

ปริมาณวัสดุ

งาน R.C.BOX CULVERT

SIZE

60 X 60

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	0.71	1.21	1.71	2.21
	End Protection (upper&lower part)	0.22	0.40	0.57	0.75
	Headwall (+Scour Protection)	1.41	1.93	2.44	2.96
	BAR WEIGHT (kg)				
	Box /m	49.07	88.51	123.08	157.65
	End Protection (upper&lower part)	7.38	17.41	25.10	32.79
	Headwall (+Scour Protection)	97.59	132.75	167.91	203.08
	FORMWORK (sqm)				
	Box /m	3.67	5.28	6.90	8.52
	End Protection (upper&lower part)	4.24	7.19	10.14	13.09
	Headwall (+Scour Protection)	12.18	14.46	16.74	19.02

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	0.71	1.21	1.71	2.21
	End Protection (upper&lower part)	0.22	0.40	0.57	0.75
	Headwall (+Scour Protection)	1.41	1.93	2.44	2.96
	BAR WEIGHT (kg)				
	Box /m	35.27	63.97	88.29	112.60
	End Protection (upper&lower part)	7.38	17.41	25.10	32.79
	Headwall (+Scour Protection)	97.59	132.75	167.91	203.08
	FORMWORK (sqm)				
	Box /m	3.67	5.28	6.90	8.52
	End Protection (upper&lower part)	4.24	7.19	10.14	13.09
	Headwall (+Scour Protection)	12.18	14.46	16.74	19.02

SIZE

90 X 60

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	0.90	1.58	2.26	2.95
	End Protection (upper&lower part)	0.29	0.53	0.77	1.01
	Headwall (+Scour Protection)	1.60	2.44	3.20	3.96
	BAR WEIGHT (kg)				
	Box /m	62.57	115.24	162.81	210.38
	End Protection (upper&lower part)	11.12	24.55	35.45	46.35
	Headwall (+Scour Protection)	111.20	158.74	206.28	253.82
	FORMWORK (sqm)				
	Box /m	4.07	5.98	7.90	9.82
	End Protection (upper&lower part)	5.29	9.26	13.24	17.21
	Headwall (+Scour Protection)	13.40	16.59	19.78	22.97

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	0.83	1.46	2.09	2.72
	End Protection (upper&lower part)	0.29	0.53	0.77	1.01
	Headwall (+Scour Protection)	1.60	2.31	3.02	3.73
	BAR WEIGHT (kg)				
	Box /m	44.59	81.69	114.25	146.80
	End Protection (upper&lower part)	10.73	23.89	34.53	45.17
	Headwall (+Scour Protection)	110.37	157.73	205.08	252.43
	FORMWORK (sqm)				
	Box /m	3.97	5.88	7.80	9.72
	End Protection (upper&lower part)	5.16	9.02	12.89	16.75
	Headwall (+Scour Protection)	13.03	16.17	19.30	22.44

SIZE

90 X 60

(S x D)

D



FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	0.83	1.46	2.09	2.72
	End Protection (upper&lower part)	0.29	0.53	0.77	1.01
	Headwall (+Scour Protection)	1.60	2.31	3.02	3.73
	BAR WEIGHT (kg)				
	Box /m	39.19	71.83	100.07	128.31
	End Protection (upper&lower part)	10.73	23.89	34.53	45.17
	Headwall (+Scour Protection)	110.37	157.73	205.08	252.43
	FORMWORK (sqm)				
	Box /m	3.97	5.88	7.80	9.72
	End Protection (upper&lower part)	5.16	9.02	12.89	16.75
	Headwall (+Scour Protection)	13.03	16.17	19.30	22.44

SIZE

90 X 90

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	1.02	1.75	2.50	3.25
	End Protection (upper&lower part)	0.29	0.53	0.77	1.01
	Headwall (+Scour Protection)	2.74	3.77	4.80	5.84
	BAR WEIGHT (kg)				
	Box /m	66.35	123.52	172.84	222.16
	End Protection (upper&lower part)	11.12	25.45	36.53	47.61
	Headwall (+Scour Protection)	156.89	212.83	268.77	324.71
	FORMWORK (sqm)				
	Box /m	5.27	7.78	10.30	12.82
	End Protection (upper&lower part)	5.53	9.62	13.72	17.81
	Headwall (+Scour Protection)	20.32	23.51	26.70	29.89
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	0.95	1.64	2.33	3.02
	End Protection (upper&lower part)	0.29	0.53	0.77	1.01
	Headwall (+Scour Protection)	2.60	3.56	4.52	5.48
	BAR WEIGHT (kg)				
	Box /m	48.37	89.97	124.28	158.58
	End Protection (upper&lower part)	10.73	24.79	35.61	46.43
	Headwall (+Scour Protection)	155.74	211.50	267.25	323.00
	FORMWORK (sqm)				
	Box /m	5.17	7.68	10.20	12.72
	End Protection (upper&lower part)	5.40	9.38	13.37	17.35
	Headwall (+Scour Protection)	19.78	22.91	26.05	29.18

SIZE

90 X 90

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	0.95	1.64	2.33	3.02
	End Protection (upper&lower part)	0.29	0.53	0.77	1.01
	Headwall (+Scour Protection)	2.60	3.56	4.52	5.48
	BAR WEIGHT (kg)				
	Box /m	42.97	80.11	110.10	140.09
	End Protection (upper&lower part)	10.73	24.79	35.61	46.43
	Headwall (+Scour Protection)	155.74	211.50	267.25	323.00
	FORMWORK (sqm)				
	Box /m	5.17	7.68	10.20	12.72
	End Protection (upper&lower part)	5.40	9.38	13.37	17.35
	Headwall (+Scour Protection)	19.78	22.91	26.05	29.18

SIZE

120 X 90

(S x D)

D 

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	1.16	2.04	2.93	3.81
	End Protection (upper&lower part)	0.35	0.66	0.97	1.28
	Headwall (+Scour Protection)	3.03	4.35	5.66	6.98
	BAR WEIGHT (kg)				
	Box /m	81.72	153.53	217.32	281.11
	End Protection (upper&lower part)	14.60	31.24	44.46	57.68
	Headwall (+Scour Protection)	172.50	242.88	313.25	383.63
	FORMWORK (sqm)				
	Box /m	5.57	8.38	11.20	14.02
	End Protection (upper&lower part)	6.47	11.51	16.55	21.59
	Headwall (+Scour Protection)	21.24	25.30	29.36	33.42

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	1.08	1.89	2.71	3.52
	End Protection (upper&lower part)	0.35	0.66	0.97	1.28
	Headwall (+Scour Protection)	2.88	4.09	5.31	6.53
	BAR WEIGHT (kg)				
	Box /m	70.63	132.54	186.83	241.11
	End Protection (upper&lower part)	14.07	30.40	43.32	56.23
	Headwall (+Scour Protection)	171.31	241.45	311.59	381.73
	FORMWORK (sqm)				
	Box /m	5.47	8.28	11.10	13.92
	End Protection (upper&lower part)	6.31	11.21	15.11	21.01
	Headwall (+Scour Protection)	20.69	24.68	28.67	32.66

SIZE

120 X 90

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	1.08	1.89	2.71	3.52
	End Protection (upper&lower part)	0.35	0.66	0.97	1.28
	Headwall (+Scour Protection)	2.98	4.09	5.31	6.53
	BAR WEIGHT (kg)				
	Box /m	55.21	103.65	144.80	185.94
	End Protection (upper&lower part)	14.07	30.40	43.32	56.23
	Headwall (+Scour Protection)	171.31	241.45	311.59	381.73
	FORMWORK (sqm)				
	Box /m	5.47	8.28	11.10	13.92
	End Protection (upper&lower part)	6.31	11.21	16.11	21.01
	Headwall (+Scour Protection)	20.69	24.68	28.67	32.66

SIZE

120 X 120

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	1.28	2.22	3.17	4.11
	End Protection (upper&lower part)	0.35	0.66	0.97	1.28
	Headwall (+Scour Protection)	4.17	5.77	7.36	8.96
	BAR WEIGHT (kg)				
	Box /m	85.50	156.81	221.35	285.89
	End Protection (upper&lower part)	14.60	31.24	44.46	57.68
	Headwall (+Scour Protection)	234.05	316.82	399.60	482.37
	FORMWORK (sqm)				
	Box /m	6.77	10.18	13.60	17.02
	End Protection (upper&lower part)	6.71	11.87	17.03	22.19
	Headwall (+Scour Protection)	28.74	32.80	36.86	40.92

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	1.20	2.08	2.95	3.83
	End Protection (upper&lower part)	0.35	0.66	0.97	1.28
	Headwall (+Scour Protection)	3.96	5.43	6.90	8.37
	BAR WEIGHT (kg)				
	Box /m	74.41	135.82	190.86	245.89
	End Protection (upper&lower part)	14.07	30.40	43.32	56.23
	Headwall (+Scour Protection)	228.28	310.82	393.36	475.90
	FORMWORK (sqm)				
	Box /m	6.67	10.08	13.50	16.92
	End Protection (upper&lower part)	6.55	11.57	16.59	21.61
	Headwall (+Scour Protection)	28.05	32.04	36.03	40.02

SIZE

120 X 120

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	1.20	2.08	2.95	3.83
	End Protection (upper&lower part)	0.35	0.66	0.97	1.28
	Headwall (+Scour Protection)	3.96	5.43	6.90	8.37
	BAR WEIGHT (kg)				
	Box /m	58.99	106.93	148.83	190.72
	End Protection (upper&lower part)	14.07	30.40	43.32	56.23
	Headwall (+Scour Protection)	228.28	310.82	393.36	475.90
	FORMWORK (sqm)				
	Box /m	6.67	10.08	13.50	16.92
	End Protection (upper&lower part)	6.55	11.57	16.59	21.61
	Headwall (+Scour Protection)	28.05	32.04	36.03	40.02

SIZE

150 X 90

(S x D)

D



FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	1.36	2.44	3.52	4.59
	End Protection (upper&lower part)	0.42	0.79	1.17	1.54
	Headwall (+Scour Protection)	3.40	5.07	6.74	8.41
	BAR WEIGHT (kg)				
	Box /m	100.18	197.69	281.95	366.20
	End Protection (upper&lower part)	16.96	35.77	51.16	66.55
	Headwall (+Scour Protection)	188.42	273.40	358.38	443.36
	FORMWORK (sqm)				
	Box /m	5.93	9.04	12.16	15.28
	End Protection (upper&lower part)	7.53	13.62	19.70	25.79
	Headwall (+Scour Protection)	22.40	27.38	32.36	37.34

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	1.30	2.33	3.36	4.39
	End Protection (upper&lower part)	0.42	0.79	1.17	1.54
	Headwall (+Scour Protection)	3.30	4.90	6.50	8.09
	BAR WEIGHT (kg)				
	Box /m	86.48	161.18	228.74	296.29
	End Protection (upper&lower part)	16.60	35.20	50.38	65.56
	Headwall (+Scour Protection)	187.68	272.49	357.30	442.11
	FORMWORK (sqm)				
	Box /m	5.87	8.98	12.10	15.22
	End Protection (upper&lower part)	7.42	13.40	19.39	25.37
	Headwall (+Scour Protection)	22.06	26.99	31.92	36.85

SIZE

150 X 90

(S x D)

 S
 D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	1.21	2.15	3.09	4.03
	End Protection (upper&lower part)	0.42	0.79	1.17	1.54
	Headwall (+Scour Protection)	3.13	4.61	6.08	7.56
	BAR WEIGHT (kg)				
	Box /m	75.28	141.83	200.76	259.69
	End Protection (upper&lower part)	16.01	34.25	49.08	63.91
	Headwall (+Scour Protection)	186.44	270.97	355.50	440.02
	FORMWORK (sqm)				
	Box /m	5.77	8.88	12.00	15.12
	End Protection (upper&lower part)	7.23	13.04	18.86	24.67
	Headwall (+Scour Protection)	21.49	26.33	31.18	36.02

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	1.30	2.33	3.36	4.39
	End Protection (upper&lower part)	0.42	0.79	1.17	1.54
	Headwall (+Scour Protection)	3.30	4.90	6.50	8.09
	BAR WEIGHT (kg)				
	Box /m	75.74	142.79	202.05	261.31
	End Protection (upper&lower part)	16.60	35.20	50.38	65.56
	Headwall (+Scour Protection)	187.68	272.49	357.30	442.11
	FORMWORK (sqm)				
	Box /m	5.87	8.98	12.10	15.22
	End Protection (upper&lower part)	7.42	13.40	19.39	25.37
	Headwall (+Scour Protection)	22.06	26.99	31.92	36.85

SIZE

150 X 120

(S x D)

S

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	1.48	2.62	3.76	4.90
	End Protection (upper&lower part)	0.42	0.79	1.17	1.54
	Headwall (+Scour Protection)	4.65	6.68	8.71	10.74
	BAR WEIGHT (kg)				
	Box /m	103.96	200.97	285.98	370.98
	End Protection (upper&lower part)	16.96	35.77	51.16	66.55
	Headwall (+Scour Protection)	253.23	353.21	453.19	553.17
	FORMWORK (sqm)				
	Box /m	7.13	10.84	14.56	18.28
	End Protection (upper&lower part)	7.77	13.98	20.18	26.39
	Headwall (+Scour Protection)	30.03	35.01	39.99	44.97

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	1.42	2.51	3.60	4.69
	End Protection (upper&lower part)	0.42	0.79	1.17	1.54
	Headwall (+Scour Protection)	4.51	6.45	8.39	10.33
	BAR WEIGHT (kg)				
	Box /m	90.26	164.46	232.77	301.07
	End Protection (upper&lower part)	16.60	35.20	50.38	65.56
	Headwall (+Scour Protection)	252.28	352.09	451.90	551.71
	FORMWORK (sqm)				
	Box /m	7.07	10.78	14.50	18.22
	End Protection (upper&lower part)	7.65	13.76	19.87	25.97
	Headwall (+Scour Protection)	29.61	34.54	39.47	44.40

SIZE

150 X 120

(S x D)

D ⁸

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	1.33	2.33	3.33	4.34
	End Protection (upper&lower part)	0.42	0.79	1.17	1.54
	Headwall (+Scour Protection)	4.28	6.06	7.85	9.63
	BAR WEIGHT (kg)				
	Box /m	79.06	145.11	204.79	264.47
	End Protection (upper&lower part)	16.01	34.25	49.08	63.91
	Headwall (+Scour Protection)	246.46	345.99	445.52	545.05
	FORMWORK (sqm)				
	Box /m	6.97	10.68	14.40	18.12
	End Protection (upper&lower part)	7.47	13.40	19.34	25.27
	Headwall (+Scour Protection)	28.90	33.75	38.59	43.44

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	1.42	2.51	3.60	4.69
	End Protection (upper&lower part)	0.42	0.79	1.17	1.54
	Headwall (+Scour Protection)	4.51	6.45	8.39	10.33
	BAR WEIGHT (kg)				
	Box /m	79.52	146.07	206.08	266.09
	End Protection (upper&lower part)	16.60	35.20	50.28	65.56
	Headwall (+Scour Protection)	252.28	352.09	451.90	551.71
	FORMWORK (sqm)				
	Box /m	7.07	10.78	14.50	18.22
	End Protection (upper&lower part)	7.65	13.76	19.87	25.97
	Headwall (+Scour Protection)	29.61	34.54	39.47	44.40

SIZE

150 X 150

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	1.70	2.95	4.20	5.45
	End Protection (upper&lower part)	0.43	0.81	1.19	1.57
	Headwall (+Scour Protection)	6.69	9.21	11.72	14.24
	BAR WEIGHT (kg)				
	Box /m	107.74	210.89	298.45	386.02
	End Protection (upper&lower part)	17.04	37.77	54.36	70.95
	Headwall (+Scour Protection)	153.73	480.92	608.21	755.55
	FORMWORK (sqm)				
	Box /m	8.33	12.53	16.96	21.28
	End Protection (upper&lower part)	8.32	14.80	21.28	27.77
	Headwall (+Scour Protection)	40.11	45.17	50.22	55.28

