

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



DR16 SERIES - HEAD AREA EXCEEDS 5X BAR AREA (NET 4X)

Part Numbers	Rebar			Independent Test Lab Results			IBC, ACI 318, ASTM A970	
	Size	Area (in ²)	Report Number	Tested Results* (psi)	% f _y	Code Requirements 100% f _u (100,000) psi	Class A, B, & HA Pass/Fail	
	in-lb							mm
LU12DR16	4	12	0.20	TK4073	118,135	148%	100,000	Pass
				TK4074	121,585	152%		Pass
				TK4075	118,860	149%		Pass
LU16DR16	5	16	0.31	TK4084	118,587	148%	100,000	Pass
				TK4085	117,858	147%		Pass
				TK4086	117,997	148%		Pass
LU20DR16	6	20	0.44	TK4099	117,064	146%	100,000	Pass
				TK4101	116,798	146%		Pass
				TK4102	117,384	147%		Pass
LU22DR16	7	22	0.60	TK4470	116,550	146%	100,000	Pass
				TK4471	116,510	146%		Pass
				TK4472	116,212	145%		Pass
LU25DR16	8	25	0.79	TK4475	124,309	155%	100,000	Pass
				TK4476	127,038	159%		Pass
				TK4477	124,911	156%		Pass
LU28DR16	9	28	1.00	TK4177	114,715	143%	100,000	Pass
				TK4178	117,285	147%		Pass
				TK4179	114,729	143%		Pass
LU32DR16	10	32	1.27	TK4111	115,098	144%	100,000	Pass
				TK4150	114,732	143%		Pass
				TK4151	114,451	143%		Pass
LU36DR16	11	36	1.56	TK4154	115,337	144%	100,000	Pass
				TK4155	115,341	144%		Pass
				TK4156	116,234	145%		Pass
LU43TMT12 & EL43TD16	14	43	2.25	TK4505	109,966	138%	100,000	Pass
				TK4506	110,336	138%		Pass
				TK4507	110,403	138%		Pass
LU57TMT12 & EL57TD16	18	57	4.00	TK4592	108,565	136%	100,000	Pass
				TK4593	110,414	138%		Pass
				TK4595	110,497	138%		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.

DR16 Series - 4x net area



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