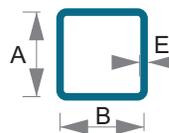


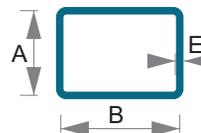
**Tubos - Laminados - Perfis Estruturais  
Chapas Galvanizadas e Pré-Pintadas  
Acessórios para serralheria e Funilaria**

# Tubos Quadrados



Bitolas ( ø )		NBR 6591 / DIN 2394															
( ø ) de partida	AxB mm	ESPESSURAS (mm) - peso kg / Barra c/ 6 mts															
		0,80	0,90	0,95	1,05	1,11	1,20	1,25	1,50	1,55	1,90	1,95	2,00	2,25	2,65	2,70	3,00
19,05	15x15	2,16	2,42	2,54	2,82	2,95	3,17	3,29	3,89	4,01	4,82	4,93	5,05	5,59	-	-	-
25,40	20x20	2,91	3,26	3,44	3,82	3,99	4,30	4,46	5,30	5,47	6,61	6,77	6,92	7,71	8,92	9,07	9,94
31,75	25x25	3,67	4,11	4,33	4,81	5,03	5,42	5,64	6,71	6,92	8,39	8,60	8,80	9,82	11,41	11,60	12,76
38,10	30x30	4,42	4,96	5,22	5,81	6,08	6,55	6,82	8,12	8,38	10,18	10,43	10,69	11,93	13,90	14,14	15,58
44,45	35x35	5,17	5,80	6,11	6,80	7,12	7,68	7,99	9,53	9,84	11,96	12,26	12,56	14,05	16,39	16,68	18,40
50,80	40x40	5,92	6,65	7,01	7,80	8,16	8,81	9,16	10,94	11,30	13,75	14,09	14,44	16,16	18,88	19,22	21,22
63,50	50x50	7,42	8,33	8,79	9,79	10,25	11,06	11,51	13,76	14,21	17,32	17,76	18,20	20,39	23,86	24,29	26,86
76,20	60x60	8,93	10,03	10,58	11,78	12,34	13,32	13,86	16,58	17,12	20,89	21,43	21,96	24,62	28,84	29,36	32,50
88,90	70x70	-	-	-	-	-	-	-	19,40	20,03	24,46	25,06	25,72	28,85	33,82	34,44	38,13
101,60	80x80	-	-	-	-	-	17,83	18,56	22,22	22,94	28,03	28,75	29,48	33,08	38,80	39,51	43,77
114,30	90x90	-	-	-	-	-	20,08	20,91	25,04	25,86	31,60	32,42	33,23	37,30	43,78	44,59	49,40
127,00	100x100	-	-	-	-	-	22,34	23,26	27,86	28,77	35,17	36,08	36,99	41,53	48,76	49,66	55,04

# Tubos Retangulares



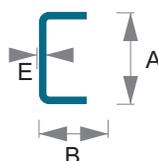
Bitolas ( ø )		NBR 6591 / DIN 2394															
( ø ) de partida	AxB mm	ESPESSURAS (mm) - peso kg / Barra c/ 6 mts															
		0,80	0,90	0,95	1,05	1,11	1,20	1,25	1,50	1,55	1,90	1,95	2,00	2,25	2,65	2,70	3,00
31,75	20x30	3,67	4,11	4,33	4,81	5,03	5,42	5,64	6,72	6,93	8,39	8,60	8,80	9,82	11,41	11,60	12,76
38,10	20x40	4,42	4,96	5,22	5,81	6,08	6,55	6,82	8,12	8,38	10,18	10,43	10,69	11,93	13,90	14,14	15,58
44,45	20x50	5,17	5,80	6,11	8,04	7,12	7,68	7,99	9,53	9,84	11,96	12,26	12,56	14,05	16,39	16,68	18,40
44,45	30x40	5,17	5,80	6,11	8,04	7,12	7,68	7,99	9,53	9,84	11,96	12,26	12,56	14,05	16,39	16,68	18,40
50,80	30x50	5,92	6,65	7,01	7,80	8,16	8,81	9,16	10,94	11,30	13,75	14,09	14,44	16,16	18,88	19,22	21,22
63,50	30x70	7,42	8,33	8,79	9,79	10,25	11,06	11,51	13,76	14,21	17,32	17,76	18,20	20,39	23,86	24,29	26,86
63,50	40x60	7,42	8,33	8,79	9,79	10,25	11,06	11,51	13,76	14,21	17,32	17,76	18,20	20,39	23,86	24,29	26,86
76,20	40x80	8,93	10,03	10,58	11,78	12,34	13,32	13,86	16,58	17,12	20,89	21,43	21,96	24,62	28,84	29,36	32,50
88,90	40x100	-	-	-	-	-	-	-	19,40	20,03	24,46	25,06	25,72	28,85	33,82	34,44	38,13
95,25	50x100	-	-	-	-	-	16,70	17,39	20,81	21,49	26,24	26,92	27,59	30,96	36,31	36,98	40,95