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	1.64	2.84	4.04	5.23
	End Protection (upper&lower part)	0.43	0.81	1.19	1.57
	Headwall (+Scour Protection)	6.50	8.89	11.29	13.69
	BAR WEIGHT (kg)				
	Box /m	94.04	173.90	244.56	315.22
	End Protection (upper&lower part)	16.69	37.18	53.53	69.88
	Headwall (+Scour Protection)	352.35	479.46	606.57	733.68
	FORMWORK (sqm)				
	Box /m	8.27	12.58	16.90	21.22
	End Protection (upper&lower part)	8.20	14.58	20.96	27.34
	Headwall (+Scour Protection)	39.59	44.59	49.60	54.60

SIZE

150 X 150

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	1.54	2.65	3.77	4.88
	End Protection (upper&lower part)	0.43	0.81	1.19	1.57
	Headwall (+Scour Protection)	6.17	8.37	10.57	12.77
	BAR WEIGHT (kg)				
	Box /m	82.84	154.42	216.39	278.35
	End Protection (upper&lower part)	16.09	36.19	52.14	68.10
	Headwall (+Scour Protection)	350.08	476.91	603.73	730.56
	FORMWORK (sqm)				
	Box /m	8.17	12.48	16.80	21.12
	End Protection (upper&lower part)	8.01	14.21	20.42	26.63
	Headwall (+Scour Protection)	38.72	43.63	48.55	53.47

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	1.64	2.84	4.04	5.23
	End Protection (upper&lower part)	0.43	0.81	1.19	1.57
	Headwall (+Scour Protection)	6.50	8.89	11.29	13.69
	BAR WEIGHT (kg)				
	Box /m	83.30	155.38	217.67	279.97
	End Protection (upper&lower part)	16.69	37.18	53.53	69.88
	Headwall (+Scour Protection)	352.35	479.46	606.57	733.68
	FORMWORK (sqm)				
	Box /m	8.27	12.58	16.90	21.22
	End Protection (upper&lower part)	8.20	14.58	20.96	27.34
	Headwall (+Scour Protection)	39.59	44.59	49.60	54.60

SIZE

180 X 120

(S x D)

D ^S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	1.57	2.79	4.02	5.25
	End Protection (upper&lower part)	0.48	0.92	1.36	1.80
	Headwall (+Scour Protection)	4.85	7.13	9.41	11.69
	BAR WEIGHT (kg)				
	Box /m	91.79	170.31	242.23	314.15
	End Protection (upper&lower part)	20.08	41.90	60.12	78.33
	Headwall (+Scour Protection)	295.27	420.11	544.96	669.80
	FORMWORK (sqm)				
	Box /m	7.37	11.38	15.40	19.42
	End Protection (upper&lower part)	8.60	15.65	22.70	29.75
	Headwall (+Scour Protection)	30.48	36.28	42.08	47.98

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	1.57	2.79	4.02	5.25
	End Protection (upper&lower part)	0.48	0.92	1.36	1.80
	Headwall (+Scour Protection)	4.85	7.13	9.41	11.69
	BAR WEIGHT (kg)				
	Box /m	95.30	176.98	251.99	326.99
	End Protection (upper&lower part)	20.08	41.90	60.12	78.33
	Headwall (+Scour Protection)	295.27	420.11	544.96	669.80
	FORMWORK (sqm)				
	Box /m	7.37	11.38	15.40	19.42
	End Protection (upper&lower part)	8.60	15.65	22.70	29.75
	Headwall (+Scour Protection)	30.48	36.28	42.08	47.88

SIZE

180 X 150

(S x D)

 S
 D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	1.90	3.34	4.78	6.22
	End Protection (upper&lower part)	0.50	0.94	1.39	1.83
	Headwall (+Scour Protection)	7.29	10.33	13.38	16.43
	BAR WEIGHT (kg)				
	Box /m	118.50	224.61	320.21	415.81
	End Protection (upper&lower part)	20.89	44.14	63.07	81.99
	Headwall (+Scour Protection)	383.90	532.98	682.05	831.12
	FORMWORK (sqm)				
	Box /m	8.67	13.28	17.90	22.52
	End Protection (upper&lower part)	9.37	16.90	24.43	31.95
	Headwall (+Scour Protection)	41.41	47.38	53.36	59.33

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	1.85	3.25	4.65	6.05
	End Protection (upper&lower part)	0.50	0.94	1.39	1.83
	Headwall (+Scour Protection)	7.14	10.10	13.05	16.01
	BAR WEIGHT (kg)				
	Box /m	102.92	194.16	275.30	356.44
	End Protection (upper&lower part)	20.60	43.67	62.42	81.17
	Headwall (+Scour Protection)	377.69	526.64	675.58	824.52
	FORMWORK (sqm)				
	Box /m	8.63	13.24	17.86	22.48
	End Protection (upper&lower part)	9.28	16.73	24.17	31.62
	Headwall (+Scour Protection)	41.05	46.99	52.92	58.85

SIZE

180 X 150

(S x D)

D ^S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	1.78	3.12	4.46	5.80
	End Protection (upper&lower part)	0.50	0.94	1.39	1.83
	Headwall (+Scour Protection)	6.93	9.74	12.56	15.37
	BAR WEIGHT (kg)				
	Box /m	95.57	179.69	253.92	328.16
	End Protection (upper&lower part)	20.16	42.97	61.46	79.95
	Headwall (+Scour Protection)	376.30	525.05	673.79	822.54
	FORMWORK (sqm)				
	Box /m	8.57	13.18	17.80	22.42
	End Protection (upper&lower part)	9.15	16.47	23.80	31.12
	Headwall (+Scour Protection)	40.52	46.39	52.26	58.14

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	1.78	3.12	4.46	5.80
	End Protection (upper&lower part)	0.50	0.94	1.39	1.83
	Headwall (+Scour Protection)	6.93	9.74	12.56	15.37
	BAR WEIGHT (kg)				
	Box /m	99.08	186.44	263.80	341.16
	End Protection (upper&lower part)	20.16	42.97	61.46	79.95
	Headwall (+Scour Protection)	376.30	525.05	673.79	822.54
	FORMWORK (sqm)				
	Box /m	8.57	13.18	17.80	22.42
	End Protection (upper&lower part)	9.15	16.47	23.80	31.12
	Headwall (+Scour Protection)	40.52	46.39	52.26	58.14

SIZE

180 X 180

(5 x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	2.15	3.71	5.28	6.85
	End Protection (upper&lower part)	0.51	0.96	1.41	1.86
	Headwall (+Scour Protection)	9.61	13.15	16.68	20.22
	BAR WEIGHT (kg)				
	Box /m	122.23	234.27	332.33	430.39
	End Protection (upper&lower part)	20.98	45.21	64.41	83.60
	Headwall (+Scour Protection)	583.00	783.67	984.35	1,185.02
	FORMWORK (sqm)				
	Box /m	9.87	15.08	20.30	25.52
	End Protection (upper&lower part)	9.98	17.82	25.65	33.48
	Headwall (+Scour Protection)	52.01	58.05	64.10	70.15

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 50cm	CONCRETE VOLUME (cum)				
	Box /m	2.10	3.63	5.15	6.68
	End Protection (upper&lower part)	0.51	0.96	1.41	1.86
	Headwall (+Scour Protection)	9.44	12.86	16.29	19.71
	BAR WEIGHT (kg)				
	Box /m	106.70	203.61	287.11	370.60
	End Protection (upper&lower part)	20.69	44.75	63.77	82.79
	Headwall (+Scour Protection)	577.59	778.13	978.67	1,179.21
	FORMWORK (sqm)				
	Box /m	9.83	15.04	20.26	25.48
	End Protection (upper&lower part)	9.89	17.64	25.39	33.14
	Headwall (+Scour Protection)	51.60	57.60	63.61	69.61

SIZE

180 X 180

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	2.03	3.50	4.96	6.42
	End Protection (upper&lower part)	0.51	0.96	1.41	1.86
	Headwall (+Scour Protection)	9.17	12.43	15.69	18.95
	BAR WEIGHT (kg)				
	Box /m	99.35	189.06	265.62	342.17
	End Protection (upper&lower part)	20.25	44.05	62.80	81.56
	Headwall (+Scour Protection)	575.40	775.74	976.09	1,176.43
	FORMWORK (sqm)				
	Box /m	9.77	14.98	20.20	25.42
	End Protection (upper&lower part)	9.75	17.38	25.01	32.64
	Headwall (+Scour Protection)	50.98	56.92	62.87	68.81

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	2.03	3.50	4.96	6.42
	End Protection (upper&lower part)	0.51	0.96	1.41	1.86
	Headwall (+Scour Protection)	9.17	12.43	15.69	18.95
	BAR WEIGHT (kg)				
	Box /m	102.86	195.89	275.60	355.32
	End Protection (upper&lower part)	20.25	44.05	62.80	81.56
	Headwall (+Scour Protection)	575.40	775.74	976.09	1,176.43
	FORMWORK (sqm)				
	Box /m	9.77	14.96	20.20	25.42
	End Protection (upper&lower part)	9.75	17.38	25.01	32.64
	Headwall (+Scour Protection)	50.98	56.92	62.87	68.81

SIZE

210 X 180

(S x D)

 $\frac{S}{D}$

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	2.35	4.12	5.89	7.66
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	10.04	13.97	17.89	21.82
	BAR WEIGHT (kg)				
	Box /m	161.21	284.89	408.57	532.25
	End Protection (upper&lower part)	36.08	69.84	103.60	137.35
	Headwall (+Scour Protection)	634.08	899.83	1,165.59	1,431.34
	FORMWORK (sqm)				
	Box /m	10.13	15.54	21.16	26.68
	End Protection (upper&lower part)	12.95	23.54	34.13	44.73
	Headwall (+Scour Protection)	52.47	59.36	66.25	73.13

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	2.22	3.87	5.53	7.18
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	9.56	13.17	16.78	20.38
	BAR WEIGHT (kg)				
	Box /m	150.19	263.76	377.33	490.89
	End Protection (upper&lower part)	35.51	68.74	101.97	135.20
	Headwall (+Scour Protection)	630.45	895.67	1,160.90	1,426.12
	FORMWORK (sqm)				
	Box /m	10.03	15.54	21.06	26.58
	End Protection (upper&lower part)	12.69	23.04	33.40	43.76
	Headwall (+Scour Protection)	51.43	58.20	64.97	71.74

SIZE

210 X 180

(S x D)

 S
 D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	2.14	3.72	5.31	6.89
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	9.27	12.69	16.10	19.52
	BAR WEIGHT (kg)				
	Box /m	143.19	248.19	353.19	458.19
	End Protection (upper&lower part)	35.17	68.08	100.99	133.90
	Headwall (+Scour Protection)	628.28	893.18	1,158.09	1,422.99
	FORMWORK (sqm)				
	Box /m	9.97	15.48	21.00	26.52
	End Protection (upper&lower part)	12.53	22.75	32.97	43.18
	Headwall (+Scour Protection)	50.81	57.51	64.20	70.90

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	2.14	3.72	5.31	6.89
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	9.27	12.69	16.10	19.52
	BAR WEIGHT (kg)				
	Box /m	158.07	271.34	384.61	497.88
	End Protection (upper&lower part)	35.17	68.08	100.99	133.90
	Headwall (+Scour Protection)	628.28	893.18	1,158.09	1,422.99
	FORMWORK (sqm)				
	Box /m	9.97	15.48	21.00	26.52
	End Protection (upper&lower part)	12.53	22.75	32.97	43.18
	Headwall (+Scour Protection)	50.81	57.51	64.20	70.90

SIZE

210 X 180

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	2.22	3.87	5.53	7.18
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	9.56	13.17	16.78	20.38
	BAR WEIGHT (kg)				
	Box /m	162.80	280.60	398.40	516.21
	End Protection (upper&lower part)	35.51	68.74	101.97	135.20
	Headwall (+Scour Protection)	630.45	895.67	1,160.90	1,426.12
	FORMWORK (sqm)				
	Box /m	10.03	15.54	21.06	26.58
	End Protection (upper&lower part)	12.69	23.04	33.40	43.76
	Headwall (+Scour Protection)	51.43	58.20	64.97	71.74

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	2.27	3.97	5.67	7.37
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	9.75	13.49	17.22	20.96
	BAR WEIGHT (kg)				
	Box /m	182.04	314.03	446.02	578.01
	End Protection (upper&lower part)	35.74	69.18	102.62	136.06
	Headwall (+Scour Protection)	631.90	897.34	1,162.77	1,428.21
	FORMWORK (sqm)				
	Box /m	10.07	15.58	21.10	26.62
	End Protection (upper&lower part)	12.79	23.24	33.70	44.15
	Headwall (+Scour Protection)	51.85	58.66	65.48	72.29

SIZE

210 X 180

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	2.35	4.12	5.89	7.66
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	10.04	13.97	17.89	21.82
	BAR WEIGHT (kg)				
	Box /m	214.80	374.09	533.38	692.68
	End Protection (upper&lower part)	36.08	69.84	103.60	137.35
	Headwall (+Scour Protection)	634.08	899.83	1,165.59	1,431.34
	FORMWORK (sqm)				
	Box /m	10.13	15.64	21.16	26.68
	End Protection (upper&lower part)	12.95	23.54	34.13	44.73
	Headwall (+Scour Protection)	52.47	59.36	66.25	73.13

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	2.53	4.47	6.40	8.34
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	10.72	15.09	19.46	23.83
	BAR WEIGHT (kg)				
	Box /m	279.36	468.32	657.28	846.24
	End Protection (upper&lower part)	36.88	71.38	105.88	140.37
	Headwall (+Scour Protection)	643.10	909.60	1,176.10	1,442.60
	FORMWORK (sqm)				
	Box /m	10.27	15.78	21.30	26.82
	End Protection (upper&lower part)	13.31	24.23	35.16	46.08
	Headwall (+Scour Protection)	53.93	60.98	68.03	75.08

SIZE

210 X 180

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	2.71	4.81	6.91	9.01
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	11.39	16.21	21.02	25.84
	BAR WEIGHT (kg)				
	Box /m	309.31	526.61	743.91	961.22
	End Protection (upper&lower part)	37.68	72.92	108.16	143.39
	Headwall (+Scour Protection)	648.17	915.42	1,182.66	1,449.91
	FORMWORK (sqm)				
	Box /m	10.41	15.92	21.44	26.96
	End Protection (upper&lower part)	13.67	24.93	36.18	47.43
	Headwall (+Scour Protection)	55.39	62.60	69.82	77.03
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	2.97	5.31	7.64	9.98
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	12.36	17.81	23.26	28.71
	BAR WEIGHT (kg)				
	Box /m	309.31	527.21	745.10	963.00
	End Protection (upper&lower part)	38.83	75.12	111.41	147.70
	Headwall (+Scour Protection)	661.53	929.84	1,198.15	1,466.46
	FORMWORK (sqm)				
	Box /m	10.61	16.12	21.64	27.16
	End Protection (upper&lower part)	14.19	25.92	37.64	49.36
	Headwall (+Scour Protection)	57.47	64.92	72.37	79.82

SIZE

210 X 180

(SxD)

