



CARLETON LABORATORY COLUMBIA UNIVERSITY

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ABBREVIATED TEST REPORT

Specimens: Three (3) set of 5' X 6'4" walk thru frame with slide lock scaffold components together with six (6) pairs of cross braces and six (6) screw jack leg extensions were delivered to the Carleton Laboratory by Swing Staging, LLC. on 03 December 2014.

Test Method: The three frames high scaffold assembly with a total height of 19' was erected with two pairs of cross braces in each frame. The screw jacks inserted to four vertical legs were adjusted to 12 inches beyond the frame length on the bottom. The scaffold assembly was tested in compression in general accordance to ANSI/SSFI SC100-5/05. The load was applied to the four vertical posts via load transfer beams fixed to the cross head of the testing machine at a constant rate of 6000 lb/min to load refusal. The ultimate load and failure mode was documented.

Test Apparatus: Southwark-Emery 600,000 lb Universal Testing Machine in 120,000 lb range

Test Date: 18 December 2014

Test Results:

Specimen No.	Length	Ultimate Load (lb)	Ultimate Load per post (lb)	Remark and Failure Mode Description
#1 (5' X 19')	8'	42,900	10,725	Four posts buckled, cross braces and screw jacks intact

The management of the Carleton Laboratory certifies to the best of its knowledge that the above readings are correct, and that they have been performed on a NIST-traceable/calibrated universal testing machine on the premises of said laboratory.

Adrian Brügger

Manager, Robert A. W. Carleton Strength of Materials Laboratory
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APPENDIX A: Photographic Documentation of Test



Loading test setup



Before test (#1: 5' X 19' scaffold assembly)



After test (#1: 5' X 19' scaffold assembly)

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