

nVent LENTON Connect B12 Transitions - Tensile Test Data

ASTM® A615 Grade 60 and ASTM A706 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 1.25 x Specified Yield	TYPE 1 Pass / Fail	Required Stress Specified Tensile	TYPE 2 Pass / Fail	
		in-lb.	[mm]								
LC16B12	TK5736	4	[12]	0.20	105,800	176%	ASTM A615 and ASTM A706 Grade 60 = 75,000 psi (125% x 60,000)	Pass	ASTM A615 Grade 60 = 80,000 psi per ACI 318-19 ASTM A615 Grade 60 = 90,000 psi per ACI 318-14 (and prior years) ASTM A706 Grade 60 = 80,000 psi per ACI 318-19 (and prior years)	Pass	
LC16B12	TK5737	4	[12]	0.20	101,910	170%		Pass		Pass	
LC16B12	TK5738	4	[12]	0.20	102,215	170%		Pass		Pass	
LC20B12	TK5768	5	[16]	0.31	101,319	169%		Pass		Pass	
LC20B12	TK5769	5	[16]	0.31	101,210	169%		Pass		Pass	
LC20B12	TK5770	5	[16]	0.31	101,142	169%		Pass		Pass	
LC22B12	TK5922	6	[20]	0.44	100,307	167%		Pass		Pass	
LC22B12	TK5923	6	[20]	0.44	100,632	168%		Pass		Pass	
LC22B12	TK5924	6	[20]	0.44	100,843	168%		Pass		Pass	
LC25B12*	TK5826	6	[20]	0.44	100,520	168%		Pass		Pass	
LC25B12*	TK5827	6	[20]	0.44	100,695	168%		Pass		Pass	
LC25B12*	TK5828	6	[20]	0.44	100,573	168%		Pass		Pass	
* Two Steps											
LC25B12	TK5850	7	[22]	0.60	101,380	169%		Pass		Pass	
LC25B12	TK5857	7	[22]	0.60	98,727	165%		Pass		Pass	
LC25B12	TK5858	7	[22]	0.60	101,058	168%		Pass		Pass	
LC28B12	TK5731	8	[25]	0.79	93,934	157%		Pass		Pass	
LC28B12	TK5876	8	[25]	0.79	97,905	163%		Pass		Pass	
LC28B12	TK5877	8	[25]	0.79	91,954	153%		Pass		Pass	
LC32B12	TK6010	9	[28]	1.00	97,176	162%		Pass		Pass	
LC32B12	TK6011	9	[28]	1.00	97,130	162%		Pass		Pass	
LC32B12	TK6012	9	[28]	1.00	96,819	161%		Pass		Pass	
LC36B12	TK5878	10	[32]	1.27	95,630	159%		Pass		Pass	
LC36B12	TK5879	10	[32]	1.27	101,024	168%		Pass		Pass	
LC36B12	TK5880	10	[32]	1.27	101,443	169%		Pass		Pass	

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

The standard nVent LENTON Connect is designed to transition from the bar size identified on the coupler to the next smaller bar size (*in some cases transition two smaller bar sizes). The couplers can also connect two bars of the same size where BOTH bars are one size smaller than the size identified on the coupler (*in some cases connect two smaller bar sizes).