D 

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	3.13	5.60	8.08	10.56
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	12.94	18.77	24.60	30.43
	BAR WEIGHT (kg)				
	Box /m	318.02	545.82	773.62	1,001.42
	End Protection (upper&lower part)	39.52	76.44	113.36	150.29
	Headwall (+Scour Protection)	665.88	934.83	1,203.77	1,472.72
	FORMWORK (sqm)				
	Box /m	10.73	16.24	21.76	27.28
	End Protection (upper&lower part)	14.51	26.51	38.51	50.52
	Headwall (+Scour Protection)	58.72	66.31	73.90	81.49
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	3.28	5.90	8.52	11.14
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	13.52	19.73	25.94	32.15
	BAR WEIGHT (kg)				
	Box /m	340.66	588.16	835.67	1,083.17
	End Protection (upper&lower part)	40.20	77.76	115.32	152.88
	Headwall (+Scour Protection)	674.18	943.76	1,213.35	1,482.94
	FORMWORK (sqm)				
	Box /m	10.85	16.36	21.88	27.40
	End Protection (upper&lower part)	14.82	27.10	39.39	51.67
	Headwall (+Scour Protection)	59.97	67.70	75.43	83.16

SIZE		210 X 180		(S x D)		D S	
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4		
1201 - 1500cm	CONCRETE VOLUME (cum)						
	Box /m	3.49	6.30	9.10	11.91		
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17		
	Headwall (+Scour Protection)	14.29	21.01	27.73	34.45		
	BAR WEIGHT (kg)						
	Box /m	357.98	624.38	890.77	1,157.17		
	End Protection (upper&lower part)	41.12	79.52	117.92	156.33		
	Headwall (+Scour Protection)	679.98	950.41	1,220.85	1,491.29		
	FORMWORK (sqm)						
	Box /m	11.01	16.52	22.04	27.56		
	End Protection (upper&lower part)	15.23	27.90	40.56	53.22		
	Headwall (+Scour Protection)	61.63	69.55	77.47	85.39		

SIZE		210 X 210		(S x D)		S
						D
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4	
0 ~ 30cm	CONCRETE VOLUME (cum)					
	Box /m	2.50	4.34	6.19	8.04	
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17	
	Headwall (+Scour Protection)	12.39	16.87	21.35	25.84	
	BAR WEIGHT (kg)					
	Box /m	166.22	293.46	420.70	547.94	
	End Protection (upper&lower part)	396.08	69.84	103.60	137.35	
	Headwall (+Scour Protection)	970.19	1,198.96	1,527.72	1,856.49	
	FORMWORK (sqm)					
	Box /m	11.33	17.44	23.56	29.68	
	End Protection (upper&lower part)	13.25	23.99	34.73	45.48	
	Headwall (+Scour Protection)	64.35	71.24	78.12	85.01	
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4	
31 ~ 60cm	CONCRETE VOLUME (cum)					
	Box /m	2.37	4.10	5.83	7.56	
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17	
	Headwall (+Scour Protection)	11.80	15.91	20.03	24.15	
	BAR WEIGHT (kg)					
	Box /m	155.21	272.34	389.46	506.59	
	End Protection (upper&lower part)	35.51	68.74	101.97	135.20	
	Headwall (+Scour Protection)	865.14	1,193.38	1,521.61	1,849.85	
	FORMWORK (sqm)					
	Box /m	11.23	17.34	23.46	29.58	
	End Protection (upper&lower part)	12.99	23.49	34.00	44.51	
	Headwall (+Scour Protection)	63.16	69.93	76.70	83.46	

SIZE

210 X 210

(S x D)

 S
 D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	2.29	3.95	5.61	7.27
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	11.45	15.34	19.24	23.13
	BAR WEIGHT (kg)				
	Box /m	148.53	257.09	365.65	474.21
	End Protection (upper&lower part)	35.17	68.08	100.99	133.90
	Headwall (+Scour Protection)	862.11	1,190.03	1,517.94	1,845.86
	FORMWORK (sqm)				
	Box /m	11.17	17.28	23.40	29.52
	End Protection (upper&lower part)	12.83	23.20	33.57	43.93
	Headwall (+Scour Protection)	62.44	69.14	75.84	82.54

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	2.29	3.95	5.61	7.27
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	11.45	15.34	19.24	23.13
	BAR WEIGHT (kg)				
	Box /m	164.12	280.95	397.78	514.61
	End Protection (upper&lower part)	35.17	68.08	100.99	133.90
	Headwall (+Scour Protection)	862.11	1,190.03	1,517.94	1,845.86
	FORMWORK (sqm)				
	Box /m	11.17	17.28	23.40	29.52
	End Protection (upper&lower part)	12.83	23.20	33.57	43.93
	Headwall (+Scour Protection)	62.44	69.14	75.84	82.54

SIZE

210 X 210

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	2.37	4.10	5.83	7.56
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	11.80	15.91	20.03	24.15
	BAR WEIGHT (kg)				
	Box /m	168.86	290.22	411.58	532.94
	End Protection (upper&lower part)	35.51	68.74	101.97	135.20
	Headwall (+Scour Protection)	865.14	1,193.38	1,521.61	1,849.85
	FORMWORK (sqm)				
	Box /m	11.23	17.34	23.46	29.58
	End Protection (upper&lower part)	12.99	23.49	34.00	44.51
	Headwall (+Scour Protection)	63.16	69.93	76.70	83.46

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	2.42	4.20	5.97	7.75
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	12.03	16.30	20.56	24.83
	BAR WEIGHT (kg)				
	Box /m	188.46	324.01	459.56	595.12
	End Protection (upper&lower part)	35.74	69.18	102.62	136.06
	Headwall (+Scour Protection)	867.16	1,195.61	1,524.06	1,852.50
	FORMWORK (sqm)				
	Box /m	11.27	17.38	23.50	29.62
	End Protection (upper&lower part)	13.09	23.69	34.30	44.90
	Headwall (+Scour Protection)	63.64	70.45	77.27	84.08

SIZE

210 X 210

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	2.50	4.34	6.19	8.04
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	12.38	16.87	21.35	25.84
	BAR WEIGHT (kg)				
	Box /m	217.57	379.01	540.46	701.90
	End Protection (upper&lower part)	36.08	69.84	103.60	137.35
	Headwall (+Scour Protection)	870.19	1,198.96	1,527.72	1,856.49
	FORMWORK (sqm)				
	Box /m	11.33	17.44	23.56	29.68
	End Protection (upper&lower part)	13.25	23.99	34.73	45.48
	Headwall (+Scour Protection)	64.35	71.24	78.12	85.01

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	2.68	4.69	6.70	8.71
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	13.19	18.20	23.21	28.21
	BAR WEIGHT (kg)				
	Box /m	288.72	481.24	673.76	866.28
	End Protection (upper&lower part)	36.88	71.38	105.88	140.37
	Headwall (+Scour Protection)	881.21	1,210.72	1,540.23	1,869.74
	FORMWORK (sqm)				
	Box /m	11.47	17.58	23.70	29.82
	End Protection (upper&lower part)	13.61	24.68	35.76	46.83
	Headwall (+Scour Protection)	66.02	73.07	80.12	87.17

SIZE

210 X 210

(S x D)

 $\frac{E}{D}$

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	2.86	5.04	7.21	9.39
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	14.01	19.53	25.06	30.58
	BAR WEIGHT (kg)				
	Box /m	311.21	525.69	740.18	954.66
	End Protection (upper&lower part)	37.68	72.92	108.16	143.39
	Headwall (+Scour Protection)	888.27	1,218.53	1,548.79	1,879.04
	FORMWORK (sqm)				
	Box /m	11.61	17.72	23.84	29.96
	End Protection (upper&lower part)	13.97	25.38	36.78	48.18
	Headwall (+Scour Protection)	67.69	74.91	82.12	89.33
751 - 900cm	NUMBER OF BOX CELL	1	2	3	4
	CONCRETE VOLUME (cum)				
	Box /m	3.12	5.53	7.94	10.35
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	15.18	21.44	27.70	33.97
	BAR WEIGHT (kg)				
	Box /m	318.67	540.13	761.58	983.04
	End Protection (upper&lower part)	38.83	75.12	111.41	147.70
	Headwall (+Scour Protection)	898.37	1,229.69	1,561.01	1,892.33
	FORMWORK (sqm)				
	Box /m	11.81	17.92	24.04	30.16
	End Protection (upper&lower part)	14.49	26.37	38.24	50.11
	Headwall (+Scour Protection)	70.08	77.53	84.97	92.42

SIZE

210 X 210

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	3.28	5.83	8.38	10.93
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	15.87	22.58	29.29	36.00
	BAR WEIGHT (kg)				
	Box /m	327.38	558.74	790.10	1,021.46
	End Protection (upper&lower part)	39.52	76.44	113.36	150.29
	Headwall (+Scour Protection)	904.43	1,236.39	1,568.34	1,900.30
	FORMWORK (sqm)				
	Box /m	11.93	18.04	24.16	30.28
	End Protection (upper&lower part)	14.81	26.96	39.11	51.27
	Headwall (+Scour Protection)	71.51	79.10	86.69	94.28

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	3.43	6.13	8.82	11.51
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17
	Headwall (+Scour Protection)	16.57	23.73	30.88	38.03
	BAR WEIGHT (kg)				
	Box /m	350.02	601.09	852.15	1,103.22
	End Protection (upper&lower part)	40.20	77.76	115.32	152.88
	Headwall (+Scour Protection)	921.48	1,254.07	1,586.67	1,919.27
	FORMWORK (sqm)				
	Box /m	12.05	18.16	24.28	30.40
	End Protection (upper&lower part)	15.12	27.55	39.99	52.42
	Headwall (+Scour Protection)	72.94	80.67	88.40	96.13

SIZE		210 X 210		(S x D)		D S	
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4		
1201 - 1500cm	CONCRETE VOLUME (cum)						
	Box /m	3.64	6.52	9.40	12.28		
	End Protection (upper&lower part)	0.59	1.11	1.64	2.17		
	Headwall (+Scour Protection)	17.51	25.25	32.99	40.74		
	BAR WEIGHT (kg)						
	Box /m	367.35	637.30	907.26	1,177.21		
	End Protection (upper&lower part)	41.12	79.52	117.92	156.33		
	Headwall (+Scour Protection)	929.55	1,263.00	1,596.45	1,929.90		
	FORMWORK (sqm)						
	Box /m	12.21	18.32	24.44	30.56		
	End Protection (upper&lower part)	15.53	28.35	41.16	53.97		
	Headwall (+Scour Protection)	74.85	82.76	90.68	98.60		

SIZE

240 X 210

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0- 30cm	CONCRETE VOLUME (cum)				
	Box /m	2.65	4.65	6.65	8.64
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	12.95	18.01	23.07	28.13
	BAR WEIGHT (kg)				
	Box /m	188.12	335.68	483.23	630.78
	End Protection (upper&lower part)	39.61	76.89	114.18	151.46
	Headwall (+Scour Protection)	916.26	1,286.61	1,656.97	2,027.32
	FORMWORK (sqm)				
	Box /m	11.63	18.04	24.46	30.88
	End Protection (upper&lower part)	14.45	26.40	38.34	50.29
	Headwall (+Scour Protection)	65.23	73.00	80.76	88.53
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	2.56	4.48	6.40	8.32
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	12.57	17.38	22.19	27.00
	BAR WEIGHT (kg)				
	Box /m	175.48	310.80	446.12	581.44
	End Protection (upper&lower part)	39.24	76.18	113.12	150.06
	Headwall (+Scour Protection)	913.19	1,283.19	1,653.18	2,023.17
	FORMWORK (sqm)				
	Box /m	11.57	17.98	24.40	30.82
	End Protection (upper&lower part)	14.28	26.06	37.85	49.64
	Headwall (+Scour Protection)	64.51	72.19	79.88	87.56

SIZE

240 X 210

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61- 150cm	CONCRETE VOLUME (cum)				
	Box /m	2.56	4.48	6.40	8.32
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	12.57	17.38	22.19	27.00
	BAR WEIGHT (kg)				
	Box /m	159.35	281.82	404.29	526.76
	End Protection (upper&lower part)	39.24	76.18	113.12	150.06
	Headwall (+Scour Protection)	913.19	1,283.19	1,653.18	2,023.17
	FORMWORK (sqm)				
	Box /m	11.57	17.98	24.40	30.82
	End Protection (upper&lower part)	14.28	26.06	37.85	49.64
	Headwall (+Scour Protection)	64.51	72.19	79.88	87.56

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	2.56	4.48	6.40	8.32
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	12.57	17.38	22.19	27.00
	BAR WEIGHT (kg)				
	Box /m	177.77	310.68	443.58	576.48
	End Protection (upper&lower part)	39.24	76.18	113.12	150.06
	Headwall (+Scour Protection)	913.19	1,283.19	1,653.18	2,023.17
	FORMWORK (sqm)				
	Box /m	11.57	17.98	24.40	30.82
	End Protection (upper&lower part)	14.28	26.06	37.85	49.64
	Headwall (+Scour Protection)	64.51	72.19	79.88	87.56

SIZE

240 X 210

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226- 300cm	CONCRETE VOLUME (cum)				
	Box /m	2.56	4.48	6.40	8.32
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	12.57	17.38	22.19	27.00
	BAR WEIGHT (kg)				
	Box /m	204.50	355.61	506.73	657.84
	End Protection (upper&lower part)	39.24	76.18	113.12	150.06
	Headwall (+Scour Protection)	913.19	1,283.19	1,653.18	2,023.17
	FORMWORK (sqm)				
	Box /m	11.57	17.98	24.40	30.82
	End Protection (upper&lower part)	14.28	26.06	37.85	49.64
	Headwall (+Scour Protection)	64.51	72.19	79.88	87.55

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	2.71	4.76	6.81	8.86
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	13.20	18.43	23.66	28.89
	BAR WEIGHT (kg)				
	Box /m	220.08	385.49	550.90	716.31
	End Protection (upper&lower part)	39.86	77.37	114.88	152.39
	Headwall (+Scour Protection)	922.26	1,292.85	1,663.44	2,034.03
	FORMWORK (sqm)				
	Box /m	11.67	18.08	24.50	30.92
	End Protection (upper&lower part)	14.57	26.62	38.67	50.72
	Headwall (+Scour Protection)	65.71	73.53	81.35	89.17

SIZE

240 X 210

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376- 450cm	CONCRETE VOLUME (cum)				
	Box /m	2.77	4.87	6.97	9.08
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	13.46	18.85	24.24	29.64
	BAR WEIGHT (kg)				
	Box /m	254.27	445.80	637.34	828.87
	End Protection (upper&lower part)	40.10	77.84	115.58	153.32
	Headwall (+Scour Protection)	924.30	1,295.13	1,665.97	2,036.80
	FORMWORK (sqm)				
	Box /m	11.71	18.12	24.54	30.96
	End Protection (upper&lower part)	14.68	26.84	39.00	51.16
	Headwall (+Scour Protection)	66.20	74.07	81.94	89.81

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	3.00	5.31	7.63	9.95
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	14.46	20.53	26.59	32.65
	BAR WEIGHT (kg)				
	Box /m	329.66	559.14	788.62	1,018.10
	End Protection (upper&lower part)	41.09	79.74	118.40	157.06
	Headwall (+Scour Protection)	932.49	1,304.27	1,676.06	2,047.85
	FORMWORK (sqm)				
	Box /m	11.87	18.28	24.70	31.12
	End Protection (upper&lower part)	15.15	27.73	40.31	52.89
	Headwall (+Scour Protection)	68.13	76.21	84.29	92.38

SIZE

240 X 210

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601- 750cm	CONCRETE VOLUME (cum)				
	Box /m	3.23	5.76	8.29	10.81
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	15.47	22.20	28.93	35.66
	BAR WEIGHT (kg)				
	Box /m	363.89	625.93	887.96	1,150.00
	End Protection (upper&lower part)	42.07	81.64	121.22	160.79
	Headwall (+Scour Protection)	940.67	1,313.41	1,686.16	2,058.91
	FORMWORK (sqm)				
	Box /m	12.03	18.44	24.86	31.28
	End Protection (upper&lower part)	15.61	28.62	41.62	54.63
	Headwall (+Scour Protection)	70.06	78.36	86.65	94.94

