

Cálculo dos Pilares – trecho 6

 casamaquinas
 Lance 6

 $f_{ck} = 250.00 \text{ kgf/cm}^2$
 $E = 241500 \text{ kgf/cm}^2$
 $\text{Peso Espec} = 2500.00 \text{ kgf/m}^3$
 $\text{cobr} = 2.00 \text{ cm}$

Dados					Resultados			
Pilar	Seção (cm)	lib vínc esb B	Nd máx Nd mín (tf) ni Zr	MBd topo MBd base MHd topo MHd base (kgf.m)	MBsdtopo MBsdcentro MBsdbase MHsdtopo MHsdcentro MHsdbase (kgf.m)	Madtopo Madcentro Madbase MB2d MBcd MH2d MHcd (kgf.m)	Processo de Cálculo	As b(cm ²) As h % armad
P23	19.00 X 40.00	105.00 RR 19.12 105.00 RR 9.08	24.11 2.64 0.18 0.00 0.00	1464 1073 5508 1621	1464 586 1073 5508 2657 1621	127 63 127 37 1 24 1	(*) Msd(x) = 1591 kgf.m Msd(y) = 5508 kgf.m Mrd(x) = 2570 kgf.m Mrd(y) = 8898 kgf.m Mrd/Msd=1.62	4.02 2 ø 16.0 8.04 4 ø 16.0 2.1
P24	19.00 X 40.00	105.00 RR 19.12 105.00 RR 9.08	55.25 4.99 0.41 0.00 0.00	0 1 9258 2523	0 1 1 9258 4546 2523	1144 1143 1142 73 0 49 3	(*) Msd(x) = 1144 kgf.m Msd(y) = 9258 kgf.m Mrd(x) = 1356 kgf.m Mrd(y) = 10981 kgf.m Mrd/Msd=1.19	4.02 2 ø 16.0 8.04 4 ø 16.0 2.1
P25	19.00 X 40.00	105.00 RR 19.12 105.00 RR 9.08	24.11 2.64 0.18 0.00 0.00	1464 1073 5508 1608	1464 586 1073 5508 2662 1608	127 63 127 37 1 24 1	(*) Msd(x) = 1591 kgf.m Msd(y) = 5508 kgf.m Mrd(x) = 2570 kgf.m Mrd(y) = 8898 kgf.m Mrd/Msd=1.62	4.02 2 ø 16.0 8.04 4 ø 16.0 2.1
P27	19.00 X 40.00	105.00 RR 19.12 105.00 RR 9.08	23.67 2.67 0.17 0.00 0.00	1231 425 5560 1123	1231 664 186 5560 2887 1123	124 62 304 39 1 25 1	(*) Msd(x) = 1355 kgf.m Msd(y) = 5560 kgf.m Mrd(x) = 2277 kgf.m Mrd(y) = 9343 kgf.m Mrd/Msd=1.68	4.02 2 ø 16.0 8.04 4 ø 16.0 2.1
P28	19.00 X 40.00	105.00 RR 19.12 105.00 RR 9.08	54.94 5.17 0.40 0.00 0.00	0 158 9437 2562	0 95 158 9437 4638 2562	1137 1042 979 73 1 49 3	(*) Msd(x) = 1137 kgf.m Msd(y) = 9437 kgf.m Mrd(x) = 1329 kgf.m Mrd(y) = 11025 kgf.m Mrd/Msd=1.17	4.02 2 ø 16.0 8.04 4 ø 16.0 2.1
P29		105.00 RR	23.67	1231	1231	124	(*)	4.02

Dados					Resultados			
Pilar	Seção (cm)	lib vínc esb B lih vínc esb H (cm)	Nd máx Nd mín (tf) ni Zr	MBd topo MBd base MHd topo MHd base (kgf.m)	MBsdtopo MBsdcentro MBsdbase MHsdtopo MHsdcentro MHsdbase (kgf.m)	Madtopo Madcentro Madbase MB2d MBcd MH2d MHcd (kgf.m)	Processo de Cálculo	As b(cm²) As h % armad
	19.00 X 40.00	19.12 105.00 RR 9.08	2.67 0.17 0.00 0.00	1048 5560 1978	492 1048 5560 2545 1978	62 124 34 1 24 1	Msd(x) = 1355 kgf.m Msd(y) = 5560 kgf.m Mrd(x) = 2277 kgf.m Mrd(y) = 9343 kgf.m Mrd/Msd=1.68	2 ø 16.0 8.04 4 ø 16.0 2.1

(*) Quantidade de barras alterada pelo usuário (para mais)