

Lampiran 2 : Spesifikasi Material

Specification of Material

Item	Reference	Description	Specification
Aggregate	ASTM C33 - 1999	Standard Specification for Concrete Aggregate	
	NI 2 PBI - 1971	Indonesian Concrete Code	
Cement	SNI 15-2049 - 2004	Portland Cement	Standard product : Type I Special order : Type II or V
Adimixture	ASTM C494 - 1985	Standard Specification for Chemical Adimixture for Concrete	Type F : Water reducing adimixtures
Concrete	SNI 03-2847 - 2002	Indonesian Concrete Code	Compressive strength at : 28 days : 600kg/cm ² (cube)
PC Wire	JIS G 3536 - 1999	Uncoated Stress-Relieved Steel Wire and strand for Prestressed Concrete	SWPD 1
PC Bar	JIS G 3137 - 1994	Small Size Deformed Steel Bars for Prestressed Concrete	SBPDL 1275 / 1420
Spiral Wire	JIS G 3532 - 2000	Low Carbon Steel Wire	SWMA / SWMP
Join Plate	JIS G 3101 - 2004	Rolled Steel for General Structure	SS - 400
Welding	ANSI / AWS D1.1 - 1990	Structural Welding Code-steel	AWS AS.1 / E6013 NIKKO STEEL RB 26 / RD 260, LION 26, or equivalent

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Classification

Outside Diameter D	Wall Thickness E	Class	Concrete Cross Section	Unit Weight	Length L	Bending Moment		Allowable Axial Load
						Crack	Ultimate	
(mm)	(mm)		(cm ²)	(kg/cm)	(m)	(tonm)	(tonm)	(ton)
300	60	A2	452	113	6 - 10	2.50	3.76	72.66
		A3				3.00	4.66	79.76
		B				3.50	5.26	87.66
		C				4.00	6.06	95.46
350	66	A1	582	146	6 - 16	3.50	5.26	93.16
		A3				4.20	6.36	99.96
		B				5.00	7.66	106.46
		C				6.00	12.00	135.96
400	76	A2	766	191	6 - 16	5.50	8.26	121.10
		A3				6.20	9.76	117.60
		B				7.50	13.60	116.60
		C				9.00	18.00	111.00
450	100	A1	930	232	6 - 16	7.50	11.26	149.60
		A2				8.00	12.76	146.00
		A3				10.00	15.00	143.80
		B				11.00	19.00	138.10
		C				12.50	25.00	134.90
500	50	A1	1.100	290	6 - 16	10.50	15.76	185.00
		A2				12.50	18.76	181.70
		A3				14.00	21.00	178.20
		B				15.00	27.00	174.90
		C				17.00	34.00	169.00
600	130	A1	1.571	393	6 - 16	17.00	25.60	283.70
		A2				19.00	28.00	248.00
		A3				22.00	33.00	243.20
		B				25.00	43.00	226.00
		C				29.00	58.00	229.50
800	120	A1	2.504	641	6 - 24	40.00	69.00	412.00
		A2				45.00	67.60	468.20
		A3				49.00	71.00	400.70
		B				55.00	99.00	385.20
		C				65.00	130.00	370.10
1000	140	A1	3.782	946	6 - 24	75.00	112.60	614.40
		A2				81.00	121.60	646.40
		A3				95.00	142.60	689.30
		B				108.00	199.60	671.20
		C				126.00	240.60	648.70
1200	150	A1	4.946	1.207	6 - 24	126.00	190.60	769.10
		A2				134.00	201.60	791.10
		A3				146.00	234.60	746.00
		B				170.00	306.60	726.70
		C				200.00	400.60	716.20