

2019



CATÁLOGO

Alumínio



A Aleluia Alumínio mantém a mais completa linha de produtos de alumínio, produtos estes adquiridos dos principais fornecedores do País, atendendo aos diversos mercados, destacando-se nos de Construção Civil, Perfis para Instalação de Box de Vidro Temperado e em todo segmento Industrial. Dispõe de pessoal qualificado e atualizado com informações técnicas e conhecimentos que diferenciam e possibilitam um atendimento direcionado e personalizado, estoque diversificado em todas as unidades e em quantidades adequadas, agilizando as entregas, sempre buscando a melhor solução para o cliente.



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# LIGAS DE EXTRUSÃO

Propiedades mecânicas



ASTM	Aplicações Típicas	Têmpera	Limite Resistência Tração (kg/mm <sup>2</sup> )	Limite Escoamento (kg/mm <sup>2</sup> )	Alongamento 50mm (%)	Dureza Brinell 500/100 (kg/mm <sup>2</sup> )	Limite Resistência Cinzelamento (kg/mm <sup>2</sup> )	Resistência Fadiga 500 x 10 <sup>6</sup> Ciclos (kg/mm <sup>2</sup> )
<b>1050</b>	Equipamentos para indústrias químicas, alimentícias e de bebidas	0	9,8 (9,1)	- (3,2)	- (45)	- (20)	- (5,6)	- (2,8)
		H14	10,5 (11,2)	- (9,8)	- (35)	- (32)	- (7,0)	- (3,5)
		H18	13,4 (14,4)	- (13,7)	- (22)	- (40)	- (8,4)	- (4,9)
		H24	- (11,2)	-	-	-	-	-
<b>1100</b>	Painéis decorativos, etiqueta, utensílios doméstico, uso geral, peças estampadas, aletas	0	10,7* -	- (3,5)	- (45)	- (23)	- (6,3)	- (3,5)
		H12	9,7 -	-	-	-	-	-
		H14	11,2 (12,0)	- (11,2)	- (25)	- (34)	- (7,7)	- (4,9)
		H16	13,3 -	-	-	-	- (8,4)	- (5,5)
		H18	15,4 (21,0)	- (16,1)	- (20)	- (44)	- (9,1)	- (6,3)
		F	-	-	-	-	-	-
<b>1200</b>	Equipamentos para indústrias químicas, alimentícias e de bebidas	0	10,9* (8,4)	- (3,5)	- (45)	- (23)	- (16,3)	(3,5)
		H14	11,2 (12,0)	- (11,2)	- (25)	- (32)	- (7,7)	(4,9)
		HJB	15,4 (21,0)	- (16,1)	- (20)	- (44)	- (9,1)	(6,3)
		T4	-	-	-	-	-	-
<b>2117</b>	Rebites	T4	26,7 (30,2)	12,6 (17,0)	18 (27)	- (70)	18,3 (19,7)	(13,5)
<b>2017</b>	Peças com elevada resistência mecânica - usinagem	0	24,6 (18,3)	- (9,8)	16 (30)	- (45)	- (12,7)	(9,1)
		T4	38,7 (45,7)	22,5 (29,6)	16 (24)	- (105)	- (26,7)	(12,6)
<b>2024</b>	Peças com elevada resistência usinagem e forjagem	0	24,6* (22,5)	13,3* (11,2)	12 (15)	- (42)	- (12,6)	(8,4)
		T4	40,0 (45,7)	29,5 (36,5)	12 (17)	- (105)	- (28,8)	(12,6)
<b>2014</b>	Peças com elevada resistência mecânica - forjagem	T0	21,1* (20,4)	12,6* (10,5)	12 (14)	- (45)	- (12,6)	(7,7)
		T4	35,1 (43,6)	24,6 (29,5)	12 (18)	- (105)	- (26,7)	(12,6)
		T6	42,2 (47,1)	37,2 (42,9)	7 (11)	- (135)	- (31,6)	(12,6)
<b>2011</b>	Peças usinadas em torno automático	T3	30,1 (33,9)	23,8 (29,7)	10 (15)	- (95)	- (21,0)	(12,6)
		T6	29,6 (34,0)	- (23,0)	- (16)	-	-	-
		T8	- (41,5)	- (31,5)	- (12)	- (100)	- (24,5)	(12,5)

ASTM	Aplicações Típicas	Têmpera	Limite Resistência Tração (kg/mm <sup>2</sup> )	Limite Escoamento (kg/mm <sup>2</sup> )	Alongamento 50mm (%)	Dureza Brinell 500/100 (kg/mm <sup>2</sup> )	Limite Resistência Cinzelamento (kg/mm <sup>2</sup> )	Resistência Fadiga 500 x 10 <sup>6</sup> Ciclos (kg/mm <sup>2</sup> )
<b>6063</b>	Caixilharia e ornamentos - anodização fosca	0	11,9* (10,5)	- (3,5)	- (40)	- (26)**	- (7,7)	- (5,5)
		TAA	11,1 (14,1)	6,0 (8,4)	16 (25)	- (48)**	- (10,0)	- (6,5)
		T5	15,4 (19,6)	11,9 (16,8)	8 (16)	- (66)	- (12,0)	- (7,0)
		T6C	18,3 (22,1)	14,8 (19,7)	8 (14)	- (68)	- (15,5)	- (7,0)
		T8A	21,0 (28,0)	17,5 (25,2)	8 (13)	-	- (15,5)	-
		T8D	25,9 (30,8)	23,8 (28,7)	7 (12)	-	- (12,5)	-
		T8E	- (19,0)	- (17,0)	- (10)	-	- (19,0)	-
<b>6101</b>	Aplicação elétricas - boa resistência mecânica	T5	- (18,5)	- (15,0)	-	-	%ACS	55,0
		T6	20,4 (25,5)	17,5 (23,0)	- (13)	- (78)		55,0
		T6A	19,0 (21,0)	15,5 (18,0)	-	- (62)		56,0
		T6B	14,0 (18,0)	10,5 (14,0)	- (20)	- (54)		57,0
<b>6351</b>	Estruturas e peças usinadas	0	- (12,6)	- (5,6)	- (25)	-	-	-
		T4	19,0 (25,3)	11,9 (15,5)	18 (20)	- (60)	- (15,5)	(9,5)
		T6	29,5 (32,3)	26,0 (30,2)	10 (13)	- (95)	- (20,5)	(9,5)
<b>6053</b>	Rebites	T4	17,6 (21,1)	-	-	-	11,9 -	-
		T6	22,5 (24,6)	14,1 -	14 -	- (70)	11,5 (18,3)	(9,0)
<b>5052</b>	Estrutura (expostas ao ar marinho)	0	21,8* (20,4)	- (9,8)	25 (30)	- (45)	- (12,6)	- (11,2)
		H34	23,9 (26,0)	- (20,4)	- (14)	- (67)	- (14,7)	- (12,6)
		H38	27,0 (30,2)	- (26,7)	- (8)	- (80)	- (16,9)	- (14,1)
<b>6261</b>	Estruturas e Rebites	0	15,5* (14,1)	11,2* (8,4)	16 (24)	- (30)	- (8,5)	- (6,3)
		T4	18,3 (24,6)	11,2 (14,8)	16 (20)	- (65)	- (15,5)	- (9,8)
		T6	26,7 (31,0)	24,6 (28,3)	10 (15)	- (95)	- (19,0)	- (9,8)
		T9	35,1 (36,6)	- (33,0)	12 (18)	-	-	-
<b>6061</b>	Estruturas	T4	- (22,0)	- (13,0)	- (17)	- (70)	-	-
		T4A	- (19,0)	- (11,0)	- (17)	- (60)	-	-
		T6	28,0 (30,0)	25,4 (27,0)	10 (12)	- (95)	-	-
		T6C	23,4 (27,0)	20,3 (23,0)	7 (10)	- (85)	-	-

OBS: (-) = Os valores entre parênteses são típicos, correspondem uma média de valores observados

\* = Indica-se o valor máximo para garantir um completo recozimento

\*\* = Valores em Rockwell (RF)

# BOBINA LISA

LAMINADOS



ESPESSURAS (mm) 0,4 0,5 0,6 0,7 0,8

LARGURA (MM)

0200

0300

0400

0500

0600

0700

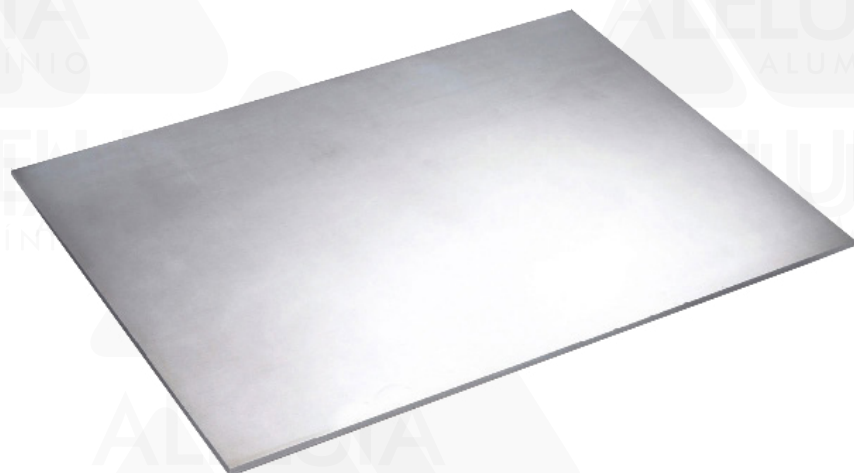
0800

1000

1200

# CHAPAS LISA

LAMINADOS



## LISA 2000 x 1000 mm ESPESSURA

0.40

0.50

0.60

0.70

0.80

1.00

1.20

1.50

2.00

3.00

4.00

4.76

5.00

6.00

6.35

7.93

9.52

12.70

15.87

19.05

25.40

31.75

38.10

50.80

## LISA 2000 x 1060 mm ESPESSURA

4,76

5,00

6,35

7,93

9,52

12,70

15,87

19,05

## LISA 2000 x 1250 mm ESPESSURA

0,40

0,50

0,60

0,70

0,80

1,00

1,20

1,50

2,00

3,00

4,00

4,76

5,00

6,00

6,35

7,93

9,52

12,70

15,87

19,05

25,40

31,75

38,10

50,80

# CHAPAS LISA

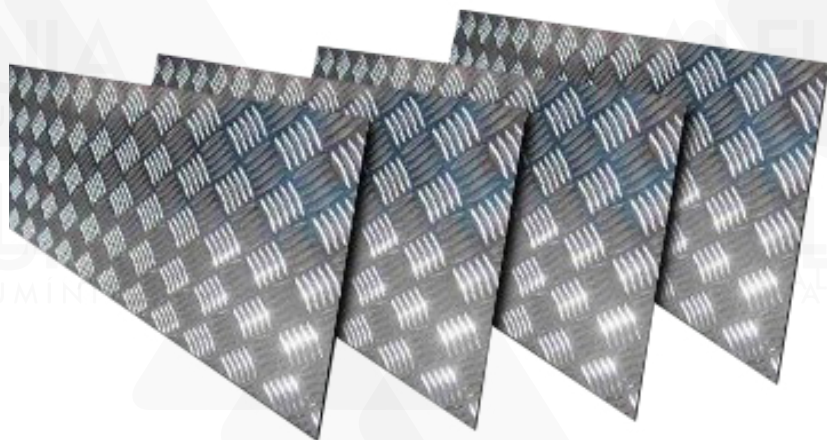
LAMINADOS

LISA 3000 x 1000 mm ESPESSURA	LISA 3000 x 1250 mm ESPESSURA	LISA 3000 x 1310 mm ESPESSURA
0,50	0,40	6,35
0,60	0,50	7,93
0,70	0,60	9,52
0,80	0,70	12,70
1,00	0,80	15,87
1,20	1,00	19,05
1,50	1,20	
2,00	1,50	
3,00	2,00	
4,00	3,00	
4,76	4,00	
5,00	4,76	
6,00	5,00	
6,35	6,00	
7,93	6,35	
9,52	7,93	
12,70	9,52	
15,87	12,70	
19,05	15,87	
25,40	19,05	
31,75	25,40	
38,10	31,75	
50,80	38,10	
	50,80	



# CHAPA XADREZ

LAMINADOS



## XADREZ 2000 x 1000 mm ESPESSURA

1,20

1,50

2,20

2,70

4,00

4,76

## XADREZ 2000 x 1250 mm ESPESSURA

1,20

1,50

2,20

2,70

4,00

4,76

## XADREZ 2500 x 1000 mm ESPESSURA

1,20

1,50

2,20

2,70

4,00

4,76

## XADREZ 2500 x 1250 mm ESPESSURA

1,20

1,50

2,20

2,70

4,00

4,76

## XADREZ 3000 x 1000 mm ESPESSURA

1,20

1,50

2,20

2,70

4,00

4,76

## XADREZ 3000 x 1250 mm ESPESSURA

1,20

1,50

2,20

2,70

4,00

4,76

## XADREZ 3000 x 1500 mm ESPESSURA

4,76

# CHAPA STUCCO

LAMINADOS



**STUCCO 2000 x 1000 mm**  
**ESPESSURA**

0,50

0,80

**STUCCO 2000 x 1250 mm**  
**ESPESSURA**

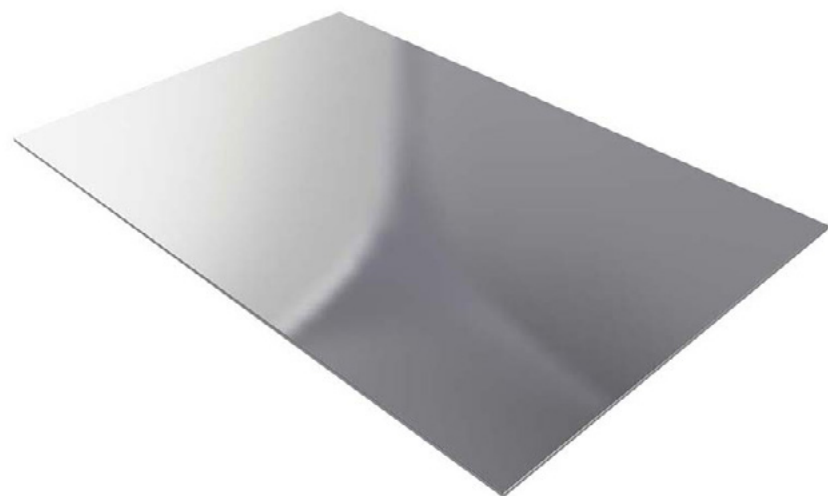
0,50

0,80

**STUCCO 3000 x 1250 mm**  
**ESPESSURA**

0,50

0,80



**INOX 2000 x 1250 mm**

**LIGA 304 E 430**

**ESPESSURA**

0.40

0.50

0.60

0.70

0.80

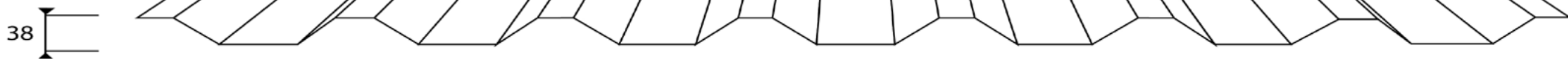
1.00

1.20

1.50

## Trapezoidal

1056

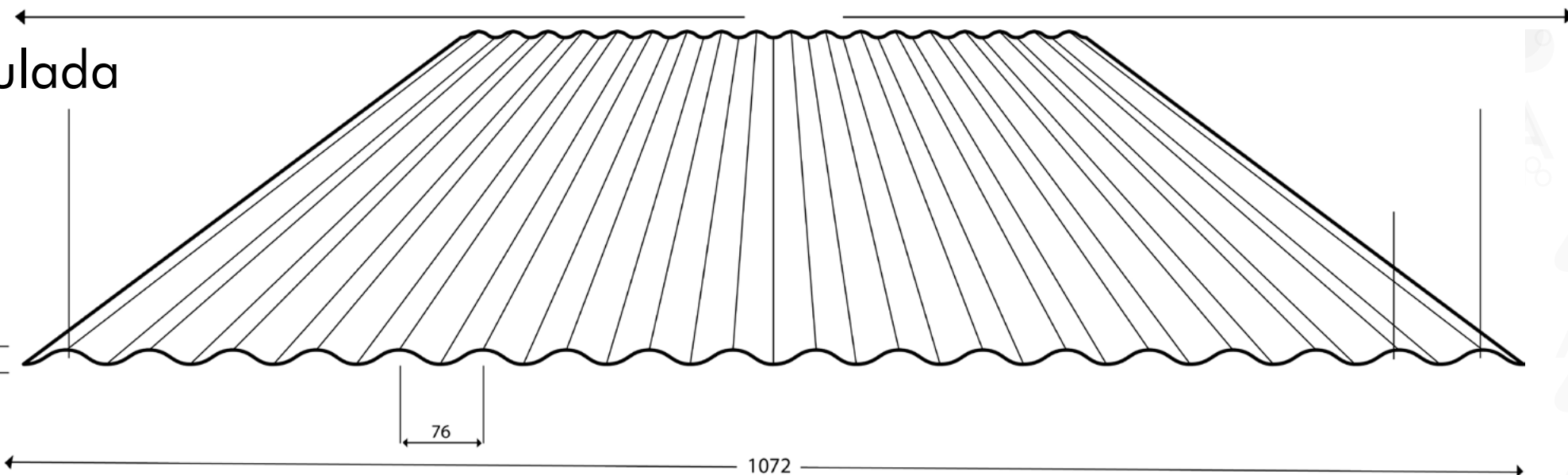


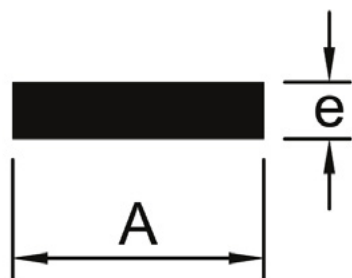
## Ondulada

17

76

1072





POLEGADAS		MILÍMETROS		PESO (KG/M)
A	e	A	e	
1/2	1/8	12,70	3,18	0,109
1/2	3/16	12,70	4,76	0,163
1/2	1/4	12,70	6,35	0,217
1/2	3/8	12,70	9,52	0,326
5/8	1/8	15,87	3,18	0,136
5/8	3/16	15,87	4,76	0,204
5/8	1/4	15,87	6,35	0,272
5/8	3/8	15,87	9,52	0,408
3/4	1/8	19,05	3,18	0,164
3/4	3/16	19,05	4,76	0,245
3/4	1/4	19,05	6,35	0,326
3/4	3/8	19,05	9,53	0,488
3/4	1/2	19,05	12,70	0,656
7/8	1/8	22,22	3,18	0,191
7/8	3/16	22,22	4,76	0,286
7/8	1/4	22,22	6,35	0,380
1	1/8	25,40	3,18	0,218
1	3/16	25,40	4,76	0,326
1	1/4	25,40	6,35	0,435
1	3/8	25,40	9,52	0,650
1	1/2	25,40	12,70	0,869
1.1/8	1/4	28,57	6,35	0,490
1.1/4	1/8	31,75	3,18	0,273
1.1/4	3/16	31,75	4,76	0,408

