

Beam No	Length (mm)	Breadth (mm)	Depth (mm)	Cover (mm)	Effective Depth (mm)	d' (mm)	fck (N/sqmm)	fy (N/sqmm)	TENSION REINF		TOP-REINF		SHEAR REINF			Opening Dia (mm)	Dist of Opening from nearest support (mm)	Failure Load (KN)	Theoretical Failure Load(KN)	Beam Load Capacity Acc to IS-456:2000 (KN)	Failure Type
									DIA(mm)	NO	DIA(mm)	NO	DIA(mm)	LEGS	SPACING (mm)						
1	700	150	150	10	140	-	28.78	500.00	8	2	-	-	-	-	-	63.00	350.00	66.00	67.42	56.13	Flexure
2	700	150	150	10	140	-	28.78	500.00	10	2	-	-	-	-	-	63.00	350.00	79.50	102.74	83.23	Flexure
3	700	150	150	10	140	-	28.78	500.00	12	2	-	-	-	-	-	63.00	350.00	-	143.38	111.98	
4	700	150	150	10	140	-	27.73	500.00	8	2	-	-	-	-	-	nil	-	75.00	67.30	55.94	Shear
5	700	150	150	10	140	-	27.73	500.00	10	2	-	-	-	-	-	nil	-	86.00	102.46	82.76	Shear
6	700	150	150	10	140	-	27.73	500.00	12	2	-	-	-	-	-	nil	-	-	142.81	111.00	
7	700	150	150	10	140	20	29.20	500.00	10	2	8	2	-	-	-	63.00	350.00	76.00	99.57	56.13	Flexure
8	700	150	150	10	140	20	29.20	500.00	10	2	10	2	-	-	-	63.00	350.00	85.00	99.57	56.13	Flexure
9	700	150	1500	10	140	20	29.20	500.00	10	2	12	2	-	-	-	63.00	350.00	87.00	99.57	56.13	Flexure
10	700	150	150	10	140	20	33.92	500.00	8	2	8	2	8	2	100	63.00	350.00	74.50	67.86	56.90	Shear
11	700	150	150	10	140	20	33.92	500.00	8	2	8	2	8	2	75	63.00	350.00	85.00	67.86	56.90	Flexure
12	700	150	150	10	140	20	33.92	500.00	8	2	8	2	8	2	50	63.00	350.00	86.00	67.86	56.90	Flexure