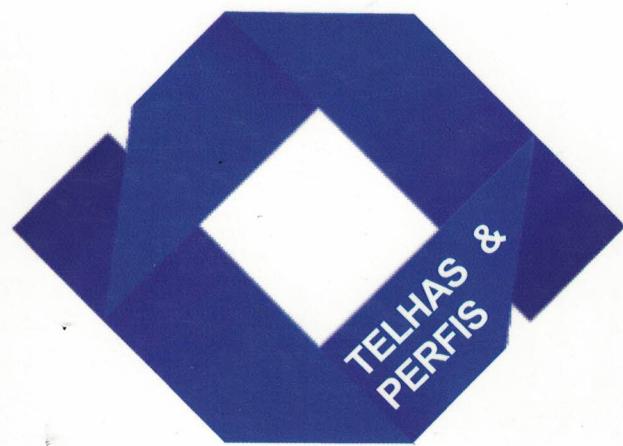


## **CATÁLOGO DE PRODUTOS**



**PANTANAL**  
SOLUÇÕES EM FERRO E AÇO



## PRODUTOS

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Perfilados  
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Acessórios para Serralherias  
Telhas  
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Cumeeiras  
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## PANTANAL SOLUÇÕES EM FERRO E AÇO LTDA.

Fundada em 2001, iniciou suas atividades como distribuidora de produtos siderúrgicos e com constantes investimentos em equipamentos para transformação do aço, e treinamento de seus colaboradores, se tornou uma das principais empresas do setor e referência na região.

Contando com uma área de 7000m<sup>2</sup> coberta, possui equipamentos de grande porte para abertura de bobinas de até 15 toneladas e perfiladeiras para produção de UDCS com medidas especiais, corte e dobra de chapas de até 6,30mm x 6000mm atendendo a necessidade de cada cliente.

Hoje continuamos a investir para oferecermos o melhor para o nosso clientes, em máquinas, equipamentos, capacitação da equipe e estoque diversificado.



**PANTANAL**  
SOLUÇÕES EM FERRO E AÇO

# Catálogo Técnico de Perfis

## Desenhos e Pesos Teóricos\*

\*Apenas para noções de medidas e apresentação de produtos, podendo sofrer pequenas divergências, variando entre espessuras de chapas, fornecedores, etc.  
Para demais dúvidas entre em contato.

## TUBO INDUSTRIAL RETANGULAR

Dimensão	Peso/MI	Peso/BR 6m
Tu Ret 30 x 20 # 18 = 1,20mm	0,700	4,200
Tu Ret 30 x 20 # 18 = 1,20mm	0,923	5,538
Tu Ret 30 x 20 # 16 = 1,50mm	1,142	6,852
Tu Ret 30 x 20 # 14 = 2,00mm	1,522	9,132
Tu Ret 40 x 20 # 20 = 0,90mm	0,840	5,040
Tu Ret 40 x 20 # 18 = 1,20mm	1,121	6,726
Tu Ret 40 x 20 # 16 = 1,50mm	1,390	8,340
Tu Ret 40 x 20 # 14 = 2,00mm	1,852	11,112
Tu Ret 40 x 30 # 20 = 0,90mm	0,982	5,892
Tu Ret 40 x 30 # 18 = 1,20mm	1,310	7,860
Tu Ret 40 x 30 # 16 = 1,50mm	1,630	9,780
Tu Ret 40 x 30 # 14 = 2,00mm	2,166	12,996
Tu Ret 50 x 20 # 20 = 0,90mm	0,982	5,892
Tu Ret 50 x 20 # 18 = 1,20mm	1,310	7,860
Tu Ret 50 x 20 # 16 = 1,50mm	1,630	9,780
Tu Ret 50 x 20 # 14 = 2,00mm	2,166	12,996
Tu Ret 50 x 30 # 20 = 0,90mm	1,137	6,822
Tu Ret 50 x 30 # 18 = 1,20mm	1,500	9,000
Tu Ret 50 x 30 # 16 = 1,50mm	1,872	11,232
Tu Ret 50 x 30 # 14 = 2,00mm	2,480	14,880
Tu Ret 50 x 30 # 13 = 2,25mm	2,782	16,692
Tu Ret 50 x 30 # 12 = 2,65mm	3,265	19,590
Tu Ret 50 x 30 # 11 = 3,00mm	3,673	22,038
Tu Ret 60 x 40 # 18 = 1,20mm	1,874	11,244
Tu Ret 60 x 40 # 16 = 1,50mm	2,331	13,986
Tu Ret 60 x 40 # 14 = 2,00mm	3,100	18,600
Tu Ret 60 x 40 # 13 = 2,25mm	3,480	20,880
Tu Ret 60 x 40 # 12 = 2,65mm	4,077	24,462
Tu Ret 60 x 40 # 11 = 3,00mm	4,615	27,690
Tu Ret 70 x 30 # 18 = 1,20mm	1,874	11,244
Tu Ret 70 x 30 # 16 = 1,50mm	2,331	13,986
Tu Ret 70 x 30 # 14 = 2,00mm	3,100	18,600
Tu Ret 70 x 30 # 13 = 2,25mm	3,480	20,880
Tu Ret 70 x 30 # 12 = 2,65mm	4,077	24,462
Tu Ret 70 x 30 # 11 = 3,00mm	4,615	27,690
Tu Ret 80 x 40 # 18 = 1,20mm	2,251	13,506
Tu Ret 80 x 40 # 16 = 1,50mm	2,814	16,884
Tu Ret 80 x 40 # 14 = 2,00mm	3,736	22,416
Tu Ret 80 x 40 # 13 = 2,25mm	4,195	25,170
Tu Ret 80 x 40 # 12 = 2,65mm	4,920	29,520
Tu Ret 80 x 40 # 11 = 3,00mm	5,558	33,348

## TUBO INDUSTRIAL QUADRADO

Dimensão	Peso/MI	Peso/BR 6m
Tu Quad 15 x 15 # 20 = 0,90mm	0,424	2,544
Tu Quad 15 x 15 # 18 = 1,20mm	0,556	3,336
Tu Quad 15 x 15 # 16 = 1,50mm	0,689	4,134
Tu Quad 20 x 20 # 20 = 0,90mm	0,558	3,348
Tu Quad 20 x 20 # 18 = 1,20mm	0,734	4,404
Tu Quad 20 x 20 # 16 = 1,50mm	0,918	5,508
Tu Quad 20 x 20 # 14 = 2,00mm	1,225	7,350
Tu Quad 25 x 25 # 20 = 0,90mm	0,700	4,200
Tu Quad 25 x 25 # 18 = 1,20mm	0,923	5,538
Tu Quad 25 x 25 # 16 = 1,50mm	1,142	6,852
Tu Quad 25 x 25 # 14 = 2,00mm	1,522	9,132
Tu Quad 30 x 30 # 20 = 0,90mm	0,840	5,040
Tu Quad 30 x 30 # 18 = 1,20mm	1,121	6,726
Tu Quad 30 x 30 # 16 = 1,50mm	1,390	8,340
Tu Quad 30 x 30 # 14 = 2,00mm	1,852	11,112
Tu Quad 40 x 40 # 20 = 0,90mm	1,137	6,822
Tu Quad 40 x 40 # 18 = 1,20mm	1,500	9,000
Tu Quad 40 x 40 # 16 = 1,50mm	1,872	11,232
Tu Quad 40 x 40 # 14 = 2,00mm	2,480	14,880
Tu Quad 40 x 40 # 13 = 2,25mm	2,782	16,692
Tu Quad 40 x 40 # 12 = 2,65mm	3,265	19,590
Tu Quad 40 x 40 # 11 = 3,00mm	3,673	22,038
Tu Quad 50 x 50 # 18 = 1,20mm	1,874	11,244
Tu Quad 50 x 50 # 16 = 1,50mm	2,331	13,986
Tu Quad 50 x 50 # 14 = 2,00mm	3,100	18,600
Tu Quad 50 x 50 # 13 = 2,25mm	3,480	20,880
Tu Quad 50 x 50 # 12 = 2,65mm	4,077	24,462
Tu Quad 50 x 50 # 11 = 3,00mm	4,615	27,690
Tu Quad 60 x 60 # 18 = 1,20mm	2,251	13,506
Tu Quad 60 x 60 # 16 = 1,50mm	2,814	16,884
Tu Quad 60 x 60 # 14 = 2,00mm	3,736	22,416
Tu Quad 60 x 60 # 13 = 2,25mm	4,195	25,170
Tu Quad 60 x 60 # 12 = 2,65mm	4,920	29,520
Tu Quad 60 x 60 # 11 = 3,00mm	5,558	33,348
Tu Quad 80 x 80 # 18 = 1,20mm	0,700	4,200
Tu Quad 80 x 80 # 16 = 1,50mm	0,700	4,200
Tu Quad 80 x 80 # 14 = 2,00mm	0,700	4,200
Tu Quad 80 x 80 # 13 = 2,25mm	0,700	4,200
Tu Quad 80 x 80 # 12 = 2,65mm	0,700	4,200
Tu Quad 80 x 80 # 11 = 3,00mm	0,700	4,200

## TUBO INDUSTRIAL REDONDO

Pol.	Dimensão	Peso/MI	Peso/BR 6m
Tu Red 1/2"	12,79 x 0,90 # 20	0,275	1,650
Tu Red 1/2"	12,79 x 1,20 # 18	0,358	2,148
Tu Red 5/8"	12,79 x 0,90 # 20	0,346	2,076
Tu Red 5/8"	12,79 x 1,20 # 18	0,457	2,742
Tu Red 5/8"	12,79 x 1,50 # 16	0,565	3,390
Tu Red 3/4"	19,05 x 0,90 # 20	0,420	2,520
Tu Red 3/4"	19,05 x 1,20 # 18	0,555	3,390
Tu Red 3/4"	19,05 x 1,50 # 16	0,689	4,134
Tu Red 7/8"	22,22 x 0,90 # 20	0,487	2,922
Tu Red 7/8"	22,22 x 1,20 # 18	0,640	3,840
Tu Red 7/8"	22,22 x 1,50 # 16	0,794	4,764
Tu Red 1"	25,40 x 0,90 # 20	0,558	3,348
Tu Red 1"	25,40 x 1,20 # 18	0,734	4,404
Tu Red 1"	25,40 x 1,50 # 16	0,920	5,508
Tu Red 1"	25,40 x 2,00 # 14	1,225	7,350
Tu Red 1"	25,40 x 2,25 # 13	1,369	8,214
Tu Red 1"	25,40 x 2,65 # 12	1,590	9,550
Tu Red 1"	25,40 x 3,00 # 11	1,790	10,740
Tu Red 1. 1/4"	31,75 x 0,90 # 20	0,700	4,200
Tu Red 1. 1/4"	31,75 x 1,20 # 18	0,923	5,538
Tu Red 1. 1/4"	31,75 x 1,50 # 16	1,142	6,850
Tu Red 1. 1/4"	31,75 x 2,00 # 14	1,522	9,132
Tu Red 1. 1/4"	31,75 x 2,25 # 13	1,713	10,278
Tu Red 1. 1/4"	31,75 x 2,65 # 12	1,997	11,982
Tu Red 1. 1/4"	31,75 x 3,00 # 11	2,260	13,560
Tu Red 1. 1/2"	38,10 x 0,90 # 20	0,840	5,040
Tu Red 1. 1/2"	38,10 x 1,20 # 18	1,121	6,726
Tu Red 1. 1/2"	38,10 x 1,50 # 16	1,390	8,340
Tu Red 1. 1/2"	38,10 x 2,00 # 14	1,852	11,112
Tu Red 1. 1/2"	38,10 x 2,25 # 13	2,066	12,396
Tu Red 1. 1/2"	38,10 x 2,65 # 12	2,410	14,478
Tu Red 1. 1/2"	38,10 x 3,00 # 11	2,730	16,380
Tu Red 1. 3/4"	44,45 x 0,90 # 20	0,982	5,892
Tu Red 1. 3/4"	44,45 x 1,20 # 18	1,310	7,860
Tu Red 1. 3/4"	44,45 x 1,50 # 16	1,630	9,780
Tu Red 1. 3/4"	44,45 x 2,00 # 14	2,166	12,996
Tu Red 1. 3/4"	44,45 x 2,25 # 13	2,437	14,622
Tu Red 1. 3/4"	44,45 x 2,65 # 12	2,850	17,100
Tu Red 1. 3/4"	44,45 x 3,00 # 11	3,226	19,356