# BARRA CHATA

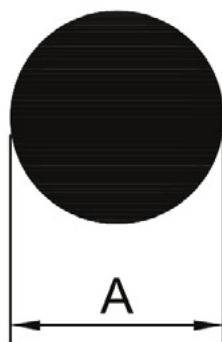
## TABELADOS

POLEGADAS		MILÍMETROS		PESO (KG/M)
A	E	A	E	
1.1/4	1/4	31,75	6,35	0,544
1.1/4	3/8	31,75	9,53	0,815
1.1/4	1/2	31,75	12,70	1,088
1.3/8	1/8	34,92	3,18	0,300
1.1/2	1/8	38,10	3,18	0,327
1.1/2	3/16	38,10	4,76	0,490
1.1/2	1/4	38,10	6,35	0,653
1.1/2	3/8	38,10	9,52	0,980
1.1/2	1/2	38,10	12,70	1,306
1.1/2	5/8	38,10	15,87	1,633
1.1/2	3/4	38,10	19,05	1,920
2	1/8	50,80	3,18	0,436
2	3/16	50,80	4,76	0,653
2	1/4	50,80	6,35	0,870
2	3/8	50,80	9,52	1,304
2	1/2	50,80	12,70	1,741
2	5/8	50,80	15,87	2,183
2	3/4	50,80	19,05	2,667
3	1/8	76,20	3,18	0,654
3	3/16	76,20	4,76	0,983
3	1/4	76,20	6,35	1,306
3	3/8	76,20	9,52	1,957
3	1/2	76,20	12,70	2,611
3	5/8	76,20	15,87	3,265

POLEGADAS		MILÍMETROS		PESO (KG/M)
A	E	A	E	
4	1/8	101,60	3,18	0,876
4	3/16	101,60	4,76	1,306
4	1/4	101,60	6,35	1,741
4	3/8	101,60	9,52	2,700
4	1/2	101,60	12,70	3,483
4	5/8	101,60	15,87	4,342
4	3/4	104,60	19,05	5,225
5	3/16	127,00	4,76	1,741
5	1/4	127,00	6,35	2,177
5	3/8	127,00	9,52	3,264
5	1/2	127,00	12,70	4,355
5	3/4	127,00	19,05	6,531
6	1/8	152,40	3,18	1,306
6	1/4	152,40	6,35	2,623
8	5/8	203,20	15,87	8,713

# BARRA REDONDA

## TABELADOS



POLEGADAS	MILÍMETROS	PESO (KG/M)
A	A	
1/4	6,35	0,086
5/16	7,93	0,136
3/8	9,52	0,193
7/16	11,11	0,262
1/2	12,70	0,348
9/16	14,25	0,441
5/8	15,88	0,544
3/4	19,05	0,784
11/16	17,46	0,646
7/8	22,22	1,067
1	25,40	1,399
1.1/8	28,57	1,764
1.1/4	31,75	2,177
1.3/8	34,92	2,634
1.1/2	38,10	3,135
1.5/8	41,27	3,679
1.3/4	44,45	4,267
1.7/8	47,62	4,806
2	50,80	5,574
2.1/8	53,97	6,292
2.1/4	57,15	7,054
2.3/8	60,32	7,860
2.1/2	63,50	8,709
2.3/4	69,85	10,538

POLEGADAS	MILÍMETROS	PESO (KG/M)
A	A	
3	76,20	12,541
3.1/2	88,88	16,754
4	101,58	21,878
4.1/2	114,27	27,689
5	126,97	34,186
6	152,40	50,000
7	177,80	67,038
8	203,20	87,559
10	253,60	137,247



# BARRA QUADRADA

## TABELADOS



POLEGADAS	MILÍMETROS	PESO (KG/M)
A	A	
1/4	6,35	0,111
5/16	7,93	0,173
3/8	9,52	0,249
7/16	11,11	0,340
1/2	12,70	0,444
9/16	14,25	0,561
5/8	15,88	0,693
3/4	19,05	0,998
7/8	22,22	1,358
1	25,40	1,744
1.1/8	28,57	2,245
1.1/4	31,75	2,772
1.3/8	34,92	3,354
1.1/2	38,10	3,992
1.5/8	41,27	4,685
1.3/4	44,45	5,433
2	50,80	7,096
2.1/8	53,97	8,011
2.1/4	57,15	8,982
2.3/8	60,32	10,007
2.1/2	63,50	11,088
2.3/4	69,85	13,417
3	76,20	15,967

# BARRA SEXTAVADA

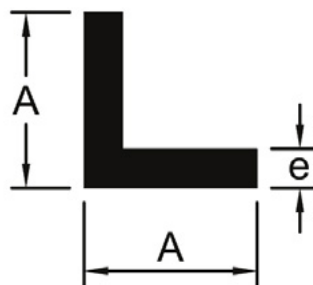
## TABELADOS



POLEGADAS	MILÍMETROS	PESO (KG/M)
A	A	
1/4	6,35	0,096
5/16	7,93	0,150
3/8	9,52	0,216
7/16	11,11	0,294
1/2	12,70	0,384
9/16	14,25	0,486
5/8	15,88	0,661
3/4	19,05	0,865
7/8	22,22	1,177
1	25,40	1,538
1.1/8	28,57	1,946
1.1/4	31,75	2,402
1.3/8	34,92	2,907
1.1/2	38,10	3,460
1.5/8	41,27	4,060
1.3/4	44,45	4,709
2	50,80	6,150
2.1/8	53,97	6,943
2.1/4	57,15	7,784
2.3/8	60,32	8,613
2.1/2	63,50	9,601
2.3/4	69,85	11,628
3	76,20	13,839

# CANTONEIRA Abas Iguais

## TABELADOS

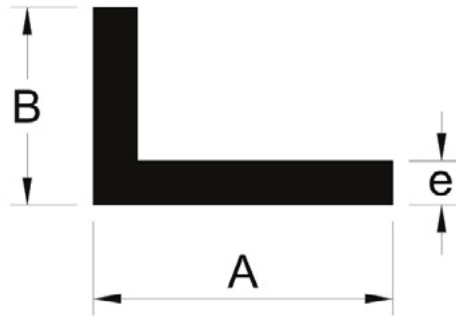


POLEGADAS		MILÍMETROS		PESO (KG/M)
A	E	A	E	
1/2	1/16	12,70	1,58	0,101
5/8	1/16	15,87	1,58	0,126
5/8	1/8	15,87	3,18	0,244
3/4	1/16	19,05	1,58	0,150
3/4	1/8	19,05	3,18	0,298
1	1/16	25,40	1,58	0,210
1	3/32	25,40	2,38	0,311
1	1/8	25,40	3,18	0,407
1	3/16	25,40	4,76	0,591
1.1/4	1/16	31,75	1,58	0,266
1.1/4	1/8	31,75	3,18	0,516
1.1/4	3/16	31,75	4,76	0,755
1.1/2	1/16	38,10	1,58	0,327
1.1/2	1/8	38,10	3,18	0,624
1.1/2	3/16	38,10	4,76	0,917
1.1/2	1/4	38,10	6,35	1,200
2	3/32	50,80	2,38	0,657
2	1/8	50,80	3,18	0,842
2	3/16	50,80	4,76	1,244
2	1/4	50,80	6,35	1,633
2.1/2	1/8	63,50	3,18	1,074
2.1/2	1/4	63,50	6,35	2,060
3	1/8	76,20	3,18	1,277
3	9/64	76,20	3,57	1,367

# CANTONEIRA Abas Iguais

TABELADOS

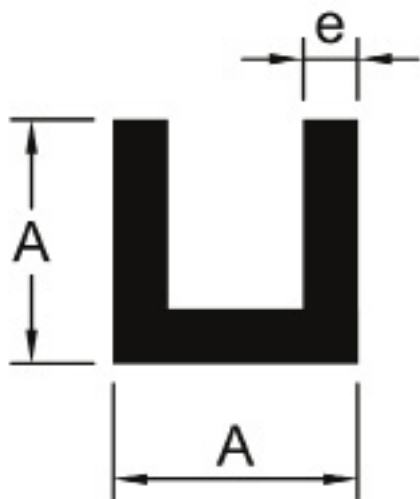
POLEGADAS		MILÍMETROS		PESO (KG/M)
A	E	A	E	
3	3/16	76,20	4,76	1,897
3	1/4	76,20	6,35	2,504
4	1/8	101,60	3,18	1,707
4	3/16	101,60	4,76	2,550
4	1/2	101,60	12,70	6,640
5	1/8	127,00	3,18	2,147



A	POLEGADAS			MILÍMETROS			PESO (KG/M)
	B	e	A	B	e		
2	1.1/4	-	50,80	31,75	2,00	0,450	
4	2.3/8		101,60	60,32	2,50	1,000	

# PERFIL "U" Abas Iguais

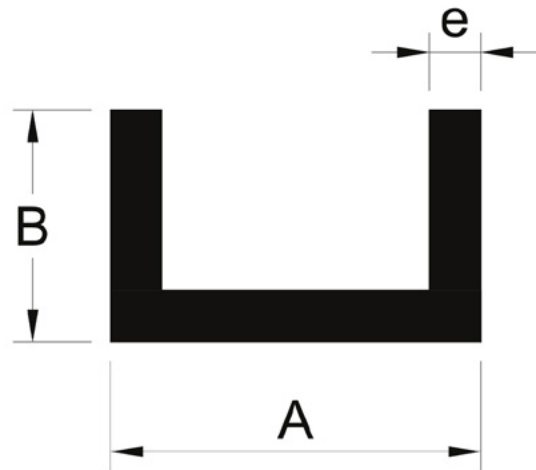
## TABELADOS



POLEGADAS		MILÍMETROS		PESO (KG/M)
A	e	A	e	
3/8	1/16	9,52	1,58	0,108
1/2	1/16	12,70	1,58	0,150
1/2	3/32	12,70	2,38	0,214
5/8	1/16	15,87	1,58	0,190
5/8	3/32	15,87	2,38	0,278
3/4	1/16	19,05	1,58	0,250
3/4	1/8	19,05	3,18	0,435
7/8	3/32	22,20	2,38	0,398
7/8	1/8	22,20	3,18	0,517
1	1/16	25,40	1,58	0,283
1	3/32	25,40	2,38	0,459
1	1/8	25,40	3,18	0,598
1.1/4	1/8	31,75	3,18	0,760
1.1/2	1/8	38,10	3,18	0,924

# PERFIL "U" Abas Desiguais

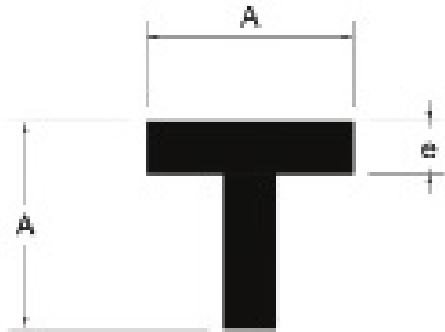
## TABELADOS



POLEGADAS			MILÍMETROS			PESO LINEAR (KG/M)
A	B	e	A	B	e	
3/8	1/2	3/32	9,52	19,05	2,38	0,173
5/8	3/8	3/32	15,87	9,52	2,38	0,194
5/8	1	1/16	15,87	25,40	1,58	0,267
3/4	3/8	3/32	19,05	9,52	2,38	0,214
3/4	1/2	3/32	19,05	19,05	2,38	0,255
3/4	1/2	1/8	19,05	19,05	3,18	0,326
3/4	1.1/4	3/32	19,05	31,75	2,38	0,500
1	3/8	1/8	25,40	9,52	3,18	0,326
1	1/2	5/64	25,40	19,05	2,00	0,254
1	1/2	1/8	25,40	19,05	3,18	0,380
1.1/8	1.3/8	1/16	28,57	34,92	1,58	0,400
1.1/4	1/2	1/8	31,75	19,05	3,18	0,435
1.1/2	1/2	3/32	38,10	19,05	2,38	0,377
2	1	1/8	50,80	25,40	3,18	0,815
2.1/8	1.1/2	1/8	53,97	38,10	3,18	1,050
3	1	1/8	76,20	25,40	3,18	1,030
4	1.1/2	3/16	101,60	38,10	4,76	2,163
4	2	1/8	101,60	50,80	3,18	1,680

# PERFIL "T"

## TABELADOS

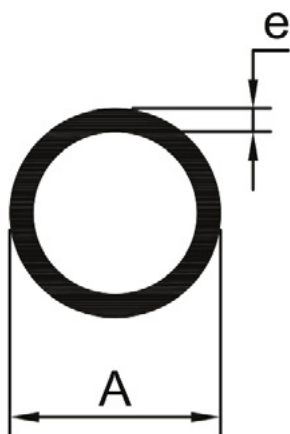


POLEGADAS		MILÍMETROS		PESO (KG/M)
A	e	A	e	
1	1/16	25,40	1,60	0,213
1	1/8	25,40	3,18	0,407
1.1/4	1/8	31,75	3,18	0,516
1.1/2	1/8	38,10	3,18	0,624
2	1/8	50,80	3,18	0,842



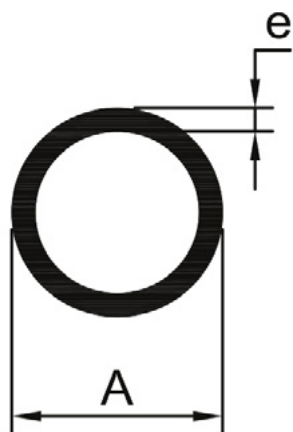
# TUBO REDONDO

## TABELADOS



POLEGADAS		MILÍMETROS		PESO (KG/M)
A	e	A	e	
3/8	1/16	9,52	1,58	0,108
1/2	1/16	12,70	1,58	0,150
5/8	-	15,87	1,00	0,126
5/8	-	15,87	1,20	0,150
5/8	1/16	15,87	1,58	0,192
3/4	-	19,05	1,00	0,150
3/4	1/16	19,05	1,58	0,234
7/8	-	22,22	1,20	0,200
7/8	1/16	22,22	1,58	0,278
1	-	25,40	1,00	0,205
1	1/16	25,40	1,58	0,320
1	5/64	25,40	2,00	0,398
1	3/32	25,40	2,38	0,464
1	1/8	25,40	3,18	0,600
1.1/4	1/16	31,75	1,58	0,450
1.1/4	5/64	31,75	2,00	0,505
1.1/4	1/8	31,75	3,18	0,770
1.1/2	1/16	38,10	1,58	0,467
1.1/2	5/64	38,10	2,00	0,612
1.1/2	1/8	38,10	3,18	0,942
1.3/4	1/8	44,45	3,18	1,195
2	-	50,80	1,20	0,516
2	1/16	50,80	1,58	0,668
2	5/64	50,80	2,00	0,826