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	3.46	6.20	8.94	11.68
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	16.48	23.88	31.27	38.67
	BAR WEIGHT (kg)				
	Box /m	377.59	652.00	926.41	1,200.82
	End Protection (upper&lower part)	43.06	83.55	124.03	164.52
	Headwall (+Scour Protection)	948.85	1,322.55	1,696.26	2,069.96
	FORMWORK (sqm)				
	Box /m	12.19	18.60	25.02	31.44
	End Protection (upper&lower part)	16.07	29.50	42.93	56.36
	Headwall (+Scour Protection)	71.99	80.50	89.01	97.51

SIZE

240 X 210

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901- 1050cm	CONCRETE VOLUME (cum)				
	Box /m	3.75	6.76	9.76	12.77
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	17.74	25.97	34.20	42.44
	BAR WEIGHT (kg)				
	Box /m	365.07	631.51	897.95	1,164.39
	End Protection (upper&lower part)	44.29	85.92	127.55	169.18
	Headwall (+Scour Protection)	970.07	1,344.97	1,719.87	2,094.78
	FORMWORK (sqm)				
	Box /m	12.39	18.80	25.22	31.64
	End Protection (upper&lower part)	16.65	30.61	44.57	58.53
	Headwall (+Scour Protection)	74.41	83.18	91.95	100.72

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	3.93	7.09	10.25	13.42
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	18.49	27.23	35.96	44.69
	BAR WEIGHT (kg)				
	Box /m	411.09	721.49	1,031.89	1,342.29
	End Protection (upper&lower part)	45.03	87.35	129.66	171.98
	Headwall (+Scour Protection)	976.21	1,351.83	1,727.45	2,103.07
	FORMWORK (sqm)				
	Box /m	12.51	18.92	25.34	31.76
	End Protection (upper&lower part)	17.00	31.28	45.56	59.84
	Headwall (+Scour Protection)	75.86	84.79	93.72	102.65

SIZE		240 X 210		(S x D)		D S	
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4		
1201- 1500cm	CONCRETE VOLUME (cum)						
	Box /m	4.27	7.76	11.24	14.72		
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44		
	Headwall (+Scour Protection)	20.01	29.74	39.48	49.21		
	BAR WEIGHT (kg)						
	Box /m	435.17	767.22	1,099.26	1,431.30		
	End Protection (upper&lower part)	46.51	90.20	133.89	177.58		
	Headwall (+Scour Protection)	988.48	1,365.54	1,742.59	2,119.65		
	FORMWORK (sqm)						
	Box /m	12.75	19.16	25.58	32.00		
	End Protection (upper&lower part)	17.70	32.61	47.53	62.44		
	Headwall (+Scour Protection)	78.75	88.00	97.25	106.50		

1
10
25
63
1

SIZE

240 X 240

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0- 30cm	CONCRETE VOLUME (cum)				
	Box /m	2.80	4.87	6.95	9.02
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	15.68	21.37	27.06	32.75
	BAR WEIGHT (kg)				
	Box /m	196.71	347.40	498.09	648.78
	End Protection (upper&lower part)	39.61	76.89	114.18	151.46
	Headwall (+Scour Protection)	1,275.09	1,754.20	2,233.31	2,712.42
	FORMWORK (sqm)				
	Box /m	12.83	19.84	26.86	33.88
	End Protection (upper&lower part)	14.75	26.85	38.94	51.04
	Headwall (+Scour Protection)	79.21	96.97	94.74	102.50

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	2.71	4.71	6.70	8.69
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	15.23	20.64	26.04	31.45
	BAR WEIGHT (kg)				
	Box /m	184.07	322.53	460.99	599.44
	End Protection (upper&lower part)	39.24	76.18	113.12	150.06
	Headwall (+Scour Protection)	1,270.80	1,749.55	2,228.31	2,707.06
	FORMWORK (sqm)				
	Box /m	12.77	19.78	26.80	33.82
	End Protection (upper&lower part)	14.58	26.51	38.45	50.39
	Headwall (+Scour Protection)	78.39	86.08	93.76	101.45

SIZE

240 X 240

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61- 150cm	CONCRETE VOLUME (cum)				
	Box /m	2.71	4.71	6.70	8.69
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	15.23	20.64	26.04	31.45
	BAR WEIGHT (kg)				
	Box /m	170.95	297.57	424.19	550.82
	End Protection (upper&lower part)	39.24	76.18	113.12	150.06
	Headwall (+Scour Protection)	1,270.80	1,749.55	2,228.31	2,707.06
	FORMWORK (sqm)				
	Box /m	12.77	19.78	26.80	33.82
	End Protection (upper&lower part)	14.58	26.51	38.45	50.39
	Headwall (+Scour Protection)	78.39	86.08	93.76	101.45

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	2.71	4.71	6.70	8.69
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	15.23	20.64	26.04	31.45
	BAR WEIGHT (kg)				
	Box /m	192.67	330.71	468.75	606.79
	End Protection (upper&lower part)	39.24	76.18	113.12	150.06
	Headwall (+Scour Protection)	1,270.80	1,749.55	2,228.31	2,707.06
	FORMWORK (sqm)				
	Box /m	12.77	19.78	26.80	33.82
	End Protection (upper&lower part)	14.58	26.51	38.45	50.39
	Headwall (+Scour Protection)	78.39	86.08	93.76	101.45

SIZE

240 X 240

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	2.71	4.71	6.70	8.69
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	15.23	20.64	26.04	31.45
	BAR WEIGHT (kg)				
	Box /m	206.59	356.04	505.49	654.93
	End Protection (upper&lower part)	39.24	76.18	113.12	150.06
	Headwall (+Scour Protection)	1,270.80	1,749.55	2,228.31	2,707.06
	FORMWORK (sqm)				
	Box /m	12.77	19.78	26.80	33.82
	End Protection (upper&lower part)	14.58	26.51	38.45	50.39
	Headwall (+Scour Protection)	78.39	86.08	93.76	101.45
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	2.86	4.98	7.11	9.24
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	15.97	21.86	27.74	33.62
	BAR WEIGHT (kg)				
	Box /m	220.91	383.57	546.22	708.88
	End Protection (upper&lower part)	39.86	77.37	114.88	152.39
	Headwall (+Scour Protection)	1,281.89	1,761.24	2,240.59	2,719.94
	FORMWORK (sqm)				
	Box /m	12.87	19.88	26.90	33.92
	End Protection (upper&lower part)	14.87	27.07	39.27	51.47
	Headwall (+Scour Protection)	79.75	87.57	95.39	103.21

SIZE

240 X 240

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	2.92	5.09	7.27	9.45
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	16.27	22.34	28.42	34.49
	BAR WEIGHT (kg)				
	Box /m	260.90	454.22	647.53	840.85
	End Protection (upper&lower part)	40.10	77.84	115.58	153.32
	Headwall (+Scour Protection)	1,284.75	1,764.34	2,243.93	2,723.52
	FORMWORK (sqm)				
	Box /m	12.91	19.92	26.94	33.96
	End Protection (upper&lower part)	14.98	27.29	39.60	51.91
	Headwall (+Scour Protection)	80.30	88.17	96.04	103.91

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	3.15	5.54	7.93	10.32
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	17.46	24.29	31.13	37.97
	BAR WEIGHT (kg)				
	Box /m	339.02	570.28	801.54	1,032.80
	End Protection (upper&lower part)	41.09	79.74	118.40	157.06
	Headwall (+Scour Protection)	1,296.17	1,776.72	2,257.26	2,737.81
	FORMWORK (sqm)				
	Box /m	13.07	20.08	27.10	34.12
	End Protection (upper&lower part)	15.45	28.18	40.91	53.64
	Headwall (+Scour Protection)	82.47	90.55	98.64	106.72

SIZE

240 X 240

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	3.38	5.98	8.59	11.19
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	18.64	26.24	33.84	41.44
	BAR WEIGHT (kg)				
	Box /m	373.26	637.07	900.89	1,164.70
	End Protection (upper&lower part)	42.07	81.64	121.22	160.79
	Headwall (+Scour Protection)	1,307.59	1,789.10	2,270.60	2,752.11
	FORMWORK (sqm)				
	Box /m	13.23	20.24	27.26	34.28
	End Protection (upper&lower part)	15.91	29.07	42.22	55.38
	Headwall (+Scour Protection)	84.65	92.94	101.24	109.53
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	3.61	6.43	9.24	12.06
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	19.83	28.19	36.56	44.92
	BAR WEIGHT (kg)				
	Box /m	386.95	663.15	939.34	1,215.53
	End Protection (upper&lower part)	43.06	83.55	124.03	164.52
	Headwall (+Scour Protection)	1,319.01	1,801.48	2,283.94	2,766.40
	FORMWORK (sqm)				
	Box /m	13.39	20.40	27.42	34.44
	End Protection (upper&lower part)	16.37	29.95	43.53	57.11
	Headwall (+Scour Protection)	86.82	95.33	103.83	112.34

SIZE

240 X 240

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	3.90	6.98	10.06	13.14
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	21.31	30.63	39.95	49.26
	BAR WEIGHT (kg)				
	Box /m	374.43	642.65	910.87	1,179.10
	End Protection (upper&lower part)	44.29	85.92	127.55	169.18
	Headwall (+Scour Protection)	1,337.24	1,820.90	2,304.56	2,788.22
	FORMWORK (sqm)				
	Box /m	13.59	20.60	27.62	34.64
	End Protection (upper&lower part)	16.95	31.06	45.17	59.28
	Headwall (+Scour Protection)	89.54	98.31	107.08	115.85

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	4.08	7.31	10.55	13.79
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	22.20	32.09	41.98	51.87
	BAR WEIGHT (kg)				
	Box /m	420.45	732.63	1,044.81	1,356.99
	End Protection (upper&lower part)	45.03	87.35	129.66	171.98
	Headwall (+Scour Protection)	1,345.81	1,830.19	2,314.56	2,798.94
	FORMWORK (sqm)				
	Box /m	13.71	20.72	27.74	34.76
	End Protection (upper&lower part)	17.30	31.73	46.16	60.59
	Headwall (+Scour Protection)	91.17	100.10	109.03	117.96

SIZE

240 X 240

(S x D)

D ⁸

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1201 - 1500cm	CONCRETE VOLUME (cum)				
	Box /m	4.42	7.98	11.54	15.10
	End Protection (upper&lower part)	0.65	1.25	1.85	2.44
	Headwall (+Scour Protection)	23.98	35.02	46.05	57.08
	BAR WEIGHT (kg)				
	Box /m	444.54	778.36	1,112.18	1,446.00
	End Protection (upper&lower part)	46.51	90.20	133.89	177.58
	Headwall (+Scour Protection)	1,370.91	1,856.73	2,342.54	2,828.36
	FORMWORK (sqm)				
	Box /m	13.95	20.96	27.99	35.00
	End Protection (upper&lower part)	18.00	33.06	48.13	63.19
	Headwall (+Scour Protection)	94.43	103.68	112.93	122.18

SIZE

270 X 240

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	2.95	5.18	7.40	9.63
	End Protection (upper&lower part)	0.72	1.38	2.05	2.71
	Headwall (+Scour Protection)	16.32	22.66	29.00	35.33
	BAR WEIGHT (kg)				
	Box /m	223.60	390.68	557.75	724.82
	End Protection (upper&lower part)	44.26	86.20	128.13	170.07
	Headwall (+Scour Protection)	1,335.57	1,868.55	2,401.53	2,934.51
	FORMWORK (sqm)				
	Box /m	13.13	20.44	27.76	35.08
	End Protection (upper&lower part)	15.95	29.25	42.55	55.85
	Headwall (+Scour Protection)	60.09	88.73	97.38	106.02

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	2.95	5.18	7.40	9.63
	End Protection (upper&lower part)	0.72	1.38	2.05	2.71
	Headwall (+Scour Protection)	16.32	22.66	29.00	35.33
	BAR WEIGHT (kg)				
	Box /m	215.69	378.04	540.38	702.73
	End Protection (upper&lower part)	44.26	86.20	128.13	170.07
	Headwall (+Scour Protection)	1,335.57	1,868.55	2,401.53	2,934.51
	FORMWORK (sqm)				
	Box /m	13.13	20.44	27.76	35.08
	End Protection (upper&lower part)	15.95	29.25	42.55	55.85
	Headwall (+Scour Protection)	80.09	88.73	97.38	106.02

SIZE

270 X 240

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	2.95	5.18	7.40	9.63
	End Protection (upper&lower part)	0.72	1.38	2.05	2.71
	Headwall (+Scour Protection)	16.32	22.66	29.00	35.33
	BAR WEIGHT (kg)				
	Box /m	201.24	350.40	499.57	648.74
	End Protection (upper&lower part)	44.26	86.20	128.13	170.07
	Headwall (+Scour Protection)	1,335.57	1,868.55	2,401.53	2,934.51
	FORMWORK (sqm)				
	Box /m	13.13	20.44	27.76	35.08
	End Protection (upper&lower part)	15.95	29.25	42.55	55.85
	Headwall (+Scour Protection)	80.09	88.73	97.38	106.02

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	2.95	5.18	7.40	9.63
	End Protection (upper&lower part)	0.72	1.38	2.05	2.71
	Headwall (+Scour Protection)	16.32	22.66	29.00	35.33
	BAR WEIGHT (kg)				
	Box /m	230.24	399.79	569.34	738.90
	End Protection (upper&lower part)	44.26	86.20	128.13	170.07
	Headwall (+Scour Protection)	1,335.57	1,868.55	2,401.53	2,934.51
	FORMWORK (sqm)				
	Box /m	13.13	20.44	27.76	35.08
	End Protection (upper&lower part)	15.95	29.25	42.55	55.85
	Headwall (+Scour Protection)	80.09	88.73	97.38	106.02

SIZE

270 X 240

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	3.01	5.30	7.58	9.87
	End Protection (upper&lower part)	0.72	1.38	2.05	2.71
	Headwall (+Scour Protection)	16.64	23.19	29.74	36.29
	BAR WEIGHT (kg)				
	Box /m	239.53	417.81	596.09	774.36
	End Protection (upper&lower part)	44.54	86.74	128.94	171.14
	Headwall (+Scour Protection)	1,338.46	1,871.70	2,404.94	2,938.19
	FORMWORK (sqm)				
	Box /m	13.17	20.48	27.80	35.12
	End Protection (upper&lower part)	16.08	29.50	42.92	56.33
	Headwall (+Scour Protection)	80.64	89.34	98.04	106.75
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	3.18	5.61	8.04	10.47
	End Protection (upper&lower part)	0.72	1.38	2.05	2.71
	Headwall (+Scour Protection)	17.44	24.52	31.60	38.68
	BAR WEIGHT (kg)				
	Box /m	253.12	444.09	635.05	826.02
	End Protection (upper&lower part)	45.25	88.11	130.97	173.83
	Headwall (+Scour Protection)	1,349.61	1,883.52	2,417.43	2,951.34
	FORMWORK (sqm)				
	Box /m	13.27	20.58	27.90	35.22
	End Protection (upper&lower part)	16.40	30.11	43.83	57.54
	Headwall (+Scour Protection)	82.01	90.86	99.71	108.56

