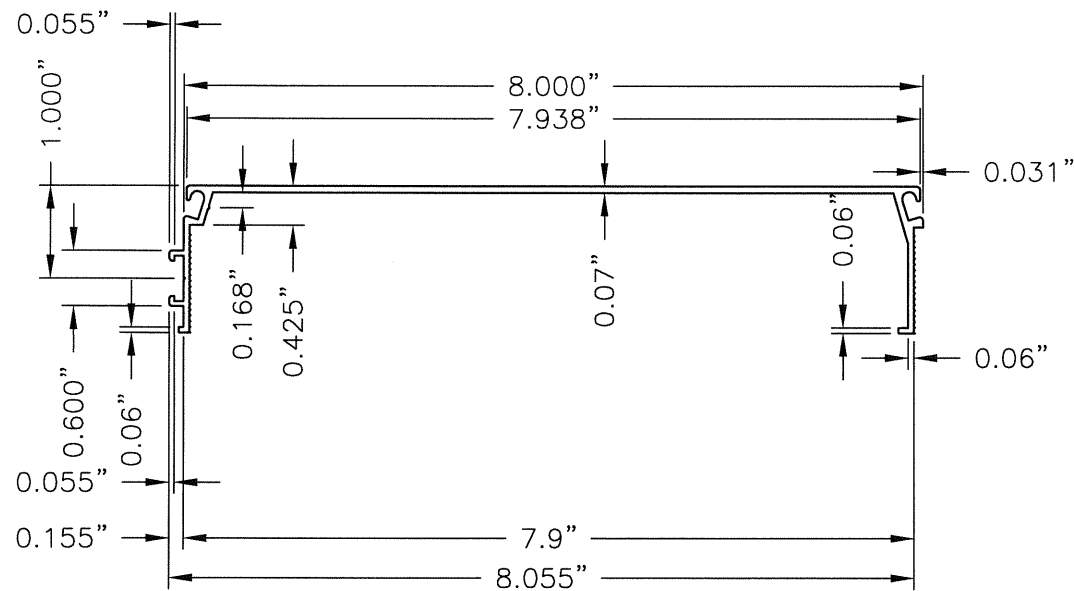


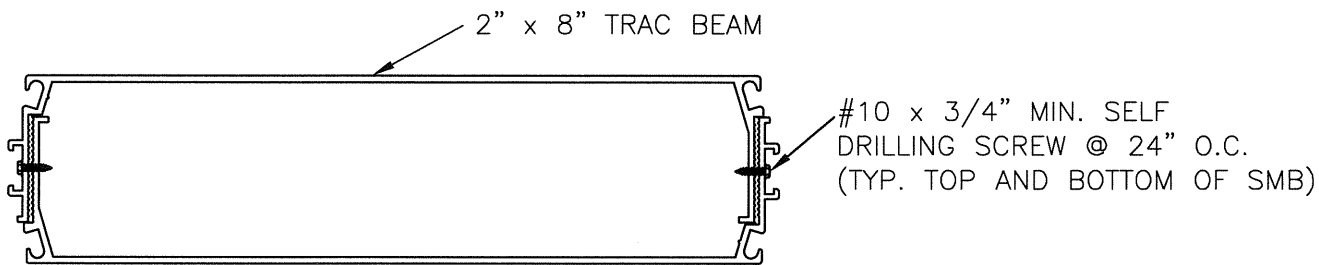
# POOL ENCLOSURE COLLECTIVE, LLC

P.O. Box 10039, TAMPA, FL 33679

PH. (813)857-9955



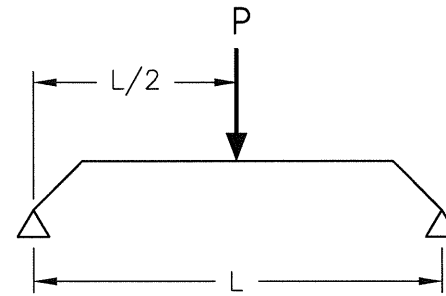
2" x 8" TRAC SELF-MATING BEAM (SMB)  
(Patent Pending)



