

10. FOR SPECIFIC INFORMATION CONTACT SALES.
9. COMPLETE ASSEMBLY WEIGHT W/ DECK RING, 73.7LBS/ 33.4K.
8. DOGGING PRESSURE FULLY ADJUSTABLE.
7. HANDLE POSITION TOPSIDE INDICATES WHETHER DOGGING MECHANISM IS IN OPEN OR CLOSED POSITION.
6. ALUMINUM ALLOY MECHANISM SHOWN.
5. FLUSH, WATERTIGHT CONSTRUCTION.
4. INTEGRAL TOPSIDE "T" HANDLE STANDARD, OTHER TOPSIDE ACTUATION AVAILABLE.
3. MILD STEEL COAMING FOR WELD IN DECK APPLICATIONS.
2. QUICK-ACTING, MECHANISM ENGAGES OR DISENGAGES IN QUARTER-TURN OF CENTER SPINDLE.
1. 24.7 X 24.7 CLEAR OPENING, ALL DIMENSIONS SHOWN SUBJECT TO CASTING VARIATION AND ARE REFERENCE ONLY.

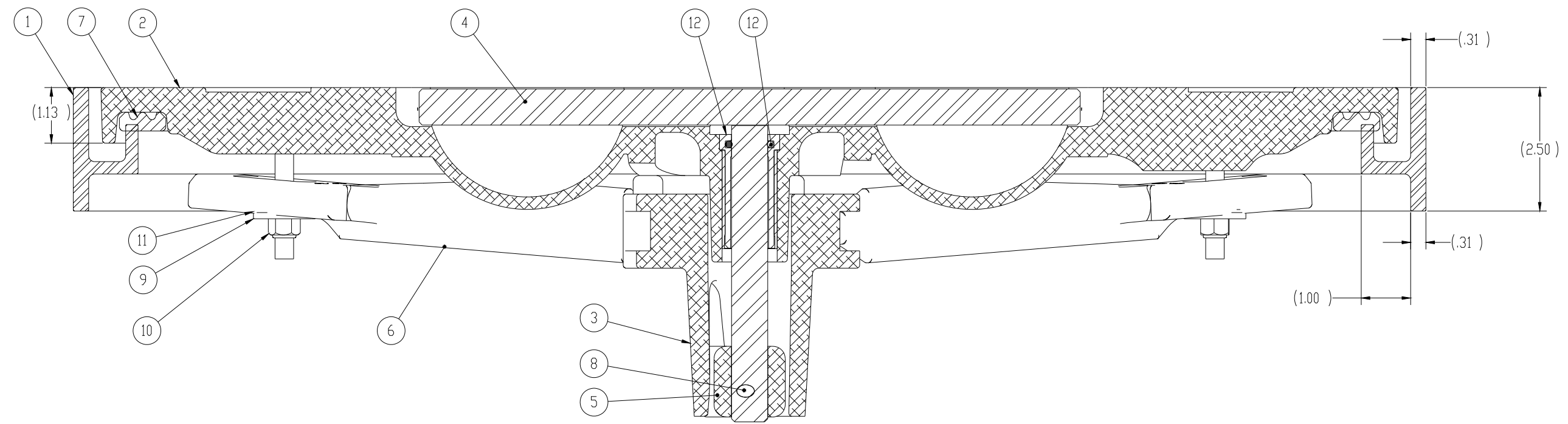
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.				FREEMAN MARINE EQUIPMENT, INC.		28336 HUNTER CREEK ROAD GOLD BEACH, OR 97444 U.S.A. PHONE: 541-247-7078 FAX: 541-247-2114 www.freemanmarine.com	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES FOR ROUGH AND CLEAR OPENING ± .125 INCH. ALL OTHERS ARE:				CONFIDENTIAL PROPERTY OF FREEMAN MARINE EQUIPMENT INC. UNAUTHORIZED USE, COPYING OR DISTRIBUTION IS STRICTLY PROHIBITED. PERMISSION OF THIS DOCUMENT APPLIES TO THE ORIGINAL AND SHALL RETURN THIS DOCUMENT UPON REQUEST. © ALL RIGHTS RESERVED 2004		CLIENT: FREEMAN MARINE	
PROJECTION				DRAWN: T KUHNHAUSEN DATE: 04MAY07 CHECKED: DATE:		TITLE: HATCH, 24.24 (K), SQUARE LIFT OUT, LIFT UP "T" HANDLE	
X XX XXX ANGLES ±.1 ±.03 ±.010 ±2°				ENGR: DATE: DESIGN ACTIVITY: DATE:		SIZE: D CAGE CODE: 64747 DRAWING NUMBER: 2424-0003 REV. B	
DO NOT SCALE DRAWING				CONTRACT NO:		SCALE: 1:2.5 CALC. WT. ACT. WT. SHEET 1 OF 3	