SIZE

270 X 240

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	3.33	5.91	8.49	11.07
	End Protection (upper&lower part)	0.72	1.38	2.05	2.71
	Headwall (+Scour Protection)	18.23	25.84	33.45	41.06
	BAR WEIGHT (kg)				
	Box /m	302.79	533.33	763.86	994.40
	End Protection (upper&lower part)	45.95	89.47	132.99	176.51
	Headwall (+Scour Protection)	1,356.82	1,891.39	2,425.97	2,960.54
	FORMWORK (sqm)				
	Box /m	13.37	20.68	28.00	35.32
	End Protection (upper&lower part)	16.72	30.73	44.74	58.74
	Headwall (+Scour Protection)	83.39	92.38	101.38	110.38

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	3.49	6.22	8.95	11.67
	End Protection (upper&lower part)	0.72	1.38	2.05	2.71
	Headwall (+Scour Protection)	19.03	27.17	35.31	43.45
	BAR WEIGHT (kg)				
	Box /m	396.65	678.46	960.27	1,242.09
	End Protection (upper&lower part)	46.66	90.84	135.02	179.20
	Headwall (+Scour Protection)	1,364.02	1,899.26	2,434.50	2,969.74
	FORMWORK (sqm)				
	Box /m	13.47	20.78	28.10	35.42
	End Protection (upper&lower part)	17.04	31.34	45.65	59.95
	Headwall (+Scour Protection)	84.76	93.91	103.05	112.20

SIZE

270 X 240

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	3.82	6.84	9.86	12.88
	End Protection (upper&lower part)	0.72	1.38	2.05	2.71
	Headwall (+Scour Protection)	20.62	29.82	39.03	48.23
	BAR WEIGHT (kg)				
	Box /m	400.34	686.39	972.45	1,258.51
	End Protection (upper&lower part)	48.06	93.56	139.06	184.56
	Headwall (+Scour Protection)	1,378.43	1,915.00	2,451.57	2,988.14
	FORMWORK (sqm)				
	Box /m	13.67	20.98	28.30	35.62
	End Protection (upper&lower part)	17.68	32.57	47.47	62.36
	Headwall (+Scour Protection)	87.51	96.95	106.39	115.83

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	4.33	7.76	11.19	14.61
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	22.37	32.74	43.11	53.48
	BAR WEIGHT (kg)				
	Box /m	409.40	705.15	1,000.89	1,296.63
	End Protection (upper&lower part)	50.01	97.16	144.32	191.47
	Headwall (+Scour Protection)	1,398.24	1,939.12	2,480.00	3,020.88
	FORMWORK (sqm)				
	Box /m	13.89	21.20	28.52	35.84
	End Protection (upper&lower part)	18.86	34.64	50.42	66.20
	Headwall (+Scour Protection)	90.53	100.38	110.23	120.07

SIZE

270 X 240

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	4.72	8.51	12.29	16.08
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	24.28	35.92	47.57	59.22
	BAR WEIGHT (kg)				
	Box /m	450.00	788.30	1,126.60	1,464.90
	End Protection (upper&lower part)	51.70	100.44	149.17	197.91
	Headwall (+Scour Protection)	1,415.53	1,958.00	2,500.48	3,042.96
	FORMWORK (sqm)				
	Box /m	14.13	21.44	28.76	36.08
	End Protection (upper&lower part)	19.64	36.14	52.63	69.13
	Headwall (+Scour Protection)	93.83	104.03	114.24	124.44
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	4.85	8.76	12.66	16.56
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	24.91	36.98	49.05	61.13
	BAR WEIGHT (kg)				
	Box /m	468.10	822.47	1,176.84	1,531.21
	End Protection (upper&lower part)	52.27	101.53	150.79	200.06
	Headwall (+Scour Protection)	1,429.27	1,972.27	2,515.28	3,058.29
	FORMWORK (sqm)				
	Box /m	14.21	21.52	28.84	36.16
	End Protection (upper&lower part)	19.90	36.64	53.37	70.10
	Headwall (+Scour Protection)	94.93	105.25	115.58	125.90

SIZE

270 X 240

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1201 - 1500cm	CONCRETE VOLUME (cum)				
	Box /m	5.24	9.50	13.76	18.02
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	26.82	40.17	53.51	66.86
	BAR WEIGHT (kg)				
	Box /m	499.26	881.62	1,263.97	1,646.33
	End Protection (upper&lower part)	53.96	104.80	155.65	206.50
	Headwall (+Scour Protection)	1,450.51	1,995.11	2,539.72	3,084.32
	FORMWORK (sqm)				
	Box /m	14.45	21.76	29.08	36.40
	End Protection (upper&lower part)	20.68	38.13	55.58	73.02
	Headwall (+Scour Protection)	98.23	108.91	119.59	130.27

SIZE

270 X 270

(S x D)

D ⁸

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	3.26	5.64	8.02	10.40
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	19.97	27.00	34.02	41.04
	BAR WEIGHT (kg)				
	Box /m	226.57	397.85	569.13	740.42
	End Protection (upper&lower part)	44.66	86.80	128.93	171.07
	Headwall (+Scour Protection)	1,752.78	2,408.76	3,064.74	3,720.71
	FORMWORK (sqm)				
	Box /m	14.33	22.24	30.16	38.08
	End Protection (upper&lower part)	16.72	30.41	44.09	57.78
	Headwall (+Scour Protection)	93.90	102.62	111.33	120.05
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	3.26	5.64	8.02	10.40
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	19.97	27.00	34.02	41.04
	BAR WEIGHT (kg)				
	Box /m	218.66	385.18	551.70	718.23
	End Protection (upper&lower part)	44.66	86.80	128.93	171.07
	Headwall (+Scour Protection)	1,752.78	2,408.76	3,064.74	3,720.71
	FORMWORK (sqm)				
	Box /m	14.33	22.24	30.16	38.08
	End Protection (upper&lower part)	16.72	30.41	44.09	57.78
	Headwall (+Scour Protection)	93.90	102.62	111.33	120.05

SIZE

270 X 270

(S x D)

S
D ☐

PILE HEIGHT	NUMBER OF BOX CELL	1	2	3	4
51 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	3.26	5.64	8.02	10.40
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	19.97	27.00	34.02	41.04
	BAR WEIGHT (kg)				
	Box /m	198.78	350.02	501.26	652.50
	End Protection (upper&lower part)	44.66	86.80	128.93	171.07
	Headwall (+Scour Protection)	1,752.78	2,408.76	3,064.74	3,720.71
	FORMWORK (sqm)				
	Box /m	14.33	22.24	30.16	38.08
	End Protection (upper&lower part)	16.72	30.41	44.09	57.78
	Headwall (+Scour Protection)	93.90	102.62	111.33	120.05

PILE HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	3.26	5.64	8.02	10.40
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	19.97	27.00	34.02	41.04
	BAR WEIGHT (kg)				
	Box /m	211.74	373.23	534.72	696.21
	End Protection (upper&lower part)	44.66	86.80	128.93	171.07
	Headwall (+Scour Protection)	1,752.78	2,408.76	3,064.74	3,720.71
	FORMWORK (sqm)				
	Box /m	14.33	22.24	30.16	38.08
	End Protection (upper&lower part)	16.72	30.41	44.09	57.78
	Headwall (+Scour Protection)	93.90	102.62	111.33	120.05

SIZE

270 X 270

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	3.26	5.64	8.02	10.40
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	19.97	27.00	34.02	41.04
	BAR WEIGHT (kg)				
	Box /m	222.76	394.44	566.13	737.81
	End Protection (upper&lower part)	44.66	86.80	128.93	171.07
	Headwall (+Scour Protection)	1,752.78	2,408.76	3,064.74	3,720.71
	FORMWORK (sqm)				
	Box /m	14.33	22.24	30.16	38.08
	End Protection (upper&lower part)	16.72	30.41	44.09	57.78
	Headwall (+Scour Protection)	93.90	102.62	111.33	120.05

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	3.42	5.95	8.48	11.01
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	20.90	28.51	36.13	43.74
	BAR WEIGHT (kg)				
	Box /m	242.08	431.62	621.15	810.69
	End Protection (upper&lower part)	45.37	88.16	130.96	173.75
	Headwall (+Scour Protection)	1,770.90	2,427.55	3,084.19	3,740.83
	FORMWORK (sqm)				
	Box /m	14.43	22.34	30.26	38.18
	End Protection (upper&lower part)	17.05	31.03	45.01	58.99
	Headwall (+Scour Protection)	95.41	104.28	113.14	122.01

SIZE

270 X 270

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	3.59	6.26	8.94	11.62
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	21.82	30.03	38.24	46.45
	BAR WEIGHT (kg)				
	Box /m	322.98	560.68	798.39	1,036.09
	End Protection (upper&lower part)	46.07	89.53	132.98	176.44
	Headwall (+Scour Protection)	1,780.22	2,437.53	3,094.83	3,752.14
	FORMWORK (sqm)				
	Box /m	14.53	22.44	30.36	38.28
	End Protection (upper&lower part)	17.37	31.65	45.93	60.21
	Headwall (+Scour Protection)	95.92	105.94	114.95	123.97
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	3.81	6.70	9.58	12.47
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	23.11	32.15	41.19	50.24
	BAR WEIGHT (kg)				
	Box /m	371.56	644.81	918.05	1,191.30
	End Protection (upper&lower part)	47.06	91.44	135.82	180.20
	Headwall (+Scour Protection)	1,793.27	2,451.51	3,109.74	3,767.98
	FORMWORK (sqm)				
	Box /m	14.67	22.58	30.50	38.42
	End Protection (upper&lower part)	17.83	32.52	47.22	61.92
	Headwall (+Scour Protection)	99.04	108.26	117.49	126.71

SIZE

270 X 270

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	4.14	7.32	10.51	13.69
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	24.95	35.18	45.42	55.65
	BAR WEIGHT (kg)				
	Box /m	386.14	673.22	960.30	1,247.38
	End Protection (upper&lower part)	48.46	94.16	139.86	185.56
	Headwall (+Scour Protection)	1,811.91	2,471.47	3,131.04	3,790.61
	FORMWORK (sqm)				
	Box /m	14.87	22.78	30.70	38.62
	End Protection (upper&lower part)	18.48	33.77	49.06	64.35
	Headwall (+Scour Protection)	102.06	111.58	121.10	130.62
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	4.50	8.01	11.52	15.03
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	26.97	38.52	50.06	61.60
	BAR WEIGHT (kg)				
	Box /m	390.29	681.66	973.03	1,264.40
	End Protection (upper&lower part)	50.01	97.16	144.32	191.47
	Headwall (+Scour Protection)	1,836.36	2,497.39	3,158.42	3,819.45
	FORMWORK (sqm)				
	Box /m	15.09	23.00	30.92	38.84
	End Protection (upper&lower part)	19.19	35.14	51.08	67.03
	Headwall (+Scour Protection)	105.39	115.24	125.08	134.93

SIZE

270 X 270

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	4.89	8.75	12.62	16.49
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	29.18	42.15	55.13	68.10
	BAR WEIGHT (kg)				
	Box /m	409.60	721.10	1,032.59	1,344.09
	End Protection (upper&lower part)	51.70	100.44	149.17	197.91
	Headwall (+Scour Protection)	1,858.72	2,521.35	3,183.97	3,846.60
	FORMWORK (sqm)				
	Box /m	15.33	23.24	31.16	39.08
	End Protection (upper&lower part)	19.97	36.63	53.29	69.95
	Headwall (+Scour Protection)	109.02	119.22	129.43	139.63

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	5.02	9.00	12.99	16.98
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	29.92	43.37	56.81	70.26
	BAR WEIGHT (kg)				
	Box /m	458.05	815.98	1,173.92	1,531.85
	End Protection (upper&lower part)	52.27	101.53	150.79	200.06
	Headwall (+Scour Protection)	1,866.18	2,529.34	3,192.49	3,855.65
	FORMWORK (sqm)				
	Box /m	15.41	23.32	31.24	39.16
	End Protection (upper&lower part)	20.23	37.13	54.03	70.93
	Headwall (+Scour Protection)	110.23	120.55	130.87	141.20

SIZE

270 X 270

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1201 - 1500cm	CONCRETE VOLUME (cum)				
	Box /m	5.41	9.75	14.09	18.44
	End Protection (upper&lower part)	0.73	1.40	2.07	2.74
	Headwall (+Scour Protection)	32.13	47.01	61.88	76.76
	BAR WEIGHT (kg)				
	Box /m	489.22	875.13	1,261.05	1,646.96
	End Protection (upper&lower part)	53.96	104.80	155.65	206.50
	Headwall (+Scour Protection)	1,901.30	2,566.05	3,230.80	3,895.56
	FORMWORK (sqm)				
	Box /m	15.65	23.56	31.48	39.40
	End Protection (upper&lower part)	21.01	38.62	56.24	73.85
	Headwall (+Scour Protection)	113.86	124.54	135.22	145.90

SIZE

300 X 270

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	3.48	6.08	8.68	11.27
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	21.07	29.07	37.06	45.05
	BAR WEIGHT (kg)				
	Box /m	254.52	449.47	644.43	839.38
	End Protection (upper&lower part)	48.49	94.43	140.38	186.32
	Headwall (+Scour Protection)	1,840.07	2,562.31	3,284.55	4,006.79
	FORMWORK (sqm)				
	Box /m	14.67	22.88	31.10	39.32
	End Protection (upper&lower part)	18.07	33.09	46.11	63.12
	Headwall (+Scour Protection)	95.39	105.05	114.71	124.37

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	3.48	6.08	8.68	11.27
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	21.07	29.07	37.06	45.05
	BAR WEIGHT (kg)				
	Box /m	242.83	429.59	616.36	803.12
	End Protection (upper&lower part)	48.49	94.43	140.38	186.32
	Headwall (+Scour Protection)	1,840.07	2,562.31	3,284.55	4,006.79
	FORMWORK (sqm)				
	Box /m	14.67	22.88	31.10	39.32
	End Protection (upper&lower part)	18.07	33.09	46.11	63.12
	Headwall (+Scour Protection)	95.39	105.05	114.71	124.37

SIZE

300 X 270

(S x D)

D ☐

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	3.48	6.08	8.68	11.27
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	21.07	29.07	37.06	45.05
	BAR WEIGHT (kg)				
	Box /m	289.33	495.14	700.94	906.75
	End Protection (upper&lower part)	48.49	94.43	140.38	186.32
	Headwall (+Scour Protection)	1,840.07	2,562.31	3,284.55	4,006.79
	FORMWORK (sqm)				
	Box /m	14.67	22.88	31.10	39.32
	End Protection (upper&lower part)	18.07	33.09	48.11	63.12
	Headwall (+Scour Protection)	95.39	105.05	114.71	124.37
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	3.48	6.08	8.68	11.27
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	21.07	29.07	37.06	45.05
	BAR WEIGHT (kg)				
	Box /m	294.81	508.18	721.55	934.91
	End Protection (upper&lower part)	48.49	94.43	140.38	186.32
	Headwall (+Scour Protection)	1,840.07	2,562.31	3,284.55	4,006.79
	FORMWORK (sqm)				
	Box /m	14.67	22.88	31.10	39.32
	End Protection (upper&lower part)	18.07	33.09	48.11	63.12
	Headwall (+Scour Protection)	95.39	105.05	114.71	124.37

SIZE

300 X 270

(S x D)

S
D ☐

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	3.59	6.29	8.98	11.68
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	21.66	30.05	38.43	46.82
	BAR WEIGHT (kg)				
	Box /m	309.30	536.21	763.12	990.03
	End Protection (upper&lower part)	48.94	95.30	141.67	188.04
	Headwall (+Scour Protection)	1,845.70	2,568.38	3,291.06	4,013.74
	FORMWORK (sqm)				
	Box /m	14.73	22.94	31.16	39.38
	End Protection (upper&lower part)	18.28	33.50	48.71	63.93
	Headwall (+Scour Protection)	96.31	106.07	115.83	125.58
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	3.77	6.63	9.49	12.34
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	22.64	31.68	40.72	49.76
	BAR WEIGHT (kg)				
	Box /m	333.25	580.61	827.97	1,075.33
	End Protection (upper&lower part)	49.68	96.76	143.83	190.90
	Headwall (+Scour Protection)	1,855.08	2,578.50	3,301.91	4,025.32
	FORMWORK (sqm)				
	Box /m	14.83	23.04	31.26	39.48
	End Protection (upper&lower part)	18.64	34.18	49.72	65.26
	Headwall (+Scour Protection)	97.83	107.76	117.68	127.60

