



RELACIONAMENTO DO AÇO

ACO	N	DIAM	Q	UNIT	C.TOTAL
90	1	6.0	137.4	1.316	137964
90	10	10.0	10.0	3.16	2732
90	3	10.0	28	6.90	18200
90	4	10.0	478	9.96	4780
90	6	10.0	2	2.00	200
90	7	10.0	4	4.70	940
90	8	10.0	4	2.80	560
90	9	10.0	4	8.95	358
90	10	10.0	11	17.8	378
90	11	10.0	12	12.00	2400
90	13	10.0	2	1.49	298
90	14	10.0	2	1.49	298
90	16	10.0	2	2.95	590
90	17	10.0	2	2.95	590
90	18	10.0	4	5.90	1180
90	20	10.0	4	5.90	1180
90	21	10.0	4	5.90	1180
90	22	10.0	4	5.90	1180
90	23	10.0	4	5.90	1180
90	24	10.0	4	5.90	1180
90	25	10.0	4	5.90	1180
90	26	10.0	4	5.90	1180
90	27	10.0	4	5.90	1180
90	28	10.0	4	5.90	1180
90	29	10.0	4	5.90	1180
90	30	10.0	4	5.90	1180
90	31	12.5	4	11.97	4788
90	32	12.5	4	11.97	4788
90	33	12.5	4	11.97	4788
90	34	12.5	4	11.97	4788
90	35	12.5	4	11.97	4788
90	36	12.5	4	11.97	4788
90	37	12.5	4	11.97	4788
90	38	12.5	4	11.97	4788
90	39	12.5	4	11.97	4788
90	40	12.5	4	11.97	4788
90	41	12.5	4	11.97	4788
90	42	12.5	4	11.97	4788
90	43	12.5	4	11.97	4788
90	44	12.5	4	11.97	4788
90	45	12.5	4	11.97	4788
90	46	12.5	4	11.97	4788
90	47	12.5	4	11.97	4788
90	48	12.5	4	11.97	4788
90	49	12.5	4	11.97	4788
90	50	12.5	4	11.97	4788
90	51	12.5	4	11.97	4788
90	52	12.5	4	11.97	4788
90	53	12.5	4	11.97	4788
90	54	12.5	4	11.97	4788
90	55	12.5	4	11.97	4788
90	56	12.5	4	11.97	4788
90	57	12.5	4	11.97	4788
90	58	12.5	4	11.97	4788
90	59	12.5	4	11.97	4788
90	60	12.5	4	11.97	4788
90	61	12.5	4	11.97	4788
90	62	12.5	4	11.97	4788
90	63	12.5	4	11.97	4788
90	64	12.5	4	11.97	4788
90	65	12.5	4	11.97	4788
90	66	12.5	4	11.97	4788
90	67	12.5	4	11.97	4788
90	68	12.5	4	11.97	4788
90	69	12.5	4	11.97	4788
90	70	12.5	4	11.97	4788
90	71	12.5	4	11.97	4788
90	72	12.5	4	11.97	4788
90	73	12.5	4	11.97	4788
90	74	12.5	4	11.97	4788
90	75	12.5	4	11.97	4788
90	76	12.5	4	11.97	4788
90	77	12.5	4	11.97	4788
90	78	12.5	4	11.97	4788
90	79	12.5	4	11.97	4788
90	80	12.5	4	11.97	4788
90	81	12.5	4	11.97	4788
90	82	12.5	4	11.97	4788
90	83	12.5	4	11.97	4788
90	84	12.5	4	11.97	4788
90	85	12.5	4	11.97	4788
90	86	12.5	4	11.97	4788
90	87	12.5	4	11.97	4788
90	88	12.5	4	11.97	4788
90	89	12.5	4	11.97	4788
90	90	12.5	4	11.97	4788
90	91	12.5	4	11.97	4788
90	92	12.5	4	11.97	4788
90	93	12.5	4	11.97	4788
90	94	12.5	4	11.97	4788
90	95	12.5	4	11.97	4788
90	96	12.5	4	11.97	4788
90	97	12.5	4	11.97	4788
90	98	12.5	4	11.97	4788
90	99	12.5	4	11.97	4788
90	100	12.5	4	11.97	4788

RESUMO DO AÇO

ACO	DIAM	C.TOTAL	PESO+10%
CA50	10.0	30.91	195.3
CA50	12.5	103.0	202.7
CA60	5.0	1325.8	224.6
CA50	776.9		
CA60	224.6		

Vol. concreto total = 16,12 m³
Aço de forma total = 201,47 m³
fck = 3000,00 kg/cm²

PROJETO

ESTRUTURA DE CONCRETO - PROJETO EXECUTIVO

CLIENTE: CIE-RN-45 - AMANDIRA, VIGAS E BALDADES

PROJETO: CIE - CENTRO DE INICIAÇÃO AO ESPORTE

PROJETADEOR: ENG. PAULO SERGIO BATISTA FERREIRA

REVISOR: ENG. PAULO SERGIO BATISTA FERREIRA

APROVADO: ENG. PAULO SERGIO BATISTA FERREIRA

DATA: 28/11/13

INDICADORA: CIE-RN-45-ESC-EX-4005-R00L.DWG

TITULO: CIE - CENTRO DE INICIAÇÃO AO ESPORTE

PROJETO: CIE - CENTRO DE INICIAÇÃO AO ESPORTE

PROJETADEOR: ENG. PAULO SERGIO BATISTA FERREIRA

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