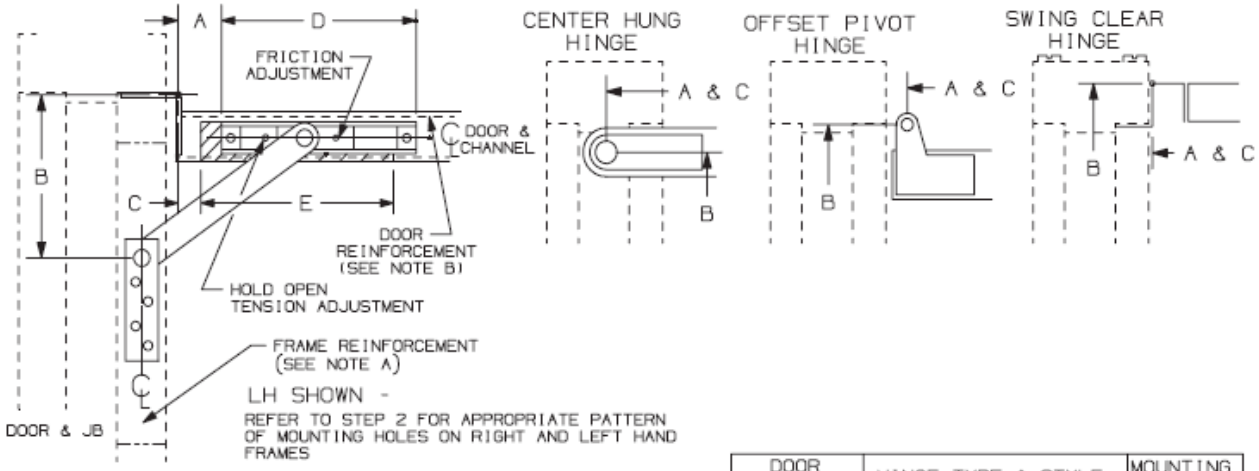
OVERHEAD HOLDERS OR STOPS MUST BE INSTALLED BEFORE CLOSERS

1. A. DETERMINE THE MOUNTING BEING USED FROM ILLUSTRATION BELOW.
   B. SELECT MOUNTING GROUP NUMBER FROM THE CHART BELOW. MOST CONTINUOUS HINGES ARE GROUPED WITH 4 1/2" WIDE BUTT OR 4 1/2" SWING CLEAR HINGE.
   C. USING THE MOUNTING GROUP NUMBER AND THE OVERHEAD HOLDER OR STOP SIZE AND THE DEGREE OF OPENING DESIRED, FIND "A","B","C","D", AND "E" DIMENSIONS FROM CHART ON PAGE 3. FOR DEAD STOP ADD 9/16"(14) TO THE "A" DIMENSION FROM THE CHART. SEE NOTE D FOR INFORMATION ABOUT DEAD STOP.



NOTES:

A. HOLLOW METAL FRAMES SHOULD BE PROPERLY REINFORCED WITH A 3/16"(5) MINIMUM THICKNESS BY 12"(305) MINIMUM LENGTH PLATE.

B. HOLLOW METAL DOORS SHOULD BE PROPERLY REINFORCED WITH A 3/16"(5) MINIMUM THICKNESS PLATE.

C. STOP ONLY UNITS ARE PERMITTED ON MANY FIRE DOOR APPLICATIONS. HOWEVER, MECHANICAL HOLD-OPEN DEVICES THAT REQUIRE MANUAL RELEASE ARE NOT PERMITTED FOR USE ON ANY FIRE DOOR AS OUTLINED ON NFPA80 Ⓡ OR NFPA101 Ⓡ. CONTACT GLYNN-JOHNSON OR YOUR LOCAL REPRESENTATIVE FOR ASSISTANCE.

D. DEAD STOP (DS) TEMPLATING MAY BE USED ON HOLD OPEN, FRICTION AND STOP ONLY MODELS, BUT SHOULD NOT BE USED ON "SE" MODELS. THE DS POSITION IS REACHED WHEN THE SHOCK SPRING IS FULLY COMPRESSED. WHEN DS TEMPLATING IS USED, THE INITIAL DEGREE OF STOP WILL BE 5°-7° LESS THAN THE DS OPENING. FOR USE ON DOORS OPENING BACK-TO-BACK, AGAINST A WALL OR OBSTRUCTION.