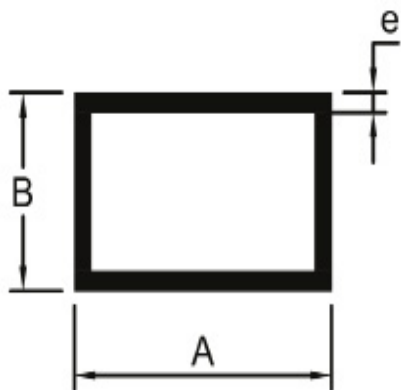
POLEGADAS		MILÍMETROS		PESO (KG/M)
A	e	A	e	
2	1/8	50,80	3,18	1,285
2	3/16	50,80	4,76	2,393
2.1/2	1/16	63,50	1,58	0,750
2.1/2	1/8	63,50	3,18	1,622
2.1/2	3/16	63,50	4,76	2,920
3	-	76,20	1,20	0,866
3	1/16	76,20	1,58	1,000
3	5/64	76,20	2,00	1,259
3	1/8	76,20	3,18	1,964
3	3/16	76,20	4,76	2,880
4	-	101,60	1,27	1,250
4	5/64	101,60	2,00	2,000
4	1/8	101,60	3,18	2,590
5	5/64	127,00	2,00	2,083
6	1/8	152,40	3,18	3,960



POLEGADAS DIAMETRO NOMINAL	SCHEDULE N°	MILÍMETROS			PESO (KG/M)
		A	B	e	
1/2	40	21,34	15,80	2,77	0,436
1/2	80	21,34	13,86	3,74	0,560
3/4	40	26,67	20,93	2,87	0,582
3/4	80	26,67	18,85	3,91	0,759
1	40	33,40	26,64	3,38	0,865
1	80	33,40	24,30	4,55	1,118
1.1/4	40	42,17	35,05	3,56	1,170
1.1/4	80	42,17	32,47	4,85	1,543
1.1/2	40	48,26	40,90	3,68	1,399
1.1/2	80	48,26	38,10	5,08	1,869
2	40	60,33	52,51	3,91	1,881
2	80	60,33	49,25	5,54	2,585
2.1/2	40	73,03	62,71	5,16	2,982
2.1/2	80	73,03	59,01	7,01	3,944
3	40	88,90	77,92	5,49	3,901
3	80	88,90	73,66	7,62	5,279
3.1/2	40	101,60	90,12	5,74	4,689
3.1/2	80	101,60	85,44	8,08	6,438
4	40	114,30	102,26	6,02	5,555
4	80	114,30	97,18	8,56	7,713
4.1/2	40	127,00	114,46	6,27	6,424
4.1/2	80	127,00	108,96	9,02	9,027
5	40	141,30	128,20	6,55	7,560
6	80	168,28	146,34	11	14,850

# TUBO RETANGULAR

## TABELADOS

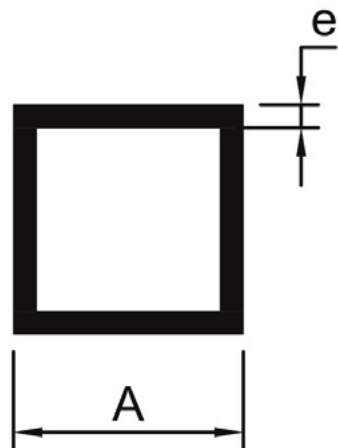


POLEGADAS		MILÍMETROS		e	PESO (KG/M)
A	B	A	B		
-	-	30,00	20,00	2,00	0,517
1	1/2	25,40	12,70	1,00	0,200
1	1/2	25,40	12,70	1,58	0,300
1	1.1/2	25,40	38,10	1,60	0,515
1	1.1/2	25,40	38,10	2,00	0,683
2	1/2	50,80	12,70	1,20	0,335
2	1/2	50,80	12,70	1,50	0,490
2	1	50,80	25,40	1,00	0,400
2	1	50,80	25,40	1,20	0,484
2	1	50,80	25,40	1,50	0,600
2	1	50,80	25,40	2,00	0,783
2	1.1/2	50,80	38,10	1,50	0,800
2	1.1/2	50,80	38,10	2,00	0,917
2.3/8	1.1/2	60,32	38,10	1,50	0,817
2.3/8	1.1/2	60,32	38,10	2,00	1,019
3	1	76,20	25,40	1,20	0,617
3	1	76,20	25,40	1,60	0,783
3	1.1/2	76,20	38,10	1,50	0,902
3	1.1/2	76,20	38,10	2,00	1,190
4	1.1/2	101,58	38,10	2,00	1,800
4	2	101,58	50,80	1,50	1,300
4	2	101,58	50,80	2,00	1,667
4	2	101,58	50,80	3,05	2,500
4	2	101,58	50,80	4,75	3,666

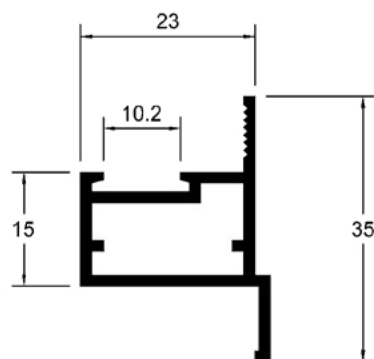
POLEGADAS		MILÍMETROS		PESO (KG/M)	
A	B	A	B	e	
5	2	127,00	50,80	2,00	1,877
5	2	127,00	50,80	3,17	2,935
5	3	127,00	76,20	6,35	6,532
6	1.1/2	152,37	38,10	3,20	3,152
6	2	152,37	50,80	3,00	3,333
6	3	152,37	76,20	3,17	3,804

# TUBO QUADRADO

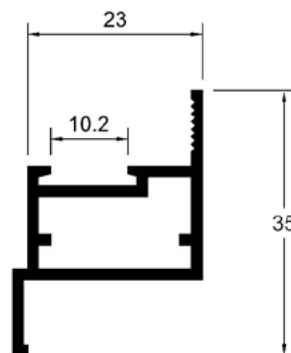
## TABELADOS



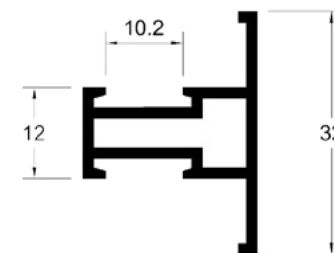
POLEGADAS		MILÍMETROS		PESO (KG/M)
A	e	A	e	
1/2	1/16	12,70	1,58	0,200
5/8	1/16	15,87	1,58	0,233
3/4	-	19,05	1,20	0,233
3/4	1/16	19,05	1,58	0,284
1	-	25,40	1,00	0,268
1	1/16	25,40	1,58	0,387
1	5/64	25,40	2,00	0,533
1	1/8	25,40	3,18	0,767
1.1/4	1/16	31,75	1,58	0,489
1.1/4	5/64	31,75	2,00	0,666
1.1/2	1/16	38,10	1,58	0,595
1.1/2	5/64	38,10	2,00	0,779
1.1/2	1/8	38,10	3,18	1,233
2	1/16	50,80	1,58	0,920
2	5/64	50,80	2,00	1,053
2	1/8	50,80	3,18	1,695
2.1/2	1/8	63,50	3,05	1,970
3	5/64	76,20	2,00	1,717
3	1/8	76,20	3,18	2,508
4	3/32	101,60	2,38	2,700
4	5/32	101,60	3,80	3,995
5	-	127,00	3,00	4,032



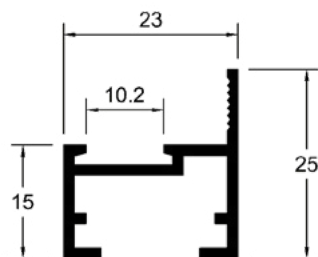
**23-001** (B-26) PESO: (Kg/m) 0,379



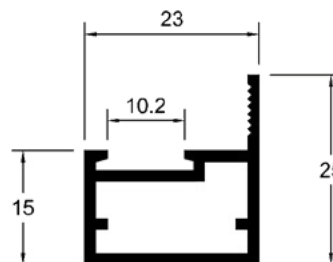
**23-002** (B-25) PESO: (Kg/m) 0,379



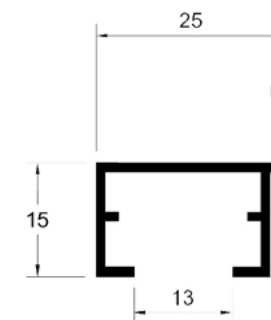
**23-003** PESO: (Kg/m) 0,365



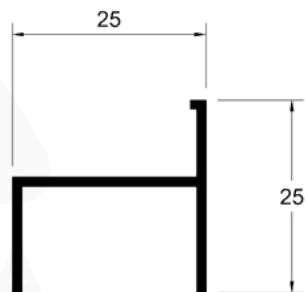
**23-004** (B-4) PESO: (Kg/m) 0,282



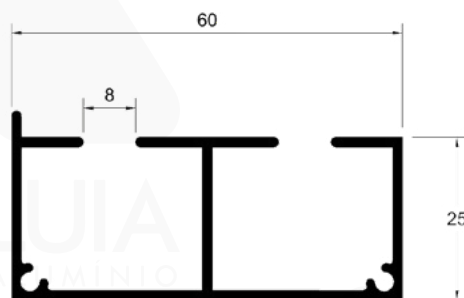
**23-005** (B-1) PESO: (Kg/m) 0,332



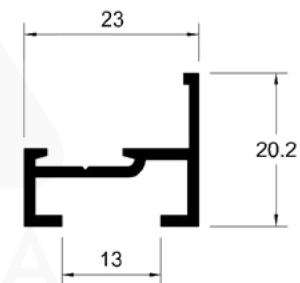
**23-006** PESO: (Kg/m) 0,241



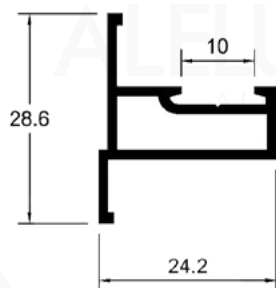
**23-008** PESO: 0,206  
(Kg/m)



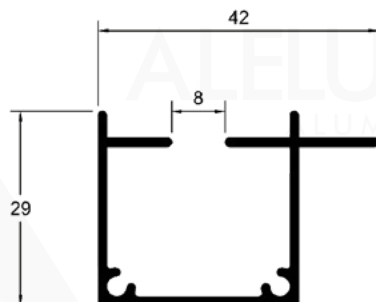
**23-012** PESO: 0,727  
(Kg/m)



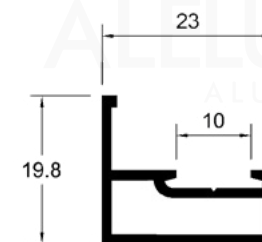
**23-018** PESO: 0,232  
(Kg/m)



**23-020** (23-020) PESO: 0,286  
(Kg/m)

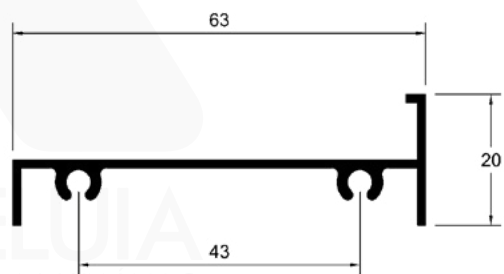


**23-021** PESO: 0,441  
(Kg/m)

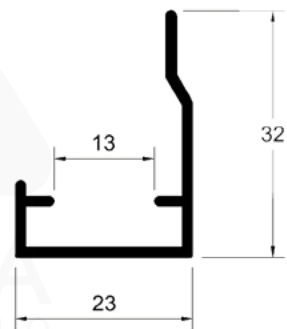


**23-022** (23-022) PESO: 0,250  
(Kg/m)

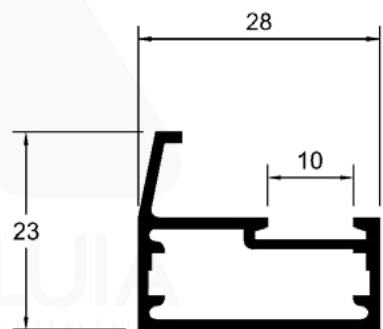




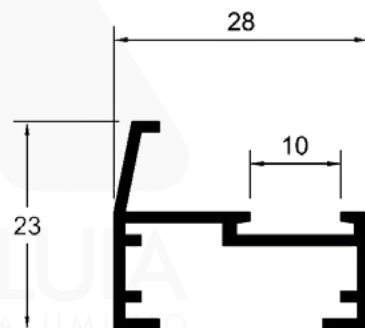
**23-023** (23-023 / B-32) PESO: 0,401 (Kg/m)



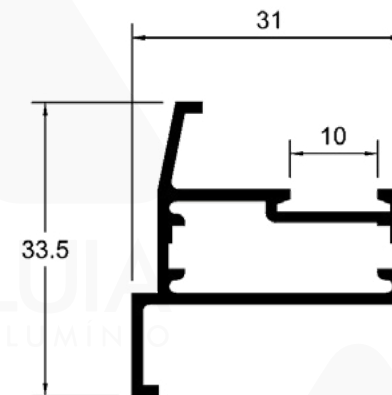
**23-072** PESO: 0,262 (Kg/m)



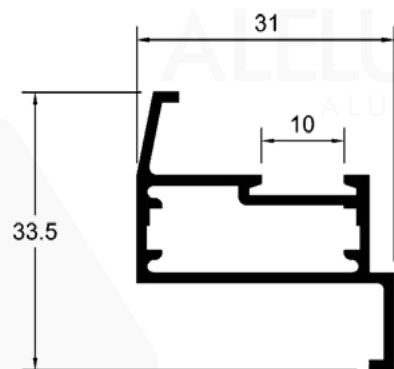
**28-001** PESO: (Kg/m) 0,329



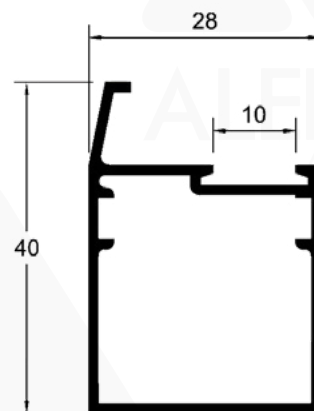
**28-002** PESO: (Kg/m) 0,270



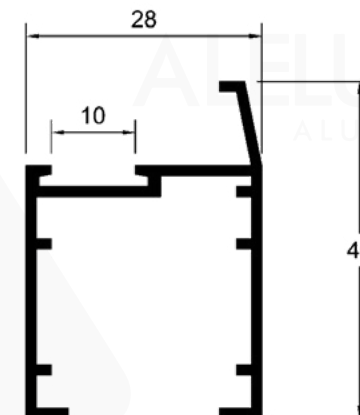
**28-003** PESO: (Kg/m) 0,379



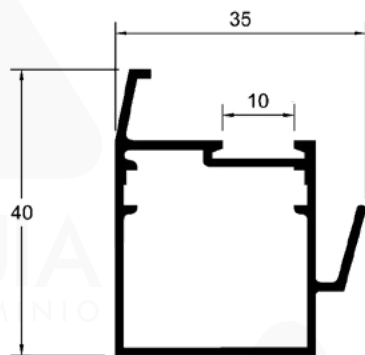
**28-004** (28-004) PESO: (Kg/m) 0,379



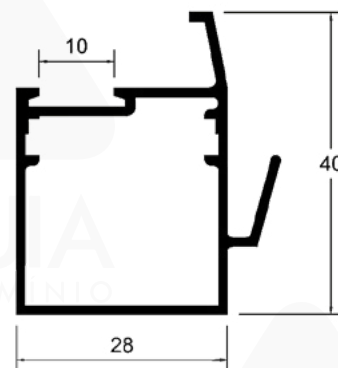
**28-005** (28-005) PESO: (Kg/m) 0,417



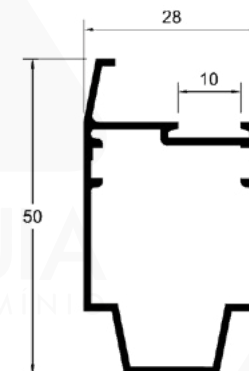
**28-006** PESO: (Kg/m) 0,393



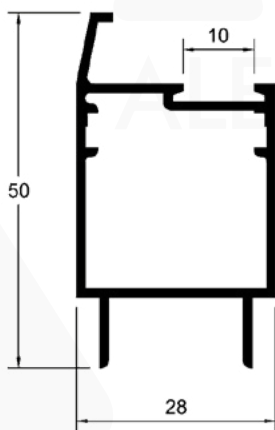
**28-007** (28-007) PESO: (Kg/m) 0,471



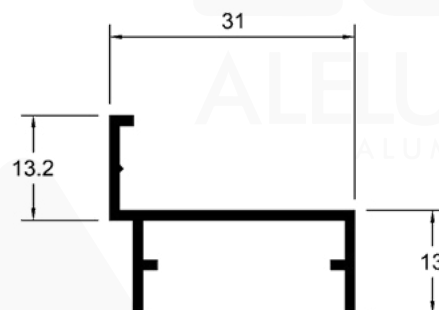
**28-008** (28-008) PESO: (Kg/m) 0,471



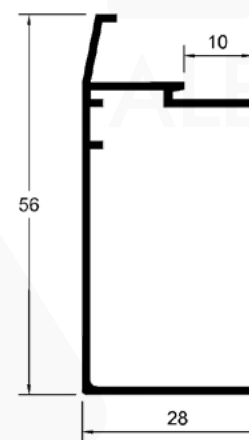
**28-009** PESO: (Kg/m) 0,468



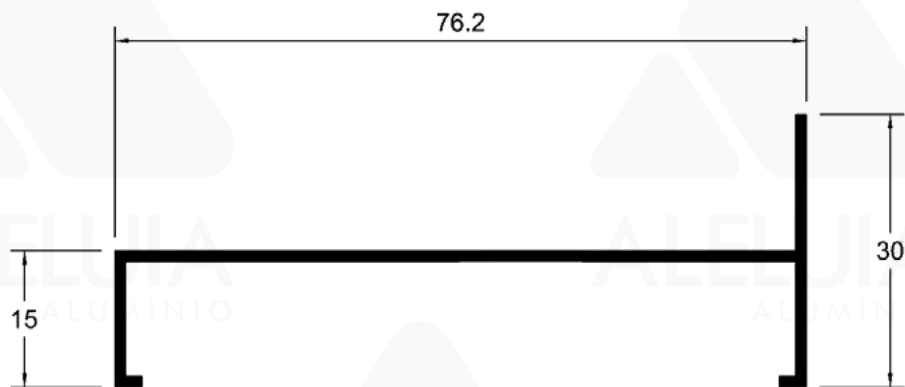
**28-010** (28-010 / 105) PESO: (Kg/m) 0,508