## CHAPAS E BOBINAS GROSSAS

Bitola	Espessura mm	Peso teórico (Kg/m²)
1/4"	6,30 mm	49,39
5/16"	8,00 mm	62,72
3/8"	9,50 mm	74,48
1/2"	12,50 mm	99,00
5/8"	16,00 mm	125,44
3/4"	19,00 mm	149,50
7/8"	22,40 mm	175,84
1"	25,00 mm	198,00
1. 1/4"	31,50 mm	247,27
1. 1/2"	37,50 mm	299,00
1. 3/4"	44,45 mm	350,00
2"	50,00 mm	392,50
2. 1/2"	63,00 mm	494,55
3"	75,00 mm	588,10
3. 1/2"	88,90 mm	697,80
4"	100,00 mm	785,00

## TUBO INDUSTRIAL REDONDO

Pol.	Dimensão	Peso/MI	Peso/BR 6m
Tu Red 2"	50,80 x 0,90 # 20	1,137	6,822
Tu Red 2"	50,80 x 1,20 # 18	1,500	9,000
Tu Red 2"	50,80 x 1,50 # 16	1,872	11,232
Tu Red 2"	50,80 x 2,00 # 14	2,480	14,880
Tu Red 2"	50,80 x 2,25 # 13	2,782	16,692
Tu Red 2"	50,80 x 2,65 # 12	3,265	19,590
Tu Red 2"	50,80 x 3,00 # 11	3,673	22,038
Tu Red 2. 1/2"	63,50 x 1,20 # 18	1,874	11,244
Tu Red 2. 1/2"	63,50 x 1,50 # 16	2,331	13,986
Tu Red 2. 1/2"	63,50 x 2,00 # 14	3,100	18,600
Tu Red 2. 1/2"	63,50 x 2,25 # 13	3,480	20,880
Tu Red 2. 1/2"	63,50 x 2,65 # 12	4,077	24,462
Tu Red 2. 1/2"	63,50 x 3,00 # 11	4,615	27,690
Tu Red 3"	76,20 x 1,20 # 18	2,251	13,506
Tu Red 3"	76,20 x 1,50 # 16	2,814	16,884
Tu Red 3"	76,20 x 2,00 # 14	3,736	22,416
Tu Red 3"	76,20 x 2,25 # 13	4,195	25,170
Tu Red 3"	76,20 x 2,65 # 12	4,920	29,520
Tu Red 3"	76,20 x 3,00 # 11	5,558	33,348
Tu Red 3. 1/2"	88,90 x 1,50 # 16	3,273	19,638
Tu Red 3. 1/2"	88,90 x 2,00 # 14	4,348	26,088
Tu Red 3. 1/2"	88,90 x 2,25 # 13	4,892	29,352
Tu Red 3. 1/2"	88,90 x 2,65 # 12	5,740	34,440
Tu Red 3. 1/2"	88,90 x 3,00 # 11	6,500	39,000
Tu Red 4"	101,60 x 1,50 # 16	3,744	22,464
Tu Red 4"	101,60 x 2,00 # 14	4,977	29,862
Tu Red 4"	101,60 x 2,25 # 13	5,600	33,600
Tu Red 4"	101,60 x 2,65 # 12	6,574	39,444
Tu Red 4"	101,60 x 3,00 # 11	7,442	44,652

## CHAPAS E BOBINAS FINA A FRIO

Bitola MSG	Espessura mm	Peso teórico (Kg/m²)
30	0,30 mm	2,400
28	0,38 mm	3,040
26	0,45 mm	3,600
24	0,60 mm	4,800
22	0,75 mm	6,000
20	0,90 mm	7,200
19	1,06 mm	8,480
18	1,20 mm	9,600
16	1,50 mm	12,000
14	1,90 mm	15,200

## CHAPAS E BOBINAS FINA A QUENTE

Bitola MSG	Espessura mm	Peso teórico (Kg/m²)
16	1,50 mm	12,000
15	1,80 mm	14,400
14	2,00 mm	16,000
13	2,25 mm	18,000
12	2,65 mm	21,200
11	3,00 mm	24,000
10	3,35 mm	26,800
9	3,75 mm	30,000
8	4,25 mm	34,000
7	4,50 mm	36,000
3/16"	4,75 mm	38,000
*	5,00 mm	40,000

## CANTONEIRAS DE ABAS IGUAIS

Dimensão	mm	Peso/MI	Peso/BR 6m
5/8" x Serralheiro	15,88 x 2,50	0,570	3,420
3/4" x Serralheiro	19,05 x 2,50	0,710	4,260
1/2" x 1/8"	12,70 x 3,18	0,550	3,300
5/8" x 1/8"	15,88 x 3,18	0,710	4,260
3/4" x 1/8"	19,05 x 3,18	0,870	5,220
7/8" x 1/8"	22,23 x 3,18	1,040	4,260
1" x 1/8"	25,40 x 3,18	1,190	7,140
1.1/4" x 1/8"	31,75 x 3,18	1,500	9,000
1.1/2" x 1/8"	38,10 x 3,18	1,830	10,980
1.3/4" x 1/8"	44,45 x 3,18	2,140	12,840
2" x 1/8"	50,80 x 3,18	2,460	14,760
1" x 3/16"	25,40 x 4,76	1,730	10,380
1.1/4" x 3/16"	31,75 x 4,76	2,200	13,200
1.1/2" x 3/16"	38,10 x 4,76	2,680	16,080
1.3/4" x 3/16"	44,45 x 4,76	3,150	18,900
2" x 3/16"	50,80 x 4,76	3,630	21,780
2.1/2" x 3/16"	63,50 x 4,76	4,570	27,420
3" x 3/16"	76,20 x 4,76	5,520	33,120
1" x 1/4"	25,40 x 6,35	2,220	13,320
1.1/4" x 1/4"	31,75 x 6,35	2,860	17,160
1.1/2" x 1/4"	38,10 x 6,35	3,480	20,880
1.3/4" x 1/4"	44,45 x 6,35	4,120	24,720
2" x 1/4"	50,80 x 6,35	4,740	28,440
2.1/2" x 1/4"	63,50 x 6,35	6,100	36,600
3" x 1/4"	76,20 x 6,35	7,290	43,740
3.1/2" x 1/4"	88,90 x 6,35	8,560	51,360
4" x 1/4"	101,60 x 6,35	9,810	58,860
2" x 5/16"	50,80 x 7,94	5,830	41,940
2.1/2" x 5/16"	63,50 x 7,94	7,440	34,980
3" x 5/16"	76,20 x 7,94	9,070	52,680
3.1/2" x 5/16"	88,90 x 7,94	10,590	44,640
4" x 5/16"	101,60 x 7,94	12,190	64,260
4" x 3/8"	50,80 x 9,53	6,990	54,420
2.1/2" x 3/8"	63,50 x 9,53	8,780	75,480
3" x 3/8"	76,20 x 9,53	10,710	63,540
3.1/2" x 3/8"	88,90 x 9,53	12,580	73,140
4" x 3/8"	101,60 x 9,53	14,570	87,420

## BARRA QUADRADA LAMINADA

Dimensão	mm	Peso/MI	Peso/BR 6m
5/16"	7,94 mm	0,500	3,000
3/8"	9,53 mm	0,710	4,260
1/2"	12,70 mm	1,270	7,620
5/8"	15,88 mm	1,980	11,880
3/4"	19,05 mm	2,850	17,100
7/8"	22,23 mm	3,880	23,280
1"	25,40 mm	5,060	30,360
1.1/4"	31,75 mm	7,910	47,460
1.5/16"	33,34 mm	8,500	51,000
1.1/2"	38,10 mm	11,150	66,900
1.3/4"	44,45 mm	15,190	91,140

## CHAPAS PISO / XADREZ

Bitola	Espessura mm	Peso teórico (Kg/m²)
1/8"	3,00 mm	27,00
3/16"	4,75 mm	41,00
1/4"	6,30 mm	54,00
5/16"	8,00 mm	68,00
3/8"	9,50 mm	81,00

Outras espessuras sob consulta.

## BARRA REDONDA MECÂNICA TREFILADO

Dimensão	mm	Peso/MI	Peso/BR 6m
5/32"	3,97 mm	0,570	3,420
3/16"	4,76 mm	0,710	4,260
1/4"	6,35 mm	0,550	3,300
5/16"	7,94 mm	0,710	4,260
3/8"	9,53 mm	0,560	5,220
7/16"	11,11 mm	0,770	4,620
1/2"	12,70 mm	1,000	6,000
9/16"	14,29 mm	1,270	7,620
5/8"	15,88 mm	1,560	9,360
11/16"	17,46 mm	1,890	11,340
3/4"	19,05 mm	2,250	13,500
13/16"	20,64 mm	2,640	15,840
7/8"	22,23 mm	3,060	18,360
15/16"	23,81 mm	3,510	21,060
1"	25,40 mm	4,000	24,000
1.1/8"	28,58 mm	5,060	30,360
1.1/4"	31,75 mm	6,250	37,500
1.3/8"	34,93 mm	7,560	45,360
1.1/2"	38,10 mm	9,000	54,000
1.5/8"	41,28 mm	10,570	63,420
1.3/4"	44,45 mm	12,250	73,500
1.7/8"	47,63 mm	14,070	84,420
2"	50,80 mm	16,000	96,000
2.1/8"	53,98 mm	18,070	108,420
2.1/4"	57,15 mm	20,250	121,500
2.3/8"	60,33 mm	22,570	135,420
2.1/2"	63,50 mm	25,000	150,000
2.5/8"	66,68 mm	27,570	165,420
2.3/4"	69,85 mm	30,250	181,500
2.7/8"	73,03 mm	33,070	198,420
3"	76,20 mm	36,000	216,000
3.1/8"	79,38 mm	39,070	234,420
3.1/4"	82,55 mm	42,250	253,500
3.3/8"	85,73 mm	45,570	273,420
3.1/2"	88,90 mm	49,000	294,000
3.5/8"	92,08 mm	52,570	315,420
3.3/4"	95,25 mm	56,250	337,500
3.7/8"	98,43 mm	60,070	360,420
4"	101,60 mm	64,000	384,000
4.1/8"	104,77 mm	68,060	408,360
4.1/4"	107,95 mm	72,250	433,500
4.3/8"	111,12 mm	76,560	459,360
4.1/2"	114,30 mm	81,000	486,000
4.5/8"	117,47 mm	85,560	513,360
4.3/4"	120,65 mm	90,250	541,500
4.7/8"	123,82 mm	95,050	570,300
5"	127,00 mm	100,000	600,000
5.1/4"	133,35 mm	110,250	661,500
5.1/2"	139,70 mm	121,000	726,000
5.3/4"	146,05 mm	132,250	793,500
6"	152,40 mm	144,000	864,000