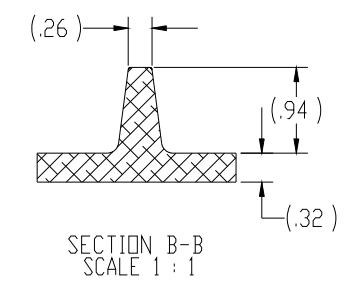
REV.	DESCRIPTION	DATE	DRAWN
-	INITIAL RELEASE	04MAY07	TLK
A	REDRAWN IN SOLIDWORKS	05AUG09	GJM
B	UPDATE GEN NOTES & BOM	18AUG11	PPC

8 7 6 5 4 3 2 1

D
C
B
A



SECTION A-A



SECTION B-B
SCALE 1 : 1

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	MATERIAL
12	1	0031-2058	BUSHING ASSY, W/O-RING, NO SLEEVE	ACETRON/RUBBER
11	4	0413-2005	WASHER, .406 X 1.250 X .062 NYLON	NYLON
10	4	0411-2032	LOCKNUT, NYLON INSERT, 3/8-16, 316 S/S	STAINLESS STEEL, 316
9	4	0411-2033	WASHER, .406 X 1.25 X .125, 316 S/S	STAINLESS STEEL, 316
8	1	0411-2004	PIN, KNURLED, 1/4 X 2-1/4, 316 S/S	STAINLESS STEEL, 316L
7	1	9885-2002	GASKET, 2424 (7.33' DF 0631-9885)	NEOPRENE
6	4	0211-2013	DOG, LOCKING ARM	ALUMINUM, 535.2-F
5	1	0112-2001	ACTUATOR, AL	ALUMINUM, 535
4	1	0021-2005	HANDLE, S/S, ROUND BAR	STAINLESS STEEL, 316
3	1	0011-2002	HUB, AL, 4 HOLE	ALUMINUM, 535.2-F
2	1	2424-3001	COVER, 2424 AL, FINISHED CASTING	ALUMINUM, A356
1	1	2424-1003	RING 2424 K	STEEL, A-36

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±.1 ±.03 ±.010 ±2°

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PHONE: 541-247-7078 FAX: 541-247-2114
www.freemarmarine.com