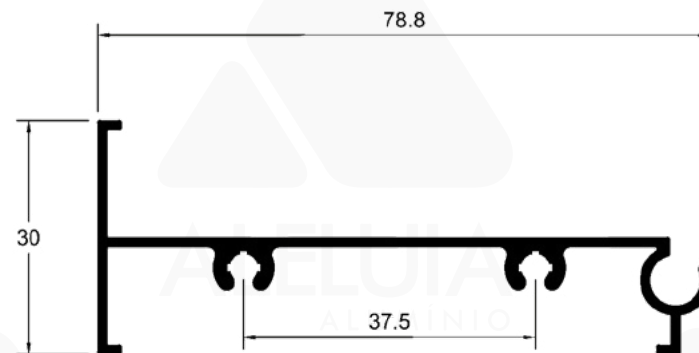
**28-011** PESO: (Kg/m) 0,235



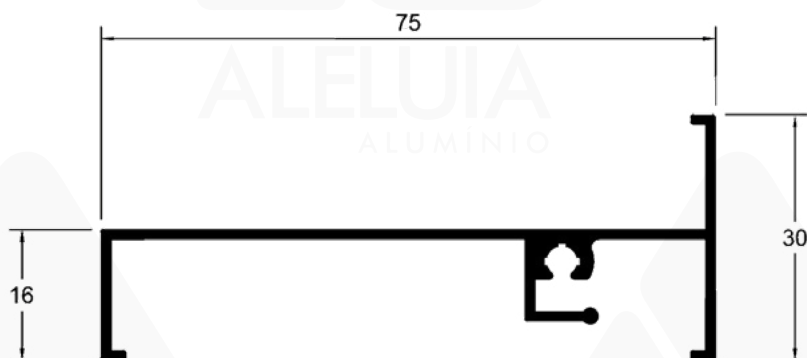
**28-012** PESO: (Kg/m) 0,503



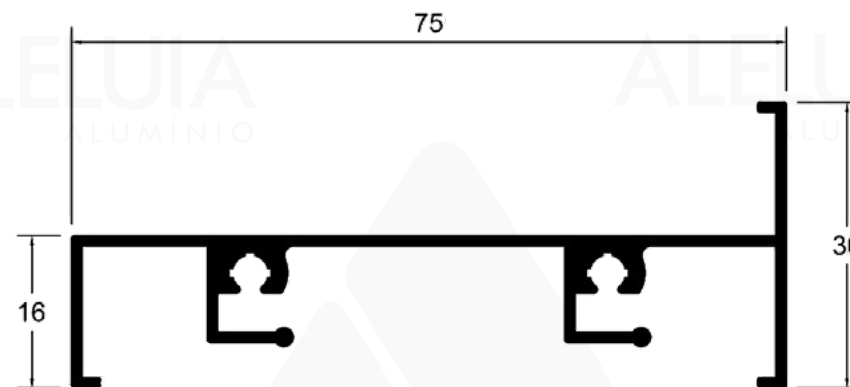
**28-029** PESO: (Kg/m) 0,397



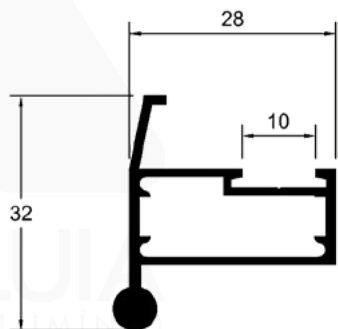
**28-049** (28-049) PESO: (Kg/m) 0,566



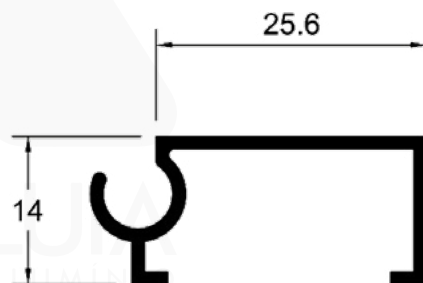
**28-057** PESO: (Kg/m) 0,519



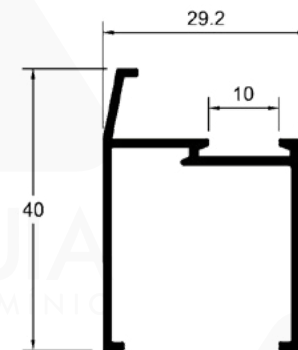
**28-056** (28-056) PESO: (Kg/m) 0,603



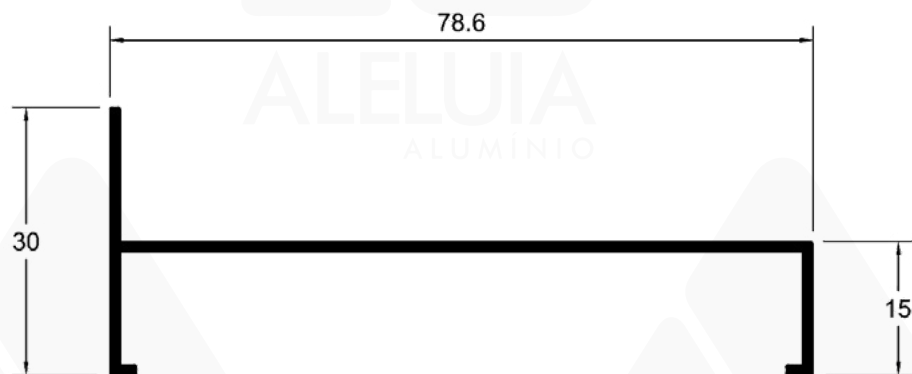
**28-048** (28-048) PESO: (Kg/m) 0,384



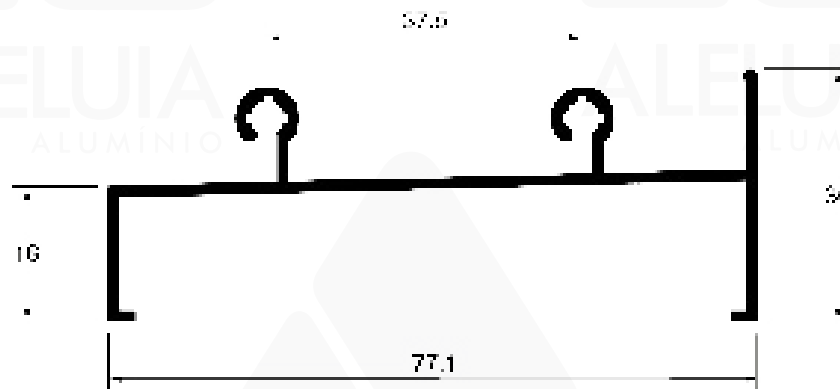
**28-051** PESO: (Kg/m) 0,214



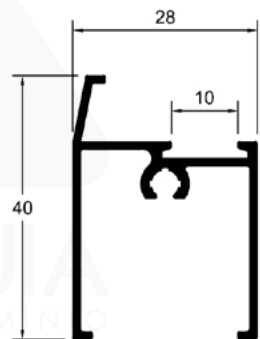
**28-066** (28-066) PESO: (Kg/m) 0,360



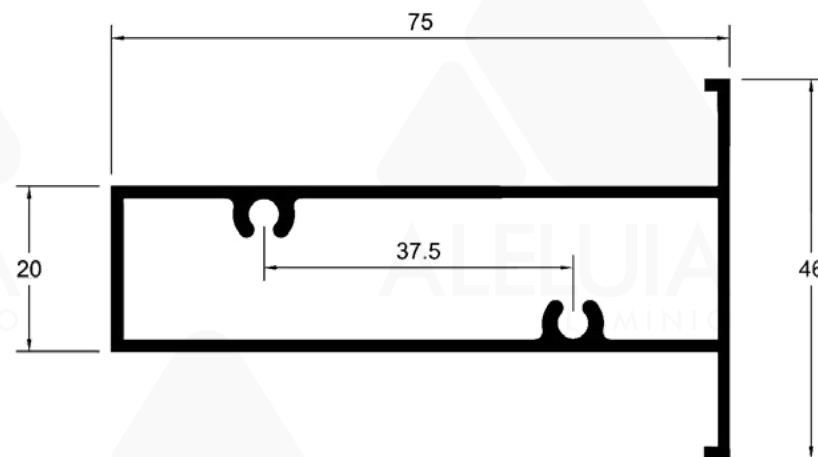
**28-058** (28-0058) PESO: (Kg/m) 0,406



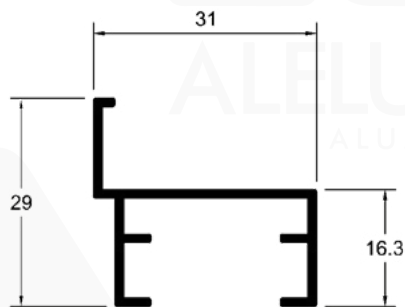
**28-059** (43-059) PESO: (Kg/m) 0,551



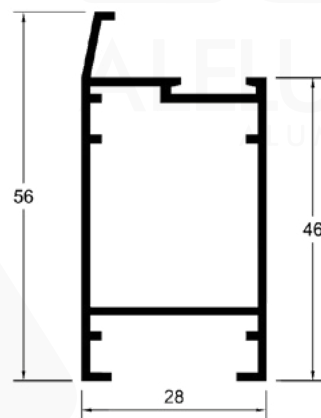
**28-073** (28-073) PESO: (Kg/m) 0,404



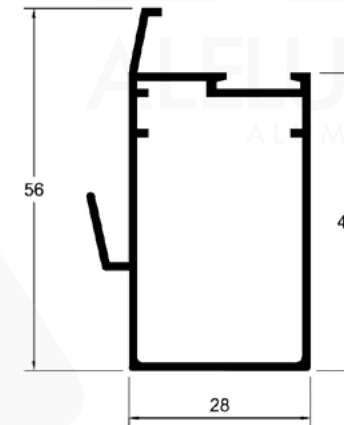
**28-205** PESO: (Kg/m) 0,913



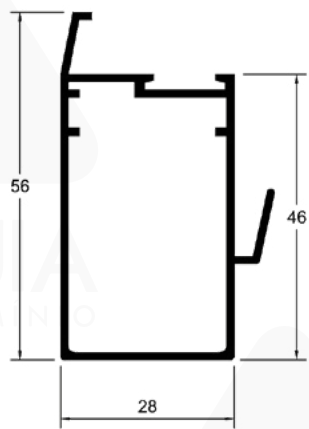
**28-500** (Y-627) PESO: (Kg/m) 0,295



**28-502** PESO: (Kg/m) 0,577

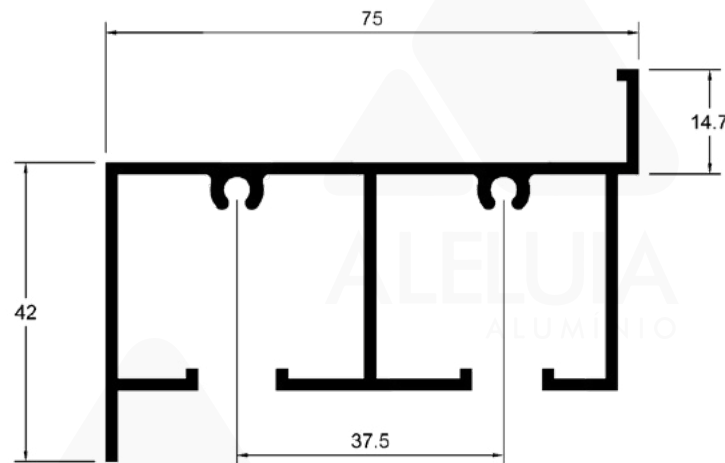


**28-503** PESO: (Kg/m) 0,593



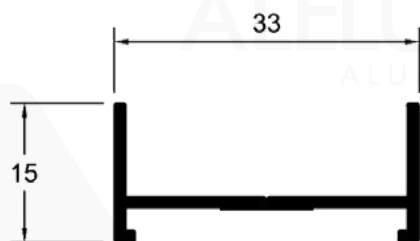
**28-506**

PESO:  
(Kg/m) 0,593



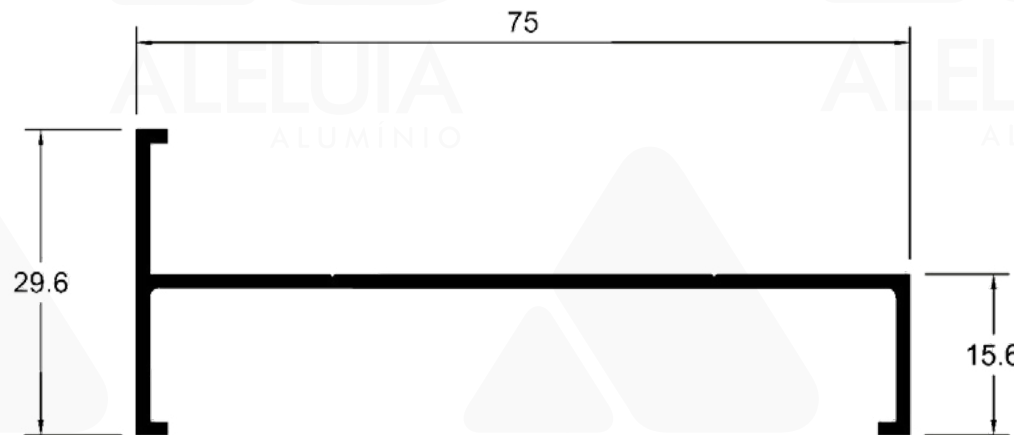
**28-520** (28-520)