# Tubos Redondos



Bitolas ( $\phi$ )		NBR 6591 / DIN 2394															
( $\phi$ ) de partida	mm	ESPESSURAS (mm) - peso kg / Barra c/ 6 mts															
		0,80	0,90	0,95	1,05	1,11	1,20	1,25	1,50	1,55	1,90	1,95	2,00	2,25	2,65	2,70	3,00
1/2"	12,70	1,41	1,57	1,65	1,82	1,90	2,04	2,12	2,48	2,56	3,04	3,10	3,17	3,48	-	-	-
5/8"	15,88	1,79	1,99	2,10	2,32	2,42	2,60	2,71	3,19	3,29	3,93	4,02	4,11	4,54	-	-	-
3/4"	19,05	2,16	2,42	2,54	2,82	2,95	3,17	3,29	3,89	4,01	4,82	4,93	5,05	5,59	-	-	-
7/8"	22,23	2,54	2,84	2,99	3,32	3,47	3,73	3,88	4,60	4,74	5,72	5,85	5,99	6,65	7,68	7,80	8,54
1"	25,40	2,91	3,26	3,44	3,82	3,99	4,30	4,46	5,30	5,47	6,61	6,77	6,92	7,71	8,92	9,07	9,94
1.1/4"	31,75	3,67	4,11	4,33	4,81	5,03	5,42	5,64	6,71	6,92	8,39	8,60	8,80	9,82	11,41	11,60	12,76
1.1/2"	38,10	4,42	4,96	5,22	5,81	6,08	6,55	6,82	8,12	8,38	10,18	10,43	10,69	11,93	13,90	14,14	15,58
2"	50,80	5,92	6,65	7,01	7,80	8,16	8,81	9,16	10,94	11,30	13,75	14,09	14,44	16,16	18,88	19,22	21,22
2.1/2"	63,50	7,42	8,33	8,79	9,79	10,25	11,06	11,51	13,76	14,21	17,32	17,76	18,20	20,39	23,86	24,29	26,86
3"	76,20	8,93	10,03	10,58	11,78	12,34	13,32	13,86	16,58	17,12	20,89	21,43	21,96	24,62	28,84	29,36	32,50
4"	101,60	-	-	-	-	-	-	-	-	-	-	-	-	29,48	-	-	43,77
5"	127,00	-	-	-	-	-	-	-	-	-	-	-	-	37,98	-	-	55,04
6"	152,40	-	-	-	-	-	-	-	-	-	-	-	-	44,52	-	-	66,32

# Perfis Estruturais



A	B	E	Peso
mm	mm	mm	(kg/6m)
50,00	25,00	2,00	8,96
50,00	25,00	2,25	10,01
50,00	25,00	2,65	11,55
50,00	25,00	3,00	12,98
68,00	30,00	2,00	11,62
68,00	30,00	2,25	12,98
68,00	30,00	2,65	15,01
75,00	38,00	2,00	13,20
75,00	38,00	2,25	16,48
75,00	38,00	2,65	19,41
75,00	38,00	3,00	21,17
93,00	30,00	2,00	14,09
93,00	30,00	2,25	15,70
93,00	30,00	2,65	19,65
93,00	40,00	2,00	16,00

A	B	E	Peso
mm	mm	mm	(kg/6m)
93,00	40,00	2,25	18,91
93,00	40,00	2,65	20,83
100,00	40,00	2,00	17,46
100,00	40,00	2,25	18,91
100,00	40,00	2,65	22,41
100,00	40,00	3,00	25,45
100,00	50,00	2,65	24,97
100,00	50,00	3,00	28,41
125,00	50,00	2,65	28,34
125,00	50,00	3,00	35,60
150,00	50,00	2,65	31,56
150,00	50,00	3,00	35,96