100 ADJUSTMENTS:

HOLD-OPEN TENSION ADJUSTMENT (HOLD-OPEN UNIT ONLY)- USING A 1/8" BALL END ALLEN WRENCH, TURN SCREW SHOWN IN BOTTOM OF CHANNEL CLOCKWISE TO INCREASE HOLD-OPEN TENSION AND COUNTERCLOCKWISE TO DECREASE HOLD-OPEN TENSION.

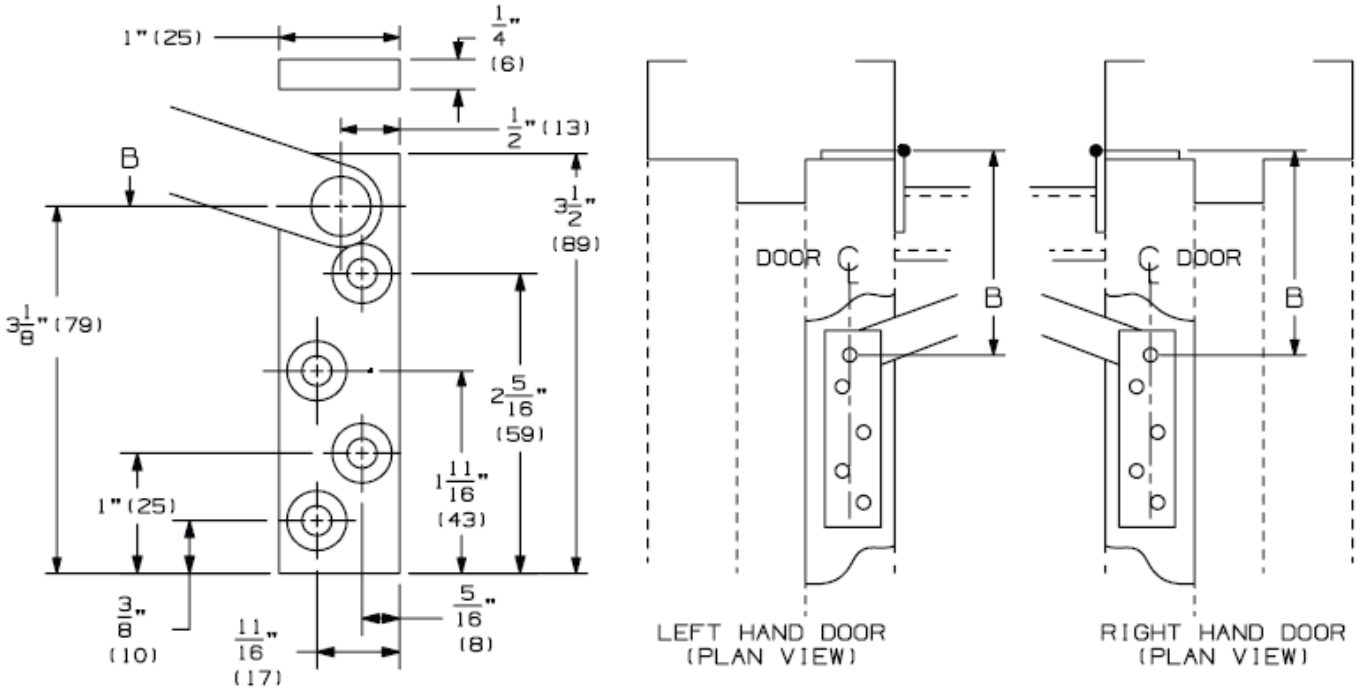
FRICTION TENSION ADJUSTMENT (FRICTION UNIT ONLY)- USING A 1/8" ALLEN WRENCH, HOLD SCREW SHOWN IN PLACE WHILE USING A 7/16" WRENCH TO TURN JAMB NUT COUNTERCLOCKWISE UNTIL LOOSE. TURN SCREW CLOCKWISE TO INCREASE FRICTION TENSION AND TURN COUNTERCLOCKWISE TO DECREASE THE FRICTION TENSION. WHILE HOLDING THE SCREW IN PLACE, TURN THE JAMB NUT CLOCKWISE UNTIL TIGHT.