PESO:  
(Kg/m) 1,162



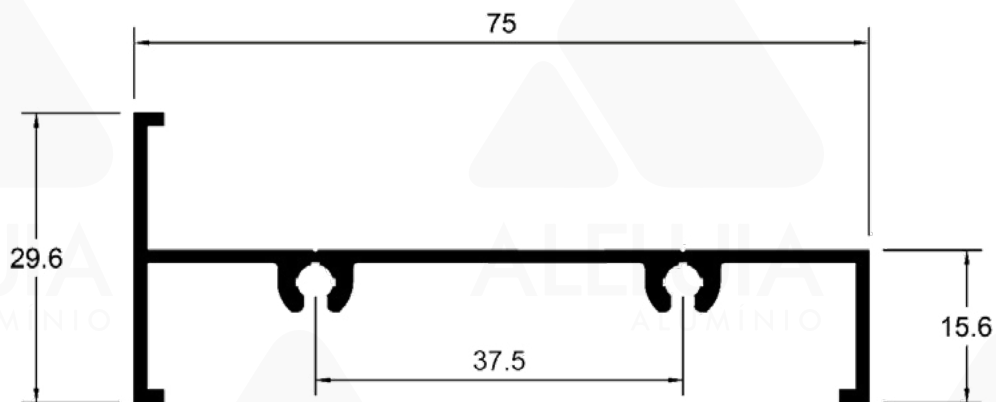
**28-514**

PESO:  
(Kg/m) 0,225

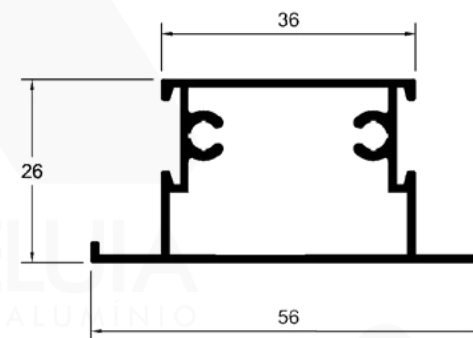


**28-523**

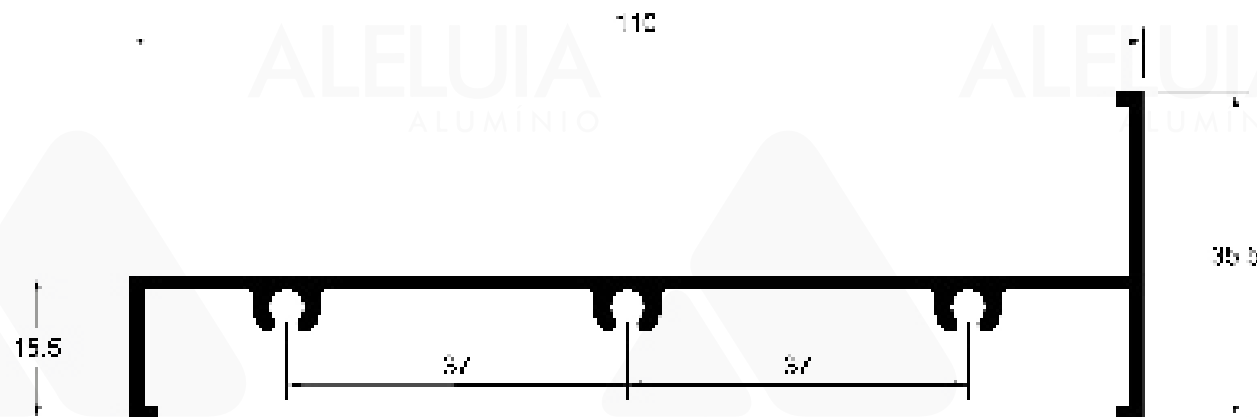
PESO:  
(Kg/m) 0,432



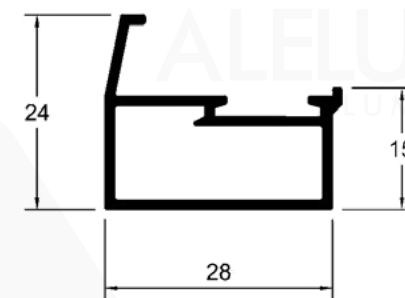
**28-525** (28-525 / PRO 36) PESO: 0,540  
(Kg/m)



**28-539** PESO: 0,562  
(Kg/m)

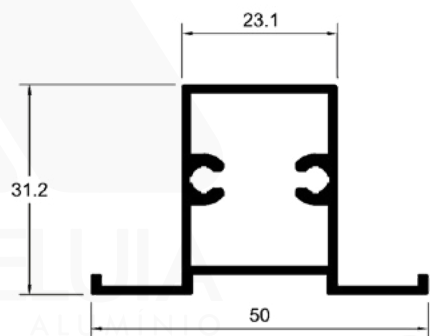


**28-532** (305) PESO: 0,801  
(Kg/m)

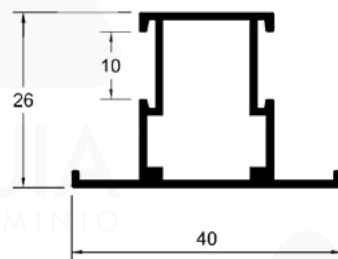


**28-899** (78-899) PESO: 0,328  
(Kg/m)

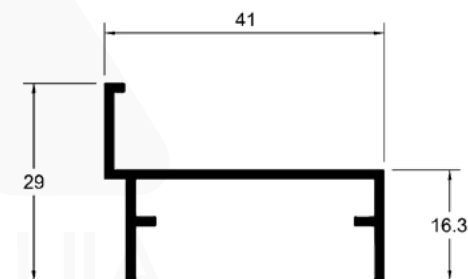




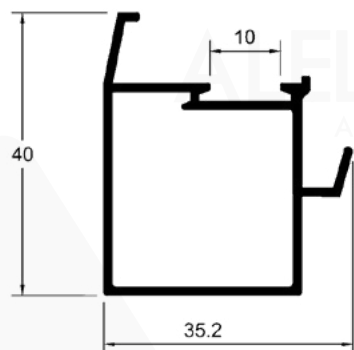
**28-900** PESO: (Kg/m) 0,582



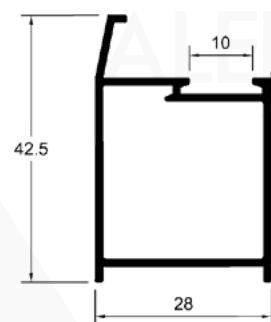
**28-928** (106) PESO: (Kg/m) 0,389



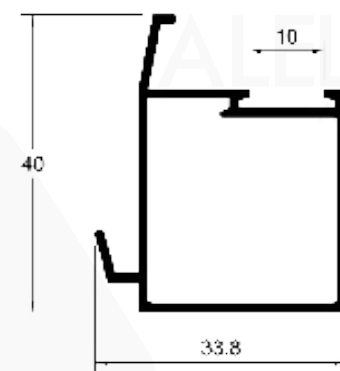
**28-942** PESO: (Kg/m) 0,345



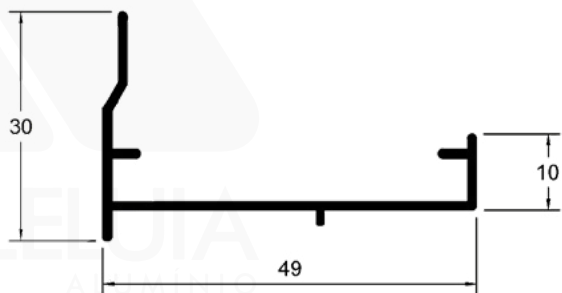
**28-970** (328-970) PESO: (Kg/m) 0,469



**28-971** (28-971) PESO: (Kg/m) 0,447



**28-977** (28-977) PESO: (Kg/m) 0,466



**28-998**

PESO:  
(Kg/m) 0,311



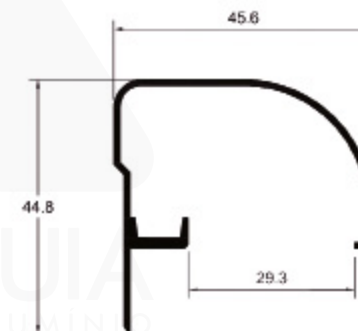
**BX-803**

PESO: 0,234  
(kg/m)



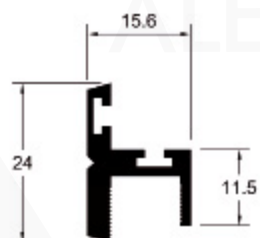
**BX-068**

PESO: 0,305  
(kg/m)



**BX-304**

PESO: 0,445  
(kg/m)



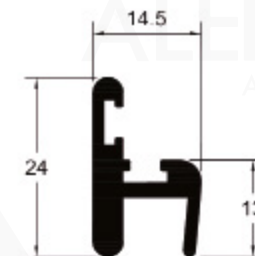
**BX-209**

PESO: 0,311  
(kg/m)



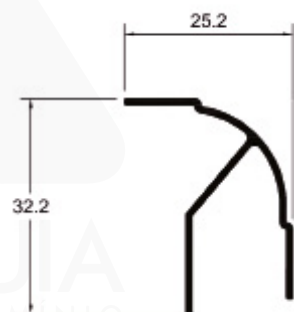
**BX-500**

PESO: 0,314  
(kg/m)



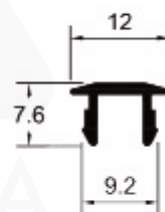
**BX-600**

PESO: 0,344  
(kg/m)



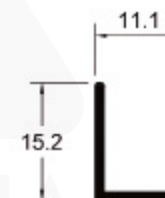
**BX-501**

PERFIL 0,208  
(Kg/m)



**BX-601**

PERFIL 0,082  
(Kg/m)



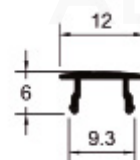
**BX-602**

PERFIL 0,126  
(Kg/m)



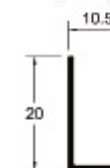
**BX-603**

PERFIL 0,233  
(Kg/m)



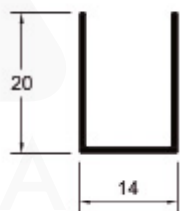
**BX-607**<sup>(BX-004)</sup>

PERFIL 0,051  
(Kg/m)



**BX-608**<sup>(BX-193)</sup>

PERFIL 0,118  
(Kg/m)



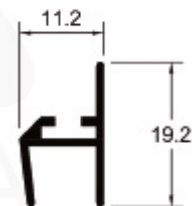
**BX-609** (BX-037)

PESO: 0,127 (kg/m)



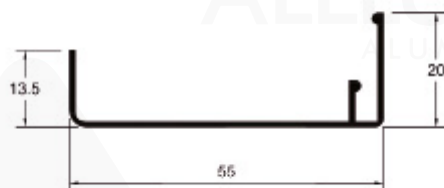
**BX-610** (BX-022)

PESO: 0,200 (kg/m)



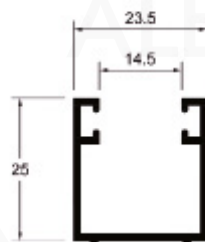
**BX-611**

PESO: 0,124 (kg/m)



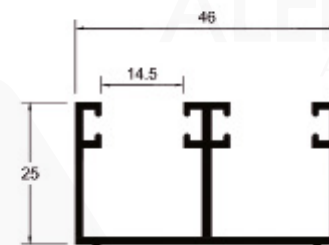
**BX-612**

PESO: 0,257 (kg/m)



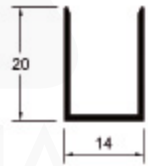
**BX-646**

PESO: 0,314 (kg/m)



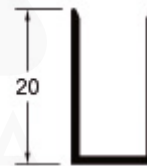
**BX-647**

PESO: 0,533 (kg/m)



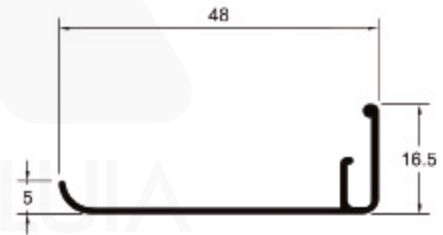
**BX-653**

PERFILADO 0,139  
(Kg/m)



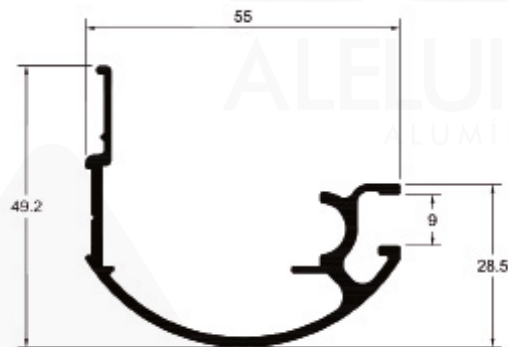
**BX-657**

PERFILADO 0,130  
(Kg/m)



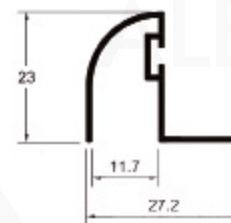
**BX-658**

PERFILADO 0,190  
(Kg/m)



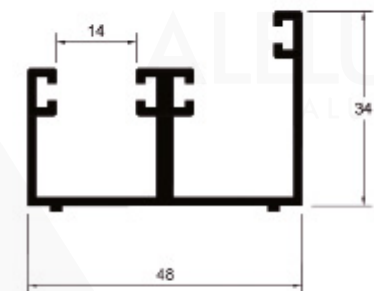
**BX-659**

PERFILADO 0,712  
(Kg/m)



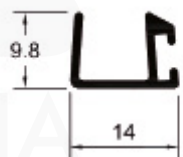
**BX-660**

PERFILADO 0,200  
(Kg/m)



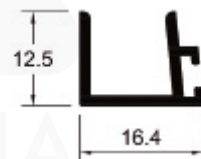
**BX-681**

PERFILADO 0,762  
(Kg/m)



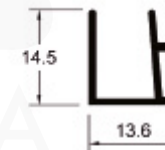
**BX-682**

PF50: 0,105  
(Kg/m)



**BX-685**

PF50: 0,158  
(Kg/m)



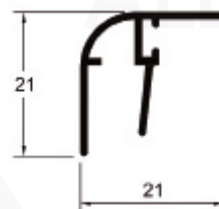
**BX-686**

PF50: 0,123  
(Kg/m)



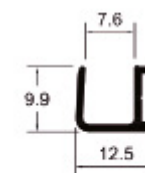
**BX-687**

PF50: 0,128  
(Kg/m)



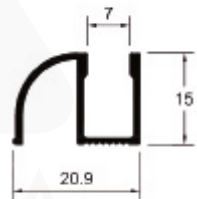
**BX-689**

PF50: 0,167  
(Kg/m)



**BX-690**

PF50: 0,233  
(Kg/m)



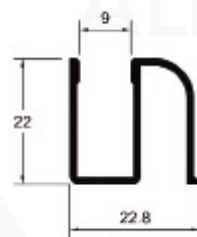
**BX-695** (CR-255)  
PESO: 0,183 (kg/m)



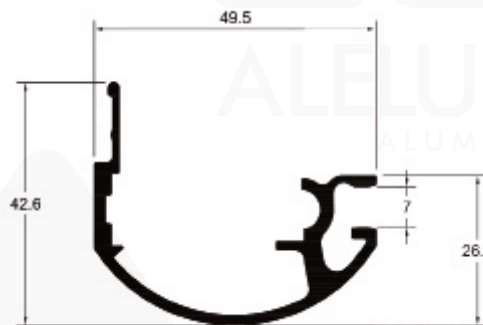
**BX-696**  
PESO: 0,093 (kg/m)



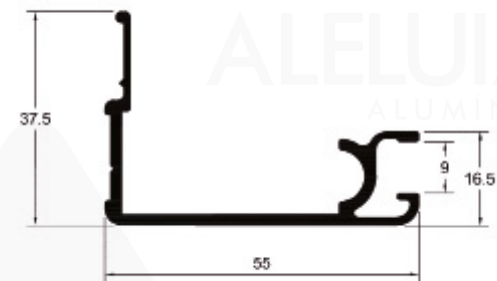
**BX-697** (CR-287)  
PESO: 0,085 (kg/m)



**BX-699**  
PESO: 0,275 (kg/m)

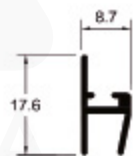


**BX-700** (CR-300)  
PESO: 0,718 (kg/m)

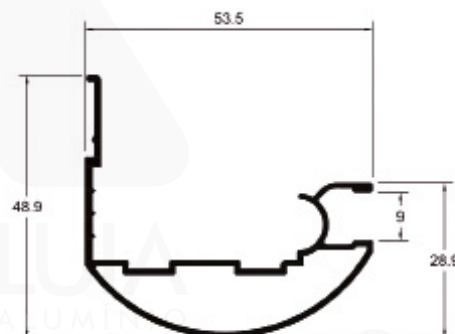


**BX-702**  
PESO: 0,626 (kg/m)

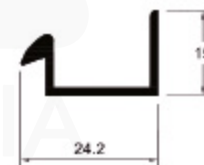




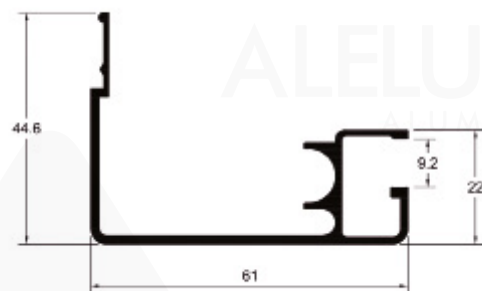
**BX-703** (CF-303)  
PESO: 0,112 (Kg/m)