# Perfis Laminados

## Cantoneira Abas Iguais



Espessura (polegadas)	Espessuras (mm) - peso kg / 6 mts											
	5/8"	3/4"	7/8"	1"	1.1/4"	1.1/2"	1.3/4"	2"	2.1/2"	3"	4"	
Linha Serralheiro	3,42	4,26										
1/8"	4,26	5,22	6,18	7,14	9,18	11,10	13,08	14,76	-	-	-	
3/16"	-	-	-	10,32	13,20	16,20	19,14	21,96	27,84	33,54	-	
1/4"	-	-	-	13,32	17,16	20,88	24,72	28,44	36,60	43,74	58,86	

## Redondo



Bitola (polegadas)	Peso kg 6 mts
1/4"	1,50
5/16"	2,34
3/8"	3,36
1/2"	5,94
5/8"	9,36
3/4"	13,44
1"	23,88

## Ferro Chato



Espessura (polegadas)	Espessuras (mm) - peso kg / 6 mts											
	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	
1/8"	1,44	1,92	2,40	2,88	3,36	3,78	4,32	5,22	7,62	-	-	
1/8"	-	2,88	3,54	4,26	4,98	5,70	7,14	8,52	11,40	-	-	
3/16"	-	3,54	4,44	5,70	6,66	7,62	9,48	11,40	15,18	19,02	22,80	

## Ferro Tee



Espessura (polegadas)	Espessuras (mm) - peso kg / 6 mts			
	3/4"	7/8"	1"	1.1/4"
Linha Serralheiro	4,14			
1/8"	5,16	5,94	7,08	9,00

## Quadrado



Bitola (polegadas)	Peso kg 6 mts
3/8"	4,26
1/2"	7,62

## Tabela de conversão Polegada x Milímetro

Polegada	Milímetro	Polegada	Milímetro
1/8"	3,175	1.1/4"	31,75
3/16"	4,763	1.1/2"	38,10
5/16"	6,35	1.3/4"	44,45
1/4"	7,938	2"	50,80
3/8"	9,525	2.1/2"	63,50
1/2"	12,70	3"	76,20
5/8"	15,875	3.1/2"	88,90
3/4"	19,05	4"	101,60
7/8"	22,225	5"	127
1"	25,40	6"	152,40

# Perfis Leves

### Perfil 006



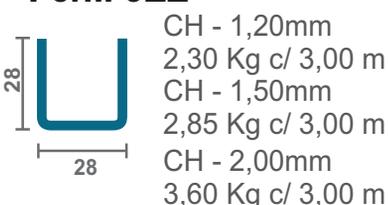
### Perfil 007



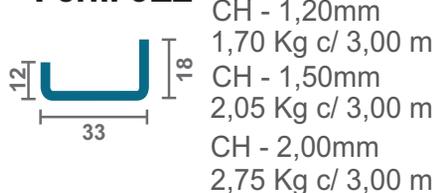
### Perfil 009



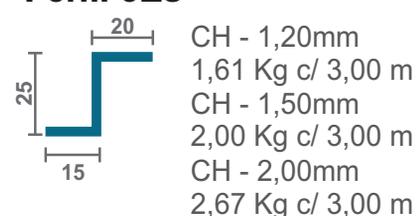
### Perfil 011



### Perfil 012

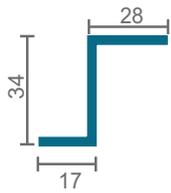


### Perfil 013



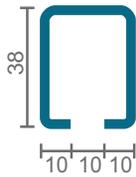
# Perfis Leves

**Perfil 014**



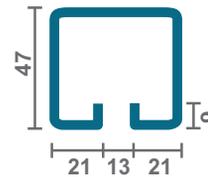
CH - 1,20mm  
2,17 Kg c/ 3,00 m  
CH - 1,50mm  
2,67 Kg c/ 3,00 m  
CH - 2,00mm  
3,56 Kg c/ 3,00 m

