

ICC ES Cyclic Test Averages on Dayton Superior US/MC Splices

ICC Evaluation Report No. 5216

Bar Size	Bar Area (sq. in.)	Cyclic Load Levels (Stages 1, 2, 3)				Tensile Strength (Stage 4)		
		P _{min} (kips)	P _{max1} (kips)	P _{max2} (kips)	P _{max3} (kips)	(kips)	(ksi)	%f _y
#4 [#13]	0.20	-6.0	11.4	12.14	12.92	19.79	99.00	164.8%
#5 [#16]	0.31	-9.3	17.7	21.68	21.62	30.17	97.32	162.2%
#6 [#19]	0.44	-13.2	25.1	26.20	27.28	42.83	97.34	162.8%
#7 [#22]	0.60	-18.0	34.2	42.08	43.88	60.64	100.94	168.2%
#8 [#25]	0.79	-23.7	45.0	48.58	53.12	79.42	100.52	167.4%
#9 [#29]	1.00	-30.0	57.0	65.54	69.84	95.20	95.54	159.2%
#10 [#32]	1.27	-38.1	72.4	80.00	83.64	124.54	98.06	163.4%
#11 [#36]	1.56	-46.8	88.9	102.96	103.00	149.02	95.52	159.2%
#14 [#43]	2.25	-67.5	128.3	143.42	158.78	220.24	97.88	163.2%
#18 [#57]	4.00	-120.0	228.0	259.3	287.2	395.3	98.7	165 %

The above are average values derived from tests performed by Wiss, Janney, Elstner Associates, Inc. in accordance with ICC's acceptance criteria AC-133. All bars met ICC's Type 2 Splice Requirements.

Note: One kip = 1,000 pounds.