	12	$13\frac{1}{4}$	14	$22\frac{1}{2}$	$23\frac{5}{8}$
mm	51	52	58	66	92	118	135	137	179	184	248	305	337	356	572	600

No.	REVISION	BY	DATE	LCN®	DRW BY CTB 1/94
8	TRACK MOUNTING HOLES RELOCATED	DRM	6/90		DO NOT SCALE
9	4 IN. HEADER WAS 2 IN.	CTB	11/90	OVERHEAD CONCEALED CLOSER WITH CONCEALED ARM & TRACK	2010
10	REVISED SIZE CHARTS	CTB	6/92		
11	SIZE 1 UPDATE / CAD CONVERSION	CTB	1/94		
12	REMOVED MOUNTING BRACKETS	AMM	11/97		



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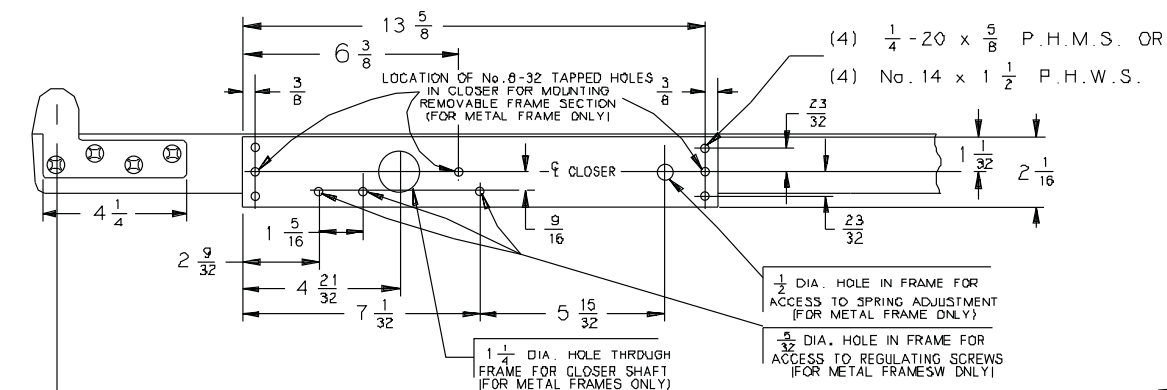
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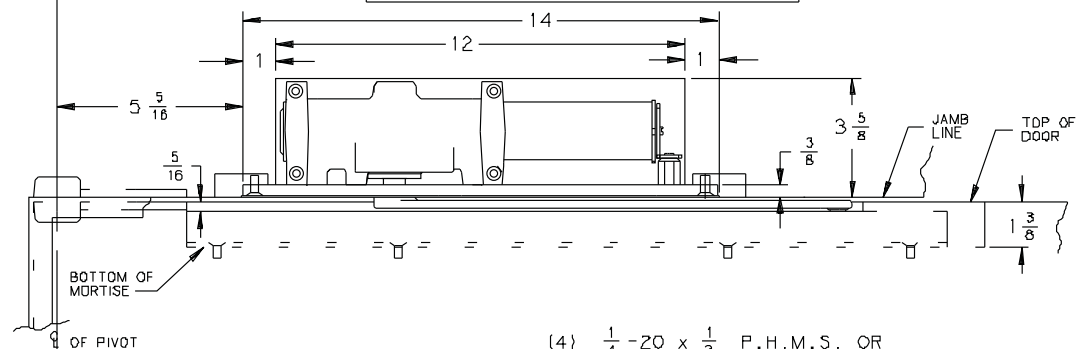
*: 1/4 DIMENSION MAY BE INCREASED TO ACCOMMODATE VARYING WALL THICKNESSES. SUBMIT DETAILS TO LCN FOR SPECIAL INSTRUCTIONS.

- NOTES -
- 1 - MINIMUM STOP THICKNESS 1/2"
 - 2 - 1/8" DOOR TO SOFFIT CLEARANCE REQUIRED.
 - 3 - REINFORCING PER ANSI/SOI-100 RECOMMENDED FOR HOLLOW METAL DOOR AND FRAMES.
 - 4 - THIS PRODUCT REQUIRES A 4" MINIMUM FRAME HEADER CONSULT FACTORY IF HEAD JAMB IS LESS THAN 4".

