

# nVent LENTON Ultimate Mechanical Anchors Independent Test Data for ASTM® A706 Grade 80



## DR14 SERIES - HEAD AREA EXCEEDS 10X BAR AREA (NET 9X)

Part Numbers	Rebar			Independent Test Lab Results			IBC, ACI 318, ASTM A970	
	Size	Area (in <sup>2</sup> )	Report Number	Tested Results* (psi)	% f <sub>y</sub>	Code Requirements 100% f <sub>u</sub> (100,000) psi	Class A, B, & HA Pass/Fail	
	in-lb							mm
LU12DR14	4	12	0.20	TK4078	119,695	150%	100,000	Pass
				TK4079	121,785	152%		Pass
				TK4080	118,475	148%		Pass
LU16DR14	5	16	0.31	TK4089	117,910	147%	100,000	Pass
				TK4090	118,494	148%		Pass
				TK4091	118,577	148%		Pass
LU20DR14	6	20	0.44	TK4094	117,073	146%	100,000	Pass
				TK4095	117,286	147%		Pass
				TK4096	117,170	147%		Pass
LU22DR14	7	22	0.60	TK4467	116,192	145%	100,000	Pass
				TK4468	116,233	145%		Pass
				TK4469	115,382	144%		Pass
LU25DR14	8	25	0.79	TK4480	127,644	160%	100,000	Pass
				TK4481	124,630	156%		Pass
				TK4482	124,684	156%		Pass
LU28MT12 & EL28D14	9	28	1.00	TK4172	114,534	143%	100,000	Pass
				TK4173	114,834	144%		Pass
				TK4174	114,441	143%		Pass
LU32MT12 & EL32D14	10	32	1.27	TK4106	114,895	144%	100,000	Pass
				TK4107	114,464	143%		Pass
				TK4108	113,520	142%		Pass
LU36MT12 & EL36D14	11	36	1.56	TK4159	116,419	145%	100,000	Pass
				TK4160	115,688	145%		Pass
				TK4161	115,529	144%		Pass
LU43TMT12 & EL43TD14	14	43	2.25	TK4500	110,098	138%	100,000	Pass
				TK4501	110,394	138%		Pass
				TK4502	107,174	134%		Pass
LU57TMT12 & EL57TD14	18	57	4.00	TK4551	115,877	145%	100,000	Pass
				TK4552	116,799	146%		Pass
				TK4565	115,944	145%		Pass

\* Tested performance also exceeds ACI 318 & ASTM A970 for ASTM A706 Grade 60 and A615 Grades 60, 75 and 80.

### Definitions:

ACI 318, Section 20.2.1.6 - Headed Deformed bars shall conform to ASTM A970, including Annex A1 requirements for Class HA head dimensions.

ASTM A970 requirements:

Class A, Section 6.3.1.1 – Develop the minimum specified tensile strength of the reinforcing bar

Class B, Section 6.3.1.2 – Develop the minimum specified tensile strength and the minimum specified elongation of the reinforcing bar

Class HA, Section A1.2.1 – Develop the minimum specified tensile strength of the reinforcing bar

### Notes:

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

DR14 Series - 9x net area



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