SIZE

300 X 270

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	3.91	6.90	9.89	12.88
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	23.43	32.99	42.56	52.12
	BAR WEIGHT (kg)				
	Box /m	385.05	675.83	966.60	1,257.37
	End Protection (upper&lower part)	50.28	97.92	145.55	193.18
	Headwall (+Scour Protection)	1,862.59	2,586.59	3,310.58	4,034.58
	FORMWORK (sqm)				
	Box /m	14.91	23.12	31.34	39.56
	End Protection (upper&lower part)	18.92	34.72	50.53	66.33
	Headwall (+Scour Protection)	99.05	109.11	119.16	129.22

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	4.19	7.45	10.70	13.95
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	25.00	35.61	46.22	56.83
	BAR WEIGHT (kg)				
	Box /m	401.31	696.76	992.21	1,287.66
	End Protection (upper&lower part)	51.48	100.24	149.00	197.76
	Headwall (+Scour Protection)	1,877.61	2,602.77	3,327.94	4,053.11
	FORMWORK (sqm)				
	Box /m	15.07	23.28	31.50	39.72
	End Protection (upper&lower part)	19.49	35.82	52.15	68.47
	Headwall (+Scour Protection)	101.50	111.81	122.13	132.45

SIZE

300 X 270

(S x D)

L S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	4.62	8.26	11.91	15.55
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	27.35	39.54	51.72	63.90
	BAR WEIGHT (kg)				
	Box /m	443.96	780.08	1,116.19	1,452.30
	End Protection (upper&lower part)	53.28	103.72	154.17	204.62
	Headwall (+Scour Protection)	1,904.08	2,631.01	3,357.93	4,084.85
	FORMWORK (sqm)				
	Box /m	15.31	23.52	31.74	39.96
	End Protection (upper&lower part)	20.34	37.45	54.57	71.68
	Headwall (+Scour Protection)	105.16	115.87	126.58	137.29

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	5.08	9.15	13.22	17.29
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	29.90	43.79	57.68	71.56
	BAR WEIGHT (kg)				
	Box /m	443.96	780.85	1,117.73	1,454.62
	End Protection (upper&lower part)	55.22	107.50	159.78	212.06
	Headwall (+Scour Protection)	1,928.49	2,657.31	3,386.13	4,114.96
	FORMWORK (sqm)				
	Box /m	15.57	23.78	32.00	40.22
	End Protection (upper&lower part)	21.26	39.23	57.19	75.16
	Headwall (+Scour Protection)	109.13	120.27	131.40	142.54

SIZE

300 X 270

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	5.47	9.90	14.33	18.76
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	32.06	47.39	62.72	78.04
	BAR WEIGHT (kg)				
	Box /m	483.57	841.33	1,199.09	1,556.85
	End Protection (upper&lower part)	56.87	110.69	164.52	218.35
	Headwall (+Scour Protection)	1,949.13	2,679.57	3,410.00	4,140.43
	FORMWORK (sqm)				
	Box /m	15.79	24.00	32.22	40.44
	End Protection (upper&lower part)	22.04	40.73	59.42	78.10
	Headwall (+Scour Protection)	112.49	123.99	135.48	146.98

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	5.68	10.31	14.94	19.57
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	33.24	49.35	65.46	81.58
	BAR WEIGHT (kg)				
	Box /m	532.56	937.65	1,342.74	1,747.83
	End Protection (upper&lower part)	57.76	112.44	167.11	221.78
	Headwall (+Scour Protection)	1,973.15	2,704.46	3,435.77	4,167.08
	FORMWORK (sqm)				
	Box /m	15.91	24.12	32.34	40.56
	End Protection (upper&lower part)	22.47	41.55	60.63	79.71
	Headwall (+Scour Protection)	114.32	126.01	137.71	149.40

SIZE

300 X 270

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1201 - 1500cm	CONCRETE VOLUME (cum)				
	Box /m	5.97	10.86	15.75	20.64
	End Protection (upper&lower part)	0.80	1.54	2.27	3.01
	Headwall (+Scour Protection)	34.81	51.97	69.13	86.29
	BAR WEIGHT (kg)				
	Box /m	572.94	1,013.78	1,454.61	1,895.45
	End Protection (upper&lower part)	58.96	114.76	170.56	226.36
	Headwall (+Scour Protection)	1,988.17	2,720.65	3,453.13	4,185.61
	FORMWORK (sqm)				
	Box /m	16.07	24.28	32.50	40.72
	End Protection (upper&lower part)	23.04	42.64	62.25	81.85
	Headwall (+Scour Protection)	116.77	128.72	140.67	152.63

SIZE

300 X 300

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	3.82	6.59	9.36	12.13
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	26.27	35.23	44.19	53.15
	BAR WEIGHT (kg)				
	Box /m	289.79	489.01	688.23	887.45
	End Protection (upper&lower part)	50.03	96.18	142.32	188.46
	Headwall (+Scour Protection)	3,070.07	4,156.46	5,242.84	6,329.22
	FORMWORK (sqm)				
	Box /m	15.87	24.68	33.50	42.32
	End Protection (upper&lower part)	18.90	34.33	49.77	65.21
	Headwall (+Scour Protection)	114.60	124.33	134.07	143.80
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	3.82	6.59	9.36	12.13
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	26.27	35.23	44.19	53.15
	BAR WEIGHT (kg)				
	Box /m	273.35	460.04	646.73	833.41
	End Protection (upper&lower part)	50.03	96.18	142.32	188.46
	Headwall (+Scour Protection)	3,070.07	4,156.46	5,242.84	6,329.22
	FORMWORK (sqm)				
	Box /m	15.87	24.68	33.50	42.32
	End Protection (upper&lower part)	18.90	34.33	49.77	65.21
	Headwall (+Scour Protection)	114.60	124.33	134.07	143.80

SIZE

300 X 300

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	3.82	6.59	9.36	12.13
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	26.27	35.23	44.19	53.15
	BAR WEIGHT (kg)				
	Box /m	313.57	513.61	713.65	913.69
	End Protection (upper&lower part)	50.03	96.18	142.32	188.46
	Headwall (+Scour Protection)	3,070.07	4,156.46	5,242.84	6,329.22
	FORMWORK (sqm)				
	Box /m	15.87	24.68	33.50	42.32
	End Protection (upper&lower part)	18.90	34.33	49.77	65.21
	Headwall (+Scour Protection)	114.60	124.33	134.07	143.80

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	3.82	6.59	9.36	12.13
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	26.27	35.23	44.19	53.15
	BAR WEIGHT (kg)				
	Box /m	333.65	549.66	765.68	981.70
	End Protection (upper&lower part)	50.03	96.18	142.32	188.46
	Headwall (+Scour Protection)	3,070.07	4,156.46	5,242.84	6,329.22
	FORMWORK (sqm)				
	Box /m	15.87	24.68	33.50	42.32
	End Protection (upper&lower part)	18.90	34.33	49.77	65.21
	Headwall (+Scour Protection)	114.60	124.33	134.07	143.80

SIZE

300 X 300

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	3.93	6.80	9.67	12.53
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	26.96	36.37	45.77	55.18
	BAR WEIGHT (kg)				
	Box /m	361.28	593.86	826.44	1,059.02
	End Protection (upper&lower part)	50.51	97.07	143.64	190.21
	Headwall (+Scour Protection)	3,079.08	4,165.90	5,252.72	6,339.54
	FORMWORK (sqm)				
	Box /m	15.93	24.74	33.56	42.38
	End Protection (upper&lower part)	19.12	34.75	50.38	66.02
	Headwall (+Scour Protection)	115.62	125.45	135.28	145.12
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	4.00	6.94	9.87	12.80
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	27.42	37.12	46.83	56.53
	BAR WEIGHT (kg)				
	Box /m	396.28	659.14	922.00	1,184.85
	End Protection (upper&lower part)	50.82	97.67	144.52	191.37
	Headwall (+Scour Protection)	3,085.08	4,172.20	5,259.31	6,346.42
	FORMWORK (sqm)				
	Box /m	15.97	24.78	33.60	42.42
	End Protection (upper&lower part)	19.26	35.03	50.79	66.55
	Headwall (+Scour Protection)	116.30	126.20	136.10	146.00

SIZE

300 X 300

(S x D)

D ☐

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	4.18	7.28	10.38	13.48
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	28.57	39.02	49.46	59.90
	BAR WEIGHT (kg)				
	Box /m	424.85	715.02	1,005.18	1,295.35
	End Protection (upper&lower part)	51.62	99.17	146.72	194.27
	Headwall (+Scour Protection)	3,100.09	4,187.94	5,275.78	6,363.63
	FORMWORK (sqm)				
	Box /m	16.07	24.88	33.70	42.52
	End Protection (upper&lower part)	19.62	35.72	51.81	67.91
	Headwall (+Scour Protection)	117.99	128.06	138.12	148.19

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	4.54	7.97	11.40	14.83
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	30.87	42.80	54.73	66.66
	BAR WEIGHT (kg)				
	Box /m	425.10	713.75	1,002.39	1,291.04
	End Protection (upper&lower part)	53.20	102.16	151.12	200.08
	Headwall (+Scour Protection)	3,130.11	4,219.42	5,308.73	6,398.04
	FORMWORK (sqm)				
	Box /m	16.27	25.08	33.90	42.72
	End Protection (upper&lower part)	20.34	37.09	53.85	70.60
	Headwall (+Scour Protection)	121.39	131.78	142.18	152.57

SIZE

300 X 300

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	4.98	8.80	12.62	16.45
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	33.63	47.34	61.05	74.77
	BAR WEIGHT (kg)				
	Box /m	470.20	801.18	1,132.16	1,463.14
	End Protection (upper&lower part)	55.10	105.75	156.40	207.05
	Headwall (+Scour Protection)	3,186.32	4,277.38	5,368.44	6,459.51
	FORMWORK (sqm)				
	Box /m	16.51	25.32	34.14	42.96
	End Protection (upper&lower part)	21.20	38.75	56.30	73.85
	Headwall (+Scour Protection)	125.46	136.25	147.05	157.84

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	5.44	9.70	13.95	18.20
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	36.62	52.26	67.90	83.55
	BAR WEIGHT (kg)				
	Box /m	482.26	823.95	1,165.64	1,507.32
	End Protection (upper&lower part)	57.16	109.64	162.12	214.60
	Headwall (+Scour Protection)	3,225.34	4,318.31	5,411.27	6,504.24
	FORMWORK (sqm)				
	Box /m	16.77	25.58	34.40	43.22
	End Protection (upper&lower part)	22.14	40.55	58.95	77.35
	Headwall (+Scour Protection)	129.88	141.10	152.32	163.54

SIZE

300 X 300

(S x D)

S

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	5.84	10.46	15.07	19.59
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	39.15	56.43	73.70	90.98
	BAR WEIGHT (kg)				
	Box /m	522.53	885.22	1,247.92	1,610.61
	End Protection (upper&lower part)	58.90	112.93	166.96	220.99
	Headwall (+Scour Protection)	3,262.31	4,356.89	5,451.46	6,546.04
	FORMWORK (sqm)				
	Box /m	16.99	25.80	34.62	43.44
	End Protection (upper&lower part)	22.93	42.06	61.19	80.32
	Headwall (+Scour Protection)	133.61	145.19	156.78	168.36

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	6.06	10.87	15.68	20.50
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04
	Headwall (+Scour Protection)	40.53	58.70	76.86	95.03
	BAR WEIGHT (kg)				
	Box /m	571.87	982.00	1,392.13	1,802.26
	End Protection (upper&lower part)	59.85	114.73	169.60	224.47
	Headwall (+Scour Protection)	3,280.32	4,375.78	5,471.23	6,566.68
	FORMWORK (sqm)				
	Box /m	17.11	25.92	34.74	43.56
	End Protection (upper&lower part)	23.36	42.89	62.42	81.94
	Headwall (+Scour Protection)	135.65	147.43	159.21	170.99

SIZE		300 X 300		(S x D)		S D	
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4		
1201 - 1500cm	CONCRETE VOLUME (cum)						
	Box /m	6.35	11.42	16.50	21.58		
	End Protection (upper&lower part)	0.81	1.55	2.30	3.04		
	Headwall (+Scour Protection)	42.37	61.72	81.08	100.43		
	BAR WEIGHT (kg)						
	Box /m	612.73	1,058.87	1,505.02	1,951.16		
	End Protection (upper&lower part)	61.12	117.12	173.12	229.12		
	Headwall (+Scour Protection)	3,304.34	4,400.96	5,497.59	6,594.21		
	FORMWORK (sqm)						
	Box /m	17.27	26.08	34.90	43.72		
	End Protection (upper&lower part)	23.94	44.00	64.05	84.10		
	Headwall (+Scour Protection)	138.37	150.41	162.46	174.50		

SIZE

330 X 300

(S x D)

S

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	4.10	7.13	10.17	13.20
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	27.82	38.08	48.34	58.60
	BAR WEIGHT (kg)				
	Box /m	329.61	550.40	771.18	991.97
	End Protection (upper&lower part)	54.08	105.38	156.69	208.00
	Headwall (+Scour Protection)	3,192.67	4,378.29	5,563.92	6,749.54
	FORMWORK (sqm)				
	Box /m	16.23	25.34	34.46	43.58
	End Protection (upper&lower part)	20.35	37.22	54.08	70.95
	Headwall (+Scour Protection)	116.51	127.24	137.97	148.69
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	4.10	7.13	10.17	13.20
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	27.82	38.08	48.34	58.60
	BAR WEIGHT (kg)				
	Box /m	315.24	524.45	733.65	942.85
	End Protection (upper&lower part)	54.08	105.38	156.69	208.00
	Headwall (+Scour Protection)	3,192.67	4,378.29	5,563.92	6,749.54
	FORMWORK (sqm)				
	Box /m	16.23	25.34	34.46	43.58
	End Protection (upper&lower part)	20.35	37.22	54.08	70.95
	Headwall (+Scour Protection)	116.51	127.24	137.97	148.69

SIZE

330 X 300

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	4.10	7.13	10.17	13.20
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	27.82	38.08	48.34	58.60
	BAR WEIGHT (kg)				
	Box /m	339.88	563.99	788.09	1,012.19
	End Protection (upper&lower part)	54.08	105.38	156.69	208.00
	Headwall (+Scour Protection)	3,192.67	4,378.29	5,563.92	6,749.54
	FORMWORK (sqm)				
	Box /m	16.23	25.34	34.46	43.58
	End Protection (upper&lower part)	20.35	37.22	54.08	70.95
	Headwall (+Scour Protection)	116.51	127.24	137.97	148.69

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	4.10	7.13	10.17	13.20
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	27.82	38.08	48.34	58.60
	BAR WEIGHT (kg)				
	Box /m	402.37	662.30	922.23	1,182.15
	End Protection (upper&lower part)	54.08	105.38	156.69	208.00
	Headwall (+Scour Protection)	3,192.67	4,378.29	5,563.92	6,749.54
	FORMWORK (sqm)				
	Box /m	16.23	25.34	34.46	43.58
	End Protection (upper&lower part)	20.35	37.22	54.08	70.95
	Headwall (+Scour Protection)	116.51	127.24	137.97	148.69

SIZE

330 X 300

(S x D)

