



# SHORING | FORMING | DESIGN



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**Commercial Shoring, Inc. (CSI),** one of California's leading suppliers of Shoring and Forming, is staffed with knowledgeable and experienced personnel both in the office and out in the field.

CSI provides in-house design and shoring layout. Our design staff is available to answer questions with one simple phone call. CSI will also provide on-jobsite training and pre-pour reviews along with support to the jobsite crew for the duration of the project. Our estimating department will help you fine tune your bids for successful project awards. We offer:

- Frame Shoring System
- Drop Head Shoring System
- TufProp Heavy Duty Post Shores
- 350 and 550 Post Shores
- Steel-Ply Wall Forming System
- Gang Form Wall System
- Perimeter Protection

***Every project has its own challenges  
– CSI is here to help.***



## TOWER CAPACITIES

## TOWER CAPACITIES WITH SCREW JACKS ONLY OR EQUIVALENT EXTENSION

HEIGHT OF TOWER (based on 6' frame test)	INTERFRAME CROSS BRACES ALLOWABLE LOAD/LEG		INTERFRAME CROSS BRACING ALLOWABLE LOAD/LEG	
	lb	kg	lb	kg
One Tier	9,500	4,320	9,500	4,320
Two Tier	11,600	5,200	9,200	4,280
Three Tier	12,000	5,443	8,800	4,000

## NOTES:

1. For 1- to 3-frame high towers up to 20' with 12" maximum screw jack extension top and bottom or with jacks extended 12" at one end and extension tubes at the other, extended not more than 14.5" using 5- and 6-foot high frames.
2. For towers using only 4-foot high frames up to four frames high, loads in this table can be increased by 15%, as 4-foot high frames can support higher loads than 6-foot frames.
3. 6-foot frames shall be braced for 3 or more tiers high. All bracing must comply with local codes.



## TOWER CAPACITIES WITH SCREW JACKS AND EXTENSION TUBES

## SECTION A:

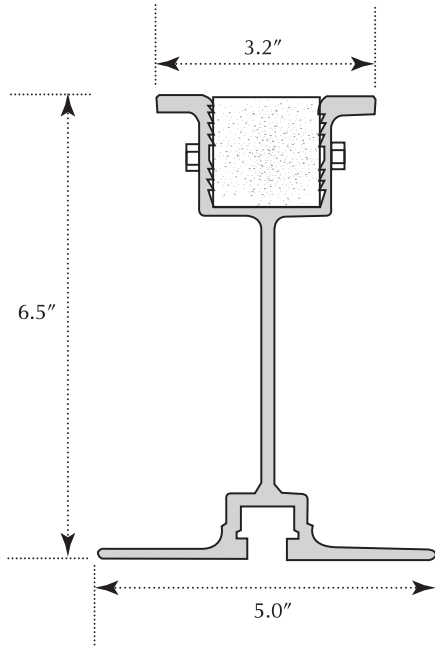
Towers with Extension Tube and Screw Jack extended 12" at one end of the leg and Screw Jack only or Extension Tube only extended to a maximum of 14.5" at the other end of the leg.

EXTENSION TUBE EXTENSION AT ONE END ONLY				SAFE WORKING LOAD PER LEG WHEN USING			
EXTENSION COMBINATION		MAX EXTENSION		30" EXTENSION TUBE PLUS SCREW JACK EXTENDED 12"		48" EXTENSION TUBE PLUS SCREW JACK EXTENDED 12"	
EXTENSION TUBE	2 SCREW JACK						
in	in	in	mm	lb	kg	lb	kg
8	24	32	813	10,500	4,767	10,500	4,767
14	24	38	965	9,500	4,313	9,700	4,404
20	24	44	1,118	7,500	3,405	8,500	3,859
26	24	50	1,270	5,000	2,270	8,000	3,632
32	24	56	1,422			7,500	3,405



### 6.5" ALUMINUM BEAM

### ALUMA STYLE



### PHYSICAL SPECIFICATIONS

OVERALL HEIGHT:	6.50 in
BASE WIDTH:	5.00 in
WIDTH, INVERTED TOP HAT SECTION:	3.20 in
CROSS SECTIONAL AREA (w/o nailer):	2.67 in <sup>2</sup>
NOMINAL WEIGHT (w/o nailer):	3.2 lb/ft
NOMINAL WEIGHT (w/ nailer):	4 lb/ft
MOMENT OF INERTIA (I <sub>xx</sub> ):	16.98 in <sup>4</sup>
MOMENT OF INERTIA (I <sub>yy</sub> ):	2.64 in <sup>4</sup>
SECTION MODULUS, S <sub>xx</sub> (max):	6.25 in <sup>3</sup>
SECTION MODULUS, S <sub>xx</sub> (min):	4.42 in <sup>3</sup>
MODULUS OF ELASTICITY, E:	10.2E6 psi
ALUMINUM ALLOY & TEMPER:	6061 T6

### LOAD CHART

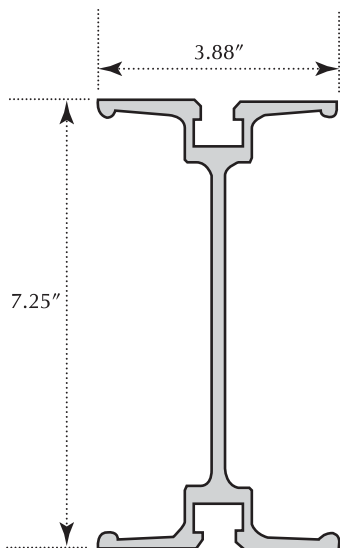
SPAN (ft)	L/360		L/270	
	DEFLECTION (in)	LOAD (lbs/ft)	DEFLECTION (in)	LOAD (lbs/ft)
4	0.13	2,364	0.18	2,364
5	0.17	1,875	0.22	1,875
6	0.20	1,188	0.27	1,302
7	0.23	748	0.31	957
8	0.27	501	0.36	668
9	0.30	352	0.40	469
10	0.33	257	0.44	342
11	0.37	193	0.49	257
12	0.40	148	0.53	198
13	0.43	117	0.58	156
14	0.47	94	0.62	125
15	0.50	76	0.67	101
16	0.53	63	0.71	84
17	0.57	52	0.76	70
18	0.60	44	0.80	59
19	0.63	37	0.84	50
20	0.67	32	0.89	43