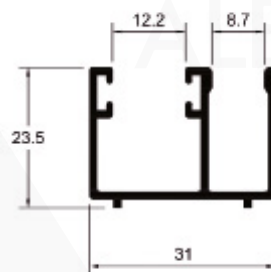
**BX-704** (SGG-04)  
PESO: 0,580 (Kg/m)



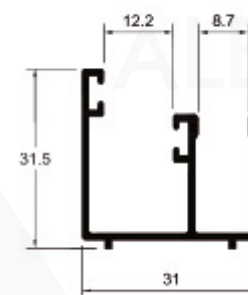
**BX-705** (SCS-000)  
PESO: 0,196 (Kg/m)



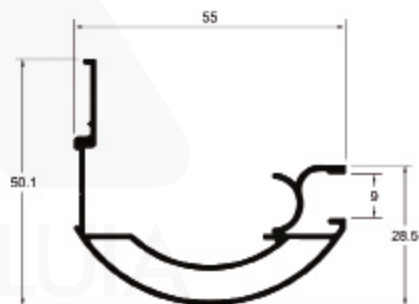
**BX-706**  
PESO: 0,686 (Kg/m)



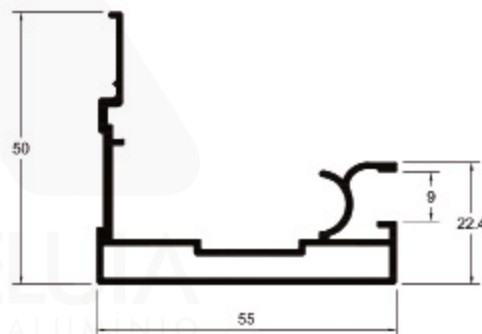
**BX-707**  
PESO: 0,377 (Kg/m)



**BX-708**  
PESO: 0,403 (Kg/m)



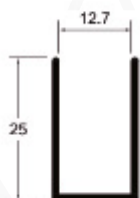
**BX-709** (MK-417)  
PESO: 0,621 (Kg/m)



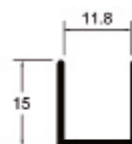
**BX-710**  
PESO: 0,731 (Kg/m)



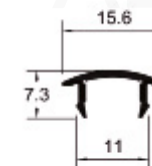
**BX-714**  
PESO: 0,192 (Kg/m)



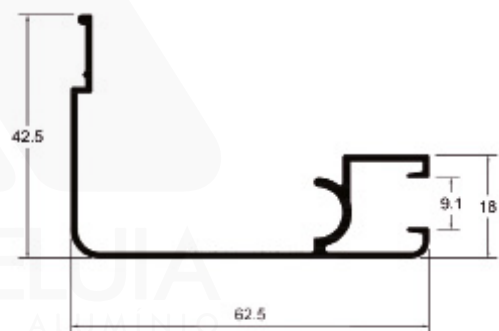
**BX-715**  
PESO: 0,194 (Kg/m)



**BX-716**  
PESO: 0,123 (Kg/m)

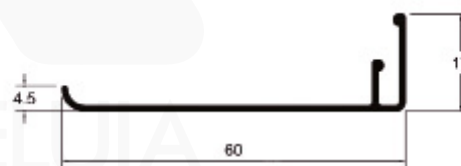


**BX-780**  
PESO: 0,068 (Kg/m)



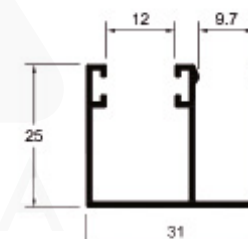
**BX-802**

PERFILADO 0,453  
Alumínio



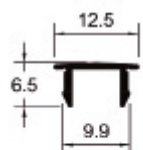
**BX-899**

PERFILADO 0,240  
Alumínio



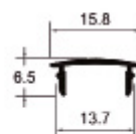
**BX-901**

PERFILADO 0,324  
Alumínio



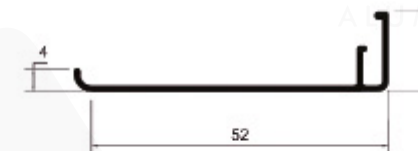
**BX-902**

PERFILADO 0,059  
Alumínio



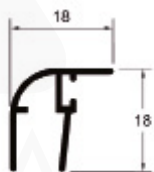
**BX-904**

PERFILADO 0,064  
Alumínio



**BX-909**

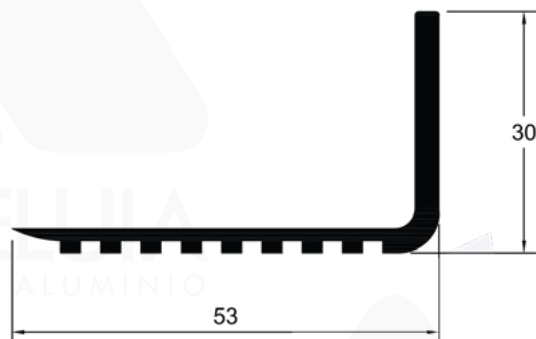
PERFILADO 0,213  
Alumínio



GC-657

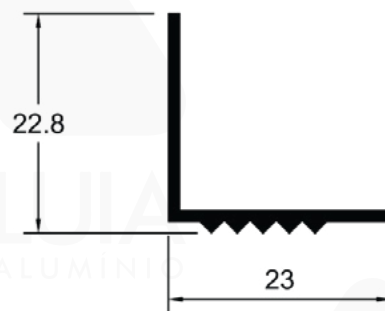
PERFIL 0,151





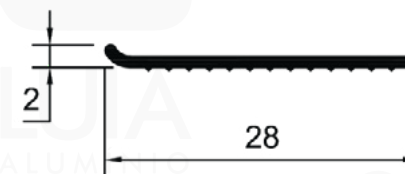
**CA-057**

PESO:  
(Kg/m) 0,525



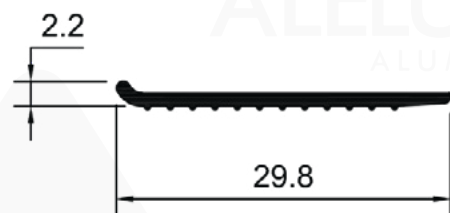
**CR-334**

PESO:  
(Kg/m) 0,160



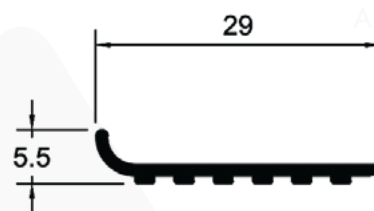
**FL-013**

PESO:  
(Kg/m) 0,079



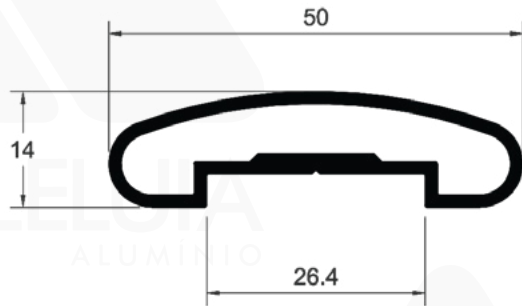
**FL-028**

PESO:  
(Kg/m) 0,100



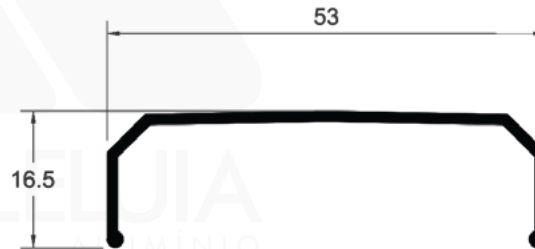
**FL-040**

PESO:  
(Kg/m) 0,125



**CG-003**

PESO: (Kg/m) 0,511



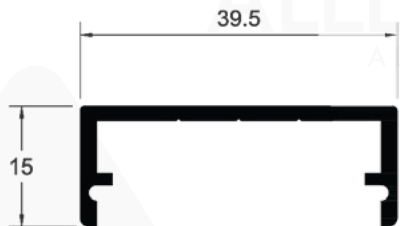
**CG-004**

PESO: (Kg/m) 0,277



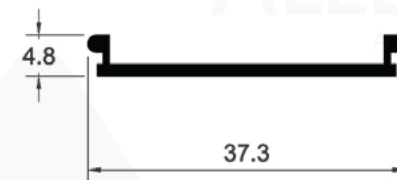
**CG-012** (CG-12 / D-055)

PESO: (Kg/m) 0,502



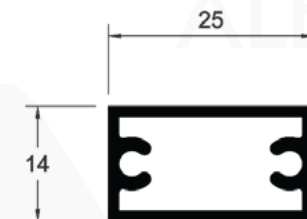
**CG-017** (CG-017)

PESO: (Kg/m) 0,341



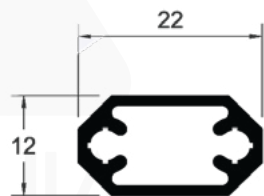
**CG-019** (CG-019)

PESO: (Kg/m) 0,163

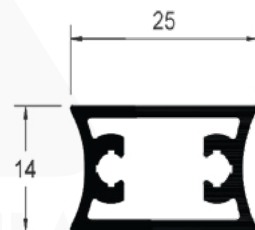


**CG-021** (CG-021)

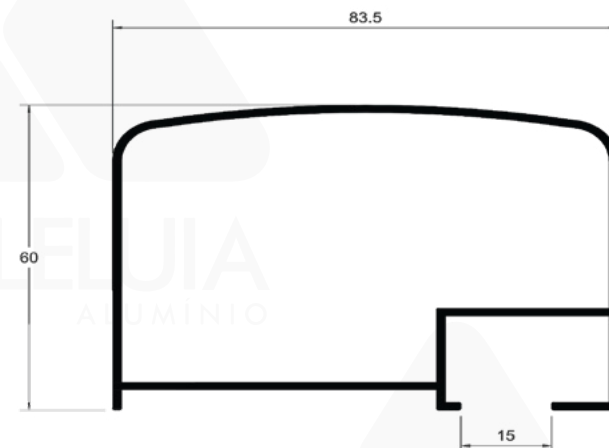
PESO: (Kg/m) 0,328



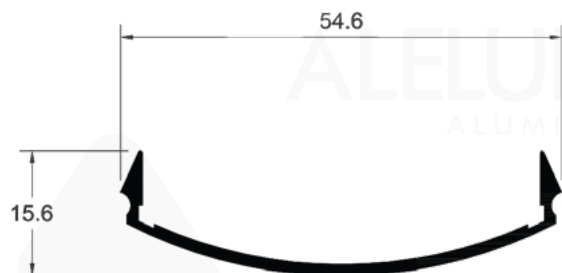
**CG-022** (CG-022) PESO: (Kg/m) 0,245



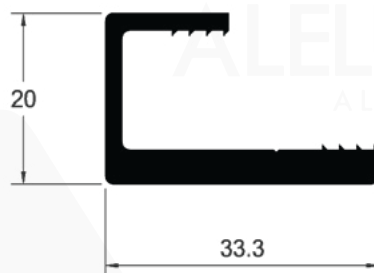
**CG-024** (CG-024 / D-056) PESO: (Kg/m) 0,354



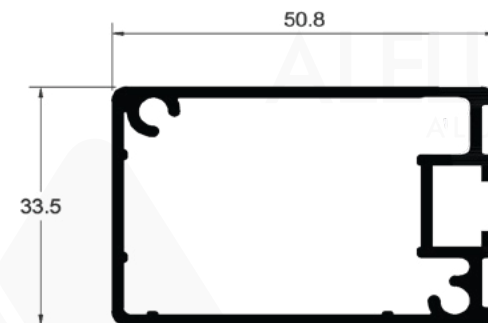
**CG-072** (CG-072) PESO: (Kg/m) 1,217



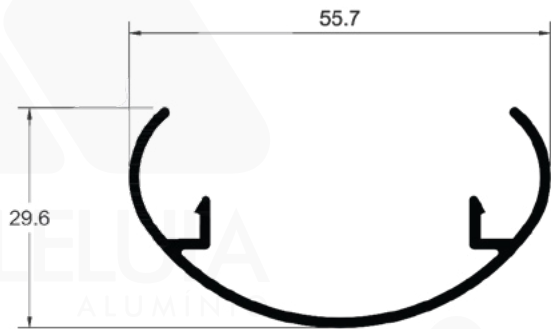
**CG-074** (CG-074) PESO: (Kg/m) 0,268



**CG-075** (CG-075) PESO: (Kg/m) 0,521

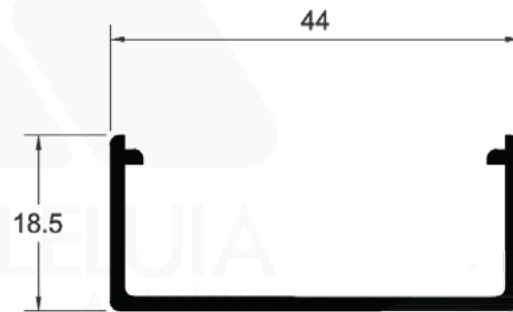


**CG-077** (P-281) PESO: (Kg/m) 0,840



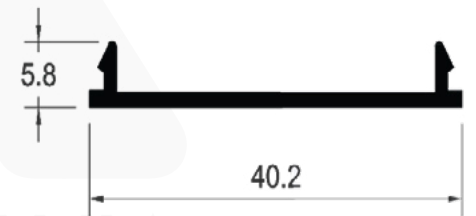
**CG-078**

PESO: 0,409  
(Kg/m)



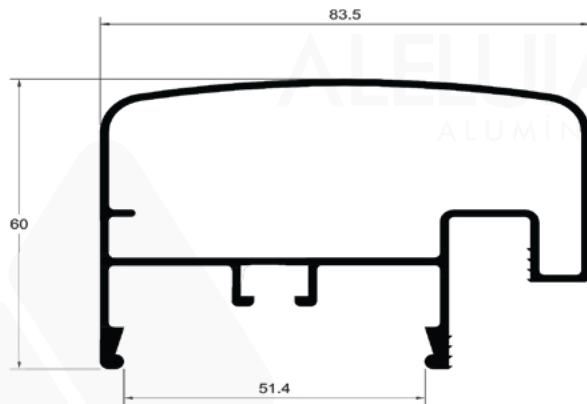
**CG-079**

PESO: 0,330  
(Kg/m)



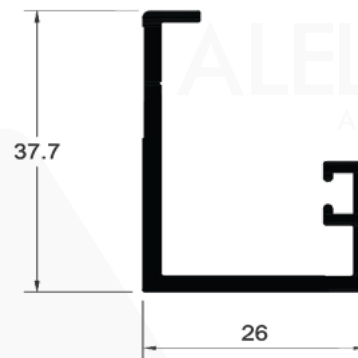
**CG-080**

PESO: 0,176  
(Kg/m)



**CG-083**

PESO: 1,346  
(Kg/m)



**CG-101 (CG-101)**

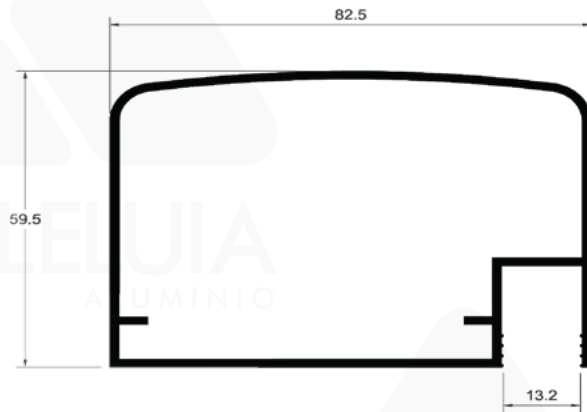
PESO: 0,473  
(Kg/m)