 S
 D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	4.18	7.28	10.39	13.49
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	28.30	38.89	49.47	60.06
	BAR WEIGHT (kg)				
	Box /m	411.04	679.03	947.01	1,215.00
	End Protection (upper&lower part)	54.41	106.04	157.66	209.28
	Headwall (+Scour Protection)	3,198.70	4,384.64	5,570.58	6,756.53
	FORMWORK (sqm)				
	Box /m	16.27	25.38	34.50	43.62
	End Protection (upper&lower part)	20.51	37.51	54.52	71.54
	Headwall (+Scour Protection)	117.20	128.00	138.80	149.60
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	4.37	7.66	10.94	14.23
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	29.52	40.91	52.31	63.70
	BAR WEIGHT (kg)				
	Box /m	440.79	735.58	1,030.38	1,325.17
	End Protection (upper&lower part)	55.25	107.66	160.08	212.50
	Headwall (+Scour Protection)	3,213.78	4,400.52	5,587.26	6,774.00
	FORMWORK (sqm)				
	Box /m	16.37	25.48	34.60	43.72
	End Protection (upper&lower part)	20.90	38.26	55.63	73.01
	Headwall (+Scour Protection)	118.91	129.89	140.87	151.85

SIZE

330 X 300

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	4.68	8.26	11.83	15.40
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	31.47	44.16	56.85	69.54
	BAR WEIGHT (kg)				
	Box /m	475.93	803.99	1,132.05	1,460.11
	End Protection (upper&lower part)	56.59	110.27	163.95	217.64
	Headwall (+Scour Protection)	3,237.90	4,425.92	5,613.93	6,801.95
	FORMWORK (sqm)				
	Box /m	16.53	25.64	34.76	43.88
	End Protection (upper&lower part)	21.52	39.47	57.41	75.36
	Headwall (+Scour Protection)	121.65	132.92	144.18	155.45

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	4.96	8.78	12.61	16.43
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	33.17	47.00	60.82	74.64
	BAR WEIGHT (kg)				
	Box /m	491.94	831.99	1,172.04	1,512.09
	End Protection (upper&lower part)	57.76	112.55	167.34	222.13
	Headwall (+Scour Protection)	3,262.96	4,452.09	5,641.22	6,830.36
	FORMWORK (sqm)				
	Box /m	16.67	25.78	34.90	44.02
	End Protection (upper&lower part)	22.07	40.51	58.96	77.41
	Headwall (+Scour Protection)	124.05	135.57	147.09	158.61

SIZE

330 X 300

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	5.46	9.76	14.05	18.34
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	36.34	52.27	68.20	84.13
	BAR WEIGHT (kg)				
	Box /m	538.29	921.95	1,305.62	1,689.29
	End Protection (upper&lower part)	59.93	116.78	173.63	230.48
	Headwall (+Scour Protection)	3,318.38	4,509.59	5,700.80	6,892.01
	FORMWORK (sqm)				
	Box /m	16.93	26.04	35.16	44.28
	End Protection (upper&lower part)	23.08	42.46	61.85	81.24
	Headwall (+Scour Protection)	128.50	140.49	152.48	164.46

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	6.01	10.81	15.60	20.40
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	39.75	57.94	76.14	94.34
	BAR WEIGHT (kg)				
	Box /m	555.44	954.10	1,352.76	1,751.42
	End Protection (upper&lower part)	62.27	121.34	180.41	239.48
	Headwall (+Scour Protection)	3,360.60	4,554.04	5,747.48	6,940.93
	FORMWORK (sqm)				
	Box /m	17.21	26.32	35.44	44.56
	End Protection (upper&lower part)	24.17	44.57	64.96	85.35
	Headwall (+Scour Protection)	133.29	145.79	158.28	170.77

SIZE

330 X 300

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	6.32	11.41	16.49	21.58
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	41.69	61.19	80.68	100.18
	BAR WEIGHT (kg)				
	Box /m	586.05	996.08	1,406.11	1,816.15
	End Protection (upper&lower part)	63.61	123.94	184.28	244.62
	Headwall (+Scour Protection)	3,388.67	4,583.39	5,778.11	6,972.83
	FORMWORK (sqm)				
	Box /m	17.37	26.48	35.60	44.72
	End Protection (upper&lower part)	24.79	45.77	66.74	87.70
	Headwall (+Scour Protection)	136.03	148.81	161.59	174.37

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	6.56	11.86	17.16	22.46
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	43.16	63.62	84.09	104.55
	BAR WEIGHT (kg)				
	Box /m	645.53	1,112.33	1,579.12	2,045.92
	End Protection (upper&lower part)	64.61	125.90	187.18	248.47
	Headwall (+Scour Protection)	3,406.76	4,602.44	5,798.12	6,993.79
	FORMWORK (sqm)				
	Box /m	17.49	26.60	35.72	44.84
	End Protection (upper&lower part)	25.26	46.66	68.07	89.47
	Headwall (+Scour Protection)	138.09	151.09	164.08	177.08

SIZE

330 X 300

(S x D)

 S
 D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1201 - 1500cm	CONCRETE VOLUME (cum)				
	Box /m	6.95	12.61	18.27	23.93
	End Protection (upper&lower part)	0.88	1.69	2.50	3.31
	Headwall (+Scour Protection)	45.59	67.68	89.76	111.85
	BAR WEIGHT (kg)				
	Box /m	699.38	1,212.97	1,726.56	2,240.15
	End Protection (upper&lower part)	66.28	129.15	192.02	254.89
	Headwall (+Scour Protection)	3,436.91	4,634.19	5,831.46	7,028.73
	FORMWORK (sqm)				
	Box /m	17.69	26.80	35.92	45.04
	End Protection (upper&lower part)	26.04	48.16	70.29	92.41
	Headwall (+Scour Protection)	141.52	154.87	168.23	181.58

SIZE

330 X 330

(S x D)

S
D ☐

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	4.47	7.69	10.91	14.13
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	33.73	45.11	56.49	67.88
	BAR WEIGHT (kg)				
	Box /m	333.53	556.80	780.07	1,003.34
	End Protection (upper&lower part)	54.48	105.98	157.49	209.00
	Headwall (+Scour Protection)	4,210.86	5,699.09	7,187.31	8,675.53
	FORMWORK (sqm)				
	Box /m	17.43	27.14	36.86	46.58
	End Protection (upper&lower part)	21.24	38.56	55.87	73.19
	Headwall (+Scour Protection)	135.57	146.38	157.18	167.98

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	4.47	7.69	10.91	14.13
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	33.73	45.11	56.49	67.88
	BAR WEIGHT (kg)				
	Box /m	319.16	530.79	742.43	954.06
	End Protection (upper&lower part)	54.48	105.98	157.49	209.00
	Headwall (+Scour Protection)	4,210.86	5,699.09	7,187.31	8,675.53
	FORMWORK (sqm)				
	Box /m	17.43	27.14	36.86	46.58
	End Protection (upper&lower part)	21.24	38.56	55.87	73.19
	Headwall (+Scour Protection)	135.57	146.38	157.18	167.98

SIZE

330 X 330

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	4.47	7.69	10.91	14.13
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	33.73	45.11	56.49	67.88
	BAR WEIGHT (kg)				
	Box /m	347.69	571.66	795.63	1,019.60
	End Protection (upper&lower part)	54.48	105.98	157.49	209.00
	Headwall (+Scour Protection)	4,210.86	5,699.09	7,187.31	8,675.53
	FORMWORK (sqm)				
	Box /m	17.43	27.14	36.86	46.58
	End Protection (upper&lower part)	21.24	38.56	55.87	73.19
	Headwall (+Scour Protection)	135.57	146.38	157.18	167.98

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	4.47	7.69	10.91	14.13
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	33.73	45.11	56.49	67.88
	BAR WEIGHT (kg)				
	Box /m	417.38	678.18	938.99	1,199.79
	End Protection (upper&lower part)	54.48	105.98	157.49	209.00
	Headwall (+Scour Protection)	4,210.86	5,699.09	7,187.31	8,675.53
	FORMWORK (sqm)				
	Box /m	17.43	27.14	36.86	46.58
	End Protection (upper&lower part)	21.24	38.56	55.87	73.19
	Headwall (+Scour Protection)	135.57	146.38	157.18	167.98

SIZE

330 X 330

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	4.55	7.84	11.14	14.43
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	34.29	46.04	57.78	69.53
	BAR WEIGHT (kg)				
	Box /m	434.15	710.21	986.27	1,262.34
	End Protection (upper&lower part)	54.81	106.64	158.46	210.28
	Headwall (+Scour Protection)	4,218.71	5,707.25	7,195.79	8,684.33
	FORMWORK (sqm)				
	Box /m	17.47	27.18	36.90	46.62
	End Protection (upper&lower part)	21.40	38.86	56.32	73.78
	Headwall (+Scour Protection)	136.33	147.20	158.08	168.95

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	4.75	8.22	11.70	15.17
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	35.70	48.35	61.00	73.65
	BAR WEIGHT (kg)				
	Box /m	455.91	751.85	1,047.80	1,343.75
	End Protection (upper&lower part)	55.65	108.26	160.88	213.50
	Headwall (+Scour Protection)	4,238.31	5,727.65	7,216.99	8,706.33
	FORMWORK (sqm)				
	Box /m	17.57	27.28	37.00	46.72
	End Protection (upper&lower part)	21.80	39.62	57.44	75.26
	Headwall (+Scour Protection)	138.21	149.27	160.32	171.38

SIZE

330 X 330

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	4.95	8.60	12.26	15.91
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	37.10	50.66	64.22	77.78
	BAR WEIGHT (kg)				
	Box /m	503.85	844.46	1,185.07	1,525.68
	End Protection (upper&lower part)	56.48	109.89	163.30	216.71
	Headwall (+Scour Protection)	4,257.91	5,748.05	7,238.18	8,728.32
	FORMWORK (sqm)				
	Box /m	17.67	27.38	37.10	46.82
	End Protection (upper&lower part)	22.19	40.38	58.56	76.74
	Headwall (+Scour Protection)	140.10	151.33	162.57	173.81
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	5.34	9.36	13.38	17.39
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	39.92	55.29	70.66	86.03
	BAR WEIGHT (kg)				
	Box /m	513.98	861.56	1,209.13	1,556.71
	End Protection (upper&lower part)	58.16	113.15	168.14	223.13
	Headwall (+Scour Protection)	4,301.06	5,792.80	7,284.53	8,776.26
	FORMWORK (sqm)				
	Box /m	17.87	27.58	37.30	47.02
	End Protection (upper&lower part)	22.98	41.89	60.80	79.71
	Headwall (+Scour Protection)	143.87	155.47	167.07	178.67

SIZE

330 X 330

(S x D)

S
D ☐

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	5.85	10.34	14.83	19.32
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	43.57	61.30	79.03	96.75
	BAR WEIGHT (kg)				
	Box /m	566.39	962.99	1,359.59	1,756.18
	End Protection (upper&lower part)	60.33	117.38	174.43	231.48
	Headwall (+Scour Protection)	4,352.02	5,845.83	7,339.64	8,833.45
	FORMWORK (sqm)				
	Box /m	18.13	27.84	37.56	47.28
	End Protection (upper&lower part)	24.01	43.86	63.71	83.56
	Headwall (+Scour Protection)	148.77	160.84	172.91	184.98

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	6.41	11.40	16.40	21.39
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	47.51	67.78	88.04	108.30
	BAR WEIGHT (kg)				
	Box /m	567.22	964.65	1,362.08	1,759.51
	End Protection (upper&lower part)	62.67	121.94	181.21	240.48
	Headwall (+Scour Protection)	4,424.98	5,921.02	7,417.06	8,913.11
	FORMWORK (sqm)				
	Box /m	18.41	28.12	37.84	47.56
	End Protection (upper&lower part)	25.12	45.98	66.85	87.71
	Headwall (+Scour Protection)	154.04	166.62	179.20	191.78

SIZE

330 X 330

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	6.72	12.01	17.30	22.58
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	49.76	71.48	93.19	114.90
	BAR WEIGHT (kg)				
	Box /m	593.12	1,021.42	1,449.73	1,878.03
	End Protection (upper&lower part)	64.01	124.54	185.08	245.62
	Headwall (+Scour Protection)	4,460.29	5,957.61	7,454.93	8,952.25
	FORMWORK (sqm)				
	Box /m	18.57	28.28	38.00	47.72
	End Protection (upper&lower part)	25.75	47.19	68.64	90.09
	Headwall (+Scour Protection)	157.06	169.93	182.79	195.66

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	6.96	12.46	17.97	23.47
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34
	Headwall (+Scour Protection)	51.45	74.25	97.05	119.86
	BAR WEIGHT (kg)				
	Box /m	652.60	1,137.79	1,622.98	2,108.18
	End Protection (upper&lower part)	65.01	126.50	187.98	249.47
	Headwall (+Scour Protection)	4,483.81	5,982.09	7,480.37	8,978.65
	FORMWORK (sqm)				
	Box /m	18.69	28.40	38.12	47.84
	End Protection (upper&lower part)	26.22	48.10	69.98	91.87
	Headwall (+Scour Protection)	159.32	172.40	185.49	198.58

SIZE		330 X 330		(S x D)		S D	
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4		
1201 - 1500cm	CONCRETE VOLUME (cum)						
	Box /m	7.36	13.22	19.09	24.95		
	End Protection (upper&lower part)	0.89	1.70	2.52	3.34		
	Headwall (+Scour Protection)	54.26	78.88	103.49	128.11		
	BAR WEIGHT (kg)						
	Box /m	706.45	1,238.76	1,771.06	2,303.37		
	End Protection (upper&lower part)	66.68	129.75	192.82	255.89		
	Headwall (+Scour Protection)	4,523.02	6,022.89	7,522.76	9,022.64		
	FORMWORK (sqm)						
	Box /m	18.89	28.60	38.32	48.04		
	End Protection (upper&lower part)	27.01	49.62	72.22	94.83		
	Headwall (+Scour Protection)	163.09	176.54	189.98	203.43		

SIZE

360 X 330

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	4.72	8.19	11.65	15.12
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	35.26	47.98	60.70	73.41
	BAR WEIGHT (kg)				
	Box /m	393.46	652.69	911.93	1,171.17
	End Protection (upper&lower part)	59.59	116.19	172.79	229.39
	Headwall (+Scour Protection)	4,361.78	5,973.69	7,585.59	9,197.49
	FORMWORK (sqm)				
	Box /m	17.77	27.78	37.80	47.82
	End Protection (upper&lower part)	22.65	41.35	60.06	78.76
	Headwall (+Scour Protection)	137.23	149.00	160.78	172.55
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	4.72	8.19	11.65	15.12
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	35.26	47.98	60.70	73.41
	BAR WEIGHT (kg)				
	Box /m	391.68	649.13	906.59	1,164.05
	End Protection (upper&lower part)	59.59	116.19	172.79	229.39
	Headwall (+Scour Protection)	4,361.78	5,973.69	7,585.59	9,197.49
	FORMWORK (sqm)				
	Box /m	17.77	27.78	37.80	47.82
	End Protection (upper&lower part)	22.65	41.35	60.06	78.76
	Headwall (+Scour Protection)	137.23	149.00	160.78	172.55

SIZE

360 X 330

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	4.72	8.19	11.65	15.12
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	35.26	47.98	60.70	73.41
	BAR WEIGHT (kg)				
	Box /m	401.38	664.80	928.22	1,191.64
	End Protection (upper&lower part)	59.59	116.19	172.79	229.39
	Headwall (+Scour Protection)	4,361.78	5,973.69	7,585.59	9,197.49
	FORMWORK (sqm)				
	Box /m	17.77	27.78	37.80	47.82
	End Protection (upper&lower part)	22.65	41.35	60.06	78.76
	Headwall (+Scour Protection)	137.23	149.00	160.78	172.55