DIMENSIONS IN ( ) ARE IN MILLIMETERS

DOOR THICKNESS	HINGE TYPE & STYLE	MOUNTING GROUP
1 3/4" (44mm)	4" WIDE BUTT	2
	4 1/2" WIDE BUTT	2
	5" WIDE BUTT	1
	3/4" OFFSET PIVOT	2
	4" SWINGCLEAR	1
	4 1/2" SWINGCLEAR	2
	5" SWINGCLEAR	2
	CENTERHUNG PIVOT	3
2" (51mm)	4 1/2" WIDE BUTT	2
	5" WIDE BUTT	1
	3/4" OFFSET PIVOT	1
	4 1/2" SWINGCLEAR	2
	5" SWINGCLEAR	2
	SOSS 220	2
	CENTERHUNG PIVOT	3
2 1/4" (57mm)	4 1/2" WIDE BUTT	2
	5" WIDE BUTT	1
	3/4" OFFSET PIVOT	1
	4 1/2" SWINGCLEAR	1
	5" SWINGCLEAR	1
	SOSS 220	2
	CENTERHUNG PIVOT	3

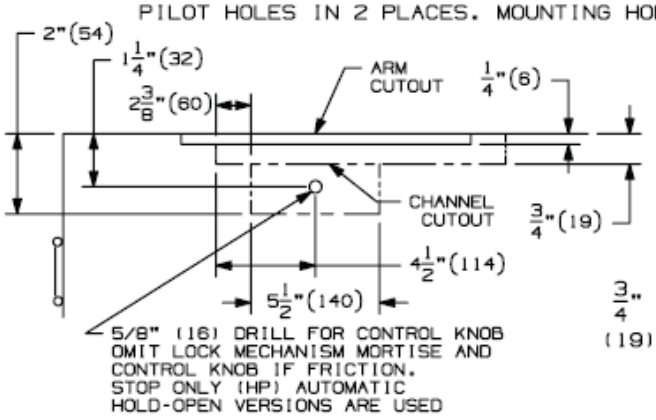
SCREW DETAILS			
	QTY	WOOD	METAL
DOOR	2	#18 x 3" PPHWS	5/16"-18 x 1 1/2" PPHMS
JAMB	4	#14 x 1 1/2" FPHSMS	1/4"-20 x 3/4" FPHMS

2. A. LOCATE "B" DIMENSION ON THE FRAME. NOTE THAT THE "B" DIMENSION IS MEASURED FROM THE CENTERLINE OF THE HINGE AS SHOWN.
   B. MORTISE FOR THE JAMB BRACKET AS SHOWN. REFER TO LEFT AND RIGHT HAND PLAN VIEWS FOR APPROPRIATE HOLE PATTERN.
   C. FOR METAL FRAMES, USE A #7 DRILL AND A 1/4"-20 TAP IN 4 PLACES. FOR WOOD FRAMES, DRILL 3/16" PILOT HOLE IN 4 PLACES.

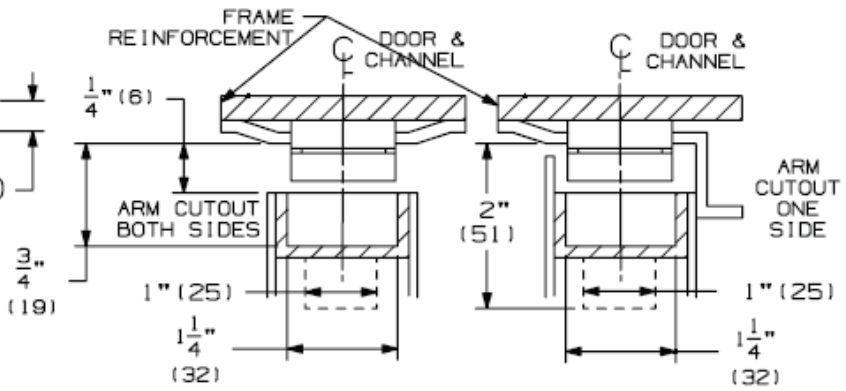


REFER TO ILLUSTRATION BELOW AND ON SHT 1 FOR THE FOLLOWING NOTES:

3. A. LOCATE "A" AND "D" DIMENSIONS ON THE CENTERLINE OF THE DOOR. NOTE THAT THE "A" DIMENSION IS MEASURED FROM THE CENTERLINE OF THE HINGE AS SHOWN.
   B. MORTISE FOR THE CHANNEL AS SHOWN IF REQUIRED. FOR 100H HOLD-OPEN VERSION, MORTISE FOR HOLD-OPEN LOCK MECHANISM AND DRILL 5/8" (16) DIAMETER HOLE FOR CONTROL KNOB AS SHOWN. (WHEN HP HOLD-OPEN, F FRICTION OR S STOP UNIT IS SUPPLIED, ADDITIONAL MORTISE FOR HOLD-OPEN MECHANISM AND CONTROL KNOB ARE NOT REQUIRED.)
   C. LOCATE "C" AND "E" DIMENSIONS ON THE TOP OF THE DOOR. NOTE THAT THE "C" DIMENSION IS MEASURED FROM THE CENTERLINE OF THE HINGE AS SHOWN.
   D. MORTISE FOR ARM CUTOUT AS SHOWN.
   E. FOR METAL DOORS, USE A F DRILL AND 5/16-18 TAP IN 2 PLACES. FOR WOOD DOORS, DRILL 1/4" PILOT HOLES IN 2 PLACES. MOUNTING HOLES SHOULD BE PREPARED IN THE FIELD.



FRONT ELEVATION



CROSS SECTION IN CLOSED POSITION

4. A. INSTALL THE CHANNEL IN THE DOOR WITH THE SHOCK SPRING TOWARDS THE HINGE EDGE OF DOOR.
   B. INSTALL JAMB BRACKET IN FRAME.
   C. FOR 100H HOLD-OPEN VERSION ONLY, EPOXY (NOT PROVIDED) EYELET IN 5/8" (16) HOLE.
   D. FOR 100H HOLD-OPEN VERSION ONLY, PLACE SERRATED KNOB AND KNOB SPACER OVER CAP SCREW AS SHOWN. THREAD ASSEMBLY THROUGH 5/8" (16) HOLE IN DOOR ONTO LOCK.

