

ACTS CONSTRUCTION, LLC TEST REPORT

SCOPE OF WORK

TESTING INSULATED CONCRETE BLOCKS IN ACCORDANCE WITH ASTM D1761-20

REPORT NUMBER

104588008MID-006R0

TEST DATE(S)

06/28/21 - 07/09/21

ISSUE DATE

07/30/21

[REVISED DATE]

MM/DD/YY

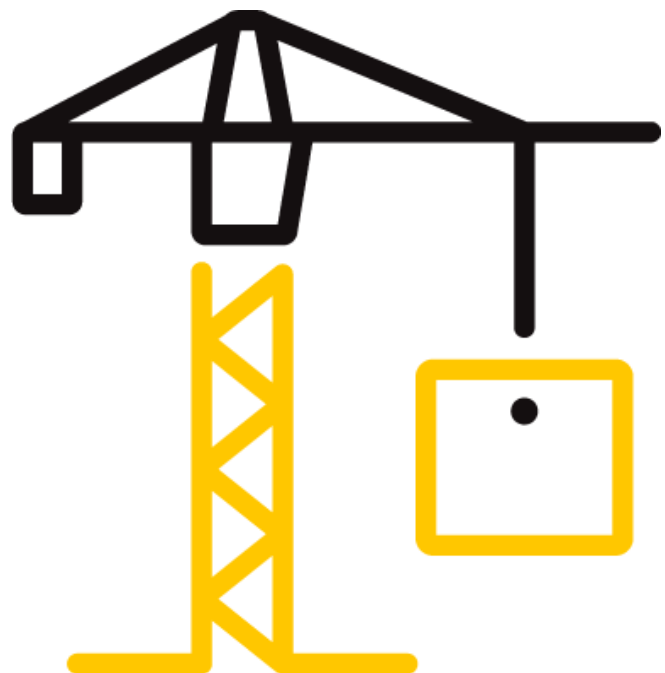
PAGES

17

DOCUMENT CONTROL NUMBER

GFT-OP-10c (09/29/20)

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Date: 07/30/21

REPORT ISSUED TO

ACTS CONSTRUCTION, LLC

7816 113TH Ave

Pleasant Prairie, WI 53158

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Acts Construction, LLC of Pleasant Prairie, WI to perform testing in accordance with ASTM D1761-20, *Mechanical Fasteners in Wood and Wood-Based Materials*, on their insulated concrete blocks. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in Middleton, Wisconsin.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as datasheets or other pertinent project documentation, will be retained for the entire test record retention period.

SECTION 2

SUMMARY OF TEST RESULTS

For INTERTEK B&C:

COMPLETED BY:	Javier Castro	REVIEWED BY:	Greg Dupuis
TITLE:	Technician II Building & Construction	TITLE:	US ES Manager Building & Construction
SIGNATURE:		SIGNATURE:	
DATE:	07/30/21	DATE:	07/30/21

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SAMPLE	AVERAGE ULTIMATE WITHDRAWAL LOAD (lbf)	AVERAGE ULTIMATE LATERAL LOAD (lbf)
Grip Fast Cabinet Screws Exterior Coated #10 x 2-1/2"	308	485
Grip Fast Clipped Head Framing Nails 2-3/8" x 0.113"	90	168
Grip Fast Coarse Tread Drywall Screws #6 x 1-5/8"	242	265
Grip Fast Fine Tread Drywall Screws #6 x 1-5/8"	241	258
Grip Fast Gold Triple Coated Deck Screws #9 x 2"	286	487

SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

ASTM D1761-20, *Standard Test Methods for Mechanical Fasteners in Wood and Wood-Based Materials*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Samples were independently selected on March 24, 2021 by Intertek representative John Schachtner. Samples were received at the Middleton Evaluation Center on April 29, 2021 in good condition and labeled MID2104290837-001.

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	CAL DUE DATE
870	Instron	1/5/22
1347	Temp/Humidity	4/12/22
1455	Instron	10/15/21

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LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Javier Castro	Intertek B&C
Bryan Bowman	Intertek B&C

SECTION 7

TEST PROCEDURE

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Section 10.