## PERFIL T

Dimensão	mm	Peso/MI	Peso/BR 6m
3/4" x Serralheiro	19,05 x 2,50	0,690	4,140
5/8" x 1/8"	15,88 x 3,18	0,710	4,260
3/4" x 1/8"	19,05 x 3,18	0,860	5,160
7/8" x 1/8"	22,23 x 3,18	0,990	5,940
1" x 1/8"	25,40 x 3,18	1,180	7,080
1.1/4" x 1/8"	31,75 x 3,18	1,500	9,000
1.1/2" x 1/8"	38,10 x 3,18	1,820	10,920
1.1/4" x 3/16"	31,75 x 4,76	2,160	12,960
1.1/2" x 3/16"	38,10 x 4,76	2,650	15,900
2" x 3/16"	50,80 x 6,30	3,620	20,520
1.1/2" x 1/4"	38,10 x 6,30	3,420	21,720
2" x 1/4"	50,80 x 6,30	4,740	28,440

## BARRA CHATA LAMINADA

Dimensão	Peso/MI	Peso/BR 6m
2,50mm x 1/2"	0,250	1,500
2,50mm x 5/8"	0,310	1,860
1/8 x 3/8"	0,240	1,440
1/8 x 1/2"	0,320	1,920
1/8 x 5/8"	0,400	2,400
1/8 x 3/4"	0,480	2,880
1/8 x 7/8"	0,550	3,300
1/8 x 1"	0,630	3,780
1/8 x 1.1/4"	0,790	4,740
1/8 x 1.1/2"	0,950	5,700
1/8 x 1.3/4"	1,110	6,660
1/8 x 2"	1,270	7,620
1/8 x 2.1/2"	1,590	9,540
1/8 x 3"	1,900	11,400
1/8 x 4"	2,540	15,240
3/16 x 1/2"	0,470	2,820
3/16 x 5/8"	0,590	3,540
3/16 x 3/4"	0,710	4,260
3/16 x 7/8"	0,830	4,980
3/16 x 1"	0,950	5,700
3/16 x 1.1/4"	1,190	7,140
3/16 x 1.1/2"	1,420	8,520
3/16 x 1.3/4"	1,660	9,960
3/16 x 2"	1,900	11,400
3/16 x 2.1/2"	2,370	14,220
3/16 x 3"	2,850	17,100
3/16 x 4"	3,800	22,800
3/16 x 5"	4,750	28,500
1/4 x 1/2"	0,630	3,780
1/4 x 5/8"	0,790	4,740
1/4 x 3/4"	0,950	5,700
1/4 x 7/8"	1,110	6,660
1/4 x 1"	1,270	7,620
1/4 x 1.1/4"	1,580	9,480
1/4 x 1.1/2"	1,900	11,400
1/4 x 1.3/4"	2,220	13,320
1/4 x 2"	2,530	15,180
1/4 x 2.1/2"	3,170	19,020
1/4 x 3"	3,800	22,800
1/4 x 4"	5,060	30,360
1/4 x 5"	6,330	37,980
1/4 x 6"	7,600	45,600
5/16 x 1"	1,580	9,480
5/16 x 1.1/4"	1,980	11,880
5/16 x 1.1/2"	2,370	14,220
5/16 x 1.3/4"	2,770	16,620
5/16 x 2"	3,170	19,020
5/16 x 2.1/2"	3,960	23,760
5/16 x 3"	4,750	28,500
5/16 x 3.1/2"	5,540	33,240
5/16 x 4"	6,330	37,980
5/16 x 5"	7,600	45,600
5/16 x 6"	9,500	57,000
3/8 x 1"	6,330	37,980
3/8 x 1.1/4"	7,600	45,600
3/8 x 1.1/2"	8,860	53,160
3/8 x 2"	10,130	60,780
3/8 x 3"	12,660	75,960
3/8 x 4"	15,190	91,140
3/8 x 5"	19,000	114,000
3/8 x 6"	22,790	136,740
1x 1.1/4"	6,330	37,980
1x 1.1/2"	7,600	45,600
1x 1.3/4"	8,860	53,160
1x 2"	10,130	60,780
1x 2.1/2"	12,660	75,960
1x 3"	15,190	91,140
1x 4"	20,260	121,560
1x 5"	25,320	151,920
1x 6"	30,390	182,340

## BARRA REDONDA MECÂNICA LAMINADA

Dimensão	mm	Peso/MI	Peso/BR 6m
1/4"	6,35 mm	0,250	1,500
5/16"	7,94 mm	0,390	2,340
3/8"	9,53 mm	0,560	3,360
1/2"	12,70 mm	0,990	5,940
9/16"	14,29 mm	1,260	7,560
5/8"	15,88 mm	1,560	9,360
11/16"	17,46 mm	1,880	11,280
3/4"	19,05 mm	2,240	13,440
7/8"	22,23 mm	3,050	18,300
1"	25,40 mm	3,980	23,880
1. 1/8"	28,58 mm	5,040	30,240
1. 1/4"	31,75 mm	6,220	37,320
1. 5/16"	33,34 mm	6,850	41,100
1. 3/8"	34,93 mm	7,520	45,120
1. 7/16"	36,51 mm	8,220	49,320
1. 1/2"	38,10 mm	8,950	53,700
1. 9/16"	39,69 mm	9,710	58,260
1. 5/8"	41,28 mm	10,500	63,000
1. 3/4"	44,45 mm	12,180	73,080
1. 13/16"	46,04 mm	13,060	78,360
1. 7/8"	47,63 mm	13,980	83,880
2"	50,80 mm	15,910	95,460
2. 1/16"	52,39 mm	16,920	101,520
2. 1/8"	53,98 mm	17,960	107,760
2. 1/4"	57,15 mm	20,140	120,840
2. 5/16"	58,74 mm	21,280	127,680
2. 3/8"	60,33 mm	22,430	134,580
2. 7/16"	61,91 mm	23,630	141,780
2. 1/2"	63,50 mm	24,860	149,160
2.9/16"	65,09 mm	26,110	156,660
2.5/8"	66,68 mm	27,400	164,400
2.3/4"	69,85 mm	30,080	180,480
2.7/8"	73,03 mm	32,870	197,220
3"	76,20 mm	35,790	214,740
3.1/8"	79,38 mm	38,840	233,040
3.1/4"	82,55 mm	42,010	252,060
3.1/2"	88,90 mm	48,730	292,380
3.3/4"	95,25 mm	55,880	335,280
4"	101,60 mm	63,580	381,480
4.1/4"	107,95 mm	71,780	430,680
4.1/2"	114,30 mm	80,470	482,820
4.3/4"	120,65 mm	89,660	537,960
5"	127,00 mm	99,800	598,800
*	130,00 mm	104,170	625,020
5.1/4"	133,35 mm	109,500	657,000
5.1/2"	139,70 mm	120,200	721,200
5.3/4"	146,05 mm	131,400	788,400
6"	152,40 mm	143,100	858,600

## CHAPAS E BOBINAS ZINCADAS / GALVANIZADAS

Bitola MSG	Espessura mm	Peso teórico (Kg/m²)
32	0,30 mm	2,400
30	0,35 mm	2,800
28	0,43 mm	3,440
26	0,50 mm	4,000
24	0,65 mm	5,200
22	0,80 mm	6,400
20	0,95 mm	7,600
19	1,11 mm	8,880
18	1,25 mm	10,000
16	1,55 mm	12,400
14	1,95 mm	15,600
13	2,30 mm	18,400
12	2,70mm	21,600

## PERFIL LAMINADO ABAS PARALELAS W (H) - VIGA W/H

Bitola	mm x kg/m	Peso	kg/m	Altura (d)	Largura (bf)	Altura interna (h)	Espessura da Alma (tw)	Espessura da Aba (tf)
W 150 x 22,50		22,50		152	152	139	5,80	6,60
W 150 x 29,80		29,80		157	153	138	6,60	9,30
W 150 x 37,10		37,10		162	154	139	8,10	11,60
W 200 x 35,90		35,90		201	165	181	6,20	10,20
W 200 x 41,70		41,70		205	166	181	7,20	11,80
W 200 x 46,10		46,10		203	203	181	7,20	11,00
W 200 x 52,00		52,00		206	204	181	7,90	12,60
HP 200 x 53,00		53,00		204	207	181	11,30	11,30
W 200 x 59,00		59,00		210	205	182	9,10	14,20
W 200 x 71,00		71,00		216	206	181	10,20	17,40
W 200 x 86,00		86,00		222	209	181	13,00	20,60
HP 250 x 62,00		62,00		246	256	225	10,50	10,70
W 250 x 73,00		73,00		253	254	225	8,60	14,20
W 250 x 80,00		80,00		256	255	225	9,40	15,60
HP 250 x 85,00		85,00		254	260	225	14,40	14,40
W 250 x 89,00		89,00		260	256	225	10,70	17,30
W 250 x 101,00		101,00		264	257	225	11,90	19,60
W 250 x 115,00		115,00		269	259	225	13,50	22,10
HP 310 x 79,00		79,00		299	306	277	11,00	11,00
HP 310 x 93,00		93,00		303	308	277	13,10	13,10
W 310 x 97,00		97,00		308	305	277	9,90	15,40
W 310 x 107,00		107,00		311	306	277	10,90	17,00
HP 310 x 110,00		110,00		308	310	277	15,40	15,50
W 310 x 117,00		117,00		314	307	277	11,90	18,70
HP 310 x 125,00		125,00		312	312	277	17,40	17,40
W 360 x 91,00		91,00		353	254	288	9,50	16,40
W 360 x 101,00		101,00		357	255	286	10,50	18,30
W 360 x 110,00		110,00		360	256	288	11,40	19,90
W 360 x 122,00		122,00		363	257	288	13,00	21,70

## PERFIL LAMINADO U - VIGA U (ABA INCLINADA)

Bitola	h x b (mm)	Alma	Espessura ALMA	Peso teórico (Kg/m³)
3" x 1.1/2"	76,20 x 35,81	1 <sup>a</sup>	4,32	6,110
3" x 1.1/2"	76,20 x 38,05	2 <sup>a</sup>	6,55	7,440
4" x 1.5/8"	101,60 x 40,23	1 <sup>a</sup>	4,67	7,950
4" x 1.5/8"	101,60 x 41,83	2 <sup>a</sup>	6,27	9,300
6" x 2"	152,40 x 48,80	1 <sup>a</sup>	5,08	12,200
6" x 2"	152,40 x 51,70	2 <sup>a</sup>	7,98	15,600
8" x 2.1/4"	203,20 x 57,15	1 <sup>a</sup>	5,59	17,100
8" x 2.1/4"	203,20 x 57,15	2 <sup>a</sup>	7,70	20,500

