

# MASONRY Laboratory Website

## Lab 3 – Evaluation of Bond Strength

Lab

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### Modulus of Rupture

Group	Load lbs (N)	Group	Load lbs (N)
PCL 1	663 (2950)	MC 1	472 (2100)
PCL 2	499 (2220)	MC 2	525 (2340)
PCL 3	540 (2400)	MC 3	466 (2070)
PCL 4	354 (1580)	MC 4	426 (1900)
PCL 5	497 (2210)	MC 5	641 (2850)
		MC 6	513 (2280)

Note:  $a=5.25$  in (133 mm),  $I=30.27$  in<sup>4</sup> (12599325 mm<sup>4</sup>) and  $c=1.81$  in (46.0 mm)

### Bond Wrench

Group	Load lbs (N)	Group	Load lbs (N)
PCL 1	175 (778)	MC 1	180 (801)
PCL 2	200 (890)	MC 2	140 (623)
PCL 3	150 (667)	MC 3	220 (979)
PCL 4	190 (845)	MC 4	190 (845)
PCL 5	215 (956)	MC 5	205 (912)
PCL 6	220 (979)	MC 6	200 (890)
PCL 7	190 (845)	MC 7	150 (667)
PCL 8	160 (712)	MC 8	200 (890)
PCL 9	230 (1020)	MC 9	200 (890)
PCL 10	170 (756)	MC 10	170 (756)
PCL 11	180 (801)	MC 11	180 (801)

		PCL 12	140 (623)	MC 12	110 (489)
		PCL 13	260 (1160)	MC 13	140 (623)
		PCL 14	160 (712)	MC 14	190 (845)
				MC 15	150 (667)
		Note: $la=14$ in (356 mm), $lb=2$ in (51mm), $warm=8.95$ lb (4.06 kg), $wbrick=3.6$ lb (1.63 kg), $I=30.27$ in <sup>4</sup> (12599325 mm <sup>4</sup> ) and $c=1.81$ in (46.0 mm)			