TTF Scaffolding Inc.

TESTING REPORT

POST SHORE LOAD TESTING

Load test results and safe working loads for TTF steel post shores #0 to #5, at fully closed, middle and fully open lengths.

3 LENGTHS PER SHORE | SAFETY FACTOR 3:1 | LBS & kN

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ABOUT THESE TESTS

Tested to failure at three lengths

Each TTF post shore model was load tested at its fully closed, middle and fully open length. The load was increased until the shore failed, and the failure load and failure mode were recorded.

Load (PSI)
Test pressure reading at failure.

Ultimate load
Load on the shore at failure, in lbs.

Safe working load (SWL)
Ultimate load ÷ 3 (3:1 safety factor). Shown in lbs and kN.

Mfr. rated
Shores #2+ and #5 were not tested by TTF. Their SWL is the manufacturer's rating at 3:1 (ACI/OSHA), same as the tested shores.

IMPORTANT

Always use the SWL at your actual working length. Capacity drops as the shore is extended.

POST SHORE	POSITION	LENGTH	LOAD (PSI)	ULTIMATE LOAD (LBS)	SWL 3:1 (LBS)	SWL (kN)	FAILURE MODE
#0 Tested	Fully open	6′-0″	4,800	34,637	**11,546**	51.4	PS leg bent
	Middle	5′-0″	5,215	37,631	**12,544**	55.8	Pin bent
	Fully closed	3′-6″	5,715	41,239	**13,746**	61.1	Pin bent
#1 Tested	Fully open	9′-11″	2,997	21,626	**7,209**	32.1	PS leg bent
	Middle	7′-10″	3,749	27,053	**9,018**	40.1	PS leg bent
	Fully closed	5′-9″	4,800	34,637	**11,546**	51.4	PS leg bent
#2 Tested	Fully open	11′-0″	2,800	20,205	**6,735**	30.0	PS leg bent
	Middle	9′-0″	3,507	25,307	**8,436**	37.5	PS leg bent
	Fully closed	6′-6″	5,007	36,131	**12,044**	53.6	PS leg bent
#2+ Mfr. rated · 3:1 ACI/OSHA	Fully open	11′-5″	N/A	N/A	**6,750**	30.0	Mfr. rated
	Middle	10′-4″	N/A	N/A	**8,100**	36.0	Mfr. rated
	Fully closed	7′-4″	N/A	N/A	**8,550**	38.0	Mfr. rated
#3 Tested	Fully open	13′-0″	1,306	9,424	**3,141**	14.0	PS leg bent
	Middle	11′-0″	2,234	16,121	**5,374**	23.9	PS leg bent
	Fully closed	8′-6″	2,739	19,765	**6,588**	29.3	PS leg bent
#4 Tested	Fully open	15′-0″	1,234	8,905	**2,968**	13.2	PS leg bent
	Middle	13′-0″	2,146	15,486	**5,162**	23.0	PS leg bent
	Fully closed	10′-6″	3,500	25,256	**8,419**	37.4	PS leg bent
#5 Mfr. rated · 3:1 ACI/OSHA	Fully open	18′-0″	N/A	N/A	**4,271**	19.0	Mfr. rated
	Middle	14′-9″	N/A	N/A	**4,721**	21.0	Mfr. rated
	Fully closed	10′-5″	N/A	N/A	**5,171**	23.0	Mfr. rated

SWL = safe working load. Failure mode: PS leg bent = the post shore leg bent; Pin bent = the adjustment pin bent.

CAPACITY AT A GLANCE

Shorter shore, higher load

Safe working load (3:1) plotted against shore length for each model. Dashed lines are manufacturer-rated, at 3:1 (ACI/OSHA).