## PERFIL LAMINADO I - VIGA I (ABA INCLINADA)

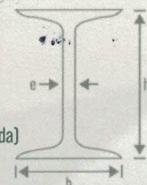
Bitola	h x b (mm)	Alma	Espessura ALMA	Peso teórico (Kg/m³)
3" x 2.3/8"	76,20 x 59,20	1 <sup>a</sup>	4,32	8,480
4" x 2.5/8"	101,60 x 67,60	1 <sup>a</sup>	4,90	11,460
5" x 3"	127,00 x 76,20	1 <sup>a</sup>	5,44	14,880
6" x 3.3/8"	152,40 x 84,60	1 <sup>a</sup>	5,89	18,600

## PERFIL LAMINADO I - VIGA I (ABA INCLINADA)

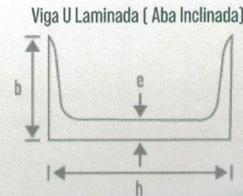
Bitola	h x b (mm)	Alma	Espessura ALMA	Peso teórico (Kg/m³)
3" x 2.3/8"	76,20 x 61,20	2 <sup>a</sup>	6,38	9,68
4" x 2.5/8"	101,60 x 69,20	2 <sup>a</sup>	6,43	12,65
5" x 3"	127,00 x 79,70	2 <sup>a</sup>	8,81	18,20
6" x 3.3/8"	152,40 x 87,50	2 <sup>a</sup>	8,71	22,00

Barras com 6 e 12m

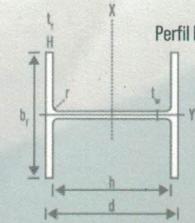
Normas: NBR 7007 MR 250 / ASTM A-36



b = largura do perfil  
e = espessura da alma  
h = altura do perfil



b = largura do perfil  
e = espessura da alma  
h = altura do perfil



h = altura do perfil  
h = altura interna  
b = largura da aba do perfil  
t\_f = espessura da aba  
t\_w = espessura da alma  
r = raio de concordância

# PANTANAL SOLUÇÕES EM FERRO E AÇO LTDA.

## SERVIÇOS ESPECIAIS

### CORTE E DOBRA

Cortamos e dobramos sob medida, evitando sobras de material e garantindo, assim, perda zero ao nosso cliente.

Dobramos até 6 metros de comprimento, sem emenda, prezando pela qualidade do produto acabado, oferecendo maior resistência. Com uma equipe capacitada e experiente e com um know-how criado ao longo dos anos, estamos prontos para atender você.

### CORTE CNC E PLASMA

Um sistema de corte plasma CNC (Controle Numérico por Computador) utiliza gases que tenham sido superaquecidos em plasma para cortar materiais. Estes sistemas são compostos de uma ferramenta de corte plasma, de alguma forma de manipulador para a ferramenta, uma mesa de base e um software de computador que controle o equipamento de corte.

Eles são utilizados tanto na fabricação de pequena e grande escala de peças e materiais, tais como chapa de metal, que envolvem duas dimensões de corte.

Possuímos um grande mix de chapas grossas e finas para cortes especiais, prontas para atender você.

### CALANDRAGEM DE CHAPAS E TUBOS

A calandragem de chapas é feita pela passagem da chapa por uma máquina que contém diversos cilindros, cuja função é aplicar a curvatura na chapa.

Geralmente são peças usadas no setor agrícola, industrial (para tubulações) ou até em reforma ou alongamento de carrocerias de caminhão, seguindo sempre as mesmas medidas, sejam elas internas ou externas.



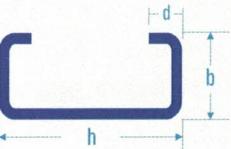
**PANTANAL**  
SOLUÇÕES EM FERRO E AÇO



## PERFIL "U" ( VIGA U )

Dimensão	h x b (mm)	Espessura (mm) x Peso Teórico									
		2,00 mm		2,25 mm		2,65 mm		3,00 mm		4,75 mm	
		kg/m	kg/ 6m	kg/m	kg/ 6m	kg/m	kg/ 6m	kg/m	kg/ 6m	kg/m	kg/ 6m
50 mm x 25 mm	1,380	8,280	1,620	9,720	1,860	11,160	2,100	12,600	-	-	-
75 mm x 40 mm	2,200	13,200	2,610	15,660	3,010	18,060	3,410	20,460	5,090	30,540	
100 mm x 40 mm	2,570	15,420	3,060	18,360	3,540	21,240	4,010	24,060	6,020	36,120	
100 mm x 50 mm	2,870	17,220	3,410	20,460	3,950	23,700	4,480	26,880	6,770	40,620	
127 mm x 50 mm	3,270	19,620	3,900	23,400	4,520	27,120	5,130	30,780	7,780	46,680	
150 mm x 50 mm	3,610	21,660	4,310	25,860	5,000	30,000	5,680	34,080	8,640	51,840	
200 mm x 50 mm	4,360	26,160	5,200	31,200	6,040	36,240	6,870	41,220	10,510	63,060	

Obs.: Fabricamos todas as medidas e chapas de acordo com a necessidade de cada cliente.



## PERFIL "U" ENRIJECIDO ( VIGA G )

Dimensão	h x b x d (mm)	Espessura (mm) x Peso Teórico									
		2,00 mm		2,25 mm		2,65 mm		3,00 mm		4,75 mm	
		kg/m	kg/ 6m	kg/m	kg/ 6m	kg/m	kg/ 6m	kg/m	kg/ 6m	kg/m	kg/ 6m
50 mm x 25 mm x 10mm	1,570	9,420	1,830	10,980	2,070	12,420	2,300	13,800	-	-	-
75 mm x 40 mm x 15 mm	2,540	15,240	2,990	17,940	3,430	20,580	3,850	23,100	-	-	-
100 mm x 40 mm x 15 mm	3,050	18,300	3,383	20,300	3,950	23,700	4,467	26,800	-	-	-
100 mm x 50 mm x 17 mm	3,270	19,620	3,870	23,220	4,450	26,700	5,020	30,120	-	-	-
127 mm x 50 mm x 20 mm	3,670	22,020	4,350	26,100	5,010	30,060	5,660	33,960	-	-	-
150 mm x 50 mm x 20 mm	4,400	26,400	5,230	31,380	6,040	36,240	6,830	40,980	-	-	-
200 mm x 50 mm x 20 mm	5,600	33,600	6,660	39,960	7,920	47,520	8,980	53,880	-	-	-

Obs.: Fabricamos todas as medidas e chapas de acordo com a necessidade de cada cliente.

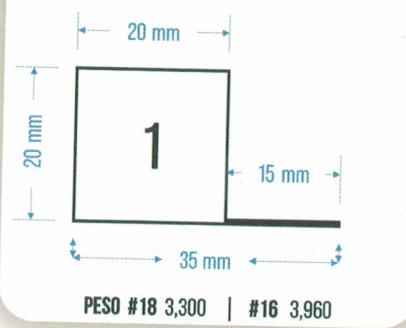


## PERFIL "U" ( VIGA U ) - ENCAIXE

Dimensão	h x b (mm)	Espessura (mm) x Peso Teórico									
		2,00 mm		2,25 mm		2,65 mm		3,00 mm		4,75 mm	
		kg/m	kg/ 6m	kg/m	kg/ 6m	kg/m	kg/ 6m	kg/m	kg/ 6m	kg/m	kg/ 6m
68 mm x 40 mm	2,220	13,320	2,490	14,940	2,910	17,460	3,270	19,620	5,020	30,120	
93 mm x 40 mm	2,610	13,200	2,930	15,660	3,430	18,060	3,860	20,460	5,990	30,540	
94 mm x 40 mm	2,630	15,780	2,950	17,700	3,450	20,700	4,320	25,920	5,990	35,940	

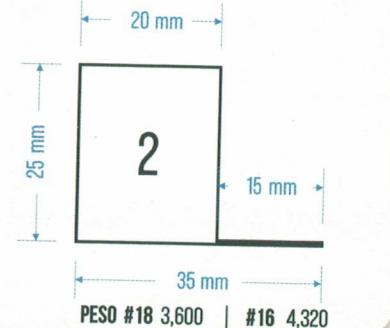
Obs.: Fabricamos todas as medidas e chapas de acordo com a necessidade de cada cliente.