CLIENT: FREEMAN MARINE

TITLE: HATCH, 2424, (K), SQUARE LIFT OUT, LIFT UP "T" HANDLE

SIZE: D CAGE CODE: 64747 DRAWING NUMBER: 2424-0003 REV. B

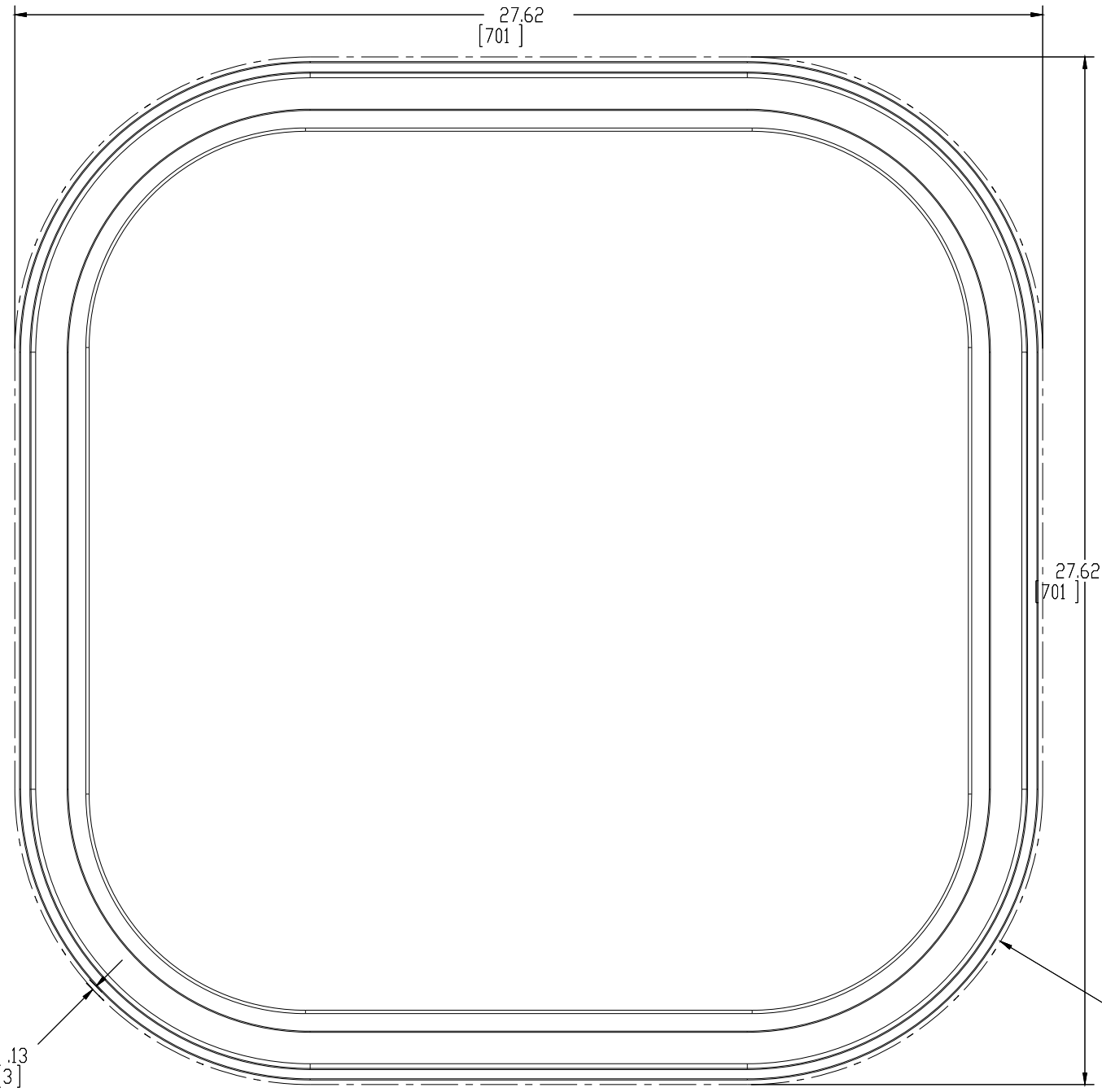
SCALE: 1:1.25 CALC. WT. ACT. WT. SHEET 2 OF 3

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DRAWN: T KUHNHAUSEN DATE: 04MAY07
CHECKED: DATE:
ENGR: DATE:
DESIGN ACTIVITY: DATE:
CONTRACT NO:

8 7 6 5 4 3 2 1

D
C
B
A



DECK CUT OUT

3. FINISH: 125 RMS MAX.
 2. BREAK SHARP EDGES AND DEBURR.
 1. MATERIAL: REF. S/A - B.O.M.
 NOTES: UNLESS OTHERWISE SPECIFIED.

CUSTOMER APPROVAL
 Signature: _____
 Date: _____
 IMPORTANT! THIS DRAWING SUPERSEDES ALL OTHER DOCUMENTS.
 By signing this approval you accept and agree that the dimensions and details shown are correct and properly fit your application, regardless of any differences between this drawing and any contract specifications. Should you see any errors in the drawing, or have any questions, please contact your Freeman Marine sales engineer for clarification.

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-	INITIAL RELEASE	04MAY07	TLK
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DRAWN: T. KUHNHAUSEN CHECKED: _____ ENGR: _____ DESIGN ACTIVITY: _____ CONTRACT NO: _____	DATE: 04MAY07 DATE: _____ DATE: _____	SIZE: D CAGE CODE: 64747 DRAWING NUMBER: 2424-0003 SCALE: 1:2 CALC. WT.: _____ ACT. WT.: _____
		REV. B SHEET 3 OF 3