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Size effects in unreinforced and lightly reinforced concrete beams failing in flexure

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Reference	Cylinder strength (N/mm ²)	Cube Strength (N/mm ²)	Module of rupture (N/mm ²)	Max. aggregate size (mm)	Diameter of reinforcement (mm)	Number of reinforcement	Steel area (mm ²)	Yield strength (N/mm ²)	Ultimate strength (N/mm ²)	Percentage of reinforcement	Depth (mm)	Effective depth (mm)	Width (mm)	Span between supports (mm)	Shear span (mm)	Notch depth (mm)	Maximum applied load (kN)
Current investigation	28.2	31	4.01	8	1.84	1	2.66	597	652	0.053	50	40	100	300	150	12.5	1.36
Current investigation	28.2	31	4.01	8	1.84	2	5.32	597	652	0.053	100	80	100	600	300	25	2.36
Current investigation	28.2	31	4.01	8	1.84	3	7.98	597	652	0.053	150	120	100	900	450	37.5	3.45
Current investigation	28.2	31	4.01	8	1.84	4	10.64	597	652	0.053	200	160	100	1200	600	50	4.38
Ruiz et al (1999)	39.5		3.8	5	2.5	1	4.91	538	587	0.065	150	128	50	600	300		7.1
Ruiz et al (1999)	39.5		3.8	5	2.5	2	9.82	538	587	0.065	300	255	50	1200	600		11
Ruiz et al (1999)	39.5		3.8	5	2.5	1	4.91	538	587	0.131	75	63.8	50	300	150		3.6
Ruiz et al (1999)	39.5		3.8	5	2.5	2	9.82	538	587	0.131	150	128	50	600	300		6.4
Ruiz et al (1999)	39.5		3.8	5	2.5	4	19.64	538	587	0.131	300	255	50	1200	600		10.8
Ruiz et al (1999)	39.5		3.8	5	2.5	2	9.82	538	587	0.262	75	63.8	50	300	150		3.9
Ruiz et al (1999)	39.5		3.8	5	2.5	4	19.64	538	587	0.262	150	128	50	600	300		7
Ruiz et al (1999)	39.5		3.8	5	2.5	1	4.91	568	608	0.065	150	128	50	600	300		6.5
Ruiz et al (1999)	39.5		3.8	5	2.5	2	9.82	568	608	0.065	300	255	50	1200	600		13
Ruiz et al (1999)	39.5		3.8	5	2.5	1	4.91	568	608	0.131	75	63.8	50	300	150		4
Ruiz et al (1999)	39.5		3.8	5	2.5	2	9.82	568	608	0.131	150	128	50	600	300		6.7
Ruiz et al (1999)	39.5		3.8	5	2.5	4	19.64	568	608	0.131	300	255	50	1200	600		12
Ruiz et al (1999)	39.5		3.8	5	2.5	2	9.82	568	608	0.262	75	63.8	50	300	150		3.7
Ruiz et al (1999)	39.5		3.8	5	2.5	4	19.64	568	608	0.262	150	128	50	600	300		7.1