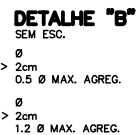




RESUMO AÇO CA-50			
ø(mm)	COMP.(m)	PESO (Kg/m)	TOTAL (Kg)
8	708.0	.4	283.2
10	108.7	.630	67.9
TOTAL			351.1



BITOLA Ø	CA-50	CA-60
< 20mm	2.5 Ø	3.0 Ø
> 20mm	4.0 Ø	5.0 Ø
ESTRIBO > 20mm	1.5 Ø	1.5 Ø



- 01- COTAS E DIMENSÕES CENTÍMETRO E ELEVATIONS EM METRO, EXCETO ONDE INDICADO.
- 02- CONCRETO ESTRUTURAL FCK= 30 MPa, CONCRETO MAGRO FCK= 10 MPa.
- 03- PARA A CURA DO CONCRETO DEVERÁ SER UTILIZADA LAMINA D'ÁGUA OU LONA (MANTA BÍDM) ENCHARCADA, ADOTAR A CURA QUÍMICA E PROTEÇÃO CONTRA O VENTO IMEDIATAMENTE APÓS O PERÍODO DE PEGGA.
- 04- AS FORMAS E ESCORAMENTOS DEVERÃO SER DIMENSIONADOS E EXECUTADOS DE ACORDO COM AS PRESCRIÇÕES DA NB-11, DE MODO QUE NÃO SOFRAM DEFORMAÇÕES PREJUDICIAIS, QUE SOB A AÇÃO DOS FATORES AMBIENTAIS E QUE SOB A CARGA, ESPECIALMENTE A DO CONCRETO ANTES DO INÍCIO DA PEGGA. UTILIZAR FORMA CHAPA COMPENSADA RESINADA 12mm.
- 05- OS MATERIAIS CONSTITUINTES DO CONCRETO ARMADO DEVERÃO ATENDER À SUAS RESPECTIVAS PRESCRIÇÕES DA NB-11, NBR 12218, NBR 12220, NBR 12221, NBR 12222, NBR 12223, NBR 12224, NBR 12225, NBR 12226, NBR 12227, NBR 12228, NBR 12229, NBR 12230, NBR 12231, NBR 12232, NBR 12233, NBR 12234, NBR 12235, NBR 12236, NBR 12237, NBR 12238, NBR 12239, NBR 12240, NBR 12241, NBR 12242, NBR 12243, NBR 12244, NBR 12245, NBR 12246, NBR 12247, NBR 12248, NBR 12249, NBR 12250, NBR 12251, NBR 12252, NBR 12253, NBR 12254, NBR 12255, NBR 12256, NBR 12257, NBR 12258, NBR 12259, NBR 12260, NBR 12261, NBR 12262, NBR 12263, NBR 12264, NBR 12265, NBR 12266, NBR 12267, NBR 12268, NBR 12269, NBR 12270, NBR 12271, NBR 12272, NBR 12273, NBR 12274, NBR 12275, NBR 12276, NBR 12277, NBR 12278, NBR 12279, NBR 12280, NBR 12281, NBR 12282, NBR 12283, NBR 12284, NBR 12285, NBR 12286, NBR 12287, NBR 12288, NBR 12289, NBR 12290, NBR 12291, NBR 12292, NBR 12293, NBR 12294, NBR 12295, NBR 12296, NBR 12297, NBR 12298, NBR 12299, NBR 12300, NBR 12301, NBR 12302, NBR 12303, NBR 12304, NBR 12305, NBR 12306, NBR 12307, NBR 12308, NBR 12309, NBR 12310, NBR 12311, NBR 12312, NBR 12313, NBR 12314, NBR 12315, NBR 12316, NBR 12317, NBR 12318, NBR 12319, NBR 12320, NBR 12321, NBR 12322, NBR 12323, NBR 12324, NBR 12325, NBR 12326, NBR 12327, NBR 12328, NBR 12329, NBR 12330, NBR 12331, NBR 12332, NBR 12333, NBR 12334, NBR 12335, NBR 12336, NBR 12337, NBR 12338, NBR 12339, NBR 12340, NBR 12341, NBR 12342, NBR 12343, NBR 12344, NBR 12345, NBR 12346, NBR 12347, NBR 12348, NBR 12349, NBR 12350, NBR 12351, NBR 12352, NBR 12353, NBR 12354, NBR 12355, NBR 12356, NBR 12357, NBR 12358, NBR 12359, NBR 12360, NBR 12361, NBR 12362, NBR 12363, NBR 12364, NBR 12365, NBR 12366, NBR 12367, NBR 12368, NBR 12369, NBR 12370, NBR 12371, NBR 12372, NBR 12373, NBR 12374, NBR 12375, NBR 12376, NBR 12377, NBR 12378, NBR 12379, NBR 12380, NBR 12381, NBR 12382, NBR 