ASTM D1761-20 – Screw Withdrawal

The insulated concrete blocks were tested with five different fasteners: Grip Fast Cabinet Screws Exterior Coated #10 x 2-1/2", Grip Fast Clipped Head Framing Nails 2-3/8" x 0.113", Grip Fast Coarse Tread Drywall Screws #6 x 1-5/8", Grip Fast Fine Tread Drywall Screws #6 x 1-5/8", and Grip Fast Gold Triple Coated Deck Screws #9 x 2". Each product consisted of 10 vertical pull and 10 horizontal shear screw pull. Fasteners were fastened into the plastic webbing of the insulated concrete block. The specimens were placed in the universal test machine (ICN: 870) and centered. Crosshead movement was held constant at 0.1 inch/min until screw withdrawn. The insulated concrete blocks were tested as received.

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TEST RESULTS

Grip Fast Cabinet Screws Exterior Coated #10 x 2-1/2"

SPECIMEN	WITHDRAWAL ULTIMATE LOAD (lbf)	LATERAL ULTIMATE LOAD (lbf)	LATERAL PROPORTIONAL LIMIT LOAD (lbf)	75% OF LATERAL PROPORTIONAL LIMIT LOAD (lbf)
1	313	533	332	249
2	317	493	273	205
3	292	508	332	249
4	318	463	305	229
5	306	438	264	198
6	373	489	270	203
7	276	511	297	223
8	286	491	300	225
9	301	473	294	221
10	293	446	310	233
Average	308	485	298	224
Std. Deviation	27	30	24	18
Coefficient of Variation	0.088	0.062	0.081	0.080

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Grip Fast Clipped Head Framing Nails 2-3/8" x 0.113"

SPECIMEN	WITHDRAWAL ULTIMATE LOAD (lbf)	LATERAL ULTIMATE LOAD (lbf)	LATERAL PROPORTIONAL LIMIT LOAD (lbf)	75% OF LATERAL PROPORTIONAL LIMIT LOAD (lbf)
1	63	165	97	73
2	70	171	129	97
3	76	157	128	96
4	74	160	102	77
5	82	159	144	108
6	142	189	106	80
7	104	163	142	107
8	91	163	122	92
9	130	170	123	92
10	71	181	144	108
Average	90	168	124	93
Std. Deviation	27	10	17	13
Coefficient of Variation	0.300	0.060	0.137	0.140

Grip Fast Coarse Tread Drywall Screws #6 x 1-5/8"

SPECIMEN	WITHDRAWAL ULTIMATE LOAD (lbf)	LATERAL ULTIMATE LOAD (lbf)	LATERAL PROPORTIONAL LIMIT LOAD (lbf)	75% OF LATERAL PROPORTIONAL LIMIT LOAD (lbf)
1	235	195	157	118
2	210	176	117	88
3	234	395	369	277
4	235	214	150	113
5	275	160	121	91
6	211	398	387	290
7	247	342	337	253
8	256	269	213	160
9	254	218	218	164
10	260	287	240	180
Average	242	265	231	173
Std. Deviation	21	88	101	76
Coefficient of Variation	0.087	0.332	0.437	0.439

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Grip Fast Fine Tread Drywall Screws #6 x 1-5/8"

SPECIMEN	WITHDRAWAL ULTIMATE LOAD (lbf)	LATERAL ULTIMATE LOAD (lbf)	LATERAL PROPORTIONAL LIMIT LOAD (lbf)	75% OF LATERAL PROPORTIONAL LIMIT LOAD (lbf)
1	248	219	119	89
2	243	192	145	109
3	266	311	237	178
4	244	248	157	118
5	272	270	145	109
6	225	260	158	119
7	242	320	179	134
8	215	312	195	146
9	205	236	165	124
10	250	214	158	119
Average	241	258	166	125
Std. Deviation	21	45	32	24
Coefficient of Variation	0.087	0.174	0.193	0.192

Grip Fast Gold Triple Coated Deck Screws #9 x 2"