CADEIRINHA 20X20



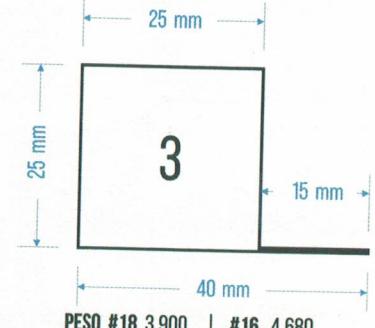
PESO #18 3,300 | #16 3,960

CADEIRINHA 25X20



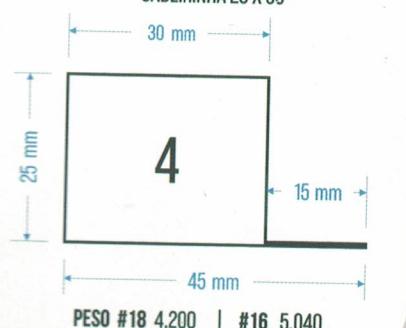
PESO #18 3,600 | #16 4,320

CADEIRINHA 25X25



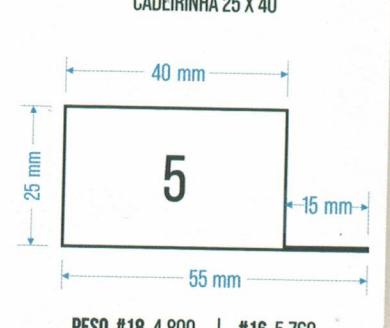
PESO #18 3,900 | #16 4,680

CADEIRINHA 25 X 30



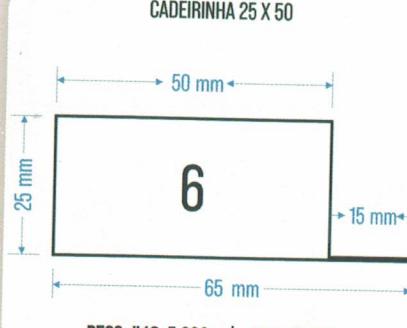
PESO #18 4,200 | #16 5,040

CADEIRINHA 25 X 40



PESO #18 4,800 | #16 5,760

CADEIRINHA 25 X 50



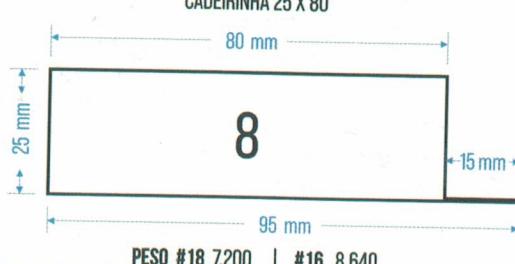
PESO #18 5,200 | #16 6,500

CADEIRINHA 25 X 65



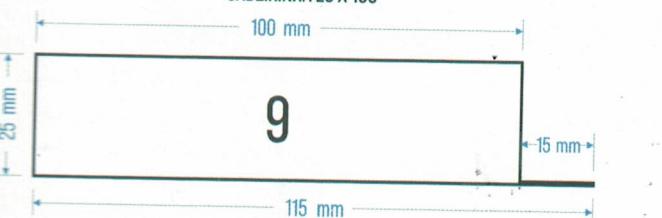
PESO #18 6,300 | #16 7,560

CADEIRINHA 25 X 80



PESO #18 7,200 | #16 8,640

CADEIRINHA 25 X 100



PESO #18 8,400 | #16 10,080

ALMOFADA 25 X 150



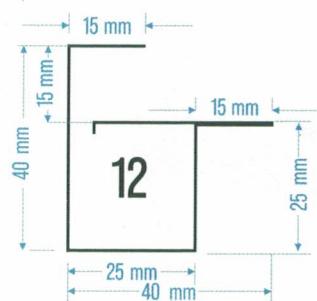
PESO #18 11,400 | #16 13,680

ALMOFADA 25 X 200



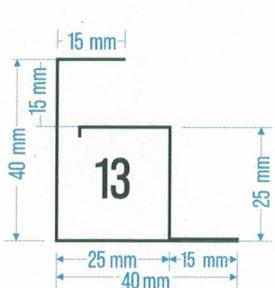
PESO #18 14,400 | #16 17,280

CADEIRINHA COM TRAVA 25 X 25



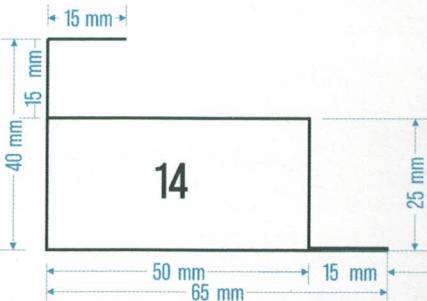
PESO #18 4,800 | #16 5,760

CADEIRINHA COM TRAVA 25 X 25



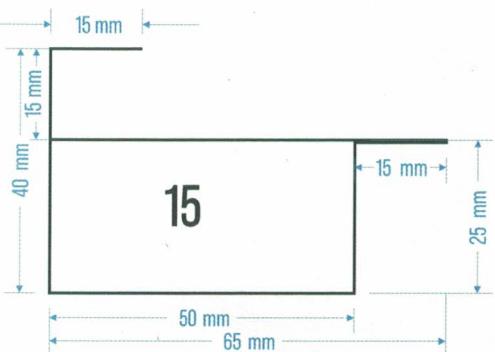
PESO #18 4,800 | #16 5,760

CADEIRINHA COM TRAVA 50 X 25



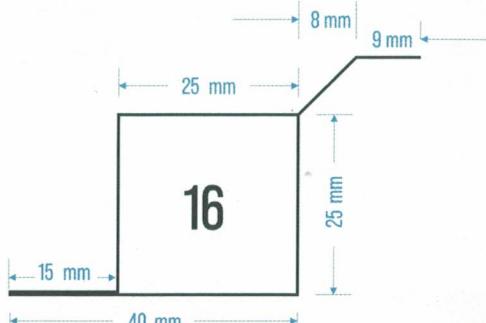
PESO #18 6,300 | #16 7,560

CADEIRINHA COM TRAVA 50 X 25



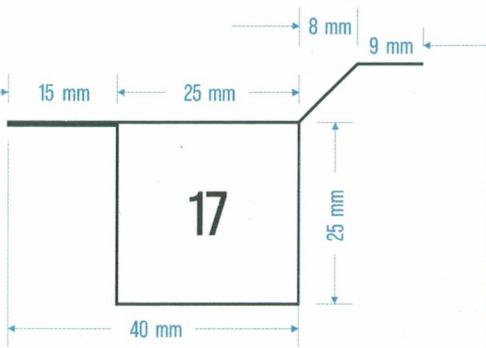
PESO #18 6,300 | #16 7,560

CADEIRINHA COM ACABAMENTO 25 X 25



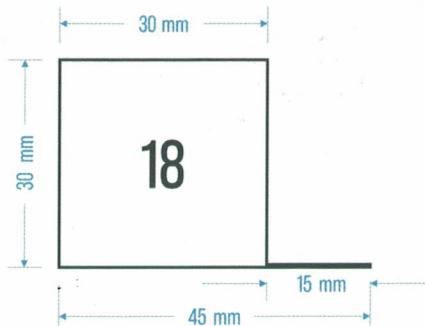
PESO #18 4,410 | #16 5,290

CADEIRINHA COM ACABAMENTO 25 X 25



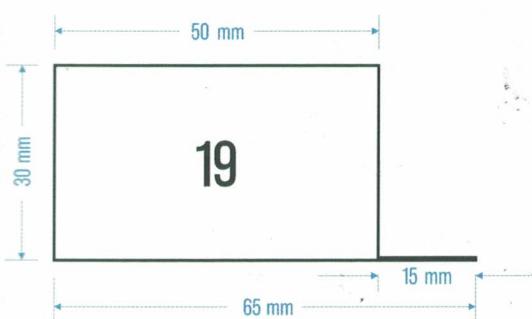
PESO #18 4,410 | #16 3,960

CADEIRINHA 30 X 30



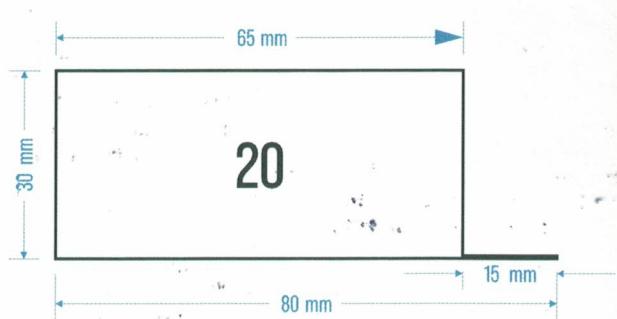
PESO #18 4,500 | #16 5,400

CADEIRINHA 50 X 30



PESO #18 5,700 | #16 6,840

CADEIRINHA 65 X 30



PESO #18 6,600 | #16 7,920

ALMOFADA 30 X 150



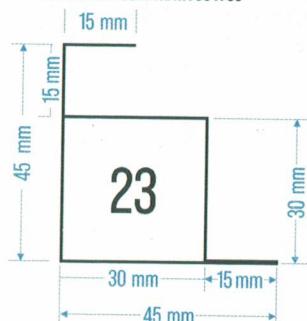
PESO #18 11,700 | #16 14,040

ALMOFADA 30 X 200



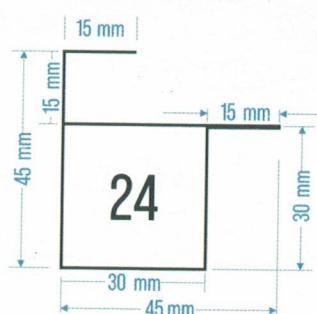
PESO #18 15,150 | #16 18,180

CADEIRINHA COM TRAVA 30 X 30



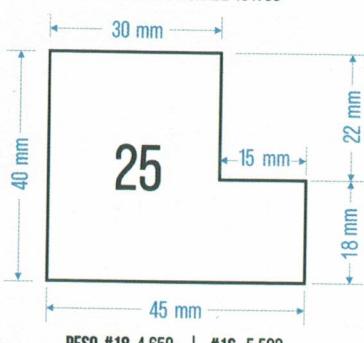
PESO #18 5,400 | #16 6,480

CADEIRINHA COM TRAVA 30 X 30



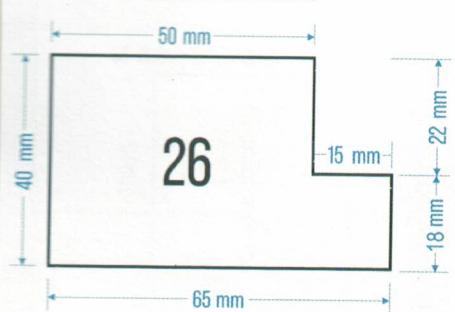
PESO #18 5,400 | #16 6,480

CADEIRINHA COM GRADE 40 X 30



PESO #18 4,650 | #16 5,580

CADEIRINHA COM TRAVA 50 X 40



PESO #18 5,850 | #16 7,020

CADEIRINHA COM TRAVA 80 X 40



PESO #18 7,650 | #16 9,180