DIMENSIONS IN ( ) ARE IN MILLIMETERS

MOUNTING GROUPS 1, 2 & 3
100 SERIES CONCEALED OVERHEAD STOP & HOLDER

CAUTION: "A", "B", & "C" DIMENSIONS ARE MEASURED FROM THE CENTERLINE OF PIVOT, NOT EDGE OF DOOR

		DEGREE	85 HO				90 HO				95 HO				100 HO				105 HO				110 HO					
	DIM.	DOOR OPENING	A	B	C	E	A	B	C	E	A	B	C	E	A	B	C	E	A	B	C	E	A	B	C	E	D	I
MOUNTING GROUP #1	101	IN. 18-23 */	2 5/16	3 7/16	0	14	2 1/16	3 3/16	0	14	1 7/8	3	0	13 3/4	-	-	-	-	-	-	-	-	-	-	-	-	14 3/8	10
		mm 457-584 */	59	87	0	356	52	81	0	356	48	76	0	349	-	-	-	-	-	-	-	-	-	-	-	-	365	254
	102	IN. 23 1/16-27*	4 1/4	4 1/2	2	15 1/2	3 15/16	4 1/8	1 3/4	15 1/2	3 11/16	3 15/16	1 1/2	15 1/2	3 7/16	3 11/16	1 1/4	15 1/2	3 1/4	3 1/2	1	15 1/2	-	-	-	-	15 1/2	12
		mm 585-686 *	108	114	51	394	100	105	44	394	94	100	38	394	87	94	32	394	83	89	25	394	-	-	-	-	394	305
	103	IN. 27 1/16-33	7 15/16	5 5/8	4 1/4	17 7/8	7 9/16	5 1/4	3 7/8	17 7/8	7 1/4	4 15/16	3 9/16	17 7/8	6 15/16*	4 5/8*	3 1/8*	18*	6 11/16*	4 7/16*	2 15/16*	17 7/8*	6 1/2*	4 3/16*	2 11/16*	18*	16 3/4	15 3/4
		mm 687-838	202	143	108	454	192	133	98	454	184	125	90	454	176	117	78	457	170	113	75	454	165	106	68	457	425	400
	104	IN. 33 1/16-39	12 1/8	8 5/8	5 1/4	22	11 11/16	8 1/8	4 3/4	22 1/8	11 5/16	5 13/16	4 7/16	22	11	5 7/16	3 15/16	22 1/4	10 3/4	5 1/8	3 5/8	22 1/4	10 1/2	4 15/16	3 7/16	22 1/4	17 3/4	20
		mm 839-991	308	168	133	559	297	156	121	562	287	148	113	559	279	138	100	565	273	130	82	565	267	125	87	565	451	508
	105	IN. 39 1/16-45	18	8 7/16	7 1/16	28 1/8	17 7/16	7 7/8	6 1/2	28 1/8	17	7 7/16	6 1/16	28 1/8	16 9/16	7	5 1/2	28 1/4	16 3/16	6 9/16	5 1/16	28 1/4	15 7/8	6 5/16	4 13/16	28 1/4	19 3/4	26
		mm 992-1143	457	214	179	714	443	200	185	714	432	189	154	714	421	178	140	718	411	167	129	718	403	160	122	718	502	660
	106	IN. 45 1/16-54	24	9 11/16	8 5/16	34 1/8	23 3/8	9	7 5/8	34 1/8	22 3/4	8 1/2	7 1/8	34 1/8	22 5/16	7 15/16	6 7/16	34 1/4	21 7/8	7 9/16	6 1/16	34 1/4	21 1/2	7 3/16	5 11/16	34 1/4	21 1/4	32
		mm 1144-1372	810	246	211	867	594	229	194	867	578	215	181	864	567	202	164	895	556	192	154	870	548	183	144	870	533	813
MOUNTING GROUP #2	101	IN. 18-23 */	2 9/16	3 11/16	0	14 1/2	2 5/16	3 7/16	0	14	2 1/16	3 3/16	0	14	1 15/16	3	0	13 3/4	-	-	-	-	-	-	-	-	14 3/8	10
		mm 457-584 */	65	94	0	368	59	87	0	356	52	81	0	356	49	76	0	349	-	-	-	-	-	-	-	-	365	254
	102	IN. 23 1/16-27*	4 7/16	4 5/8	2	15 3/4	4 1/8	4 3/8	1 3/4	15 3/4	3 7/8	4 1/16	1 1/2	15 3/4	3 11/16	3 15/16	1 1/4	15 3/4	3 1/2	3 11/16	1	15 3/4	3 5/16	3 1/2	1	15 3/4	15 1/2	12
		mm 585-686 *	113	117	51	400	105	111	44	400	98	103	38	400	94	100	32	400	89	94	25	400	84	89	25	400	394	305
	103	IN. 27 1/16-33	8 1/8	5 13/16	4 7/16	17 7/8	7 3/4	5 7/16	4 1/16	17 7/8	7 7/16	5 1/8	3 3/4	17 7/8	7 1/8*	4 13/16*	3 5/16*	18*	6 15/16*	4 9/16*	3 1/16*	18*	6 11/16*	4 3/8*	2 7/8*	18*	16 3/4	15 3/4
		mm 687-838	206	148	113	454	197	138	103	454	189	130	95	454	181	122	84	457	176	116	78	457	170	111	73	457	425	400
