



P/N 551G SECTION

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S&E GRADE 5 BOLT ASSY'S REQUIRED (6) 7/16" DIA. X 2 1/2" LG. (NO BOLTS)

RA	REV'D EIA-222-E-1991 TO EIA-222-E-1991	9-10-91	RA-3
RB	RE-RAWN AND REVISED SPEC.	02/09/99	WDU
No. ▲ Revision Description		Date	By
UNR-Rohn			
55G SECTION ASSEMBLY			
Scale	Unless otherwise specified, dimensions are given in inches.		
Drawn by	NONE	Material	Finish
Checked by	WDU	Date	Angles
Approved by	WDU	Date	Weight
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Approved by Production	WDU	Date	File Number
Approved by Sales	WDU	Date	Drawing Number
			C630655 R 9

NOMENCLATURE	
A	= CROSS SECTIONAL AREA (SQUARE INCHES)
C	= COMPRESSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
I	= MOMENT OF INERTIA ABOUT CENTROIDAL AXIS (INCHES**4)
Fy	= MINIMUM YIELD STRENGTH (KSI)
L	= UNBRACED LENGTH (INCHES) (DIMENSIONLESS)
M	= MOMENT CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (FT.-KIPS)
N/A	= NOT APPLICABLE
S	= ELASTIC SECTION MODULUS (INCHES**3)
T	= TENSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
W	= WEIGHT PER FOOT (POUNDS)
Ws	= WEIGHT PER SECTION (POUNDS)

SEC. >>>	55G TOWER SECTION PROPERTIES		SECTION
ITEM	LEGS	BRACES	
SIZE	TS 1.5 00X.120 WALL	BAR 7/16 DIA.	N/A
Fy	50.0	36.0	N/A
A	0.5203	0.1503	1.56
S	0.1664	0.0082	7.12
I	0.1248	0.0018	75.2
r	0.4897	0.1094	6.94
L	15.5	21.9	VARIES
K	1.0	0.70	1.0
KL/r	31.6	140.3	VARIES
C	18.6	1.52	N/A
T	17.2	N/A	N/A
M	N/A	N/A	21.1
W	1.77	0.512	9.50
Ws	56.0	39.0	95.0

NOTE: CAPACITIES SHOWN ARE BASED ON ANSI/EIA-222-E-1991.