



INTERTEK REPORT No.: 3068232-2

REPORT ON WITNESS TESTING

OF

ITW BUILDEX'S GYP-FAST
BUGLE HEAD NAILS
AND
BUILDEX SCREWS

BASED ON

AND

AISI TS-5-02

TEST METHODS FOR MECHANICALLY
FASTENED COLD-FORMED STEEL CONNECTIONS

FOR

ITW BUILDEX
1349 WEST BRYN MAWR AVE.
ITASCA, IL 60134

BY

INTERTEK TESTING SERVICES NA, INC.
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MIDDLETON, WI 53562

TEST DATES: MAY 23-27, 2005
REPORT DATE: MARCH 23, 2006

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INTRODUCTION

Intertek Testing Services NA Inc., of Middleton, Wisconsin witnessed tests performed in the ITW Buildex Quality Assurance Laboratory in Itasca, IL. Rick Armstrong, Technical Projects Manager for Intertek witnessed and participated in the testing. This report gives the results of the evaluation of the provided sample. The test results described in this report are limited to the submitted item.

SPECIMEN DESCRIPTION

The fastener tested is described as Buildex #6 X 2-inch and #8 x 2-5/8-inch Bugle-Head S-12 Screw (pn 2318500 and 2319500 respectively) and 1-1/2 inch Bugle Head Gyp-Fast Nail (pn 2429910)

The material used in all the tests were standard steel studs or material cut from these studs. The studs were manufactured by Clark Steel Framing Systems and included thickness of 22, 20, 18, 16, and 14 gauges. All studs were 33-ksi minimum tensile strength. The fasteners were driven by pneumatic nailer.

PROCEDURES

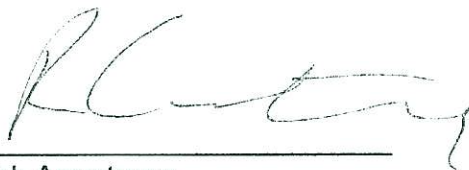
Gyp-Fast Pull-out Test Based on AISI TS-5-02

The Gyp-Fast Test is based on AISI TS-5-02. The Buildex Bugle head nail was driven through a 0.625-inch piece of drywall to simulate the depth at which it would be driven in the field. It was driven with a pneumatic nail gun designed for that purpose. After the nail was set, the drywall was removed and the specimen was pulled out of the stud in which it was driven. Each of the drywall screws was driven to the same depth with a screw gun. The samples formatted with red borders were excluded to get a better statistical sampling.

20 ga. Stud				16 ga. Stud			
Test	Buildex	Bugle head	Bugle head	Test	Buildex	Bugle head	Bugle head
	Gyp-Fast Nail	S-12 screw	S-12 screw		Gyp-Fast Nail	S-12 screw	S-12 screw
	1-1/2"	6 X 2"	8 x 2-5/8"		1-1/2"	6 X 2"	8 x 2-5/8"
1	283.75	198.73	203.3	1	542.98	439.68	482.09
2	282	200.21	223.87	2	599.77	429.93	448.12
3	277.9	188.18	218.42	3	587.54	457.89	422.87
4	290.27	182.74	213.18	4	545.76	423.34	465.82
5	291.75	200.48	224.87	5	595.27	438.33	470.06
Ave.	285.13	194.07	216.73	Ave	574.26	437.83	457.79
Min	277.9	182.74	203.3	Min	542.98	423.34	422.87
Max	291.75	200.48	224.87	Max	599.77	457.89	482.09
St Dev	5.79	8.12	8.85	St Dev	27.66	13.02	23.01
18 ga. Stud				14 ga. Stud			
Test	Buildex	Bugle head	Bugle head	Test	Buildex	Bugle head	Bugle head
	Gyp-Fast Nail	S-12 screw	S-12 screw		Gyp-Fast Nail	S-12 screw	S-12 screw
	1-1/2"	6 X 2"	8 x 2-5/8"		1-1/2"	6 X 2"	8 x 2-5/8"
1	227.43	319.31	351.71	1	449.89	967.4	1091.6
2	481.28	333.82	351.23	2	1019	918.07	1081.3
3	461.72	330.87	354.05	3	766.22	911.75	1063.7
4	217.95	334.14	355.4	4	816.25	962.97	1155.1
5	450.97	317.83	359.03	5	557.09	888.36	1055.4
6	461.05			6	500.3		1135.7
7	468.17			7	653.87		
8	205.18			Ave	658.75	929.71	1097.13
9	200.61			Min	500.3	888.36	1055.4
10	223.87			Max	816.25	967.4	1155.1
11	468.11			St Dev	134.00	34.26	39.97
12	114.59						
13	466.76						
Ave	392.73	327.19	354.28				
Min	217.95	317.83	351.23				
Max	481.28	334.14	359.03				
St Dev	117.33	7.99	3.15				

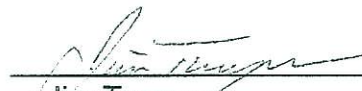
All tests were performed by Mike Dill and Bert Kolodziei of ITW Buildex with the assistance of Rick Armstrong of Intertek.

Report written by;



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 Technical Projects Manager

Report reviewed by;



Jim Turgeson
 Project Manager