

D390 Taper-Lock Grout Sleeve Type 2 Compliance

- Testing was conducted on D390 Taper-Lock Grout Sleeve Couplers using D490 High Strength Splicing Grout.
- All testing was done by an independent third party laboratory per AC133 using bar grade ASTM A706 GR80.
- Installation procedure outlined in Dayton Superior Installation Instructions.
- Size 18 reached the mechanical limit of the testing fixture without failing.
- Please contact Technical support with any questions.

Test ID	Bar Size	Coupler Type	Reinforcing Bar Type	Bar Area (in ²)	Tensile Strength (kips)	Tensile Strength (ksi)	%Fy 60 KSI	Type 1 125% of Fy	%Fu 100 KSI	Type 2 100% of Fu
10688	4	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.20	21.6	107.8	180%	Pass	108%	Pass
10689	4	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.20	22.0	110.0	183%	Pass	110%	Pass
10690	4	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.20	22.7	113.4	189%	Pass	113%	Pass
10691	4	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.20	22.2	110.9	185%	Pass	111%	Pass
10692	4	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.20	22.1	110.5	184%	Pass	111%	Pass
10693	5	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.31	36.1	116.3	194%	Pass	116%	Pass
10694	5	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.31	37.4	120.7	201%	Pass	121%	Pass
10695	5	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.31	35.8	115.6	193%	Pass	116%	Pass
10696	5	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.31	35.7	115.0	192%	Pass	115%	Pass
10697	5	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.31	36.3	117.1	195%	Pass	117%	Pass
10710	6	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.44	50.8	115.5	193%	Pass	116%	Pass
10711	6	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.44	48.4	110.1	184%	Pass	110%	Pass
10712	6	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.44	49.2	111.7	186%	Pass	112%	Pass
10713	6	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.44	50.9	115.8	193%	Pass	116%	Pass
10714	6	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.44	49.1	111.5	186%	Pass	112%	Pass
10716	7	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.60	63.7	106.2	177%	Pass	106%	Pass
10717	7	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.60	65.9	109.8	183%	Pass	110%	Pass
10718	7	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.60	67.3	112.1	187%	Pass	112%	Pass
10719	7	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.60	69.8	116.3	194%	Pass	116%	Pass
10720	7	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.60	69.4	115.7	193%	Pass	116%	Pass
11360	8	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.79	83.9	106.2	177%	Pass	106%	Pass
11361	8	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.79	83.4	105.6	176%	Pass	106%	Pass
11362	8	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.79	84.0	106.3	177%	Pass	106%	Pass
11363	8	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.79	83.6	105.8	176%	Pass	106%	Pass
11364	8	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	0.79	83.1	105.2	175%	Pass	105%	Pass
10723	9	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.00	113.5	113.5	189%	Pass	114%	Pass
10724	9	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.00	105.8	105.8	176%	Pass	106%	Pass
10725	9	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.00	113.0	113.0	188%	Pass	113%	Pass
10726	9	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.00	113.5	113.5	189%	Pass	114%	Pass
10727	9	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.00	115.6	115.6	193%	Pass	116%	Pass
11365	10	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.27	139.7	110.0	183%	Pass	110%	Pass
11366	10	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.27	135.6	106.8	178%	Pass	107%	Pass
11367	10	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.27	138.4	108.9	182%	Pass	109%	Pass
11368	10	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.27	138.4	108.9	182%	Pass	109%	Pass
11369	10	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.27	139.7	110.0	183%	Pass	110%	Pass
10736	11	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.56	177.7	113.9	190%	Pass	114%	Pass
10737	11	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.56	167.7	107.5	179%	Pass	108%	Pass
10738	11	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.56	162.1	103.9	173%	Pass	104%	Pass
10739	11	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.56	177.1	113.6	189%	Pass	114%	Pass
10740	11	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	1.56	180.7	115.9	193%	Pass	116%	Pass
10767	14	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	2.25	264.8	117.7	196%	Pass	118%	Pass
10768	14	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	2.25	264.5	117.5	196%	Pass	118%	Pass
10769	14	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	2.25	264.6	117.6	196%	Pass	118%	Pass
10770	14	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	2.25	268.8	119.5	199%	Pass	120%	Pass
10771	14	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	2.25	257.9	114.6	191%	Pass	115%	Pass
10879	18	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	4.00	421.1	105.3	176%	Pass	105%	Pass
10880	18	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	4.00	422	105.5	176%	Pass	106%	Pass
10881	18	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	4.00	421.4	105.4	176%	Pass	105%	Pass
10882	18	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	4.00	423.5	105.9	177%	Pass	106%	Pass
10883	18	D390 Taper-Lock Grout Sleeve	ASTM A706 GR80	4.00	422.1	105.5	176%	Pass	106%	Pass