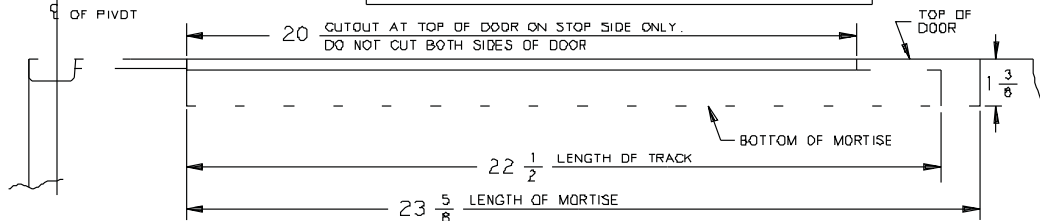
inch	1/4	5/16	3/8
mm	3	4	6
inch	5/16	3/8	1/2
mm	8	10	13
inch	9/16	5/8	3/4
mm	14	16	19
inch	5/8	3/4	7/8
mm	16	19	22
inch	11/16	7/8	1
mm	18	22	25
inch	3/4	1	1 1/4
mm	19	25	32
inch	7/8	1 1/8	1 1/4
mm	22	33	35
inch	1	1 1/4	1 1/2
mm	25	32	38
inch	1 1/8	1 1/2	1 5/8
mm	33	38	41
inch	1 1/4	1 5/8	2
mm	35	41	52
inch	1 1/2	2	2 1/4
mm	38	52	58
inch	1 5/8	2 1/4	2 3/4
mm	41	58	66
inch	2	2 1/4	2 3/4
mm	52	58	66
inch	2 1/4	2 3/4	3
mm	58	66	76
inch	2 3/4	3	3 1/4
mm	66	76	86
inch	3	3 1/4	3 1/2
mm	76	86	91
inch	3 1/4	3 1/2	3 3/4
mm	86	91	95
inch	3 1/2	3 3/4	4
mm	91	95	102
inch	3 3/4	4	4 1/4
mm	95	102	110
inch	4	4 1/4	4 1/2
mm	102	110	114
inch	4 1/4	4 1/2	4 3/4
mm	110	114	121
inch	4 1/2	4 3/4	5
mm	114	121	127
inch	4 3/4	5	5 1/4
mm	121	127	137
inch	5	5 1/4	5 1/2
mm	127	137	140
inch	5 1/4	5 1/2	5 3/4
mm	137	140	146
inch	5 1/2	5 3/4	6
mm	140	146	152
inch	5 3/4	6	6 1/4
mm	146	152	161
inch	6	6 1/4	6 1/2
mm	152	161	165
inch	6 1/4	6 1/2	6 3/4
mm	161	165	171
inch	6 1/2	6 3/4	7
mm	165	171	178
inch	6 3/4	7	7 1/4
mm	171	178	184
inch	7	7 1/4	7 1/2
mm	178	184	190
inch	7 1/4	7 1/2	7 3/4
mm	184	190	198
inch	7 1/2	7 3/4	8
mm	190	198	203
inch	7 3/4	8	8 1/4
mm	198	203	211
inch	8	8 1/4	8 1/2
mm	203	211	216
inch	8 1/4	8 1/2	8 3/4
mm	211	216	222
inch	8 1/2	8 3/4	9
mm	216	222	230
inch	8 3/4	9	9 1/4
mm	222	230	238
inch	9	9 1/4	9 1/2
mm	230	238	241
inch	9 1/4	9 1/2	9 3/4
mm	238	241	250
inch	9 1/2	9 3/4	10
mm	241	250	254
inch	9 3/4	10	10 1/4
mm	250	254	265
inch	10	10 1/4	10 1/2
mm	254	265	267
inch	10 1/4	10 1/2	10 3/4
mm	265	267	276
inch	10 1/2	10 3/4	11
mm	267	276	280
inch	10 3/4	11	11 1/4
mm	276	280	290
inch	11	11 1/4	11 1/2
mm	280	290	293
inch	11 1/4	11 1/2	11 3/4
mm	290	293	302
inch	11 1/2	11 3/4	12
mm	293	302	305
inch	11 3/4	12	12 1/4
mm	302	305	315
inch	12	12 1/4	12 1/2
mm	305	315	318
inch	12 1/4	12 1/2	12 3/4
mm	315	318	328
inch	12 1/2	12 3/4	13
mm	318	328	330
inch	12 3/4	13	13 1/4
mm	328	330	341
inch	13	13 1/4	13 1/2
mm	330	341	344
inch	13 1/4	13 1/2	13 3/4
mm	341	344	354
inch	13 1/2	13 3/4	14
mm	344	354	356
inch	13 3/4	14	14 1/4
mm	354	356	366
inch	14	14 1/4	14 1/2
mm	356	366	368
inch	14 1/4	14 1/2	14 3/4
mm	366	368	380
inch	14 1/2	14 3/4	15
mm	368	380	381
inch	14 3/4	15	15 1/4
mm	380	381	393
inch	15	15 1/4	15 1/2
mm	381	393	396
inch	15 1/4	15 1/2	15 3/4
mm	393	396	406
inch	15 1/2	15 3/4	16
mm	396	406	408
inch	15 3/4	16	16 1/4
mm	406	408	420
inch	16	16 1/4	16 1/2
mm	408	420	423
inch	16 1/4	16 1/2	16 3/4
mm	420	423	435
inch	16 1/2	16 3/4	17
