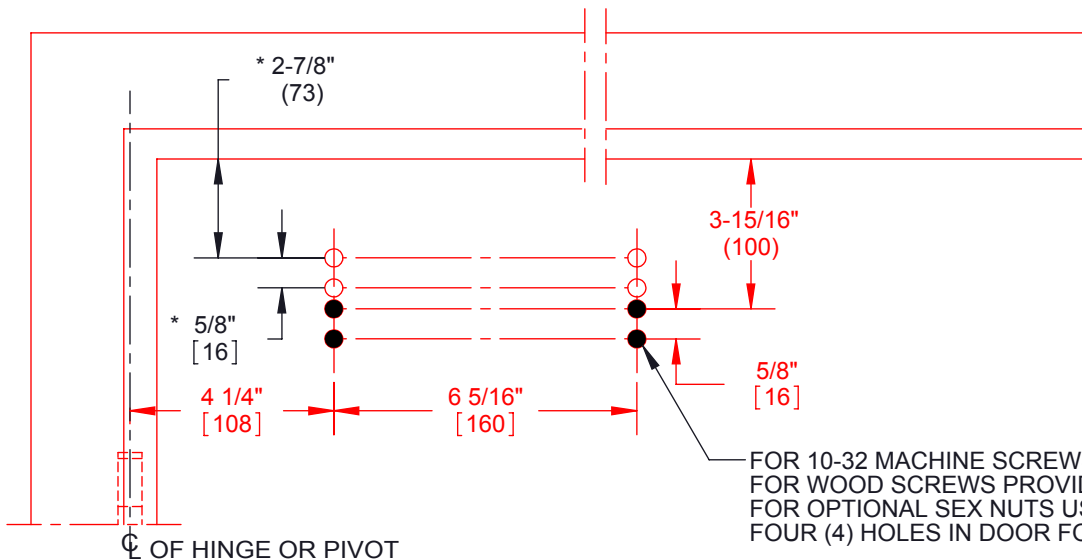


FOR 1/4-20 MACHINE SCREWS USE No.7 (0.201") DRILL & TAP
 FOR #14 WOOD SCREWS USE 5/32" DRILL
 TWO (2) HOLES IN FRAME FOR TRACK

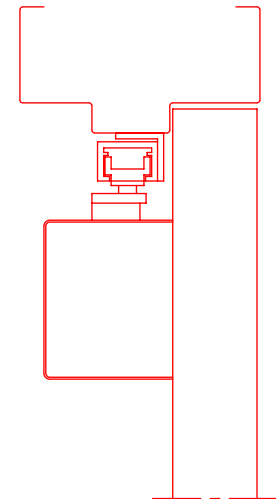
DEGREE OF DEADSTOP	DIM. "A"
85°	15-3/8 (391)
90°	14-7/8 (378)
95°	14 (356)
100°	13-1/4 (337)
105°	12-1/2 (318)
110°	11-3/4 (298)

NOTES:

1. DO NOT SCALE DRAWING.
2. DIMENSIONS ARE IN INCHES/(MM).
3. LEFT HAND DOOR SHOWN.
4. SEX NUTS RECOMMENDED FOR ATTACHMENT OF COMPONENTS ON UNREINFORCED, COMPOSITE OR LABELED FIRE DOORS.
5. TEMPLATE FOR 4-1/2" X 4-1/2" BUTT HINGES AND 3/4" OFFSET PIVOTS.
6. MINIMUM DOOR WIDTH 36".
7. *2-7/8" & *5/8" ARE OPTIONAL MOUNTING FOR NARROW TOP RAIL.



FOR 10-32 MACHINE SCREWS USE No.21 (0.159") DRILL & TAP
 FOR WOOD SCREWS PROVIDED USE 1/8" DRILL
 FOR OPTIONAL SEX NUTS USE 3/8" DRILL
 FOUR (4) HOLES IN DOOR FOR MOUNTING PLATE



DOOR CLOSER MODELS: TS93 S-PT
 PARALLEL TRACK INSTALLATION (PUSH SIDE MOUNT)



DORMA Door Controls
 Reamstown, PA 17567

REV	DESCRIPTION	BY	DATE
05/09	ORIGINAL DOCUMENT	KS	5/26/09
09/11	15-3/8 was 15-7/8, 14-7/8 was 15-1/8, 14 was 14-3/8, 11-3/4 was 11-7/8 ecn 4833	tsb	9/7/11

Always consult Dorma's web site for latest template at www.dorma-usa.com or call 1-800-523-8483.



DORMA Door Controls
 Reamstown, PA 17567