

nVent LENTON Lock S1MG Step-Up Test Data

ASTM® A615 Grade 60

Part Number	Lab Test Report Number	Rebar		Test Result		IBC® and ACI® 318 TYPE 1		IBC and ACI 318 TYPE 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	Required Stress Specified Tensile (90,000) psi	TYPE 2 Pass / Fail
		in-lb	[mm]							
LL12S1MG	TK5172	3	[10]	0.11	111,018	185%	75,000	Pass	90,000	Pass
LL12S1MG	TK5173	3	[10]	0.11	106,745	178%	75,000	Pass	90,000	Pass
LL12S1MG	TK5174	3	[10]	0.11	105,918	177%	75,000	Pass	90,000	Pass
LL16S1MG	TK5143	4	[12]	0.20	96,705	161%	75,000	Pass	90,000	Pass
LL16S1MG	TK5144	4	[12]	0.20	91,420	152%	75,000	Pass	90,000	Pass
LL16S1MG	TK5145	4	[12]	0.20	90,890	151%	75,000	Pass	90,000	Pass
LL20S1MG	TK5140	5	[16]	0.31	110,110	184%	75,000	Pass	90,000	Pass
LL20S1MG	TK5141	5	[16]	0.31	109,005	182%	75,000	Pass	90,000	Pass
LL20S1MG	TK5142	5	[16]	0.31	111,825	186%	75,000	Pass	90,000	Pass
LL22S1MG	TK5137	6	[20]	0.44	98,820	165%	75,000	Pass	90,000	Pass
LL22S1MG	TK5138	6	[20]	0.44	97,150	162%	75,000	Pass	90,000	Pass
LL22S1MG	TK5139	6	[20]	0.44	98,209	164%	75,000	Pass	90,000	Pass
LL25S1MG	TK5134	7	[22]	0.60	95,325	159%	75,000	Pass	90,000	Pass
LL25S1MG	TK5135	7	[22]	0.60	95,382	159%	75,000	Pass	90,000	Pass
LL25S1MG	TK5136	7	[22]	0.60	96,062	160%	75,000	Pass	90,000	Pass
LL28S1MG	TK5146	8	[25]	0.79	97,266	162%	75,000	Pass	90,000	Pass
LL28S1MG	TK5147	8	[25]	0.79	96,282	160%	75,000	Pass	90,000	Pass
LL28S1MG	TK5148	8	[25]	0.79	96,527	161%	75,000	Pass	90,000	Pass
LL32S1MG	TK5131	9	[28]	1.00	97,122	162%	75,000	Pass	90,000	Pass
LL32S1MG	TK5132	9	[28]	1.00	96,000	160%	75,000	Pass	90,000	Pass
LL32S1MG	TK5133	9	[28]	1.00	91,093	152%	75,000	Pass	90,000	Pass
LL36S1MG	TK6507	10	[32]	1.27	96,522	161%	75,000	Pass	90,000	Pass
LL36S1MG	TK6508	10	[32]	1.27	97,680	163%	75,000	Pass	90,000	Pass
LL36S1MG	TK6509	10	[32]	1.27	98,715	165%	75,000	Pass	90,000	Pass

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

Table is a summary of Laboratory tests. Test reports are available upon request.

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WARNING:

- nVent products shall be installed and used only as indicated in nVent product instruction sheets and training materials. Instruction sheets are available at www.nVent.com and from your nVent customer service representative.
- nVent 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.
- All instructions must be completely followed to ensure proper and safe installation and performance.
- Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

The customer is responsible for:

- Conformance to all governing codes.
- 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.
- 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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