mm	423	435	437
inch	16 3/4	17	17 1/4
mm	435	437	450
inch	17	17 1/4	17 1/2
mm	437	450	452
inch	17 1/4	17 1/2	17 3/4
mm	450	452	465
inch	17 1/2	17 3/4	18
mm	452	465	467
inch	17 3/4	18	18 1/4
mm	465	467	480
inch	18	18 1/4	18 1/2
mm	467	480	483
inch	18 1/4	18 1/2	18 3/4
mm	480	483	496
inch	18 1/2	18 3/4	19
mm	483	496	498
inch	18 3/4	19	19 1/4
mm	496	498	510
inch	19	19 1/4	19 1/2
mm	498	510	513
inch	19 1/4	19 1/2	19 3/4
mm	510	513	525
inch	19 1/2	19 3/4	20
mm	513	525	527
inch	19 3/4	20	20 1/4
mm	525	527	540
inch	20	20 1/4	20 1/2
mm	527	540	543
inch	20 1/4	20 1/2	20 3/4
mm	540	543	558
inch	20 1/2	20 3/4	21
mm	543	558	560
inch	20 3/4	21	21 1/4
mm	558	560	573
inch	21	21 1/4	21 1/2
mm	560	573	577
inch	21 1/4	21 1/2	21 3/4
mm	573	577	593
inch	21 1/2	21 3/4	22
mm	577	593	598
inch	21 3/4	22	22 1/4
mm	593	598	610
inch	22	22 1/4	22 1/2
mm	598	610	614
inch	22 1/4	22 1/2	22 3/4
mm	610	614	630
inch	22 1/2	22 3/4	23
mm	614	630	635
inch	22 3/4	23	23 1/4
mm	630	635	650
inch	23	23 1/4	23 1/2
mm	635	650	655
inch	23 1/4	23 1/2	23 3/4
mm	650	655	670
inch	23 1/2	23 3/4	24
mm	655	670	673
inch	23 3/4	24	24 1/4
mm	670	673	690
inch	24	24 1/4	24 1/2
mm	673	690	695
inch	24 1/4	24 1/2	24 3/4
mm	690	695	710
inch	24 1/2	24 3/4	25
mm	695	710	717
inch	24 3/4	25	25 1/4
mm	710	717	730
inch	25	25 1/4	25 1/2
mm	717	730	735
inch	25 1/4	25 1/2	25 3/4
mm	730	735	750
inch	25 1/2	25 3/4	26
mm	735	750	757
inch	25 3/4	26	26 1/4
mm	750	757	770
inch	26	26 1/4	26 1/2
mm	757	770	777
inch	26 1/4	26 1/2	26 3/4
mm	770	777	790
inch	26 1/2	26 3/4	27
mm	777	790	798
inch	26 3/4	27	27 1/4
mm	790	798	810
inch	27	27 1/4	27 1/2
mm	798	810	815
inch	27 1/4	27 1/2	27 3/4
mm	810	815	830
inch	27 1/2	27 3/4	28
mm	815	830	837
inch	27 3/4	28	28 1/4
mm	830	837	850
inch	28	28 1/4	28 1/2
mm	837	850	855
inch	28 1/4	28 1/2	28 3/4
mm	850	855	870
inch	28 1/2	28 3/4	29
mm	855	870	877
inch	28 3/4	29	29 1/4
mm	870	877	890
inch	29	29 1/4	29 1/2
mm	877	890	895
inch	29 1/4	29 1/2	29 3/4
mm	890	895	910
inch	29 1/2	29 3/4	30
mm	895	910	917
inch	29 3/4	30	30 1/4
mm	910	917	930
inch	30	30 1/4	30 1/2
mm	917	930	935
inch	30 1/4	30 1/2	30 3/4
mm	930	935	950
inch	30 1/2	30 3/4	31
mm	935	950	957
inch	30 3/4	31	31 1/4
mm	950	957	970
inch	31	31 1/4	31 1/2
mm	957	970	975
inch	31 1/4	31 1/2	31 3/4
mm	970	975	990
inch	31 1/2	31 3/4	32
mm	975	990	998
inch	31 3/4	32	32 1/4
mm	990	998	1010
inch	32	32 1/4	32 1/2
mm	998	1010	1015
inch	32 1/4	32 1/2	32 3/4
mm	1010	1015	1030
inch	32 1/2	32 3/4	33
mm	1015	1030	1037
inch	32 3/4	33	33