**Perfil 017**



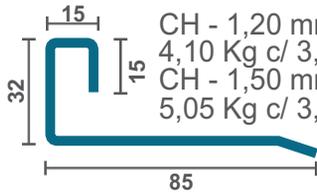
CH - 1,20mm  
3,40 Kg c/ 3,00 m  
CH - 1,50mm  
4,17 Kg c/ 3,00 m

**Perfil 019**



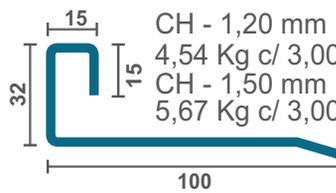
CH - 1,20mm  
5,65 Kg c/ 3,00 m  
CH - 1,50mm  
6,99 Kg c/ 3,00 m  
CH - 2,00mm  
9,32 Kg c/ 3,00 m

**Perfil 020**



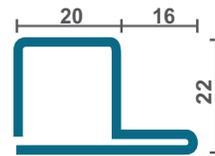
CH - 1,20 mm  
4,10 Kg c/ 3,00 m  
CH - 1,50 mm  
5,05 Kg c/ 3,00 m

**Perfil 021**



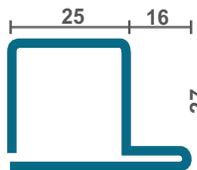
CH - 1,20 mm  
4,54 Kg c/ 3,00 m  
CH - 1,50 mm  
5,67 Kg c/ 3,00 m

**Perfil 028**



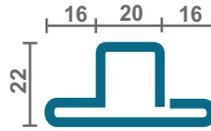
CH - 1,20 mm  
3,10 Kg c/ 3,00 m  
CH - 1,50 mm  
3,65 Kg c/ 3,00 m

**Perfil 030**



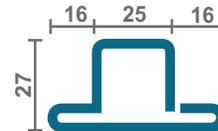
CH - 1,20 mm  
3,70 Kg c/ 3,00 m  
CH - 1,50 mm  
4,60 Kg c/ 3,00 m

**Perfil 048**



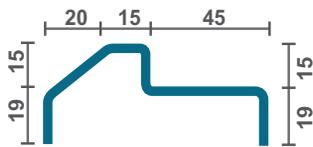
CH - 1,20mm  
4,10 Kg c/ 3,00 m  
CH - 1,50mm  
5,05 Kg c/ 3,00 m

**Perfil 050**



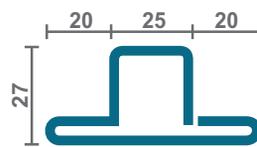
CH - 1,20mm  
4,68 Kg c/ 3,00 m  
CH - 1,50mm  
5,78 Kg c/ 3,00 m

**Perfil 079**



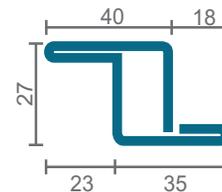
CH - 1,20 mm  
3,69 Kg c/ 3,00 m  
CH - 1,50 mm  
4,54 Kg c/ 3,00 m

**Perfil 083**



CH - 1,20mm  
5,15 Kg c/ 3,00 m  
CH - 1,50mm  
6,37 Kg c/ 3,00 m

**Perfil 084**



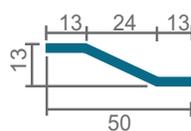
CH - 1,20mm  
4,61 Kg c/ 3,00 m  
CH - 1,50mm  
5,78 Kg c/ 3,00 m

**Perfil 086**



CH - 1,20mm  
0,70 Kg c/ 3,00 m

**Perfil 090**



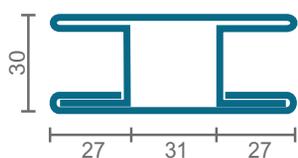
CH - 1,20mm  
1,49 Kg c/ 3,00 m  
CH - 1,50mm  
1,87 Kg c/ 3,00 m

**Perfil 093 Tira Raiada**



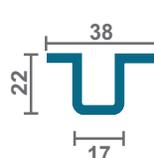
CH - 0,43 mm GV  
0,45 Kg/m  
CH - 0,50 mm GV  
0,52 Kg/m

**Perfil 095**



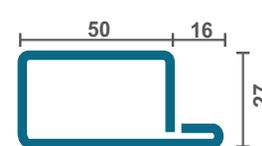
CH - 1,20mm  
11,01 Kg c/ 3,00 m

**Perfil 099**



CH - 1,20mm  
2,14 Kg c/ 3,00 m  
CH - 1,50mm  
2,67 Kg c/ 3,00 m  
CH - 2,00mm  
3,55 Kg c/ 3,00 m