12383, NBR 12384, NBR 12385, NBR 12386, NBR 12387, NBR 12388, NBR 12389, NBR 12390, NBR 12391, NBR 12392, NBR 12393, NBR 12394, NBR 12395, NBR 12396, NBR 12397, NBR 12398, NBR 12399, NBR 12400, NBR 12401, NBR 12402, NBR 12403, NBR 12404, NBR 12405, NBR 12406, NBR 12407, NBR 12408, NBR 12409, NBR 12410, NBR 12411, NBR 12412, NBR 12413, NBR 12414, NBR 12415, NBR 12416, NBR 12417, NBR 12418, NBR 12419, NBR 12420, NBR 12421, NBR 12422, NBR 12423, NBR 12424, NBR 12425, NBR 12426, NBR 12427, NBR 12428, NBR 12429, NBR 12430, NBR 12431, NBR 12432, NBR 12433, NBR 12434, NBR 12435, NBR 12436, NBR 12437, NBR 12438, NBR 12439, NBR 12440, NBR 12441, NBR 12442, NBR 12443, NBR 12444, NBR 12445, NBR 12446, NBR 12447, NBR 12448, NBR 12449, NBR 12450, NBR 12451, NBR 12452, NBR 12453, NBR 12454, NBR 12455, NBR 12456, NBR 12457, NBR 12458, NBR 12459, NBR 12460, NBR 12461, NBR 12462, NBR 12463, NBR 12464, NBR 12465, NBR 12466, NBR 12467, NBR 12468, NBR 12469, NBR 12470, NBR 12471, NBR 12472, NBR 12473, NBR 12474, NBR 12475, NBR 12476, NBR 12477, NBR 12478, NBR 12479, NBR 12480, NBR 12481, NBR 12482, NBR 12483, NBR 12484, NBR 12485, NBR 12486, NBR 12487, NBR 12488, NBR 12489, NBR 12490, NBR 12491, NBR 12492, NBR 12493, NBR 12494, NBR 12495, NBR 12496, NBR 12497, NBR 12498, NBR 12499, NBR 12500, NBR 12501, NBR 12502, NBR 12503, NBR 12504, NBR 12505, NBR 12506, NBR 12507, NBR 12508, NBR 12509, NBR 12510, NBR 12511, NBR 12512, NBR 12513, NBR 12514, NBR 12515, NBR 12516, NBR 12517, NBR 12518, NBR 12519, NBR 12520, NBR 12521, NBR 12522, NBR 12523, NBR 12524, NBR 12525, NBR 12526, NBR 12527, NBR 12528, NBR 12529, NBR 12530, NBR 12531, NBR 12532, NBR 12533, NBR 12534, NBR 12535, NBR 12536, NBR 12537, NBR 12538, NBR 12539, NBR 12540, NBR 12541, NBR 12542, NBR 12543, NBR 12544, NBR 12545, NBR 12546, NBR 12547, NBR 12548, NBR 12549, NBR 12550, NBR 12551, NBR 12552, NBR 12553, NBR 12554, NBR 12555, NBR 12556, NBR 12557, NBR 12558, NBR 12559, NBR 12560, NBR 12561, NBR 12562, NBR 12563, NBR 12564, NBR 12565, NBR 12566, NBR 12567, NBR 12568, NBR 12569, NBR 12570, NBR 12571, NBR 12572, NBR 12573, NBR 12574, NBR 12575, NBR 12576, NBR 12577, NBR 12578, NBR 12579, NBR 12580, NBR 12581, NBR 12582, NBR 12583, NBR 12584, NBR 12585, NBR 12586, NBR 12587, NBR 12588, NBR 12589, NBR 12590, NBR 12591, NBR 12592, NBR 12593, NBR 12594, NBR 12595, NBR 12596, NBR 12597, NBR 12598, NBR 12599, NBR 12600, NBR 12601, NBR 12602, NBR 12603, NBR 12604, NBR 12605, NBR 12606, NBR 12607, NBR 12608, NBR 12609, NBR 12610, NBR 12611, NBR 12612, NBR 12613, NBR 12614, NBR 12615, NBR 12616, NBR 12617, NBR 12618, NBR 12619, NBR 12620, NBR 12621, NBR 12622, NBR 12623, NBR 12624, NBR 12625, NBR 12626, NBR 12627, NBR 12628, NBR 12629, NBR 12630, NBR 12631, NBR 12632, NBR 12633, NBR 12634, NBR 12635, NBR 12636, NBR 12637, NBR 12638, N