PLAN & ELEVATION OF FRAME SHOWING PREPARATION FOR 2010 CLOSER



PLAN & ELEVATION OF TOP OF DOOR SHOWING PREPARATION FOR CLOSER TRACK



inch	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1	1 1/16	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4
mm	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
inch	2 1/16	2 1/8	2 1/4	2 3/8	2 1/2	2 5/8	2 3/4	2 7/8	3	3 1/16	3 1/8	3 1/4	3 3/8	3 1/2	3 5/8	3 3/4	3 7/8	4	4 1/16	4 1/8	4 1/4	4 3/8	4 1/2	4 5/8	4 3/4
mm	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116

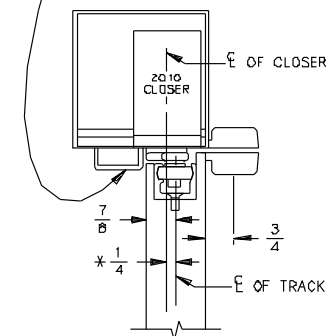
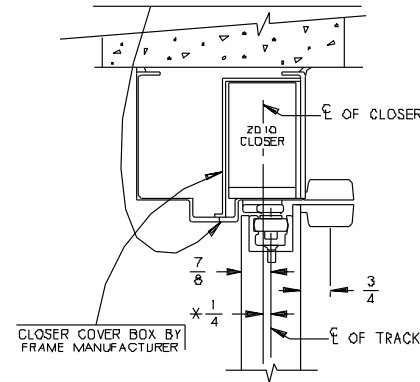
2011 OP } NON HOLD OPEN (up to 110°)
 2013 OP } H-90 (75° to 90°)
 2014 OP }
 2015 OP } MAX. OPENING 110°
 2016 OP }

AUXILIARY STOP RECOMMENDED

LEFT HAND DOOR AND CLOSER SHOWN. RIGHT HAND OPPOSITE 6/96

ON METAL FRAMING, THE SECTION OF SOFFIT & STOP AT CLOSER MUST BE REMOVABLE. THIS SECTION MUST BE SUPPLIED BY THE FRAME MFR. TO INSURE CONFORMITY WITH REMAINDER OF THE FRAME, CONTOUR OF FRAME MAY VARY FROM THAT SHOWN

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NOTES -

- 1 - 1/8" DOOR TO STOP CLEARANCE REQUIRED.
- 2 - REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOOR AND FRAMES.
- 3 - MINIMUM STOP THICKNESS 1/2".
- 4 - THIS PRODUCT REQUIRES A 4" MINIMUM FRAME HEADER. CONSULT FACTORY IF HEAD JAMB IS LESS THAN 4".