**CG-104 (CG-104)**

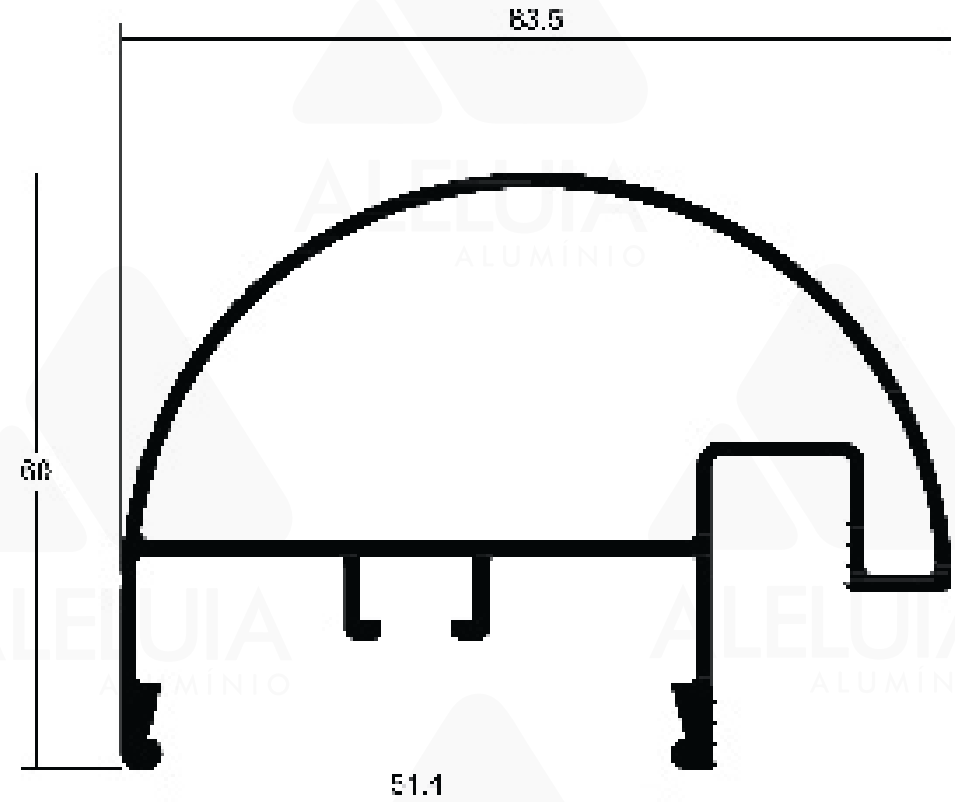
PESO: 0,798  
(Kg/m)





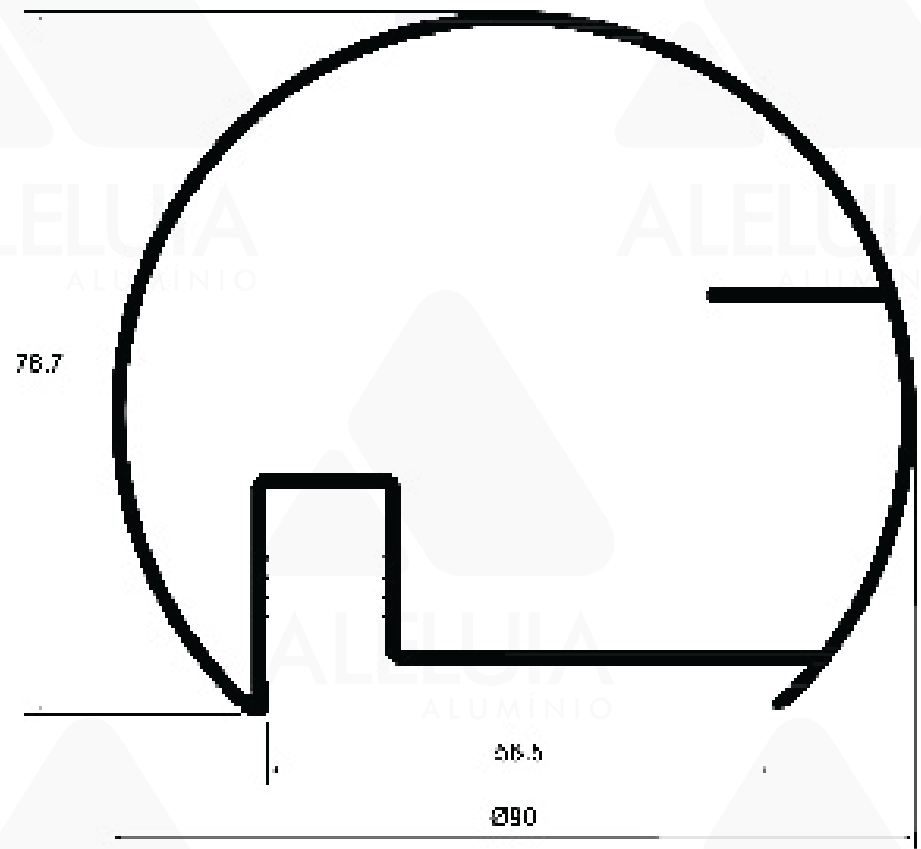
CG-106

PESO:  
(Kg/m) 1,292

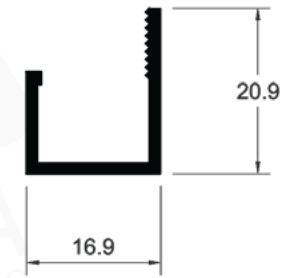


CG-502

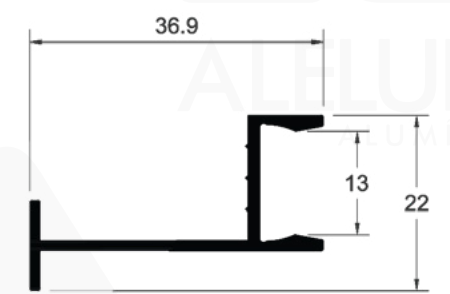
PESO:  
(Kg/m) 1,239



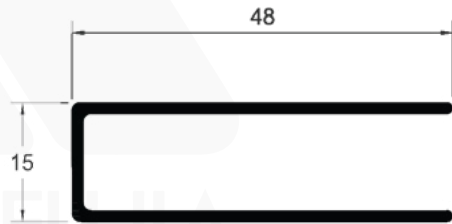
**CG-503** PESO: 1.355 (Kg/m)



**CG-505** PESO: 0,203 (Kg/m)



**CG-510** PESO: 0,266 (Kg/m)



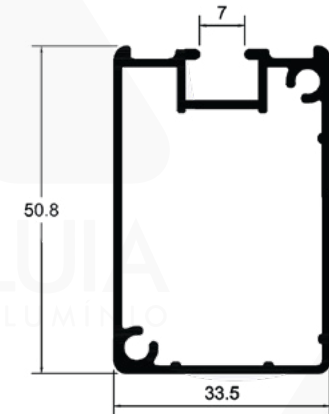
**CG-511**

PESO: 0,409  
(Kg/m)



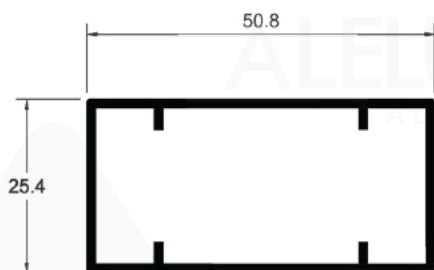
**CG-520**

PESO: 0,354  
(Kg/m)



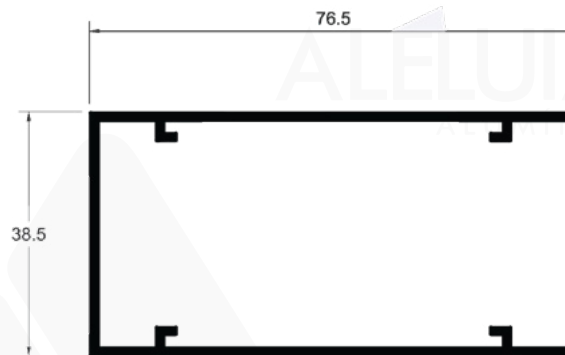
**CG-770**

PESO: 0,694  
(Kg/m)



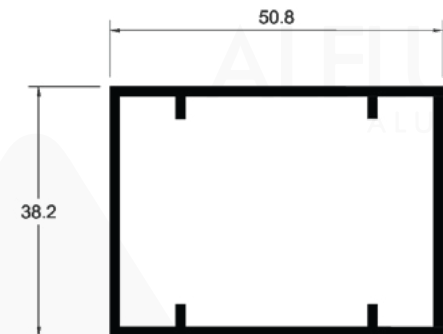
**PC-002**

PESO: 0,562  
(Kg/m)



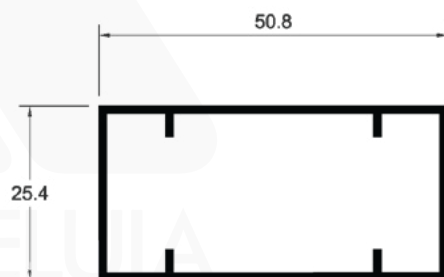
**PC-003**

PESO: 1,053  
(Kg/m)



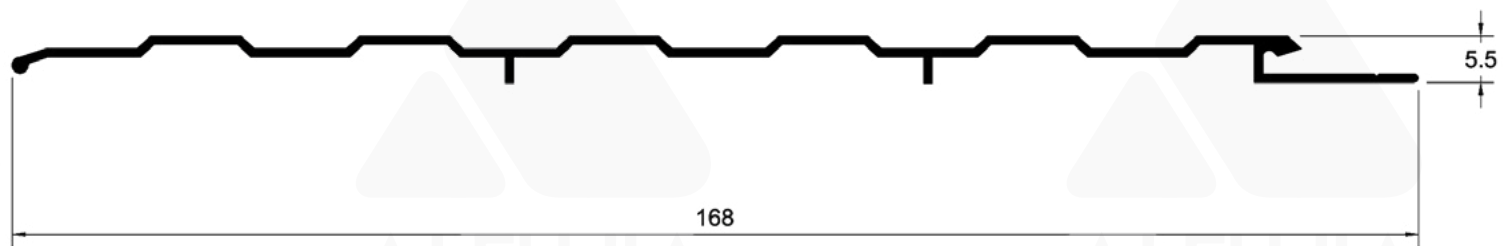
**PC-004**

PESO: 0,754  
(Kg/m)



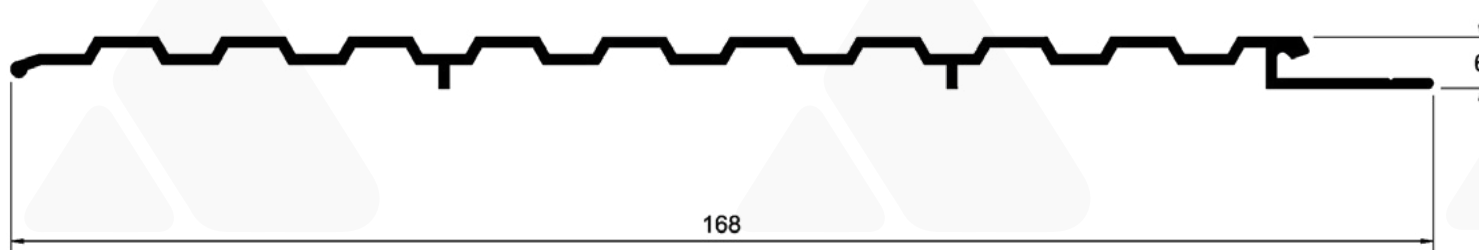
**PC-568**

PESO:  
(Kg/m) 0,502



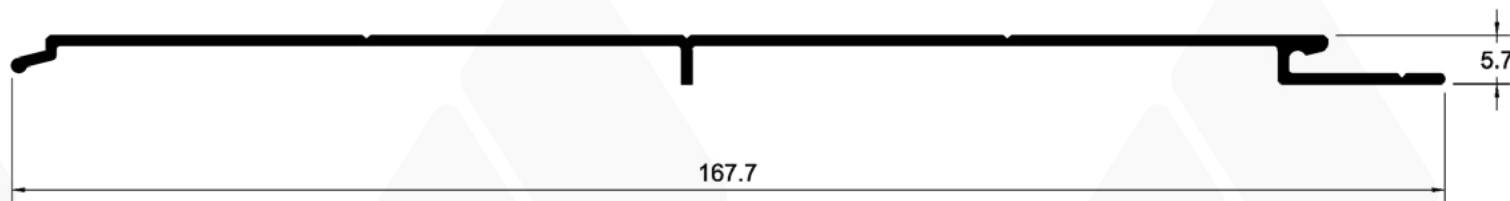
**LB-500**

PESO:  
(Kg/m) 0,526



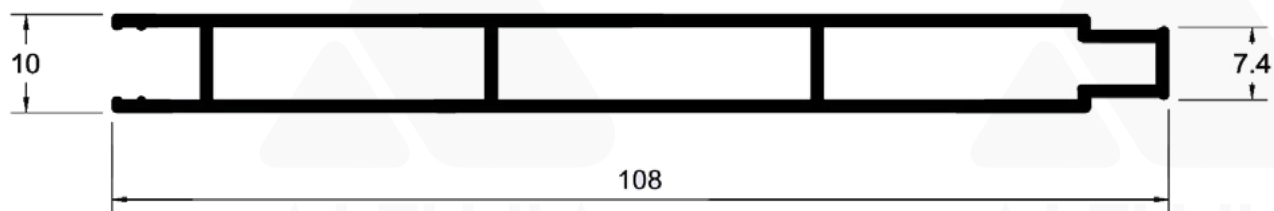
**LB-501**

PESO:  
(Kg/m) 0,672



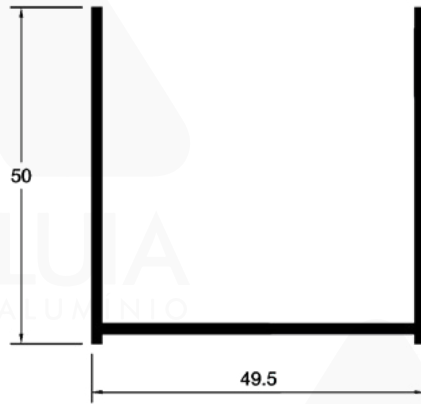
**LB-502**

PESO:  
(Kg/m) 0,602



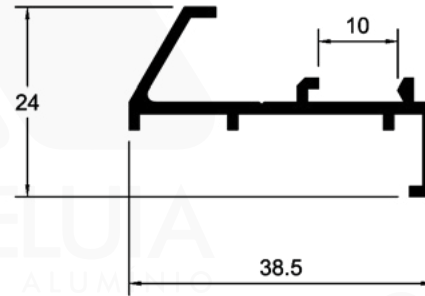
**LB-600**

PESO: 0,869  
(Kg/m)



**CR-118**

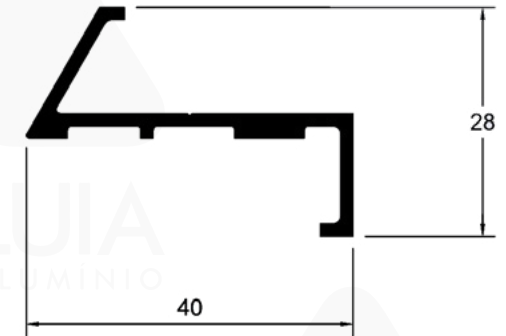
PESO: 0,595  
(Kg/m)



**CR-159**

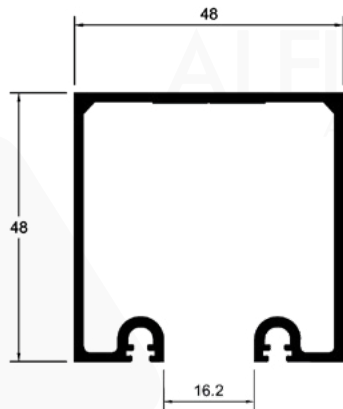
(Z-063)

PESO: 0,307  
(Kg/m)



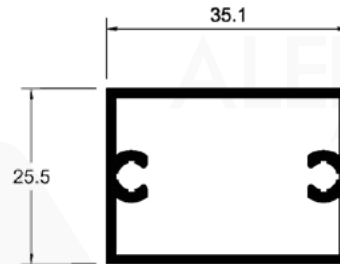
**CR-162**

PESO: 0,353  
(Kg/m)



**CR-287**

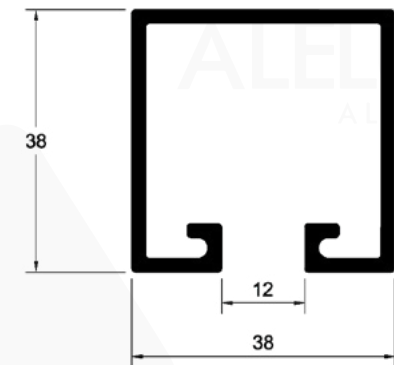
PESO: 0,882  
(Kg/m)



**CG-012**

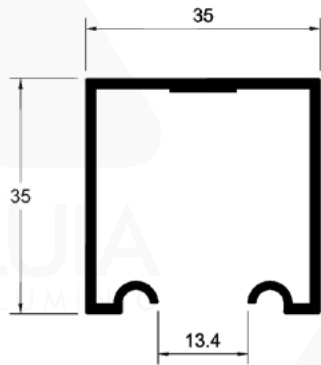
(CG-12 / D-055)

PESO: 0,502  
(Kg/m)



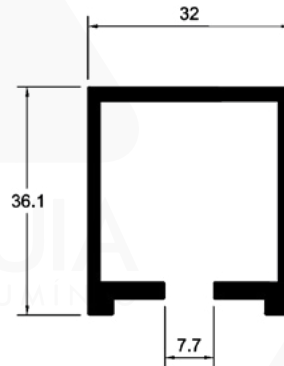
**DS-152**

PESO: 0,806  
(Kg/m)