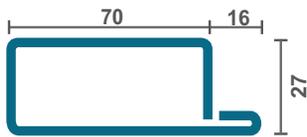
**Perfil 100**



CH - 1,20 mm  
5,20 Kg c/ 3,00 m  
CH - 1,50 mm  
6,40 Kg c/ 3,00 m

# Perfis Leves

**Perfil 102**



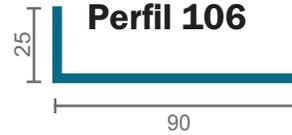
CH - 1,20 mm  
6,38 Kg c/ 3,00 m  
CH - 1,50 mm  
7,81 Kg c/ 3,00 m

**Perfil 105**



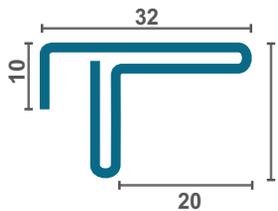
CH - 1,20 mm  
7,17 Kg c/ 3,00 m  
CH - 1,50 mm  
8,82 Kg c/ 3,00 m

**Perfil 106**



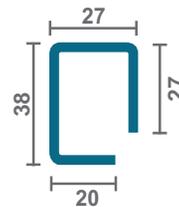
CH - 1,50mm  
4,10 Kg c/ 3,00 m  
CH - 2,00mm  
5,08 Kg c/ 3,00 m  
CH - 2,65mm  
7,20 Kg c/ 3,00 m

**Perfil 108**



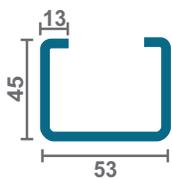
CH - 1,20 mm  
2,78 Kg c/ 3,00 m  
CH - 1,50 mm  
3,36 Kg c/ 3,00 m

**Perfil 109**



CH - 1,20mm  
3,07 Kg c/ 3,00 m  
CH - 1,50mm  
3,77 Kg c/ 3,00 m

**Perfil 503**



CH - 1,20mm  
4,50 Kg c/ 3,00 m  
CH - 1,50mm  
5,63 Kg c/ 3,00 m  
CH - 2,00mm  
6,86 Kg c/ 3,00 m

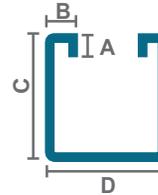
**Perfil 516**



A	B	CH	KG
15	120	1,20	4,10
15	120	1,50	5,95
15	150	1,20	4,96
15	150	1,50	6,16
15	200	1,20	6,37
15	200	1,50	7,93

Peso BR c/ 3,00 m

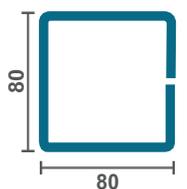
**Perfil 550**



A	B	C	D	CH	KG
10	15	120	120	1,20	11,18
10	15	120	120	1,50	13,87
10	15	150	150	1,20	13,72
10	15	150	150	1,50	17,00
10	15	200	200	1,20	17,97
10	15	200	200	1,50	22,40

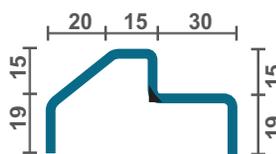
Peso BR c/ 3,00 m

**Perfil 585 - coluna**



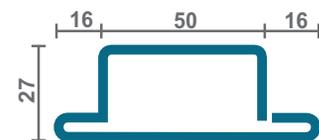
CH - 1,20 mm  
8,80 Kg c/ 3,00 m  
CH - 1,50 mm  
10,90 Kg c/ 3,00 m  
CH - 2,00 mm  
14,34 Kg c/ 3,00 m

**Perfil 597**



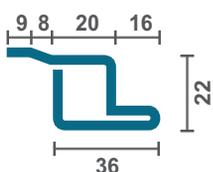
CH - 1,20 mm  
3,39 Kg c/ 3,00 m  
CH - 1,50 mm  
4,17 Kg c/ 3,00 m

**Perfil 618**



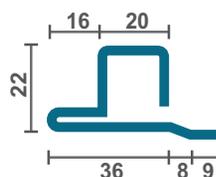
CH - 1,20mm  
6,15 Kg c/ 3,00 m  
CH - 1,50mm  
7,60 Kg c/ 3,00 m

