

LENTON® LOCK S1 Transitions - Independent Test Data

ASTM® A615 Grade 60

Part Number	Independent Lab Test Report Number	Rebar (1)			Rebar (2)			Independent Test Result		IBC® and ACI® 318 TYPE 1	
		Size		Area (in ²)	Size		Area (in ²)	*Actual Stress Achieved (psi)	% fy	Required Stress 125% x Specified Yield (125% x 60,000) psi	TYPE 1 Pass/ Fail
		in-lb	[mm]		in-lb	[mm]					
LL16S1	TJ7595	5	[16]	0.31	4	[12]	0.20	102,465	171%	75,000	Pass
LL16S1	TJ7597	5	[16]	0.31	4	[12]	0.20	101,970	170%	75,000	Pass
LL16S1	TJ7616	5	[16]	0.31	4	[12]	0.20	109,345	182%	75,000	Pass
LL20S1	TJ7627	6	[20]	0.44	5	[16]	0.31	104,784	175%	75,000	Pass
LL20S1	TJ7628	6	[20]	0.44	5	[16]	0.31	104,539	174%	75,000	Pass
LL20S1	TJ7629	6	[20]	0.44	5	[16]	0.31	103,290	172%	75,000	Pass
LL22S1	TJ7440	7	[22]	0.60	6	[20]	0.44	105,170	175%	75,000	Pass
LL22S1	TJ7441	7	[22]	0.60	6	[20]	0.44	104,559	174%	75,000	Pass
LL22S1	TJ7442	7	[22]	0.60	6	[20]	0.44	105,839	176%	75,000	Pass
LL25S1*	TJ7462	8	[25]	0.79	6	[20]	0.44	104,661	174%	75,000	Pass
LL25S1*	TJ7463	8	[25]	0.79	6	[20]	0.44	104,111	174%	75,000	Pass
LL25S1*	TJ7464	8	[25]	0.79	6	[20]	0.44	107,798	180%	75,000	Pass
LL25S1	TJ7429	8	[25]	0.79	7	[22]	0.60	104,122	174%	75,000	Pass
LL25S1	TJ7430	8	[25]	0.79	7	[22]	0.60	102,835	171%	75,000	Pass
LL25S1	TJ7431	8	[25]	0.79	7	[22]	0.60	102,952	172%	75,000	Pass
LL28S1	TJ7424	9	[28]	1.00	8	[25]	0.79	99,511	166%	75,000	Pass
LL28S1	TJ7425	9	[28]	1.00	8	[25]	0.79	101,397	169%	75,000	Pass
LL28S1	TJ7426	9	[28]	1.00	8	[25]	0.79	100,606	168%	75,000	Pass
LL32S1*	TJ7471	10	[32]	1.27	8	[25]	0.79	102,641	171%	75,000	Pass
LL32S1*	TJ7472	10	[32]	1.27	8	[25]	0.79	101,095	168%	75,000	Pass
LL32S1*	TJ7473	10	[32]	1.27	8	[25]	0.79	102,309	171%	75,000	Pass
LL32S1	TJ7519	10	[32]	1.27	9	[28]	1.00	105,666	176%	75,000	Pass
LL32S1	TJ7520	10	[32]	1.27	9	[28]	1.00	105,151	175%	75,000	Pass
LL32S1	TJ7521	10	[32]	1.27	9	[28]	1.00	104,312	174%	75,000	Pass
LL36S1	TJ7451	11	[36]	1.56	10	[32]	1.27	100,809	168%	75,000	Pass
LL36S1	TJ7452	11	[36]	1.56	10	[32]	1.27	103,615	173%	75,000	Pass
LL36S1	TJ7453	11	[36]	1.56	10	[32]	1.27	97,191	162%	75,000	Pass
LL43S1	TJ7529	14	[43]	2.25	11	[36]	1.56	98,533	164%	75,000	Pass
LL43S1	TJ7530	14	[43]	2.25	11	[36]	1.56	101,498	169%	75,000	Pass
LL43S1	TJ7531	14	[43]	2.25	11	[36]	1.56	96,929	162%	75,000	Pass
LL57S1	TJ7592	18	[57]	4.00	14	[43]	2.25	100,386	167%	75,000	Pass
LL57S1	TJ7593	18	[57]	4.00	14	[43]	2.25	102,486	171%	75,000	Pass
LL57S1	TJ7594	18	[57]	4.00	14	[43]	2.25	103,648	173%	75,000	Pass

+ Two Step Transition

*** Actual performance also exceeds ACI 318 Type 1 and Type 2 for ASTM A706 Grade 60.**

Table is a summary of ELEMENT MATERIALS TECHNOLOGY Independent Laboratory tests. Test reports are available upon request.

WARNING:

1. ERICO products shall be installed and used only as indicated in ERICO product instruction sheets and training materials. Instruction sheets are available at www.erico.com and from your ERICO customer service representative.
2. ERICO products must never be used for a purpose other than the purpose for which they were designed or in a manner that exceeds specified load ratings.
3. All instructions must be completely followed to ensure proper and safe installation and performance.
4. Improper installation, misuse, misapplication or other failure to completely follow ERICO's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death.

The customer is responsible for:

- a. Conformance to all governing codes
- b. The integrity of structures to which the products are attached including their capability of safely accepting the loads imposed, as evaluated by a qualified engineer.
- c. Using appropriate industry standard hardware as noted above.

SAFETY INSTRUCTIONS:

All governing codes and regulations and those required by the job site must be observed. Always use appropriate safety equipment such as eye protection, hard hat, and gloves as appropriate to the application.

ACI is a registered trademark of the American Concrete Institute
 ASTM is a registered trademark of the American Society for Testing and Materials
 IBC is a registered trademark of the International Code Council Inc.

CADDY, CADWELD, CRITECH, ERICO, ERIFLEX, ERITECH, and LENTON are registered trademarks of ERICO International Corporation.

LENTON®

TECHNICAL SUPPORT:
www.erico.com

CRSLLS1_A

1 of 1

© 2013 ERICO International Corporation

ERICO®