

nVent LENTON Ultimate Caging/Positional Couplers Independent Test Data for ASTM® A706 Grade 80



Part Numbers	Rebar			Independent Test Lab Results			IBC & ACI 318 Type 1		IBC & ACI 318 Type 2	
	Size		Area (in ²)	Report Number	Tested Results* (psi)	% f _y	Code Requirements 125% f _y (1.25 X 80,000) psi	Type 1 Pass/Fail	Code Requirements 100% f _u (100,000) psi	Type 2 Pass/Fail
	in-lb	mm								
LU25PT15 & LU25MS15 & LU25MT12	8	25	0.79	TK3492	110,996	139%	100,000	Pass	100,000	Pass
TK3493				111,551	139%	Pass				
TK3494				111,590	140%	Pass				
LU28PT15 & LU28MS15 & LU28MT12	9	28	1.00	TK3482	115,289	144%	100,000	Pass	100,000	Pass
TK3483				117,249	147%	Pass				
TK3484				115,633	145%	Pass				
LU32PT15 & LU32MS15 & LU32MT12	10	32	1.27	TK3502	114,598	143%	100,000	Pass	100,000	Pass
TK3503				114,169	143%	Pass				
TK3504				115,611	145%	Pass				
LU36PT15 & LU36MS15 & LU36MT12	11	36	1.56	TK3512	117,229	147%	100,000	Pass	100,000	Pass
TK3513				116,896	146%	Pass				
TK3516				116,168	145%	Pass				
LU43TPT15 & LU43TMS15 & LU43TMT12	14	43	2.25	TK4495	110,236	138%	100,000	Pass	100,000	Pass
TK4496				110,410	138%	Pass				
TK4497				110,081	138%	Pass				
LU57TPT15 & LU57TMS15 & LU57TMT12	18	57	4.00	TK3469	109,613	137%	100,000	Pass	100,000	Pass
TK3470				109,889	137%	Pass				
TK3472				110,673	138%	Pass				

* Tested performance also exceeds IBC and ACI 318 Type 1 and Type 2 for ASTM A706 Grade 60 and A615 Grades 60, 75 and 80.

Definitions:

ACI 318, Type 1, Section 18.2.7.1(a) - A Type 1 mechanical splice shall develop in tension or compression, as required, at least 1.25f_y of the spliced bar. (1.25f_y=125% of the specified yield strength).

ACI 318, Type 2, Section 18.2.7.1(b) - A Type 2 mechanical splice shall meet the requirements of Type 1 and shall be capable of developing the specified tensile strength of the spliced bar (f_u).

Notes:

Table is a summary of Benchmark Holdings International independent laboratory tests. Test reports available upon request.



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