CANCELA E SUBSTITUI
O DESENHO NÚMERO:

CANCELADO E SUBSTITUI
TUÍDO PELO DESENHO
NÚMERO:

EMITENTE:  ENGENSO 2000 ENGENHARIA E CONSTRUÇÃO LTDA. Av. 15 de Novembro, 100 - Jd. Santa Helena - São Paulo - SP Tel. (011) 2383.0800 - Fax (011) 2383.0801 Mail: lisa@engenso.com.br - CEP: 01129-070	
PROJETADO: LAERTE JUNIOR BAPTISTA	COORDENADOR: JOÃO JOSÉ FIGUEIREDO DE OLIVEIRA
CREA: <u>7616/D</u> REGIÃO: <u>ES</u>	CREA: <u>11664/D</u> REGIÃO: <u>MG</u>
DESENHO: <u>ANTÔNIO MARIANI</u>	Nº DES. PROJETISTA:
DATA: <u>13 / 12 / 2017</u>	<u>SA_PROJ04_15.DE_11_074_008.A</u>
RESPONSÁVEL TÉCNICO: CARLOS LEONARDO STOLL VAS	
CREA: <u>052514/D</u> REGIÃO: <u>MG</u> ART. Nº: <u>0831170128540</u> DATA: <u>20/12/2017</u>	

	EMIÇÃO CESAN	DATAS
PROJETADO:	_____	
CREA: -	ENGISOLO ENGENHARIA LTDA.	
DESENHADO:	_____	-
	ENGISOLO ENGENHARIA LTDA.	
VERIFICADO:	_____	-
E-TYPE	ENGº CRYSTIAN SANTIAGO DE ARAUJO	
DIVISÃO:	_____	-
DPE	ENGº CARINA DA ROSS REZENDE	
GERÊNCIA:	_____	-
E-GDP	ENGº NESTOR ALDOES GORZA JUNIOR	

			
MUNICÍPIO: VILA VALÉRIO		DISTRITO:	BAIRRO:
NOME DO EMPREENDIMENTO: MELHORIA DO SISTEMA DE ABASTECIMENTO DE ÁGUA DE VILA VALÉRIO			
TÍTULO: CAPTAÇÃO DE ÁGUA BRUTA			
PROJETO ESTRUTURAL – CAIXA DE AREIA			
ARMAÇÃO 2/4			
ESCALA:	INDICADA	FOLHA:	Nº CESAN
		04/06	C-101-000-20-4-XX-0008
			REV 00