ALMOFADA COM GRADE 150 X 40



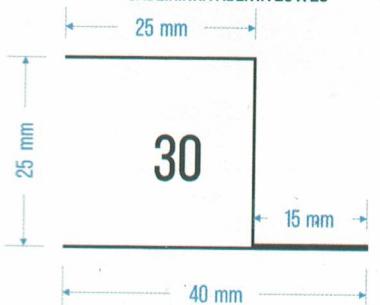
PESO #18 11,250 | #16 14,220

ALMOFADA COM GRADE 200 X 40



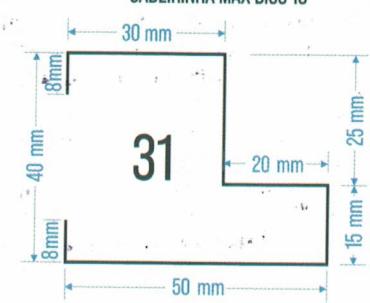
PESO #18 14,850 | #16 17,820

CADEIRINHA ABERTA 25 X 25



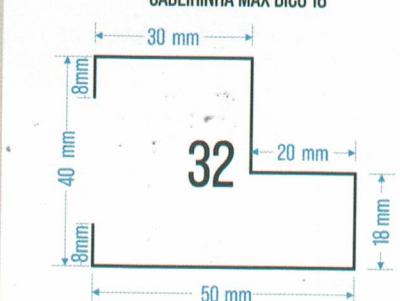
PESO #18 3,150 | #16 3,780

CADEIRINHA MAX BICO 15



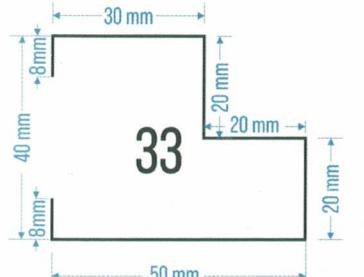
PESO #18 4,680 | #16 5,610

CADEIRINHA MAX BICO 18



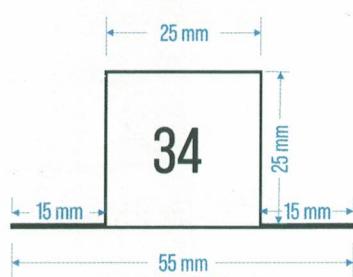
PESO #18 4,680 | #16 5,610

CADEIRINHA MAX BICO 20



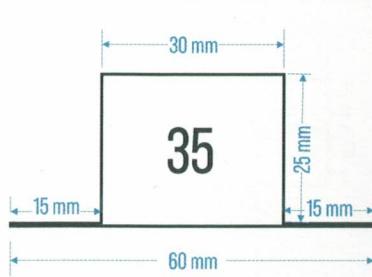
PESO #18 4,200 | #16 5,040

PERFIL TEE 25 X 25



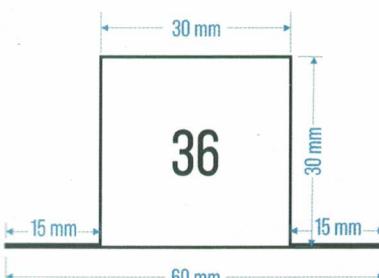
PESO #18 4,800 | #16 5,760

PERFIL TEE 30 X 25



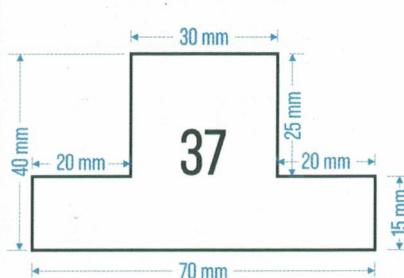
PESO #18 5,100 | #16 6,120

PERFIL TEE 30 X 30



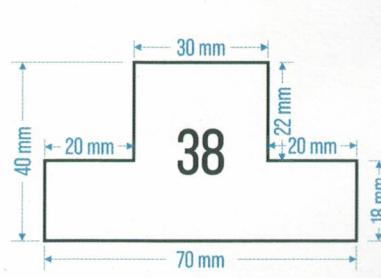
PESO #18 5,400 | #16 6,480

PERFIL TEE MAX BICO 15



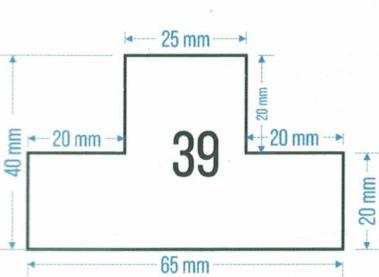
PESO #18 4,200 | #16 5,040

PERFIL MAX BICO 18



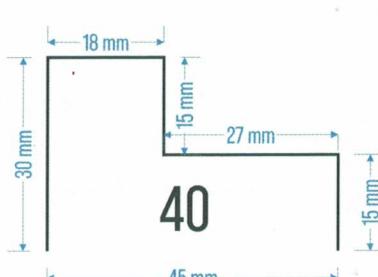
PESO #18 7,200 | #16 8,640

PERFIL MAX BICO 20



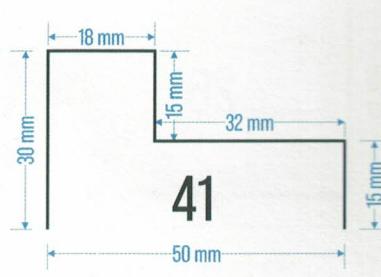
PESO #18 6,300 | #16 7,600

BATENTE PARA CAD. 25



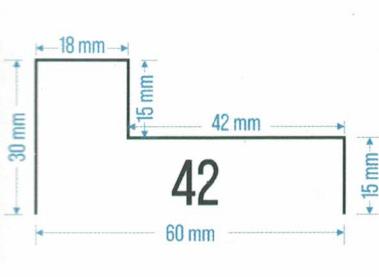
PESO #18 3,100 | #16 3,720

BATENTE PARA CAD. 30



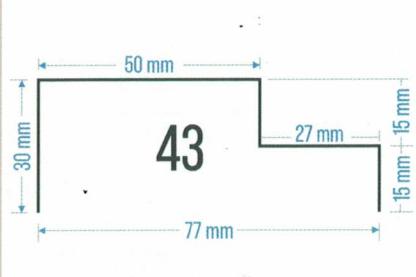
PESO #18 3,300 | #16 3,960

BATENTE PARA CAD. 40



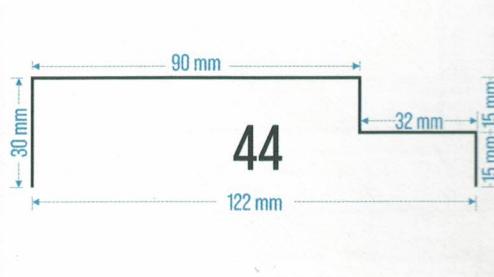
PESO #18 3,400 | #16 4,080

PERFIL MAX BICO 20



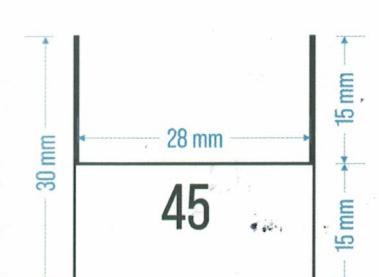
PESO #18 3,400 | #16 4,080

BATENTE PARA CAD. 40



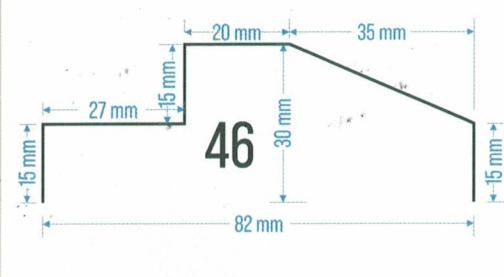
PESO #18 3,400 | #16 4,080

BATENTE PARA CAD. 40



PESO #18 3,400 | #16 4,080

BATENTE LARGO PARA CAD. 25



PESO #18 3,400 | #16 4,080

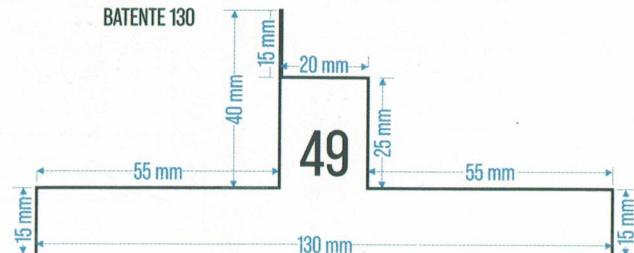
BATENTE LARGO PARA CAD. 25



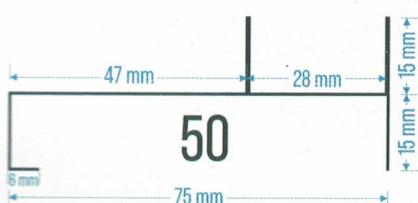
PESO #18 3,400 | #16 4,080

**BATENTE VENEZIANA**

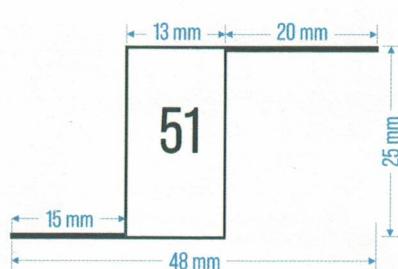
PESO #18 11,700 | #16 14,040

**BATENTE 130**

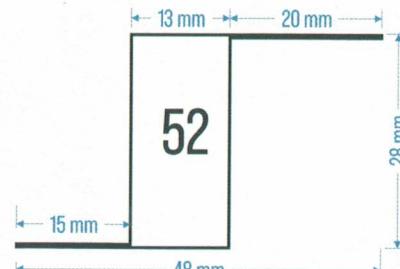
PESO #18 15,150 | #16 18,180

**BATENTE 75**

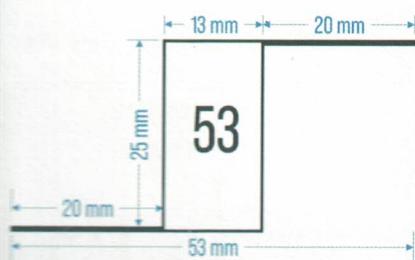
PESO #18 3,400 | #16 4,080

**PERFIL Z MAX 25 X 13 ABA 15 X 20**

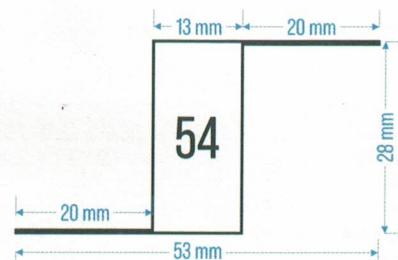
PESO #18 4,400 | #16 5,280

