



CISMEM

CONSÓRCIO DE PROJETOS

MEMÓRIA DE CÁLCULO

1	$((7,92+6,89+8,18)/3)*((8,08+7,28)/2)$	58,85	M ²
2	$((7,18+8,13)/2)*((3,27+4,04)/2)+((8,13+6,38)/2)*((9,11+8,18)/2)$	90,70	M ²
3	$((7,22*5,07)/2)$	18,30	M ²
4	$((33,66+33,72)/2)*((5,51+5,07)/2)$	178,22	M ²
5	$((33,57+33,50)/2)*((5,51+8,55)/2)$	235,75	M ²
6	$((3,81+3,90)/2)*((11,97+13,19)/2)$	48,50	M ²
7	$((32,12*4,70)/2)+(((6,90+3,90)/2)*((32,12+20,80+11,53)/2))$	249,50	M ²
8	$(5,14*9,84)$	50,58	M ²
9	$((4,79+4,11)/2)*((8,14+4,89+5,14+5,14)/2)$	51,86	M ²
10	$((8,15+5,21)/2)*((4,44+6,95)/2)+(2,22*4,78)$	48,65	M ²
11	$((5,05+5,28)/2)*((5,04+5,62)/2)$	27,53	M ²
12	$((5,24+2,42+3,74+3,71)/2)*((6,34+6,95)/2)$	50,20	M ²
13	$((2,72+4,02+7,06+3,66+2,30+3,59+3,19)/2)*((7,14+6,34)/2)$	89,44	M ²
14	$((6,76+7,89)/2)*((7,14+6,22)/2)$	48,93	M ²
15	$((9,55+8,93)/2)*((10,88+15,63)/2)$	122,48	M ²
16	$((2,27+8,52)*((10,88)/2)$	58,70	M ²
17	$((7,36+8,52)/2)*((3,15+2,48+3,26)/2)$	35,29	M ²
18	$((13,13+15,47)/2)*((9,78+6,22)/2)$	114,40	M ²
19	$((9,78+4,51)/2)*((6,37+20,68+25,42)/2)$	187,45	M ²
20	$((2+8,60+8,65)/2)*((10,58+6,46)/2)$	82,01	M ²
21	$((12,52+12,73)/2)*((6,74+6,46)/2)$	83,33	M ²
22	$((15,59*6,34)/2)$	49,42	M ²
23	$((15,31+15,59)/2)*((5,03+4,94)/2)$	77,02	M ²
24	$((19,08+19,30)/2)*((4,52+4,94)/2)$	90,77	M ²
25	$((9,53+10,88+6,89+6,44+5,85)/2)*((4,79+4,52)/2)$	92,15	M ²
26	$((10,41+7,46+6,27+10,67+3,88+5,19+6,05)/2)*((4,79+4,81)/2)$	119,83	M ²
27	$((8,63+10,22)/2)*((4,81+5,15)/2)$	46,94	M ²
28	$28,79*((5,33+5,03)/2)$	149,13	M ²
29	$((5,33+7,64)/2)*((11,52+11,34)/2)$	74,12	M ²
30	$((7,95+8,42)/2)*((4,59+4,78)/2)$	38,35	M ²
31	$((2,69+4,93+10,97)/2)*((6,58+4,79)/2)$	52,84	M ²
32	$((5,15*4,34)/2)+((8,49*4,34)/2)+((7,64+9,69)/2)*((14,61+8,49+5,15)/2)$	151,99	M ²
33	$((2,36*1,37)/2)+((7,41+6,72)/2)*((35,27+36,48)/2)$	255,07	M ²
34	$((6,72+10,41)/2)*((16,77+12,36)/2)$	124,75	M ²
TOTAL PAVIMENTAÇÃO		3253,05	

sargeta

TRECHO 1	7,28+6,64+33,72+33,50+7,95+4,93+2,69+9,69+35,27+16,77+12,36+36,48+4,84+2,88+9,72+10,97+8,42+13,19+11,95+33,57+33,65+7,24+4,05+3,26+8,08+0,72	359,82	
TRECHO 2	32,55+4,04+5,05+5,28+5,17+3,74+3,71+5,24+2,42+4,79+8,65+12,73+12,74+15,31+28,79+11,52+11,34+28,79+1,66+12,52+8,60+2+20,80+11,53	258,97	
TRECHO 3	19,30+5,85+6,44+6,89+10,41+7,46+6,27+8,63+10,22+10,67+3,88+5,19+6,05+10,88+9,53+19,08+7,06+4,02+2,72+7,89+13,13+25,42+6,37+20,68+4,52+2,48+3,26+9,55+15,63+3,66+2,30+3,59+3,19	282,22	

	TOTAL SARJETA		901,01	M
2.5		QUANTIDADE CÚBICA		
		3.253,05*0,06	195,18	M ³
4.0		PINTURA DE LIGAÇÃO E EXECUÇÃO	3253,05	M ²
5.0		TRANSPORTE BETUMINOSO		
		(3.253,05*0,06)*127,0KM	24788,21	M ³ XKM
6.0		TRANSPORTE PINTURA BETUMINOSA		
		(3.253,42m ² X 0,5 litros/m ² (consumo de RR-1C)=1.626,71 litros / 1000) = ((1,63 ton x 596 km (distancia entre Crisólita a Betim)) * 2)	1942,96	TXKM

ENGENHEIRO CIVIL