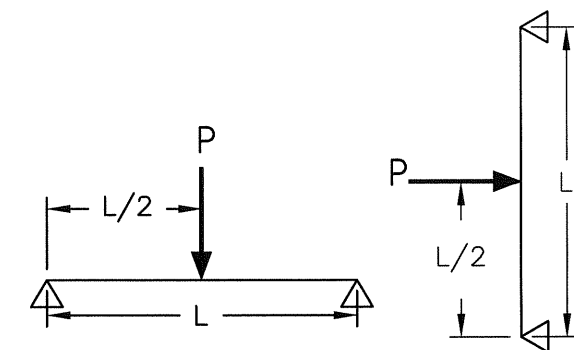
## GENERAL NOTES

1. ALUMINUM ALLOY SHALL BE 6005-T5.
2. REFERENCE TEST REPORT #TEL 07-01330199.
3. ALUMINUM EXTRUSION SHALL COMFORM TO ASTM B-221.
4. SAFETY FACTORS HAVE BEEN DEVELOPED IN ACCORDANCE TO THE 2005 ALUMINUM DESIGN MANUAL-SPECIFICATIONS AND GUIDELINES FOR ALUMINUM STRUCTURES SECTION 9.3.2 AND CONFORMS TO THE 2004 FBC CHAPTER 16 AND 20.
5. TESTING HAS BEEN CONDUCTED IN ACCORDANCE WITH ASTM E529-04: STANDARD GUIDE FOR CONDUCTING FLEXTURAL TESTS ON BEAMS AND GIRDERS FOR BUILDING CONSTRUCTION. SEE REFERENCED TEST REPORT IN NOTE 2.
6. THE DESIGNER SHALL DETERMINE BY ACCEPTED ENGINEERING PRACTICE THE ALLOWABLE LOADS FOR THE SITE SPECIFIC LOAD CONDITIONS (INCLUDING LOAD COMBINATIONS) USING THE DATA FROM THE ALLOWABLE LOADS TABLE IN THIS APPROVAL.
7. DEFLECTION VALUES TABULATED IN THIS DRAWING ARE FROM LOAD-DEFLECTION DIAGRAMS OF TESTED SPECIMENS. CHECK DEFLECTION LIMIT REQUIREMENTS OF THE BUILDING CODE, SUCH AS L/80 FOR HVHZ AND L/60 FOR NON-HVHZ.
8. THE DESIGNER SHALL CONSIDER LOAD DEFLECTION LIMITS BASED ON SITE SPECIFIC LOAD CONDITIONS.
9. THE DESIGNER SHALL CONSIDER ALL OTHER APPLICABLE STRUCTURAL ELEMENTS SUCH AS FOUNDATION SUPPORT, FASTENER LOADS, CONNECTION STRESSES, MOMENT CAPACITY, ETC.
10. FASTENER FOR STITCHING BEAMS SHALL BE POOL ENCLOSURE COLLECTIVE, LLC'S TRAC BEAM SCREW WITH MIN. PROPERTIES EQUAL TO C-1022 LOW-CARBON STEEL WITH YIELD STRENGTH OF 58 KSI MIN. WITH ADEQUATE CORROSION PROTECTION COATING AS SPECIFIED BY THE DESIGNER.
11. MAXIMUM LATERAL SUPPORT DISTANCE IS 84".
12. USE LIMITED TO OUTDOOR ALUMINUM PATIO CONSTRUCTION.

2x8 TRAC SELF-MATING BEAM MANSARD (Patent Pending)		
L-SPAN (feet)	ALLOWABLE LOAD-P (lbs)	TEST SPECIMEN DEFL. AT ALLOW. LOAD P (inches) SEE NOTE 7
52	1037.0	0.68"



2x8 TRAC SELF-MATING BEAM (Patent Pending)		
L-SPAN (feet)	ALLOWABLE LOAD-P (lbs)	TEST SPECIMEN DEFL. AT ALLOW. LOAD P (inches) SEE NOTE 7
15	2180	0.895"
16	2108	
17	2037	
18	1965	
19	1894	
20	1823	
21	1751	
22	1680	
23	1608	
24	1537	
25	1466	
26	1394	
27	1323	
28	1251	
29	1180	
30	1109	3.268"
31	1084	
32	1060	
33	1036	
34	1011	
35	987	
36	963	
37	938	
38	914	
39	890	
40	866	4.636"



Documents Prepared By:

**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197  
Florida Board of Professional Engineers  
Certificate of Authorization No. 9813  
Wendell W. Haney, P.E. No. 54158

PRODUCT: 2 x 8" TRAC BEAM

PART OR ASSEMBLY: SCREEN ENCLOSURE COMPONENT

NO.	DATE	WH	BY
1	8/7/07		

DATE: 06/28/07  
SCALE: N.T.S.  
DWG. BY: TL  
CHK. BY: WWH  
DRAWING NO.: FL-3675  
SHEET 1 OF 1