

# LENTON® LOCK B1 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		IBC and ACI 318 TYPE 2	
		Size		Area (in²)	Size		Area (in²)	*Actual Stress Achieved (psi)	% fy	Required Stress 125% x Specified Yield (125% x 60,000) psi	TYPE 1 Pass/ Fail	Required Stress Specified Tensile (90,000) psi	TYPE 2 Pass/ Fail
		in-lb	[mm]		in-lb	[mm]							
LL12B1	TJ8985	4	[12]	0.20	3	[10]	0.11	103,818	173%	75,000	Pass	90,000	Pass
LL12B1	TJ8986	4	[12]	0.20	3	[10]	0.11	106,236	177%	75,000	Pass	90,000	Pass
LL12B1	TJ8987	4	[12]	0.20	3	[10]	0.11	106,364	177%	75,000	Pass	90,000	Pass
LL16B1	TJ8587	5	[16]	0.31	4	[12]	0.20	108,275	180%	75,000	Pass	90,000	Pass
LL16B1	TJ8588	5	[16]	0.31	4	[12]	0.20	108,225	180%	75,000	Pass	90,000	Pass
LL16B1	TJ8589	5	[16]	0.31	4	[12]	0.20	108,310	181%	75,000	Pass	90,000	Pass
LL20B1	TJ3306	6	[20]	0.44	5	[16]	0.31	105,935	177%	75,000	Pass	90,000	Pass
LL20B1	TJ3307	6	[20]	0.44	5	[16]	0.31	105,852	176%	75,000	Pass	90,000	Pass
LL20B1	TJ3308	6	[20]	0.44	5	[16]	0.31	106,771	178%	75,000	Pass	90,000	Pass
LL22B1	TJ3016	7	[22]	0.60	6	[20]	0.44	95,002	158%	75,000	Pass	90,000	Pass
LL22B1	TJ3017	7	[22]	0.60	6	[20]	0.44	95,518	159%	75,000	Pass	90,000	Pass
LL22B1	TJ3018	7	[22]	0.60	6	[20]	0.44	95,927	160%	75,000	Pass	90,000	Pass
LL25B1*	TJ8584	8	[25]	0.79	6	[20]	0.44	104,980	175%	75,000	Pass	90,000	Pass
LL25B1*	TJ8585	8	[25]	0.79	6	[20]	0.44	104,909	175%	75,000	Pass	90,000	Pass
LL25B1*	TJ8586	8	[25]	0.79	6	[20]	0.44	104,695	174%	75,000	Pass	90,000	Pass
LL25B1	TJ3045	8	[25]	0.79	7	[22]	0.60	103,783	173%	75,000	Pass	90,000	Pass
LL25B1	TJ3046	8	[25]	0.79	7	[22]	0.60	104,308	174%	75,000	Pass	90,000	Pass
LL25B1	TJ3047	8	[25]	0.79	7	[22]	0.60	104,317	174%	75,000	Pass	90,000	Pass
LL28B1	TJ3041	9	[28]	1.00	8	[25]	0.79	97,196	162%	75,000	Pass	90,000	Pass
LL28B1	TJ3042	9	[28]	1.00	8	[25]	0.79	97,659	163%	75,000	Pass	90,000	Pass
LL28B1	TJ3043	9	[28]	1.00	8	[25]	0.79	97,690	163%	75,000	Pass	90,000	Pass
LL32B1*	TJ8581	10	[32]	1.27	8	[25]	0.79	108,606	181%	75,000	Pass	90,000	Pass
LL32B1*	TJ8582	10	[32]	1.27	8	[25]	0.79	108,646	181%	75,000	Pass	90,000	Pass
LL32B1*	TJ8583	10	[32]	1.27	8	[25]	0.79	108,768	181%	75,000	Pass	90,000	Pass
LL32B1	TJ3011	10	[32]	1.27	9	[28]	1.00	95,657	159%	75,000	Pass	90,000	Pass
LL32B1	TJ3012	10	[32]	1.27	9	[28]	1.00	95,267	159%	75,000	Pass	90,000	Pass
LL32B1	TJ3013	10	[32]	1.27	9	[28]	1.00	95,535	159%	75,000	Pass	90,000	Pass
LL36B1	TJ3024	11	[36]	1.56	10	[32]	1.27	101,812	170%	75,000	Pass	90,000	Pass
LL36B1	TJ3025	11	[36]	1.56	10	[32]	1.27	102,100	170%	75,000	Pass	90,000	Pass
LL36B1	TJ3026	11	[36]	1.56	10	[32]	1.27	102,350	171%	75,000	Pass	90,000	Pass
LL43B1	TJ8666	14	[43]	2.25	11	[36]	1.56	103,828	173%	75,000	Pass	90,000	Pass
LL43B1	TJ8667	14	[43]	2.25	11	[36]	1.56	95,635	159%	75,000	Pass	90,000	Pass
LL43B1	TJ8668	14	[43]	2.25	11	[36]	1.56	104,074	173%	75,000	Pass	90,000	Pass
LL57B1	TJ8672	18	[57]	4.00	14	[43]	2.25	102,874	171%	75,000	Pass	90,000	Pass
LL57B1	TJ8673	18	[57]	4.00	14	[43]	2.25	104,071	173%	75,000	Pass	90,000	Pass
LL57B1	TJ8674	18	[57]	4.00	14	[43]	2.25	97,851	163%	75,000	Pass	90,000	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 and Professional Service Industries, Inc. (commissioned by Benchmark Consulting and Inspection) 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](http://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.

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