**PERFIL Z MAX 28 X 13 ABA 15 X 20**

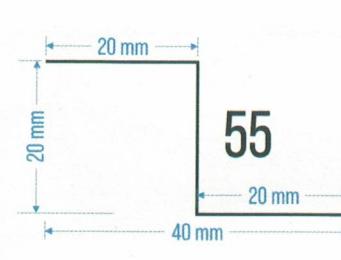
PESO #18 4,560 | #16 5,480

**PERFIL Z MAX 25 X 13 ABA 20**

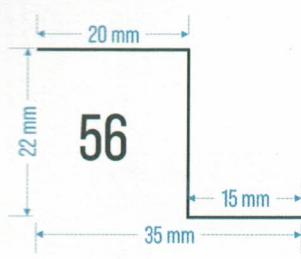
PESO #18 4,700 | #16 5,640

**PERFIL Z MAX 28 X 13 ABA 20**

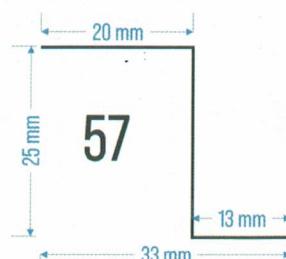
PESO #18 4,900 | #16 5,880

**PERFIL Z SIMPLES 20 X 20**

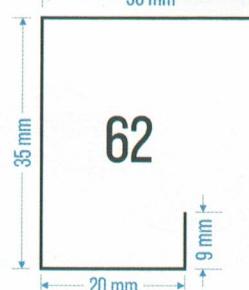
PESO #18 1,800 | #16 2,200

**PERFIL Z SIMPLES 20 X 22 X 15**

PESO #18 1,800 | #16 2,160

**PERFIL Z SIMPLES 20 X 25 X 13**

PESO #18 1,800 | #16 2,160

**TRILHO G 35 X 30 X 20**

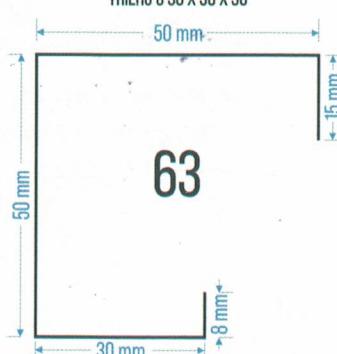
PESO #18 2,800 | #16 3,360

**TRAVA 15 X 25**

PESO #18 1,200 | #16 1,440

**TRAVA 10 X 40**

PESO #18 1,500 | #16 1,800

**TRILHO G 50 X 50 X 30**

PESO #18 4,600 | #16 5,520

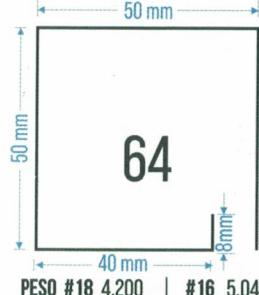
**TRAVA 10 X 55**

PESO #18 1,950 | #16 2,340

**TAMPA DO TRILHO G**

PESO #18 1,950 | #16 2,160

TRILHO G 50 X 50 COM TAMPA



PESO #18 4,200 | #16 5,040

TRILHO SIMPLES VITRAUX



65

PESO #18 3,400 | #16 4,080

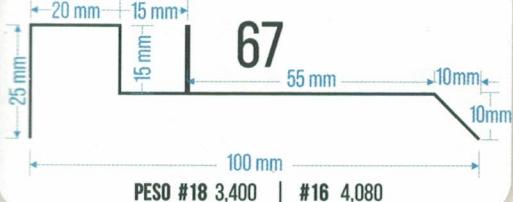
PERFIL TEE 30 X 30



66

PESO #18 5,400 | #16 6,480

TRILHO VITRAUX 100



PESO #18 3,400 | #16 4,080

67

TRILHO VITRAUX 140



PESO #18 3,400 | #16 4,080

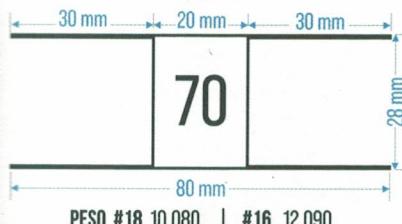
TRILHO M 45



69

PESO #18 3,400 | #16 4,080

TRILHO CENTRAL



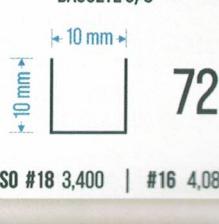
PESO #18 10,080 | #16 12,090

TRILHO M 80



PESO #18 2,100 | #16 2,520

BAGUETE 3/8



72

PESO #18 3,400 | #16 4,080

TRILHO U 15 X 29



74

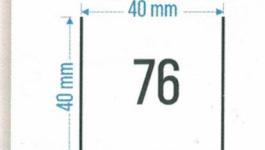
PESO #18 1,770 | #16 2,120

TRILHO U 28 X 28



PESO #18 2,520 | #16 3,020

TRILHO U 40 X 40



PESO #18 3,600 | #16 4,320

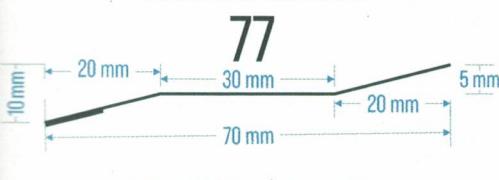
BAGUETE 1/2



73

PESO #18 1,120 | #16 1,340

PALHETA VENTILADA AMASSADA



PESO #18 2,100 | #16 2,520

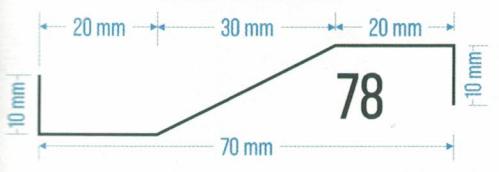
COLUNA 30 X 30



80

PESO #18 3,600 | #16 4,320

PALHETA FECHADA 10 X 10



PESO #18 2,700 | #16 3,240

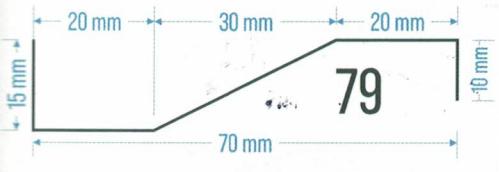
COLUNA 40 X 40



82

PESO #18 4,800 | #16 5,760

PALHETA FECHADA 15 X 10



PESO #18 2,850 | #16 3,420

COLUNA 50 X 50



83

PESO #18 6,000 | #16 7,200

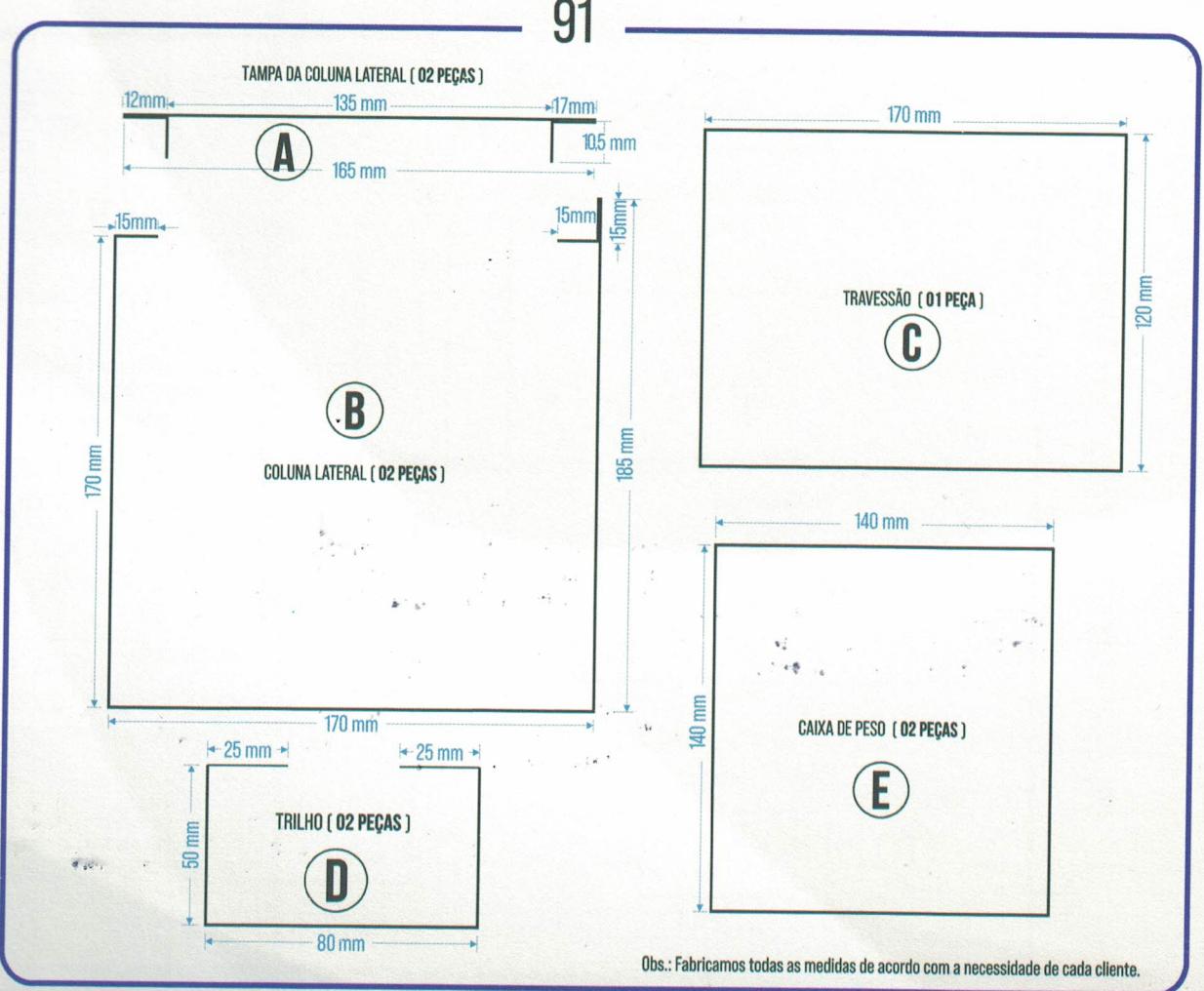
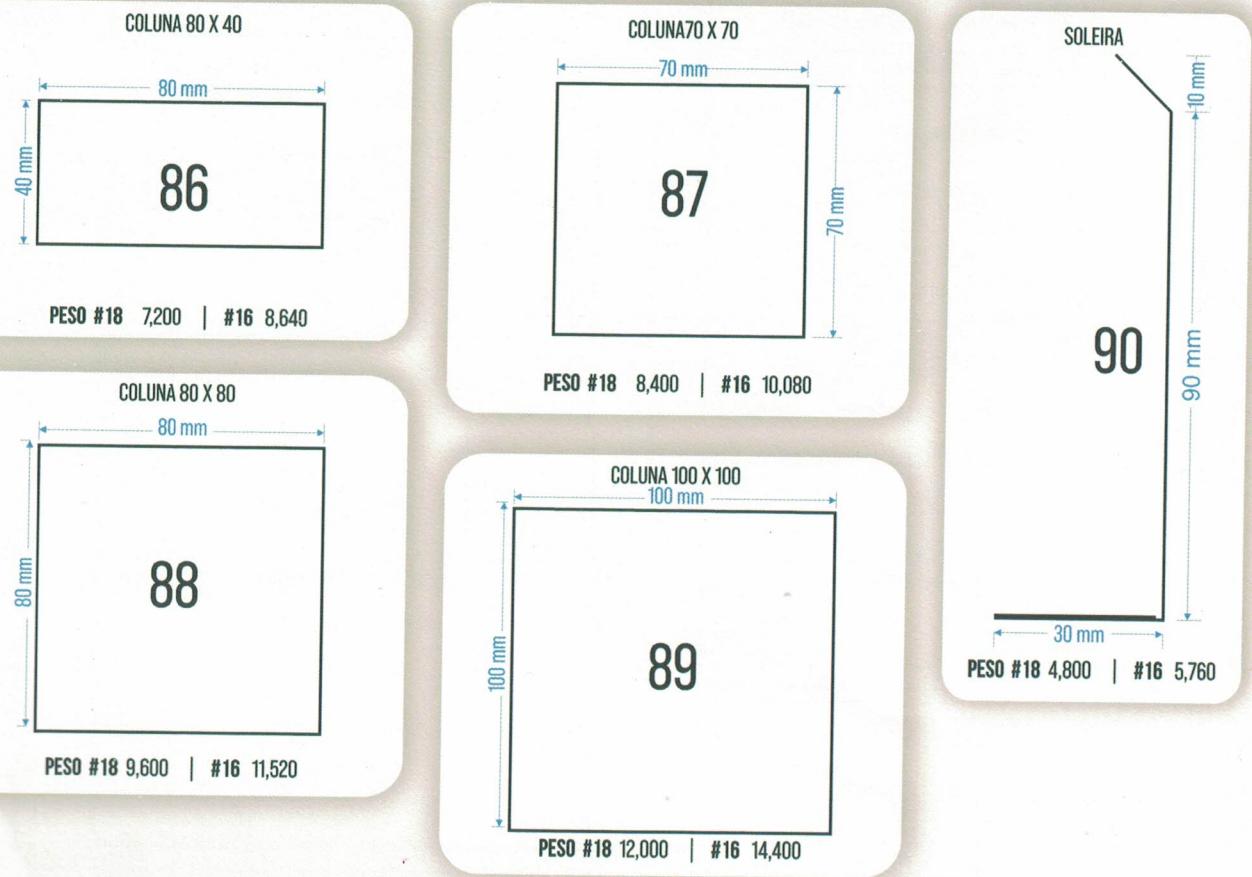
COLUNA 60 X 60