SPECIMEN	WITHDRAWAL ULTIMATE LOAD (lbf)	LATERAL ULTIMATE LOAD (lbf)	LATERAL PROPORTIONAL LIMIT LOAD (lbf)	75% OF LATERAL PROPORTIONAL LIMIT LOAD (lbf)
1	286	497	283	212
2	274	492	337	253
3	268	460	279	209
4	292	458	328	246
5	300	486	319	239
6	288	498	341	256
7	310	478	335	251
8	269	501	284	213
9	291	502	294	221
10	286	498	333	250
Average	286	487	313	235
Std. Deviation	13	16	25	19
Coefficient of Variation	0.046	0.033	0.080	0.081

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CONCLUSION

When evaluated in accordance with ASTM D1761-20, the product exhibited the properties tabulated in Section 8. ASTM D1761-20 does not contain any minimum performance requirements.

SECTION 10

PHOTOGRAPHS



Photo No. 1

Grip Fast Cabinet Screws Exterior Coated #10 x 2-1/2"

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Photo No. 2

Grip Fast Clipped Head Framing Nails 2-3/8" x 0.113"



Photo No. 3

Grip Fast Coarse Tread Drywall Screws #6 x 1-5/8"

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Photo No. 4

Grip Fast Fine Tread Drywall Screws #6 x 1-5/8"

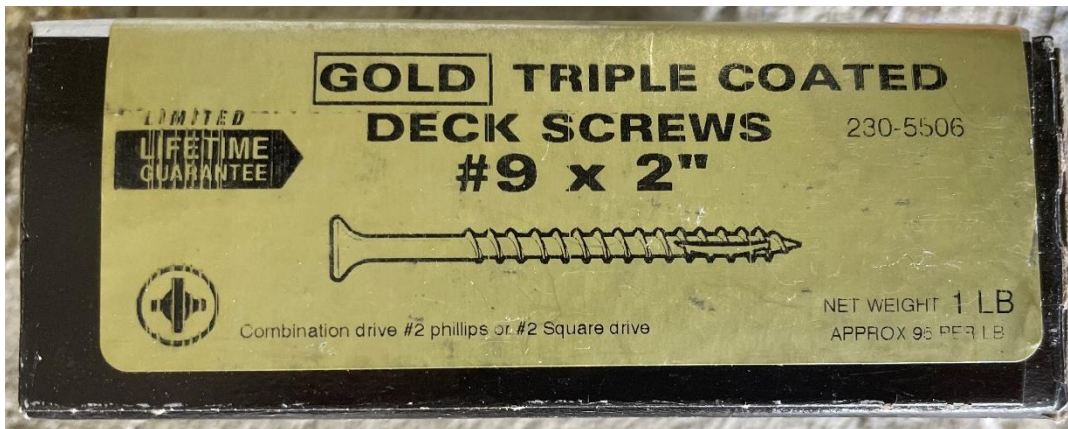


Photo No. 5

Grip Fast Gold Triple Coated Deck Screws #9 x 2"

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Photo No. 6
Typical Lateral Test Arrangement

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CHARTS

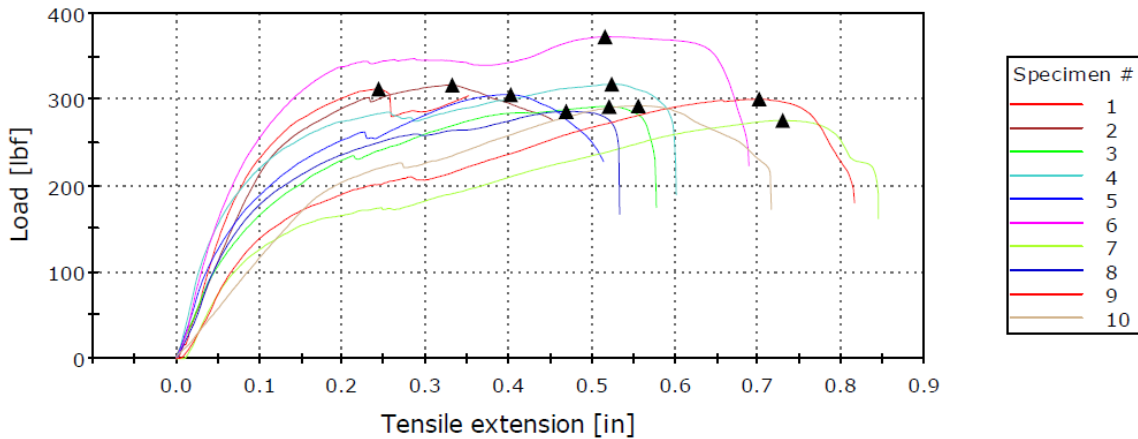


Chart No. 1
Withdrawal Grip Fast Cabinet Screws Exterior Coated #10 x 2-1/2"