**Perfil 621**



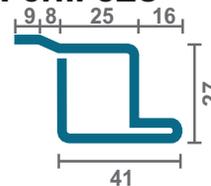
CH - 1,20 mm  
3,66 Kg c/ 3,00 m  
CH - 1,50 mm  
4,50 Kg c/ 3,00 m

**Perfil 622**



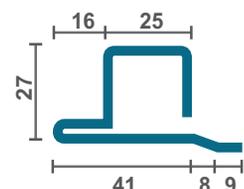
CH - 1,20 mm  
3,66 Kg c/ 3,00 m  
CH - 1,50 mm  
4,50 Kg c/ 3,00 m

**Perfil 623**



CH - 1,20 mm  
4,24 Kg c/ 3,00 m  
CH - 1,50 mm  
5,23 Kg c/ 3,00 m

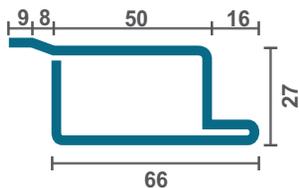
**Perfil 624**



CH - 1,20 mm  
4,24 Kg c/ 3,00 m  
CH - 1,50 mm  
5,23 Kg c/ 3,00 m

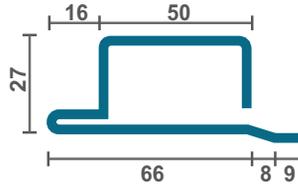
# Perfis Leves

## Perfil 625



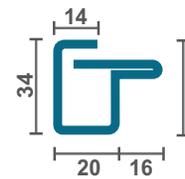
CH - 1,20 mm  
5,68 Kg c/ 3,00 m  
CH - 1,50 mm  
7,03 Kg c/ 3,00 m

## Perfil 626



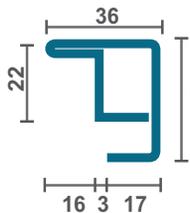
CH - 1,20 mm  
5,68 Kg c/ 3,00 m  
CH - 1,50 mm  
7,03 Kg c/ 3,00 m

## Perfil 629



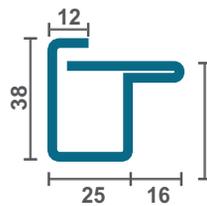
CH - 1,20 mm  
3,78 Kg c/ 3,00 m  
CH - 1,50 mm  
4,60 Kg c/ 3,00 m

## Perfil 630



CH - 1,20 mm  
3,86 Kg c/ 3,00 m  
CH - 1,50 mm  
4,68 Kg c/ 3,00 m

## Perfil 633



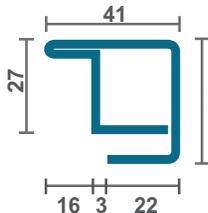
CH - 1,20 mm  
4,33 Kg c/ 3,00 m  
CH - 1,50 mm  
5,30 Kg c/ 3,00 m

## Chapa Frisada



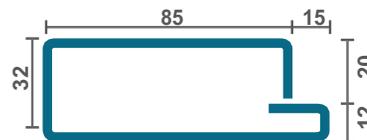
CH - 0,50mm GV.  
10,00 Kg c/ 1,10m x 2,00m  
11,00 Kg c/ 1,10m x 2,20m  
12,00 Kg c/ 1,10m x 2,50m  
14,00 Kg c/ 1,10m x 3,00m

## Perfil 634



CH - 1,20 mm  
4,62 Kg c/ 3,00 m  
CH - 1,50 mm  
5,67 Kg c/ 3,00 m

## Perfil 697



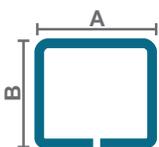
CH - 1,20 mm  
7,57 Kg c/ 3,00 m  
CH - 1,50 mm  
9,38 Kg c/ 3,00 m

## Chapa Ondulada



CH - 0,50mm GV.  
10,00 Kg c/ 1,00m x 2,00m  
11,00 Kg c/ 1,00m x 2,20m  
12,00 Kg c/ 1,00m x 2,50m  
14,00 Kg c/ 1,00m x 3,00m