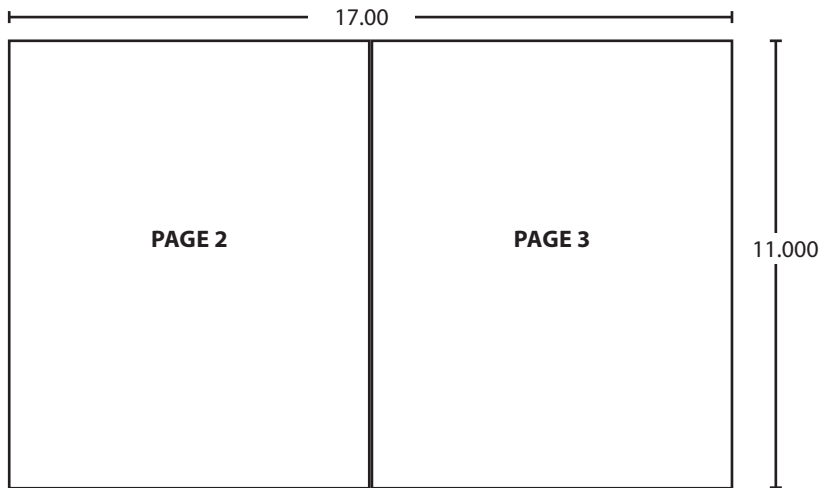
No.	REVISION	BY	DATE
1	CAD CONVERSION	CTB	6/93
2	TEMPLATE UPDATES	JEJ	6/96
3	TEMPLATE UPDATES	AMM	2/98
4	TEMPLATE UPDATES	AMM	9/99
5	REMOVE PIVOT INFO.	AMM	5/01

LCN®

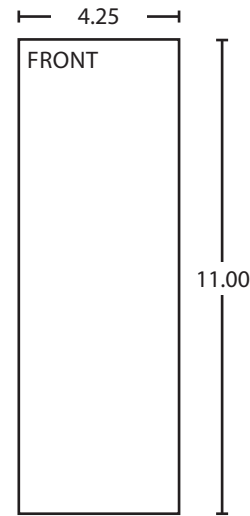
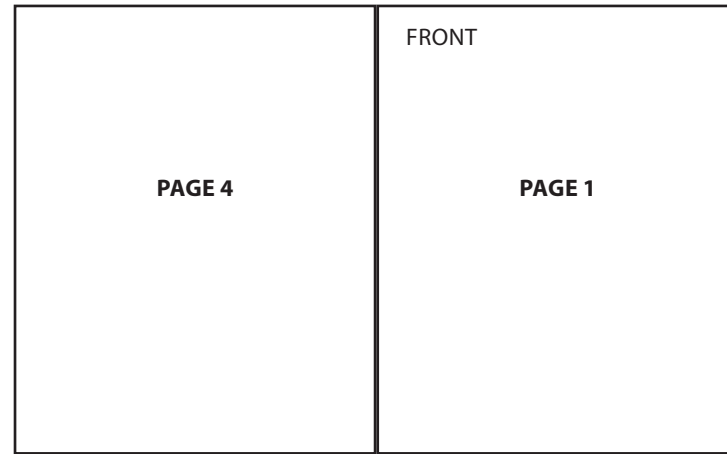
APP BY JEJ 6/96
DO NOT SCALE

OVERHEAD CONCEALED CLOSER WITH CONCEALED ARM & OFFSET PIVOTS

2010-OP



BEGINNING SHEET



FOLDED SHEET

Additional Notes:
1. None

Revision History						Revision Description: J > Revised artwork			
J	K	L	M	N	P				
043228									
Material						Edited By	Approved By	EC Number	Release Date
White Paper						D. Myers	M. Sasso	043228	01-01-14
Notes						Title			
1. printed two sides 2. printed black 3. tolerance $\pm .13$ 4. printed in country may vary 5. drawings not to scale						2010 Series Instruction Sheet			
						Creation Date 05-10-10	Number 18755	Revision J	
						Created By N/A	Activity 3899 Hancock Expwy Security, CO 80911	© Allegion 2014	
						Software: InDesign CS6			