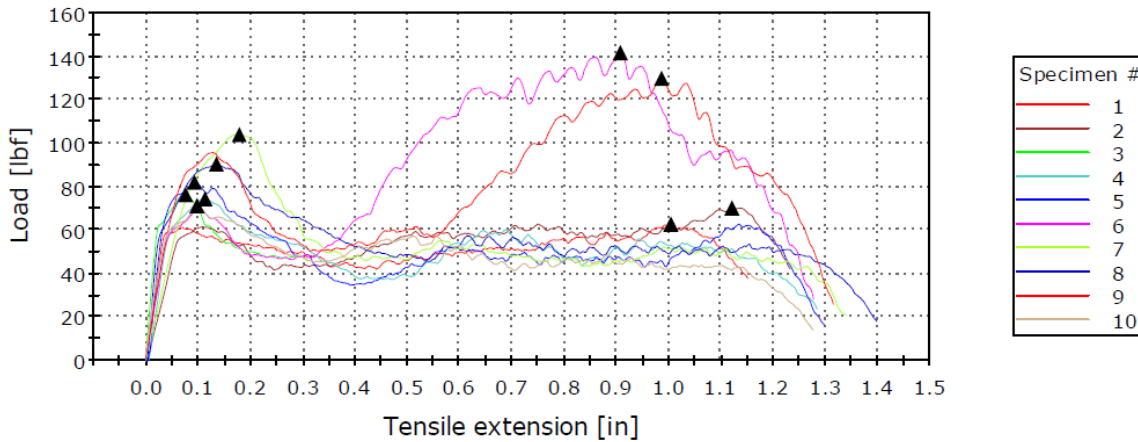


Chart No. 2
Withdrawal Grip Fast Clipped Head Framing Nails 2-3/8" x 0.113"

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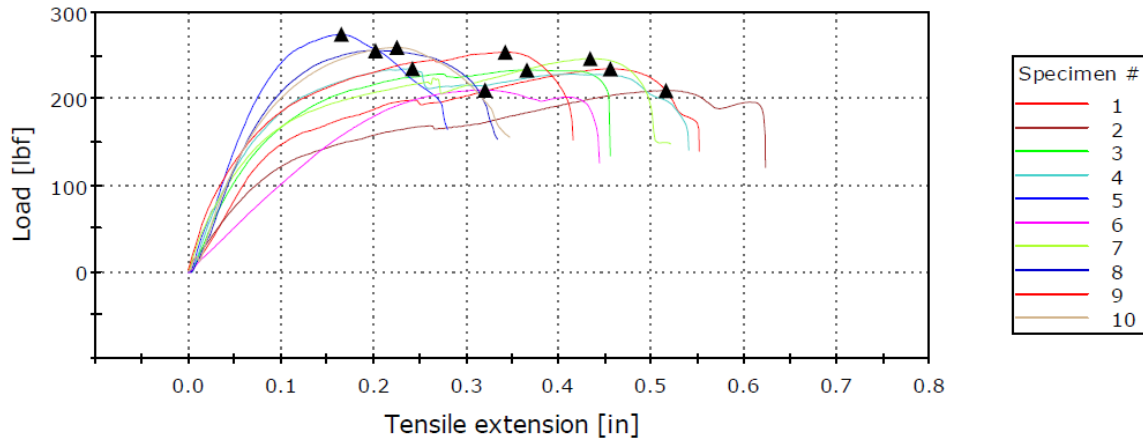


Chart No. 3
Withdrawal Grip Fast Coarse Tread Drywall Screws #6 x 1-5/8"