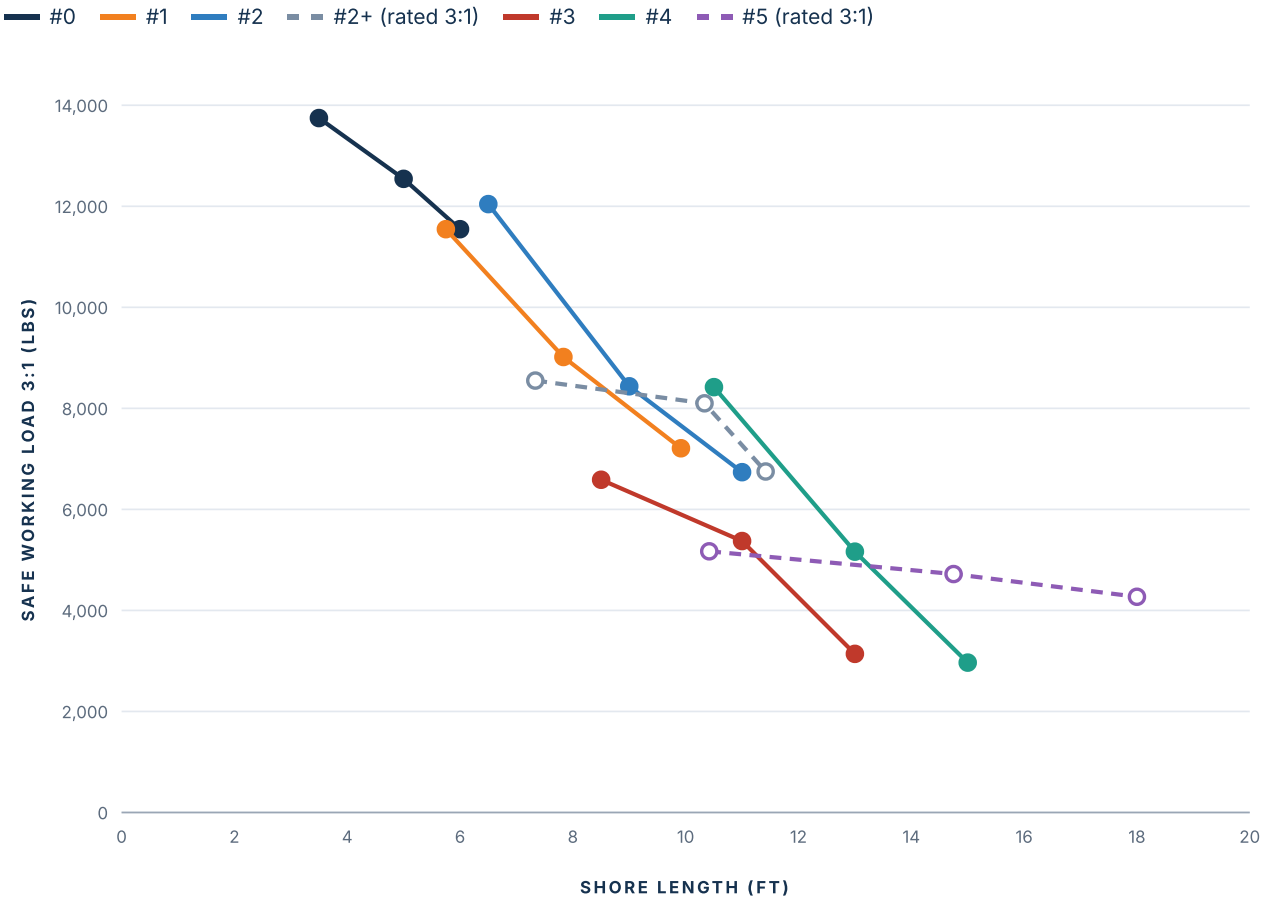
13,746
LBS · HIGHEST SWL (#0 CLOSED)

3:1
SAFETY FACTOR

SHORE	LENGTH RANGE	MAX SWL
#0	3′-6″ – 6′-0″	**13,746** lbs
#1	5′-9″ – 9′-11″	**11,546** lbs
#2	6′-6″ – 11′-0″	**12,044** lbs
#2+	7′-4″ – 11′-5″	**8,550** lbs
#3	8′-6″ – 13′-0″	**6,588** lbs
#4	10′-6″ – 15′-0″	**8,419** lbs
#5	10′-5″ – 18′-0″	**5,171** lbs

DESIGN
Consult TTF Engineering to confirm shore spacing and loads for your project.

SAFE WORKING LOAD (LBS) vs. SHORE LENGTH (FT)





TTF Scaffolding Inc.

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This report is for general information only. All shoring must be designed and approved by a qualified engineer in line with local regulations.