	104	IN. 33 1/16-39	12 5/16	6 13/16	5 7/16	22	11 7/8	6 5/16	4 15/16	22 1/8	11 1/2	6	4 5/8	22	11 3/16	5 11/16	4 3/16	22 1/8	10 7/8	5 3/8	3 7/8	22 1/8	10 5/8	5 1/8	3 5/8	22 1/8	17 3/4	20
		mm 839-991	313	173	138	559	302	160	125	562	292	152	117	559	284	144	106	562	276	137	98	562	270	130	92	562	451	508
	105	IN. 39 1/16-45	18 1/4	8 11/16	7 5/16	28 1/8	17 5/8	8 1/8	6 3/4	28	17 1/8	7 5/8	6 1/4	28	16 3/4	7 3/16	5 11/16	28 1/4	16 3/8	6 3/4	5 1/4	28 1/4	16	6 1/2	5	28 1/8	19 3/4	26
		mm 992-1143	464	221	186	714	448	206	171	711	435	194	159	711	425	183	144	718	416	171	133	718	406	165	127	714	502	660
	106	IN. 45 1/16-54	24 1/4	9 13/16	8 7/16	34 1/4	23 1/2	9 1/4	7 7/8	34 1/4	23	8 9/16	7 3/16	34 1/4	22 1/2	8 1/8	6 5/8	34 1/4	22 1/16	7 11/16	6 3/16	34 1/4	21 11/16	7 5/16	5 13/16	34 1/4	21 1/4	32
		mm 1144-1372	616	249	214	870	597	235	200	864	584	217	183	870	572	206	168	870	560	195	157	870	551	186	148	870	533	813
MOUNTING GROUP #3	101	IN. 18-23 */	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14 3/8	10
		mm 457-584 */	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	365	254
	102	IN. 23 1/16-27*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15 1/2	12
		mm 585-686 *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	394	305
	103	IN. 33 1/16-39	8 7/8	6 5/8	5 1/4	17 3/4	8 1/2	6 1/8	4 3/4	17 7/8	8 1/8	5 7/8	4 1/2	17 3/4	7 3/16	5 1/2	4	18	7 9/16	5 1/4	3 3/4	18	7 5/16	5	3 1/2	18	16 3/4	15 3/4
		mm 839-991	225	168	133	451	216	156	121	454	206	147	114	451	198	140	102	457	192	133	95	457	186	127	89	457	425	400
	104	IN. 39 1/16-45	13 3/16	7 5/8	6 1/4	22 1/8	12 11/16	7 1/16	5 11/16	22 1/8	12 1/4	6 11/16	5 5/16	22 1/8	11 7/8	6 3/8	4 7/8	22 1/8	11 9/16	6	4 1/2	22 1/4	11 5/16	5 11/16	4 3/16	22 1/4	17 3/4	20
		mm 992-1143	335	194	159	562	322	179	144	562	311	170	135	562	302	162	124	562	294	152	114	565	287	144	106	565	451	508
	105	IN. 45 1/16-51	19 1/16	9 7/16	8 1/16	28 1/8	18 7/16	8 7/8	7 1/2	28 1/8	17 15/16	8 1/4	6 7/8	28 1/4	17 7/16	7 13/16	6 5/16	28 1/4	17 1/16	7 7/16	5 15/16	28 1/4	16 3/4	7 1/16	5 9/16	28 3/8	19 3/4	26
		mm 1144-1295	484	240	205	714	468	225	191	714	456	210	175	718	443	198	160	718	433	189	151	718	425	179	141	721	502	660
	106	IN. 51 1/16-57	25 1/16	10 3/4	9 3/8	34 1/8	24 3/8	10	8 5/8	34 1/8	23 3/4	9 3/8	8	34 1/8	23 1/4	8 13/16	7 5/16	34 3/8	22 3/4	8 7/16	6 15/16	34 3/8	22 3/8	7 15/16	6 7/16	34 3/8	21 1/4	32
		mm 1296-1448	637	273	238	867	619	254	219	867	603	238	203	867	591	224	186	873	578	214	178	870	568	202	164	873	533	813

FOR DEAD STOP ADD 9/16" (14) TO THE "A" DIMENSION
FOR SE STOPS USE HOLD-OPEN MOUNTING DIMENSIONS
HO=HOLD-OPEN FOR HOLDERS, OPENING FOR STOPS
I=ARM LENGTH FROM PIVOT CENTERLINE TO PIVOT CENTERLINE
(FOR REFERENCE ONLY)

* NOT TO BE USED WITH OFFSET PIVOTS
/ NOT TO BE USED WITH SWINGCLEAR HINGES

NOTE: DIMENSIONS IN ( ) ARE MILLIMETERS.