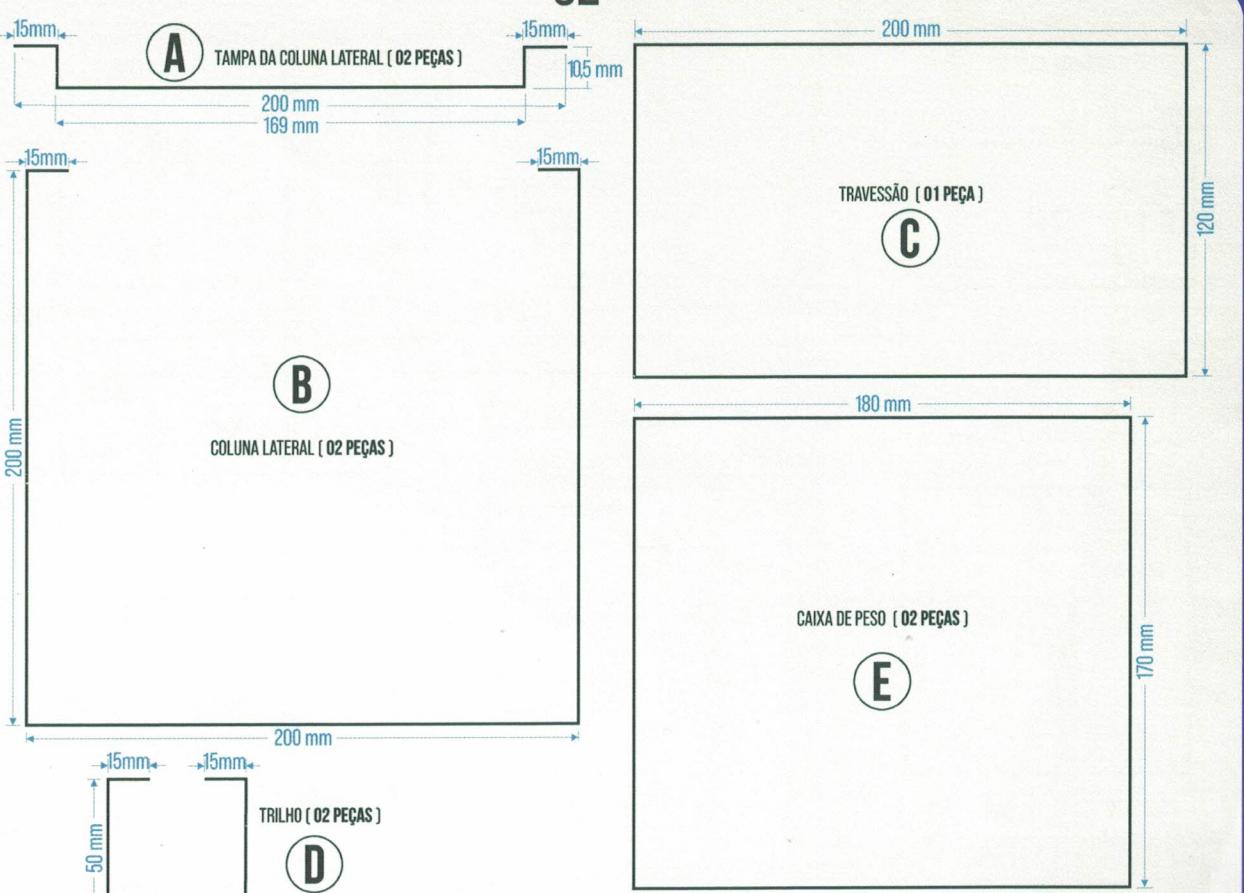
85

PESO #18 7,200 | #16 8,640

## KIT PARA PORTÃO BASCULANTE / ELETRÔNICO

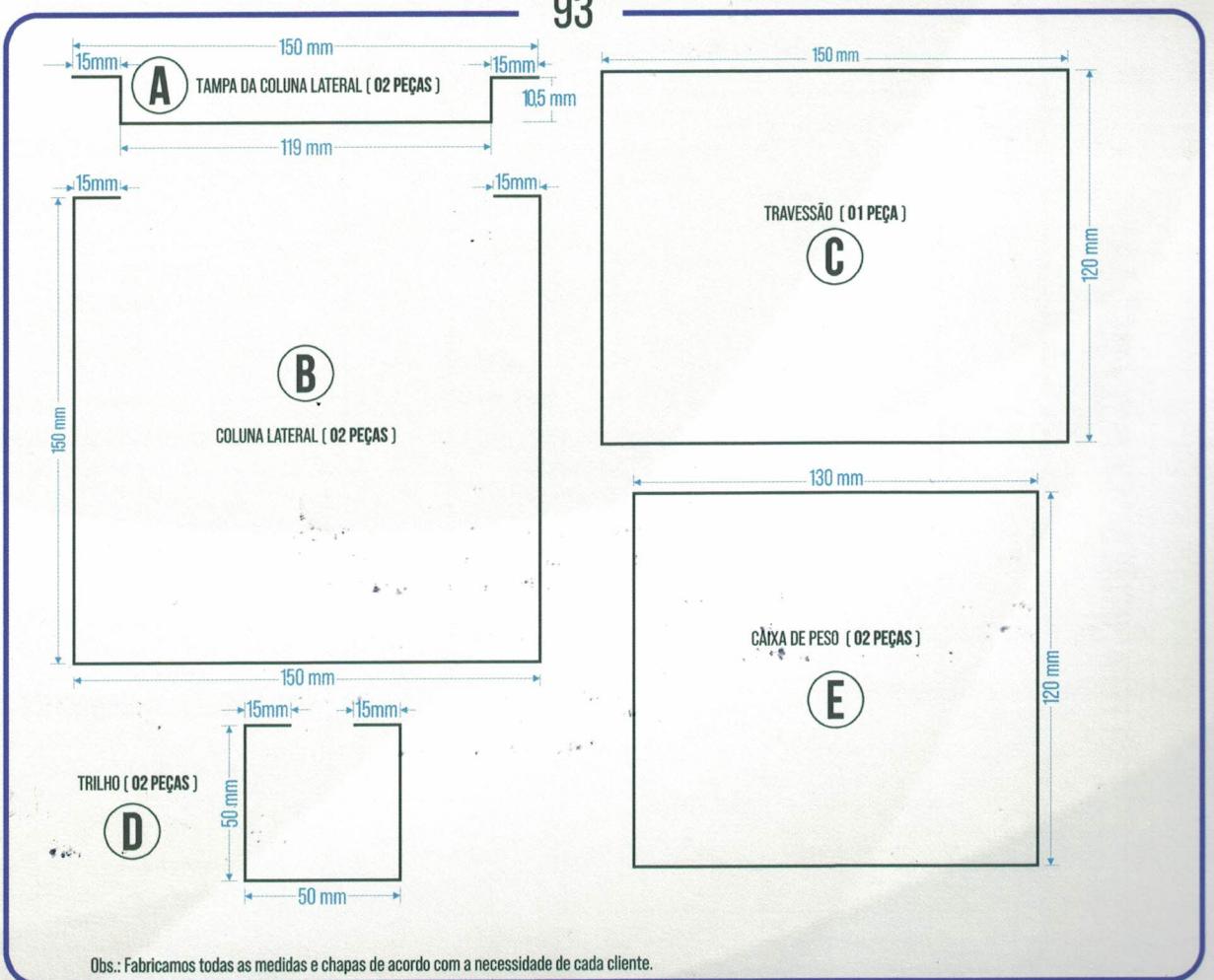


## **CONJUNTO PARA PORTÃO BASCULANTE 200 X 200**



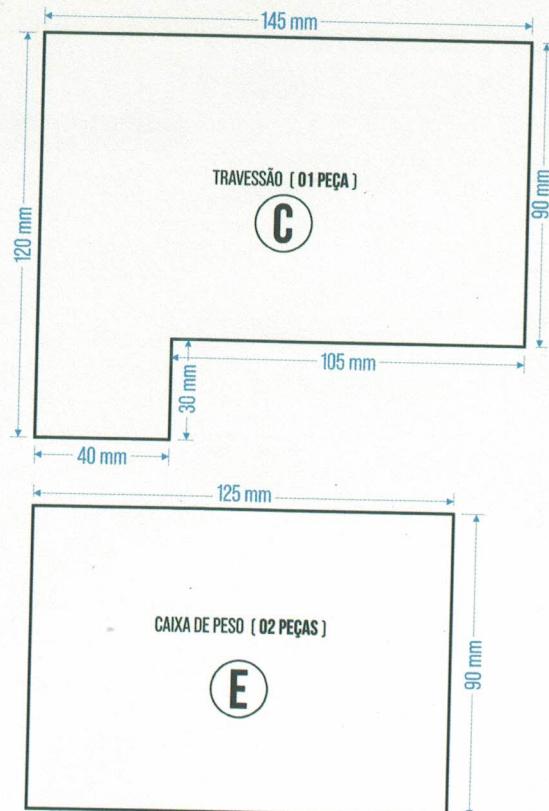
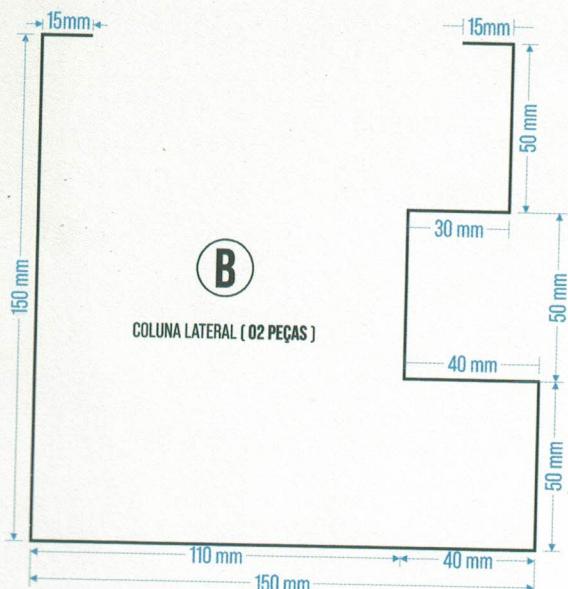
**Obs.: Fabricamos todas as medidas e chapas de acordo com a necessidade de cada cliente.**

## **CONJUNTO PARA PORTÃO BASCULANTE 150 X 150**



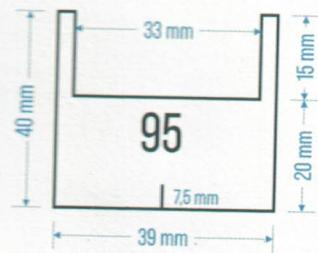
## CONJUNTO PARA PORTÃO BASCULANTE 150 X 150 COM TRILHO EMBUTIDO

94



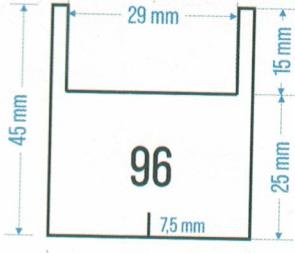
Obs.: Fabricamos todas as medidas e chapas de acordo com a necessidade de cada cliente.

### BATENTE PARA PORTA DE CORRER EM METALON



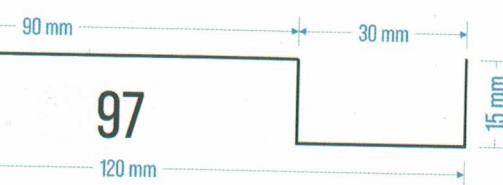
PESO #18 4,950 | #16 6,190

### BATENTE PARA PORTA DE CORRER EM CADEIRINHA

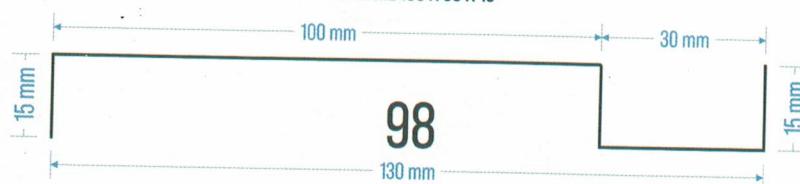


PESO #18 4,690 | #16 5,830

### LAMBRIL 90 X 30 X 15



### LAMBRIL 100 X 30 X 15



### PAINEL LAMBRIL



### PAINEL REDONDO



Obs.: Fabricamos todas as medidas e chapas de acordo com a necessidade de cada cliente.

## PANTANAL SOLUÇÕES EM FERRO E AÇO LTDA.



pantanalsolucoes



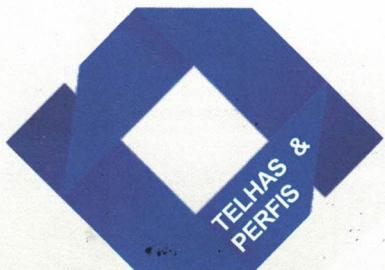
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SOLUÇÕES EM FERRO E AÇO



# PANTANAL

SOLUÇÕES EM FERRO E AÇO



KAIROS

CONVITES & CORTE LASER

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