Deflection data based on simple spans. F.O.S. = 2.2 to 1. Beam to be laterally supported.  
All data is provided as guidelines only.



## 7.25" STRINGER

## HI-LITE STYLE



## LOAD CHART

SPAN (ft)	L/360		L/270	
	DEFLECTION (in)	LOAD (lbs/ft)	DEFLECTION (in)	LOAD (lbs/ft)
4	0.13	5,194	0.18	5,194
5	0.17	3,324	0.22	3,324
6	0.20	1,988	0.27	2,308
7	0.23	1,252	0.31	1,669
8	0.27	839	0.36	1,118
9	0.30	589	0.40	785
10	0.33	429	0.44	572
11	0.37	323	0.49	430
12	0.40	248	0.53	331
13	0.43	195	0.58	261
14	0.47	156	0.62	209
15	0.50	127	0.67	170
16	0.53	105	0.71	140
17	0.57	87	0.76	117
18	0.60	74	0.80	98
19	0.63	63	0.84	83
20	0.67	54	0.89	72

## PHYSICAL SPECIFICATIONS

OVERALL HEIGHT:	7.25 in
FLANGE WIDTH:	3.88 in
CROSS SECTIONAL AREA:	3.65 in <sup>2</sup>
NOMINAL WEIGHT:	4.4 lb/ft
MOMENT OF INERTIA (I <sub>xx</sub> ):	28.41 in <sup>4</sup>
SECTIONAL MODULUS, S <sub>xx</sub> (min):	7.84 in <sup>3</sup>
MODULUS OF ELASTICITY, E:	10.2E6 psi

Deflection data based on simple spans. F.O.S. = 2.2 to 1. Stringers to be laterally supported.  
All data is provided as guidelines only.



### TUFPROP HEAVY DUTY POST SHORES

#### LOAD CHART



FT / M	TUFPROP 1150	TUFPROP 1570	TUFPROP 2050
6.5 ft / 2.0 m	26.1 kips		
6.8 ft / 2.1 m	25.3 kips		
7.2 ft / 2.2 m	24.5 kips		
7.5 ft / 2.3 m	23.6 kips		
7.8 ft / 2.4 m	22.8 kips		
8.2 ft / 2.5 m	22.0 kips		
8.5 ft / 2.6 m	21.3 kips	26.0 kips	
8.8 ft / 2.7 m	20.9 kips	25.4 kips	
9.1 ft / 2.8 m	20.5 kips	24.8 kips	
9.5 ft / 2.9 m	20.0 kips	24.1 kips	
9.8 ft / 3.0 m	19.6 kips	23.5 kips	
10.1 ft / 3.1 m	19.0 kips	22.8 kips	
10.4 ft / 3.2 m	18.2 kips	22.2 kips	
10.8 ft / 3.3 m	17.4 kips	21.6 kips	
11.1 ft / 3.4 m	16.7 kips	20.9 kips	
11.4 ft / 3.5 m	15.9 kips	20.2 kips	
11.8 ft / 3.6 m		19.4 kips	
12.1 ft / 3.7 m		18.7 kips	
12.4 ft / 3.8 m		18.0 kips	
12.7 ft / 3.9 m		17.2 kips	
13.1 ft / 4.0 m		16.5 kips	
13.4 ft / 4.1 m		15.8 kips	
13.7 ft / 4.2 m		15.1 kips	
14.1 ft / 4.3 m		14.5 kips	18.6 kips
14.4 ft / 4.4 m		13.8 kips	18.1 kips
14.7 ft / 4.5 m		13.1 kips	17.5 kips
15.0 ft / 4.6 m		12.5 kips	16.9 kips
15.4 ft / 4.7 m		11.8 kips	16.3 kips
15.7 ft / 4.8 m		11.1 kips	15.7 kips
16.0 ft / 4.9 m			15.1 kips
16.4 ft / 5.0 m			14.5 kips
16.7 ft / 5.1 m			14.0 kips
17.0 ft / 5.2 m			13.5 kips
17.3 ft / 5.3 m			13.0 kips
17.7 ft / 5.4 m			12.5 kips
18.0 ft / 5.5 m			12.0 kips
18.3 ft / 5.6 m			11.5 kips
18.7 ft / 5.7 m			11.2 kips
19.0 ft / 5.8 m			10.9 kips
19.3 ft / 5.9 m			10.6 kips
19.6 ft / 6.0 m			10.3 kips
20.0 ft / 6.1 m			10.0 kips
20.3 ft / 6.2 m			9.7 kips
20.5 ft / 6.25 m			9.6 kips

NOTE: A safety factor 3:1 is regarded. Head and base is fixed, props are erected vertically not out of plumb more than 1/8" in 3 feet.



## STEEL-PLY SYSTEM

Steel-Ply components have been designed with safety and performance in mind to help with a safe and productive forming operation. Whether you are forming columns or walls, Steel-Ply is the cost effective way to go.





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