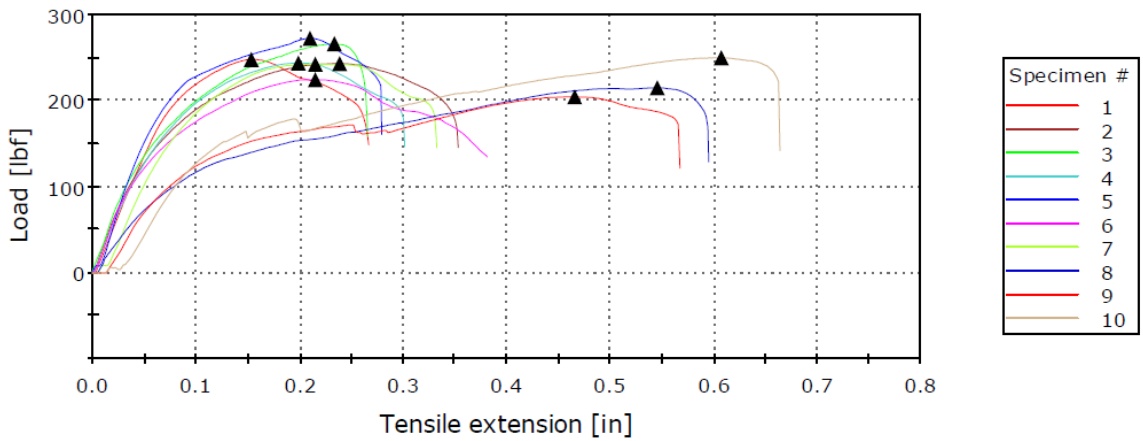


Chart No. 4
Withdrawal Grip Fast Fine Tread Drywall Screws #6 x 1-5/8"

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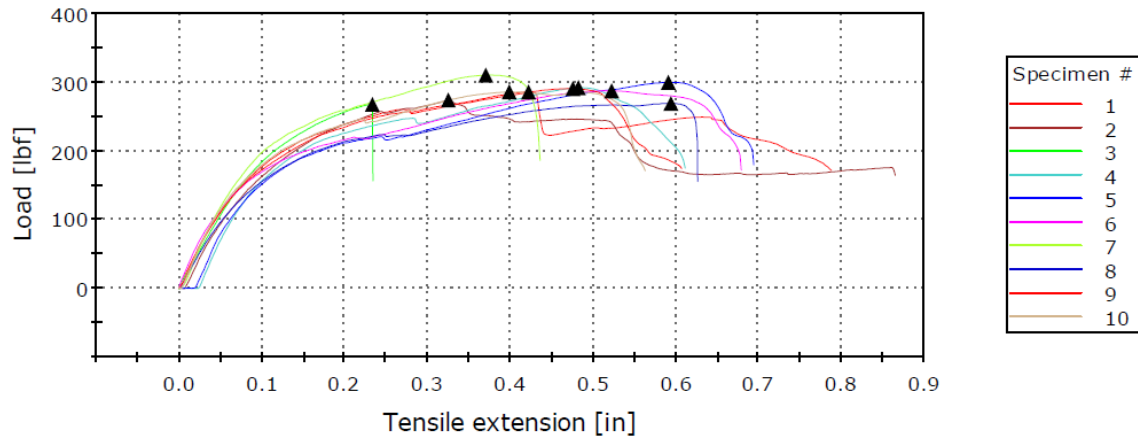


Chart No. 5
Withdrawal Grip Fast Gold Triple Coated Deck Screws #9 x 2"