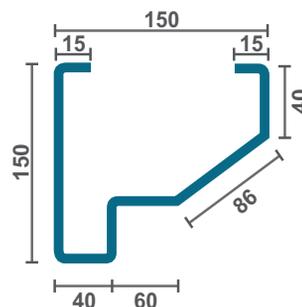
## Perfil 708



A	B	CH	KG
100	100	1,20	11,05
100	100	1,50	13,74
130	130	1,20	14,43
130	130	1,50	18,00
140	140	1,20	15,56
140	140	1,50	19,40
160	160	1,20	18,13
160	160	1,50	22,23
180	180	1,20	20,09
180	180	1,50	25,04

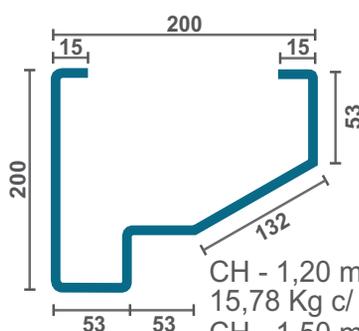
Peso BR c/ 3,00 m

## Perfil 709



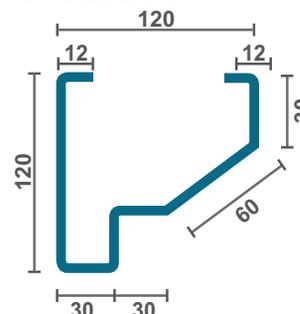
CH - 1,20 mm  
12,40 Kg c/ 3,00 m  
CH - 1,50 mm  
15,40 Kg c/ 3,00 m

## Perfil 720



CH - 1,20 mm  
15,78 Kg c/ 3,00 m  
CH - 1,50 mm  
19,62 Kg c/ 3,00 m

## Perfil 755



CH - 1,20mm  
9,54 Kg c/ 3,00 m  
CH - 1,50mm  
11,94 Kg c/ 3,00 m

# Tabela de conversão de chapa

Bobinas e Chapas Fina a Frio Espessura (mm) NBR 11888					Bobinas e Chapas Fina a Quente Espessura (mm) NBR 11888					Chapas Zincadas (Galvanizadas) Espessura (mm) NBR 7013				
MSG	PADRÃO	MÍNIMA	MÁXIMA	Peso Kg/m2	MSG	PADRÃO	MÍNIMA	MÁXIMA	Peso Kg/m2	MSG	PADRÃO	MÍNIMA	MÁXIMA	Peso Kg/m2
30	0,30	0,25	0,35	2,36	18	1,20	1,05	1,35	9,42	32	0,30	0,25	0,35	2,36
29	0,34	0,29	0,39	2,67	16	1,50	1,35	1,65	11,78	30	0,35	0,30	0,40	2,75
28	0,38	0,33	0,43	2,98	14	2,00	1,80	2,20	15,70	28	0,43	0,37	0,49	3,38
26	0,45	0,40	0,50	3,53	13	2,25	2,05	2,45	17,66	26	0,50	0,44	0,56	3,93
24	0,60	0,52	0,68	4,71	12	2,65	2,44	2,86	20,80	24	0,65	0,58	0,72	5,10
22	0,75	0,67	0,83	5,89	11	3,00	2,79	3,21	23,55	22	0,80	0,73	0,87	6,28
20	0,90	0,81	0,99	7,07	10	3,35	3,12	3,58	26,30	20	0,95	0,87	1,03	7,46
19	1,06	0,96	1,16	8,32	9	3,75	3,52	3,98	29,44	19	1,11	1,02	1,20	8,71
18	1,20	1,10	1,30	9,42	8	4,25	4,00	4,50	33,36	18	1,25	1,14	1,36	9,81
16	1,50	1,37	1,63	11,78	7	4,50	4,25	4,75	35,33	16	1,55	1,44	1,66	12,17
15	1,70	1,57	1,83	13,35	3/16"	4,75	4,50	5,00	37,29	14	1,95	1,82	2,08	15,31
14	1,90	1,72	2,08	14,92	6	5,00	4,75	5,25	39,25	13	2,30	2,15	2,45	18,06
13	2,25	2,07	2,43	17,66						12	2,70	2,53	2,87	21,20
12	2,65	2,41	2,89	20,80										
11	3,00	2,76	3,24	23,55										

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