

Client: Mr. James Weber
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Date: July 19, 2005
STI Project No: S00317B

Project: Quality Control – Lateral Load Test (Perpendicular to the anchored base strip)
Sample: Pyramid Foundation System Support Jacks Submitted by & Date: TW / 6-24-05
Sample ID: Short Jack - 17" High (See Figure 1) Tested by: AKB & SM/STI

REPORT OF DETERMINATION

Lateral Load Test for the Pieramid Foundation System Support Jack

LOADING PERPENDICULAR TO THE ANCHORED BASE STRIP

Jack Dimensions:

Height: 17"
The tube steel is 1/2" Diameter x 1/8" thick and grade A53
Base: 14" Equilateral Triangle. Flat bar 1 1/2" x 1/8" A53
Steel

TEST PROCEDURE:

The jack was loaded laterally in the jig as shown in Figure 1. Four (4) Simpson Strong Tie THD 37400H - 3/8" Diameter by 4" long bolts in the shown pattern were used to secure the jack base to a 5" thick, 3,000 PSI concrete panel.

TEST RESULTS:

Mode of Failure: The bottom flat bar, next to the loading side, started buckling at an approximate load of 5,000 Lbs. There was NO failure of any kind at any of the anchor bolts at the Maximum Lateral Load of 20,000 Pounds Force (Maximum Jack Capacity).

Respectfully submitted,
STI Northwest, Inc.

Alan K. Bain
Construction Services Manager



Figure 1



Simpson Strong Tie THD 37400H; 3/8x4" Bolt