



D410 Sleeve-Lock Double Ended Grout Sleeve Type 2 Compliance

- Testing was conducted on D410 Sleeve-Lock Double Ended Grout Sleeve Couplers with D490 Sleeve-Lock Grout
- All testing was done by an independent third party laboratory using bar grade ASTM A615 GR60.
- Installation procedure outlined in Dayton Superior Installation Instructions.
- Please contact Technical support with any questions.

Test ID	Coupler Size	Coupler Type	Reinforcing Bar Type	Bar Area (in2)	Tensile Strength (kips)	Tensile Strength (ksi)	%Fy 60 KSI	Type 1 125% of Fy	%Fu 90 KSI	Type 2 100% of Fu
1677-1	4,5	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.31	29.2	94.2	157%	Pass	105%	Pass
1677-2	4,5	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.31	29.0	93.6	156%	Pass	104%	Pass
1677-3	4,5	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.31	29.4	94.8	158%	Pass	105%	Pass
1677-4	4,5	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.31	29.2	94.3	157%	Pass	105%	Pass
1677-5	4,5	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.31	29.3	94.5	158%	Pass	105%	Pass
1677-6	6,7	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.60	59.2	98.6	164%	Pass	110%	Pass
1677-7	6,7	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.60	57.7	96.2	160%	Pass	107%	Pass
1677-8	6,7	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.60	57.6	96.1	160%	Pass	107%	Pass
1677-9	6,7	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.60	55.2	92.0	153%	Pass	102%	Pass
1677-10	6,7	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	0.60	57.2	95.3	159%	Pass	106%	Pass
1677-11	8,9	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.00	95.3	95.3	159%	Pass	106%	Pass
1677-12	8,9	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.00	94.0	94.0	157%	Pass	104%	Pass
1677-13	8,9	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.00	94.7	94.7	158%	Pass	105%	Pass
1677-14	8,9	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.00	104.8	104.8	175%	Pass	116%	Pass
1677-15	8,9	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.00	95.4	95.4	159%	Pass	106%	Pass
1677-16	10	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.27	123.9	97.6	163%	Pass	108%	Pass
1677-17	10	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.27	122.4	96.4	161%	Pass	107%	Pass
1677-18	10	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.27	120.7	95.0	158%	Pass	106%	Pass
1677-19	10	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.27	123.5	97.3	162%	Pass	108%	Pass
1677-20	10	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.27	123.5	97.2	162%	Pass	108%	Pass
1677-21	11	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.56	158.9	101.9	170%	Pass	113%	Pass
1677-22	11	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.56	158.1	101.3	169%	Pass	113%	Pass
1677-23	11	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.56	162.2	104.0	173%	Pass	116%	Pass
1677-24	11	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.56	160.6	102.9	172%	Pass	114%	Pass
1677-25	11	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	1.56	162.8	104.4	174%	Pass	116%	Pass
1677-26	14	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	2.25	212.7	94.5	158%	Pass	105%	Pass
1677-27	14	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	2.25	211.5	94.0	157%	Pass	104%	Pass
1677-28	14	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	2.25	204.7	91.0	152%	Pass	101%	Pass
1677-29	14	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	2.25	216.6	96.3	160%	Pass	107%	Pass
1677-30	14	D410 Sleeve-Lock Double Ended Grout Sleeve	ASTM A615 GR 60	2.25	213.1	94.7	158%	Pass	105%	Pass