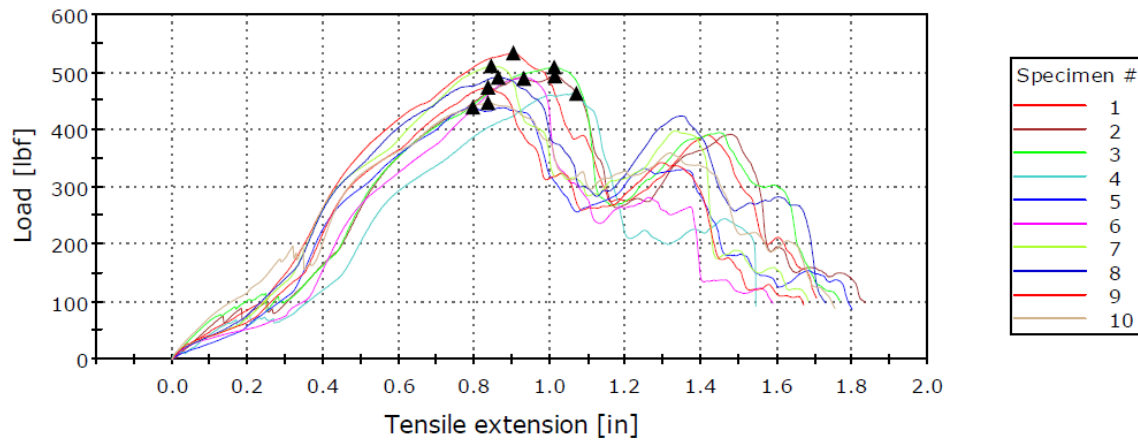


Chart No. 6
Lateral Grip Fast Cabinet Screws Exterior Coated #10 x 2-1/2"

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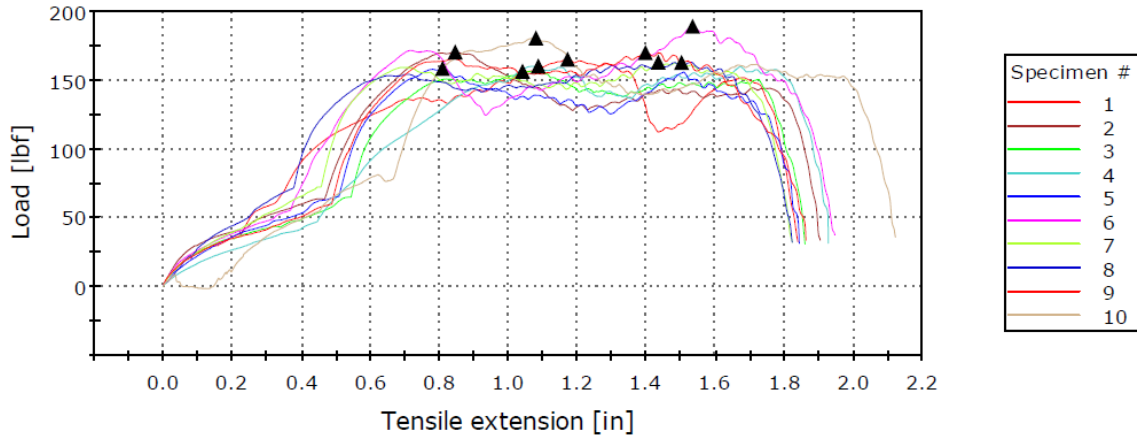


Chart No. 7
Lateral Grip Fast Clipped Head Framing Nails 2-3/8" x 0.113"

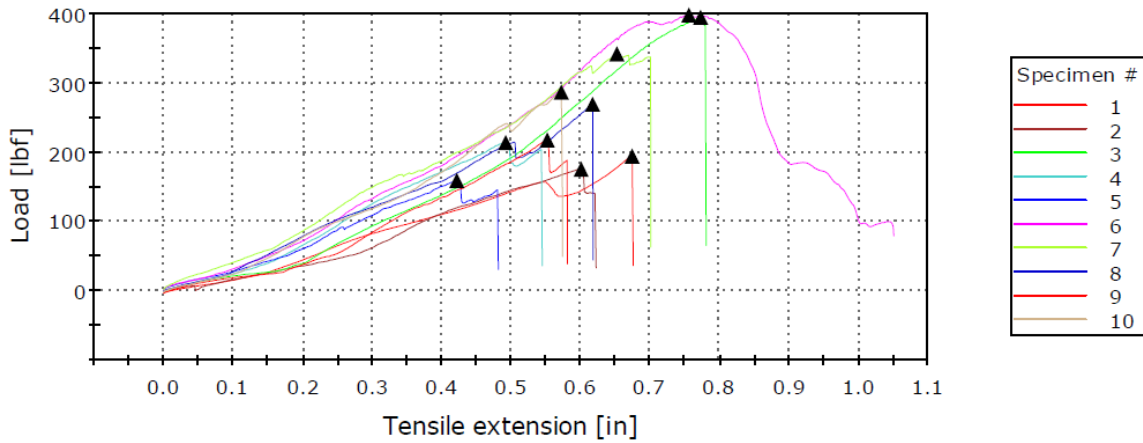


Chart No. 8
Lateral Grip Fast Coarse Tread Drywall Screws #6 x 1-5/8"