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	4.85	8.43	12.02	15.60
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	36.15	49.46	62.76	76.07
	BAR WEIGHT (kg)				
	Box /m	449.70	746.97	1,044.24	1,341.51
	End Protection (upper&lower part)	60.14	117.27	174.40	231.53
	Headwall (+Scour Protection)	4,373.58	5,986.01	7,598.43	9,210.85
	FORMWORK (sqm)				
	Box /m	17.83	27.84	37.86	47.88
	End Protection (upper&lower part)	22.90	41.84	60.78	79.72
	Headwall (+Scour Protection)	138.37	150.26	162.15	174.05

SIZE

360 X 330

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	4.94	8.60	12.26	15.92
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	36.74	50.44	64.14	77.84
	BAR WEIGHT (kg)				
	Box /m	453.38	754.33	1,055.28	1,356.23
	End Protection (upper&lower part)	60.51	117.99	175.47	232.95
	Headwall (+Scour Protection)	4,381.45	5,994.22	7,606.99	9,219.75
	FORMWORK (sqm)				
	Box /m	17.87	27.88	37.90	47.92
	End Protection (upper&lower part)	23.07	42.17	61.27	80.36
	Headwall (+Scour Protection)	139.13	151.10	163.07	175.04

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	5.15	9.01	12.86	16.72
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	38.23	52.91	67.59	82.26
	BAR WEIGHT (kg)				
	Box /m	463.14	771.69	1,080.24	1,388.78
	End Protection (upper&lower part)	61.44	119.80	178.16	236.52
	Headwall (+Scour Protection)	4,401.12	6,014.75	7,628.38	9,242.01
	FORMWORK (sqm)				
	Box /m	17.97	27.98	38.00	48.02
	End Protection (upper&lower part)	23.50	42.99	62.48	81.96
	Headwall (+Scour Protection)	141.03	153.19	165.36	177.53

SIZE

360 X 330

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	5.36	9.41	13.47	17.52
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	39.71	55.37	71.03	86.69
	BAR WEIGHT (kg)				
	Box /m	508.62	859.75	1,210.88	1,562.01
	End Protection (upper&lower part)	62.36	121.60	180.84	240.08
	Headwall (+Scour Protection)	4,420.79	6,035.28	7,649.78	9,264.27
	FORMWORK (sqm)				
	Box /m	18.07	28.08	38.10	48.12
	End Protection (upper&lower part)	23.92	43.80	63.69	83.57
	Headwall (+Scour Protection)	142.93	155.29	167.65	180.02
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	5.79	10.23	14.68	19.12
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	42.67	60.29	77.92	95.54
	BAR WEIGHT (kg)				
	Box /m	549.72	937.18	1,324.63	1,712.09
	End Protection (upper&lower part)	64.21	125.21	186.21	247.21
	Headwall (+Scour Protection)	4,464.07	6,080.30	7,696.52	9,312.75
	FORMWORK (sqm)				
	Box /m	18.27	28.28	38.30	48.32
	End Protection (upper&lower part)	24.77	45.44	66.11	86.77
	Headwall (+Scour Protection)	146.73	159.48	172.24	184.99

SIZE

360 X 330

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	6.42	11.46	16.49	21.53
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	47.12	67.68	88.25	108.82
	BAR WEIGHT (kg)				
	Box /m	604.58	1,043.67	1,482.77	1,921.86
	End Protection (upper&lower part)	66.98	130.62	194.26	257.90
	Headwall (+Scour Protection)	4,541.15	6,159.97	7,778.78	9,397.60
	FORMWORK (sqm)				
	Box /m	18.57	28.58	38.60	48.62
	End Protection (upper&lower part)	26.05	47.89	69.74	91.50
	Headwall (+Scour Protection)	152.42	165.77	179.11	192.46

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	7.06	12.68	18.31	23.93
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	51.56	75.07	98.58	122.09
	BAR WEIGHT (kg)				
	Box /m	627.43	1,086.79	1,546.15	2,005.51
	End Protection (upper&lower part)	69.75	136.03	202.31	268.59
	Headwall (+Scour Protection)	4,604.10	6,225.51	7,846.93	9,468.34
	FORMWORK (sqm)				
	Box /m	18.87	28.88	38.90	48.92
	End Protection (upper&lower part)	27.32	50.34	73.37	96.39
	Headwall (+Scour Protection)	158.12	172.06	185.99	199.92

SIZE

360 X 330

(S x D)

D S

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	7.40	13.34	19.28	25.21
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	53.93	79.01	104.09	129.17
	BAR WEIGHT (kg)				
	Box /m	679.43	1,165.37	1,651.31	2,137.25
	End Protection (upper&lower part)	71.23	138.92	206.61	274.29
	Headwall (+Scour Protection)	4,635.57	6,258.37	7,881.16	9,503.96
	FORMWORK (sqm)				
	Box /m	19.03	29.04	39.06	49.08
	End Protection (upper&lower part)	28.00	51.65	75.30	98.95
	Headwall (+Scour Protection)	161.16	175.41	189.66	203.90

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	7.74	13.99	20.24	26.49
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61
	Headwall (+Scour Protection)	56.30	82.95	109.60	136.25
	BAR WEIGHT (kg)				
	Box /m	752.45	1,307.74	1,863.03	2,418.32
	End Protection (upper&lower part)	72.71	141.80	210.90	280.00
	Headwall (+Scour Protection)	4,667.04	6,291.22	7,915.40	9,539.57
	FORMWORK (sqm)				
	Box /m	19.19	29.20	39.22	49.24
	End Protection (upper&lower part)	28.68	52.96	77.24	101.51
	Headwall (+Scour Protection)	164.20	178.76	193.32	207.88

SIZE		360 X 330		(S x D)		S D	
FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4		
1201 - 1500cm	CONCRETE VOLUME (cum)						
	Box /m	8.34	15.14	21.94	28.74		
	End Protection (upper&lower part)	0.96	1.84	2.72	3.61		
	Headwall (+Scour Protection)	60.45	89.85	119.25	148.65		
	BAR WEIGHT (kg)						
	Box /m	938.95	1,470.62	2,102.30	2,733.98		
	End Protection (upper&lower part)	75.30	146.86	218.42	289.98		
	Headwall (+Scour Protection)	4,726.06	6,352.66	7,979.26	9,605.86		
	FORMWORK (sqm)						
	Box /m	19.47	29.48	39.50	49.52		
	End Protection (upper&lower part)	29.87	55.25	80.63	106.00		
	Headwall (+Scour Protection)	169.52	184.63	199.74	214.85		

SIZE

360 X 360

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
0 - 30cm	CONCRETE VOLUME (cum)				
	Box /m	5.13	8.79	12.46	16.13
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	41.44	55.18	68.93	82.68
	BAR WEIGHT (kg)				
	Box /m	411.86	679.96	948.05	1,216.14
	End Protection (upper&lower part)	59.99	116.79	173.59	230.39
	Headwall (+Scour Protection)	6,146.92	8,321.65	10,496.37	12,671.10
	FORMWORK (sqm)				
	Box /m	18.97	29.58	40.20	50.82
	End Protection (upper&lower part)	23.61	42.79	61.97	81.15
	Headwall (+Scour Protection)	156.33	168.18	180.03	191.88

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
31 - 60cm	CONCRETE VOLUME (cum)				
	Box /m	5.13	8.79	12.46	16.13
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	41.44	55.18	68.93	82.68
	BAR WEIGHT (kg)				
	Box /m	410.08	676.40	942.71	1,209.02
	End Protection (upper&lower part)	59.99	116.79	173.59	230.39
	Headwall (+Scour Protection)	6,146.92	8,321.65	10,496.37	12,671.10
	FORMWORK (sqm)				
	Box /m	18.97	29.58	40.20	50.82
	End Protection (upper&lower part)	23.61	42.79	61.97	81.15
	Headwall (+Scour Protection)	156.33	168.18	180.03	191.88

SIZE

360 X 360

(S x D)

 S
 D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
61 - 150cm	CONCRETE VOLUME (cum)				
	Box /m	5.13	8.79	12.46	16.13
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	41.44	55.18	68.93	82.68
	BAR WEIGHT (kg)				
	Box /m	421.50	690.73	959.96	1,229.20
	End Protection (upper&lower part)	59.99	116.79	173.59	230.39
	Headwall (+Scour Protection)	6,146.92	8,321.65	10,496.37	12,671.10
	FORMWORK (sqm)				
	Box /m	18.97	29.58	40.20	50.82
	End Protection (upper&lower part)	23.61	42.79	61.97	81.15
	Headwall (+Scour Protection)	156.33	168.18	180.03	191.88

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
151 - 225cm	CONCRETE VOLUME (cum)				
	Box /m	5.13	8.79	12.46	16.13
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	41.44	55.18	68.93	82.68
	BAR WEIGHT (kg)				
	Box /m	461.55	759.13	1,056.71	1,354.30
	End Protection (upper&lower part)	59.99	116.79	173.59	230.39
	Headwall (+Scour Protection)	6,146.92	8,321.65	10,496.37	12,671.10
	FORMWORK (sqm)				
	Box /m	18.97	29.58	40.20	50.82
	End Protection (upper&lower part)	23.61	42.79	61.97	81.15
	Headwall (+Scour Protection)	156.33	168.18	180.03	191.88

SIZE

360 X 360

(S x D)

 $\frac{S^2}{D}$

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
226 - 300cm	CONCRETE VOLUME (cum)				
	Box /m	5.26	9.04	12.83	16.61
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	42.43	56.81	71.20	85.59
	BAR WEIGHT (kg)				
	Box /m	477.23	789.27	1,101.31	1,413.36
	End Protection (upper&lower part)	60.54	117.87	175.20	232.53
	Headwall (+Scour Protection)	6,163.29	8,338.54	10,513.78	12,689.02
	FORMWORK (sqm)				
	Box /m	19.03	29.64	40.26	50.88
	End Protection (upper&lower part)	23.86	43.28	62.70	82.12
	Headwall (+Scour Protection)	157.56	169.52	181.49	193.46

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
301 - 375cm	CONCRETE VOLUME (cum)				
	Box /m	5.47	9.45	13.44	17.42
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	44.08	59.53	74.98	90.43
	BAR WEIGHT (kg)				
	Box /m	469.70	773.40	1,077.11	1,380.81
	End Protection (upper&lower part)	61.47	119.67	177.88	236.09
	Headwall (+Scour Protection)	6,190.57	8,366.68	10,542.79	12,718.89
	FORMWORK (sqm)				
	Box /m	19.13	29.74	40.36	50.98
	End Protection (upper&lower part)	24.29	44.11	63.92	83.74
	Headwall (+Scour Protection)	159.59	171.76	183.92	196.09

SIZE

360 X 360

(S x D)

D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
376 - 450cm	CONCRETE VOLUME (cum)				
	Box /m	5.69	9.87	14.05	18.23
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	45.72	62.24	78.76	95.28
	BAR WEIGHT (kg)				
	Box /m	541.83	908.01	1,274.20	1,640.39
	End Protection (upper&lower part)	62.39	121.48	180.57	239.65
	Headwall (+Scour Protection)	6,217.85	8,394.82	10,571.80	12,748.77
	FORMWORK (sqm)				
	Box /m	19.23	29.84	40.46	51.08
	End Protection (upper&lower part)	24.72	44.93	65.14	85.35
	Headwall (+Scour Protection)	161.63	173.99	186.36	198.72

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
451 - 600cm	CONCRETE VOLUME (cum)				
	Box /m	6.20	10.86	15.51	20.16
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	49.68	68.76	87.83	106.91
	BAR WEIGHT (kg)				
	Box /m	567.80	957.13	1,346.45	1,735.78
	End Protection (upper&lower part)	64.61	125.81	187.01	248.21
	Headwall (+Scour Protection)	6,287.21	8,466.32	10,645.37	12,824.41
	FORMWORK (sqm)				
	Box /m	19.47	30.08	40.70	51.32
	End Protection (upper&lower part)	25.76	46.91	68.07	89.23
	Headwall (+Scour Protection)	166.52	179.35	192.19	205.03

SIZE

360 X 360

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
601 - 750cm	CONCRETE VOLUME (cum)				
	Box /m	6.85	12.09	17.34	22.59
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	54.62	76.90	99.18	121.45
	BAR WEIGHT (kg)				
	Box /m	637.91	1,092.56	1,547.21	2,001.86
	End Protection (upper&lower part)	67.38	131.22	195.06	258.90
	Headwall (+Scour Protection)	6,369.11	8,550.75	10,732.39	12,914.03
	FORMWORK (sqm)				
	Box /m	19.77	30.38	41.00	51.62
	End Protection (upper&lower part)	27.05	49.39	71.73	94.07
	Headwall (+Scour Protection)	172.62	186.05	199.40	212.91

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
751 - 900cm	CONCRETE VOLUME (cum)				
	Box /m	7.49	13.33	19.17	25.01
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	59.56	85.04	110.52	136.00
	BAR WEIGHT (kg)				
	Box /m	660.76	1,135.80	1,610.83	2,085.87
	End Protection (upper&lower part)	70.15	136.63	203.11	269.59
	Headwall (+Scour Protection)	6,474.45	8,658.68	10,842.91	13,027.15
	FORMWORK (sqm)				
	Box /m	20.07	30.68	41.30	51.92
	End Protection (upper&lower part)	28.34	51.86	75.39	98.92
	Headwall (+Scour Protection)	178.73	192.75	206.78	220.80

SIZE

360 X 360

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
901 - 1050cm	CONCRETE VOLUME (cum)				
	Box /m	7.84	13.99	20.15	26.30
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	62.20	89.38	116.57	143.75
	BAR WEIGHT (kg)				
	Box /m	687.19	1,194.51	1,701.82	2,209.14
	End Protection (upper&lower part)	71.63	139.52	207.41	275.29
	Headwall (+Scour Protection)	6,518.09	8,703.71	10,889.33	13,074.94
	FORMWORK (sqm)				
	Box /m	20.23	30.84	41.46	52.08
	End Protection (upper&lower part)	29.02	53.18	77.34	101.50
	Headwall (+Scour Protection)	181.99	196.33	210.67	225.01

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1051 - 1200cm	CONCRETE VOLUME (cum)				
	Box /m	8.18	14.65	21.12	27.59
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	64.84	93.73	122.62	151.51
	BAR WEIGHT (kg)				
	Box /m	760.22	1,337.06	1,913.90	2,490.74
	End Protection (upper&lower part)	73.11	142.40	211.70	281.00
	Headwall (+Scour Protection)	6,561.74	8,748.74	10,935.74	13,122.74
	FORMWORK (sqm)				
	Box /m	20.39	31.00	41.62	52.24
	End Protection (upper&lower part)	29.71	54.50	79.29	104.09
	Headwall (+Scour Protection)	185.25	199.90	214.56	229.21

SIZE

360 X 360

(S x D)

S
D

FILL HEIGHT	NUMBER OF BOX CELL	1	2	3	4
1201 - 1500cm	CONCRETE VOLUME (cum)				
	Box /m	8.78	15.81	22.83	29.85
	End Protection (upper&lower part)	0.97	1.86	2.75	3.63
	Headwall (+Scour Protection)	69.45	101.33	133.20	165.08
	BAR WEIGHT (kg)				
	Box /m	846.71	1,500.42	2,154.13	2,807.83
	End Protection (upper&lower part)	75.70	147.46	219.22	290.98
	Headwall (+Scour Protection)	6,642.07	8,831.49	11,020.92	13,210.34
	FORMWORK (sqm)				
	Box /m	20.67	31.28	41.90	52.52
	End Protection (upper&lower part)	30.92	56.81	82.71	108.61
	Headwall (+Scour Protection)	190.95	206.16	221.36	236.57

- 345 -