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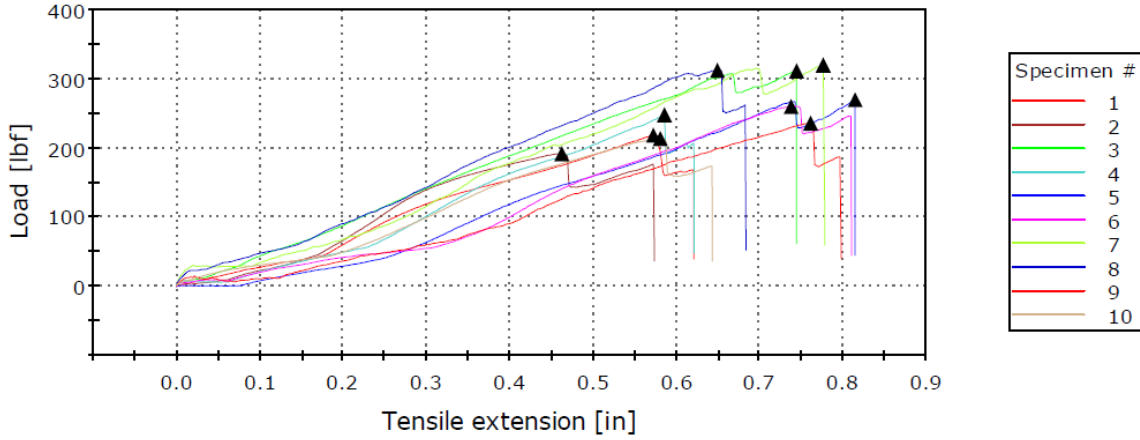


Chart No. 9
Lateral Grip Fast Fine Tread Drywall Screws #6 x 1-5/8"

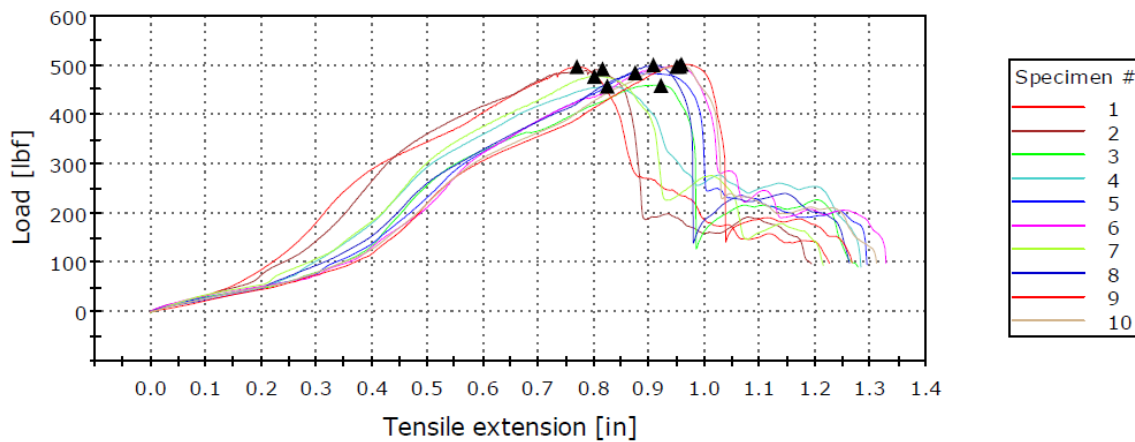


Chart No. 10
Lateral Grip Fast Gold Triple Coated Deck Screws #9 x 2"



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REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	07/30/21	N/A	Original Report Issue