**DS-266**

PESO:  
(Kg/m) 0,514



**R-159**

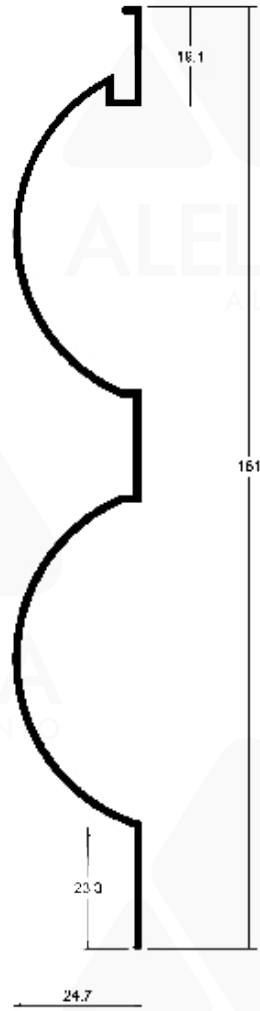
PESO:  
(Kg/m) 0,742





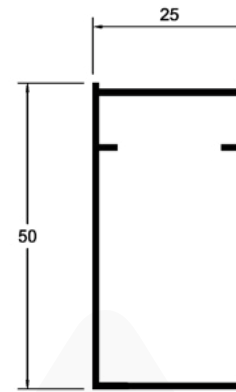
**LB-380**

PESO: 0,822  
(Kg/m)



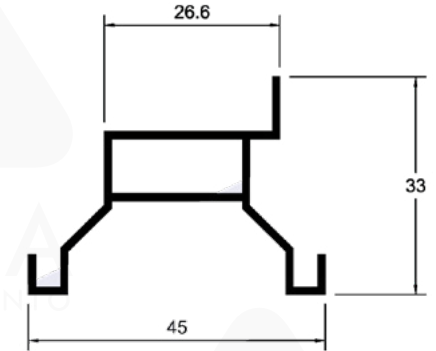
**LB-510**

PESO: 0,925  
(Kg/m)



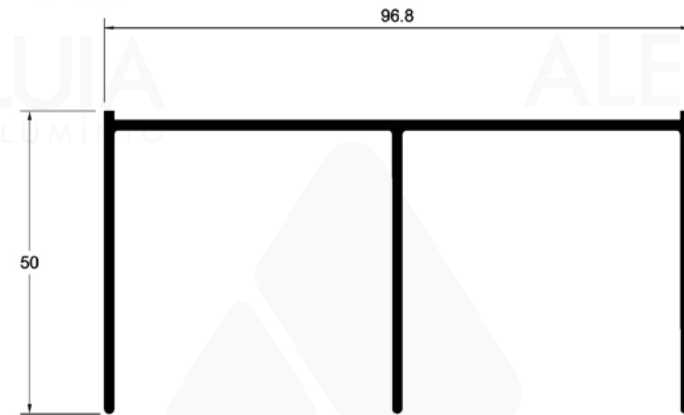
**R-132**

PESO: 0,411  
(Kg/m)



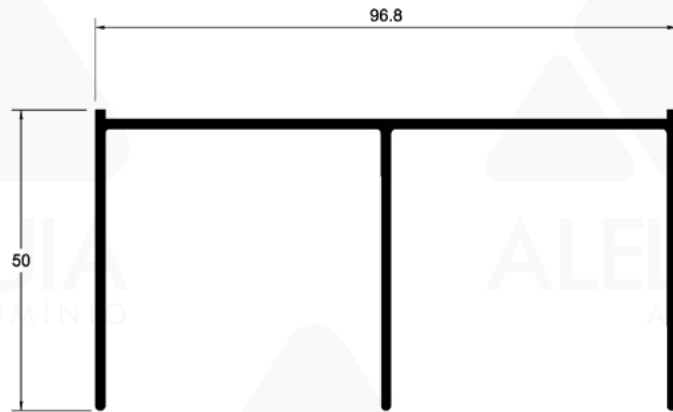
**R-133 (28-007)**

PESO: 0,378  
(Kg/m)



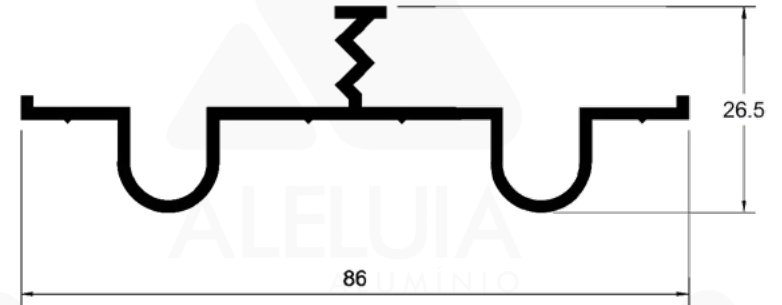
**PC-001**

PESO: 1,041  
(Kg/m)



PC-001

PESO:  
(Kg/m) 1,041



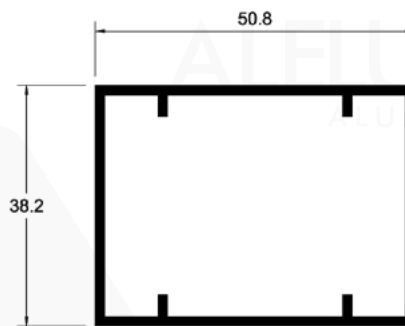
PC-005

PESO:  
(Kg/m) 0,609



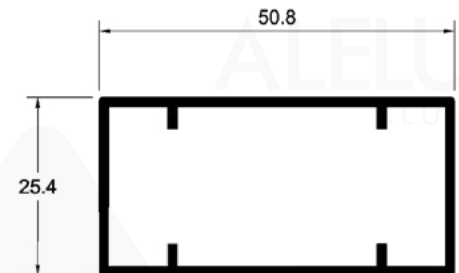
PC-003

PESO:  
(Kg/m) 1,053



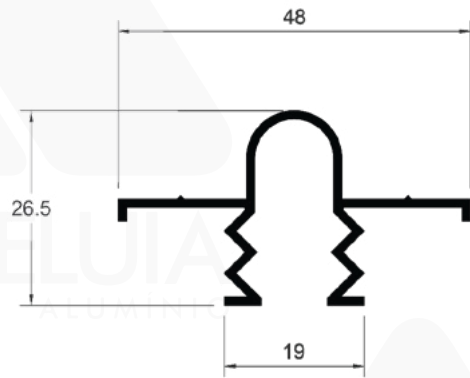
PC-004

PESO:  
(Kg/m) 0,754



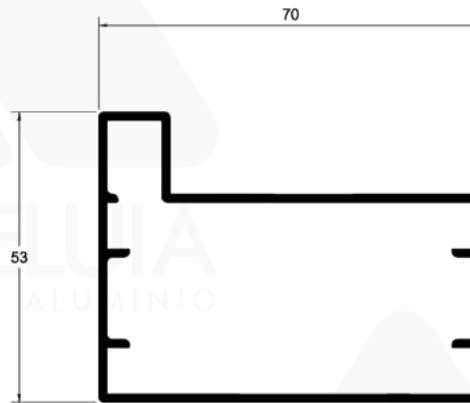
PC-002

PESO:  
(Kg/m) 0,562



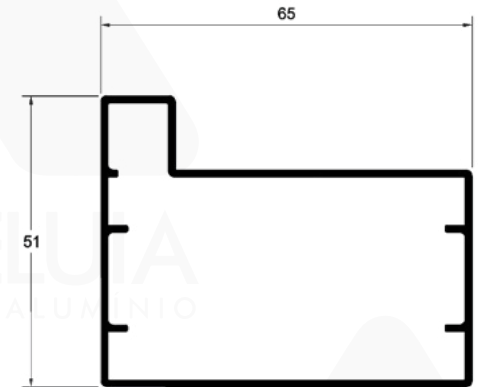
**PC-006**

PESO:  
(Kg/m) 0,346



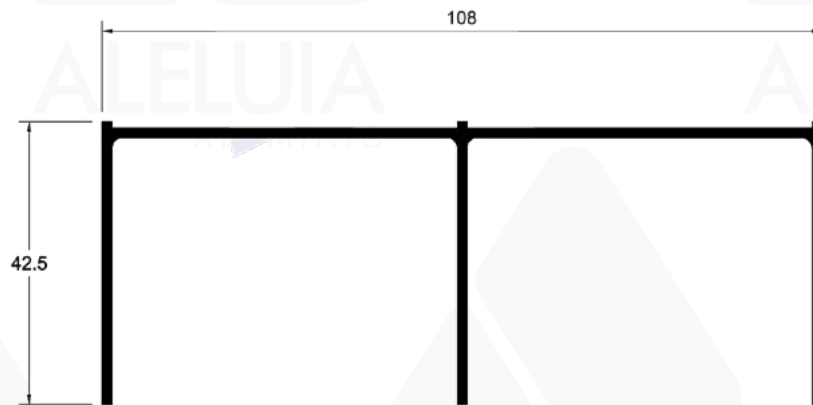
**PC-010**

PESO:  
(Kg/m) 1,046



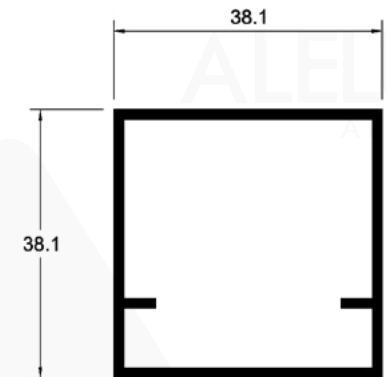
**PC-027**

PESO:  
(Kg/m) 0,789



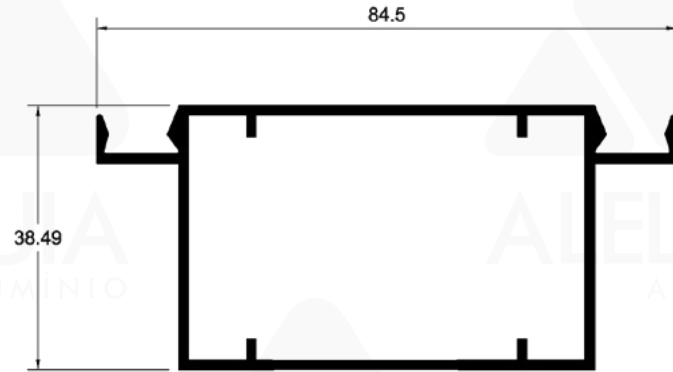
**PC-022**

PESO:  
(Kg/m) 0,944



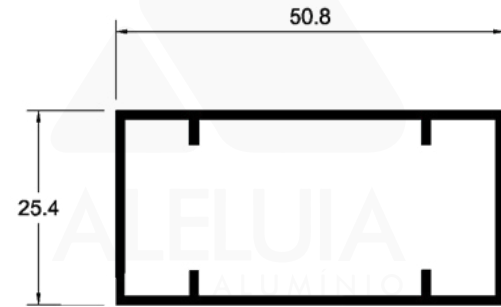
**PC-102 (D-102)**

PESO:  
(Kg/m) 0,591



**PC-501**

PESO:  
(Kg/m) 0,934



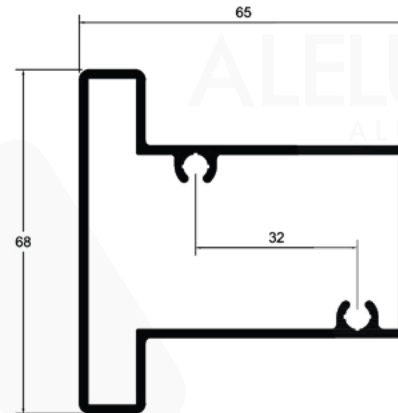
**PC-568**

PESO:  
(Kg/m) 0,502



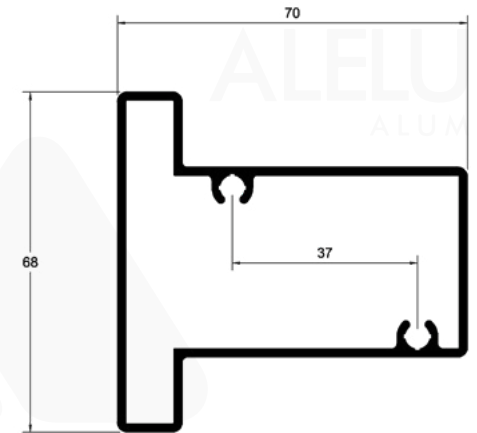
**PC-580**

PESO:  
(Kg/m) 0,857



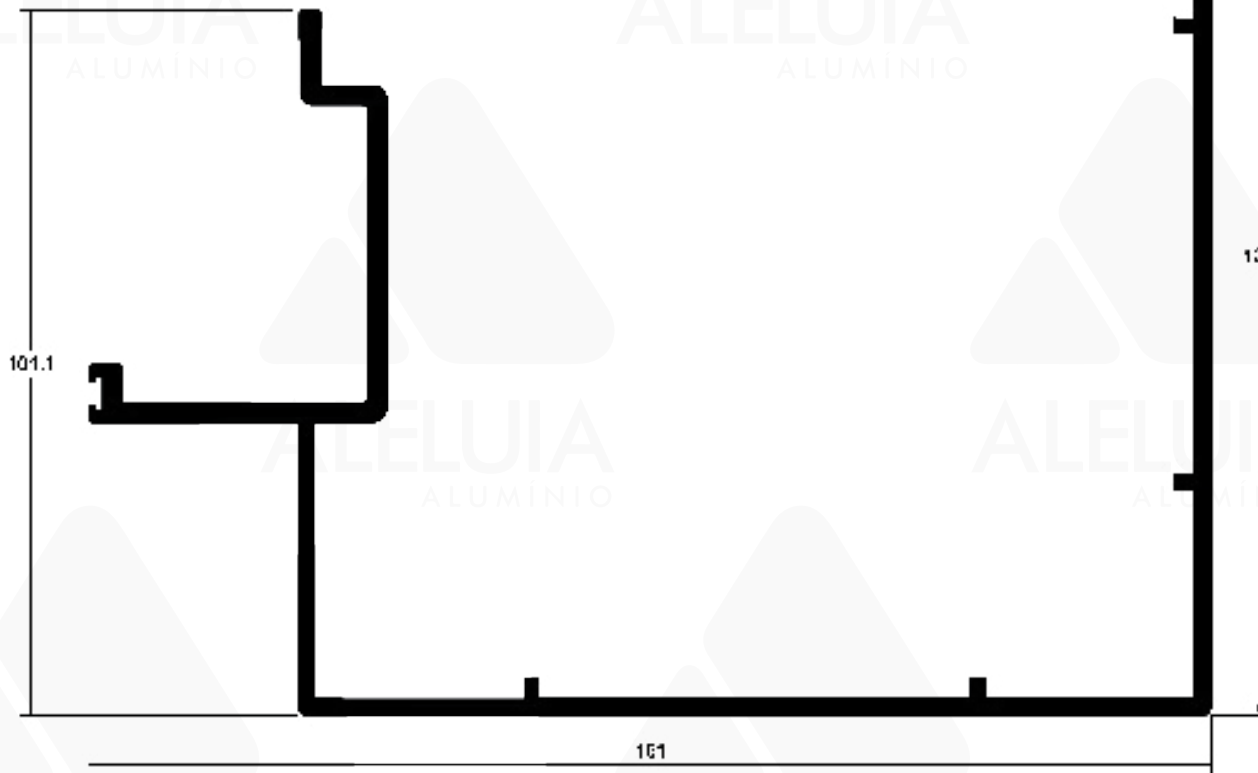
**PC-590**

PESO:  
(Kg/m) 1,291

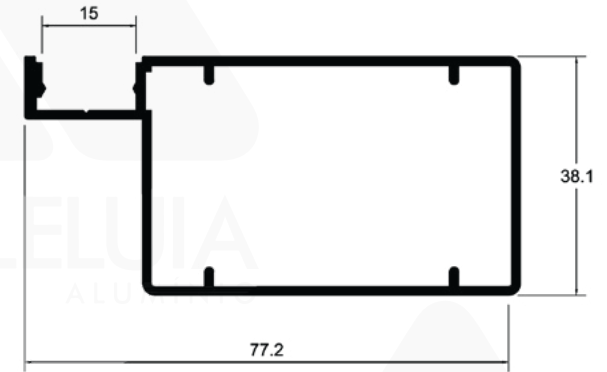


**PC-600**

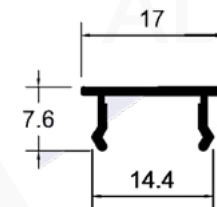
PESO:  
(Kg/m) 1,337



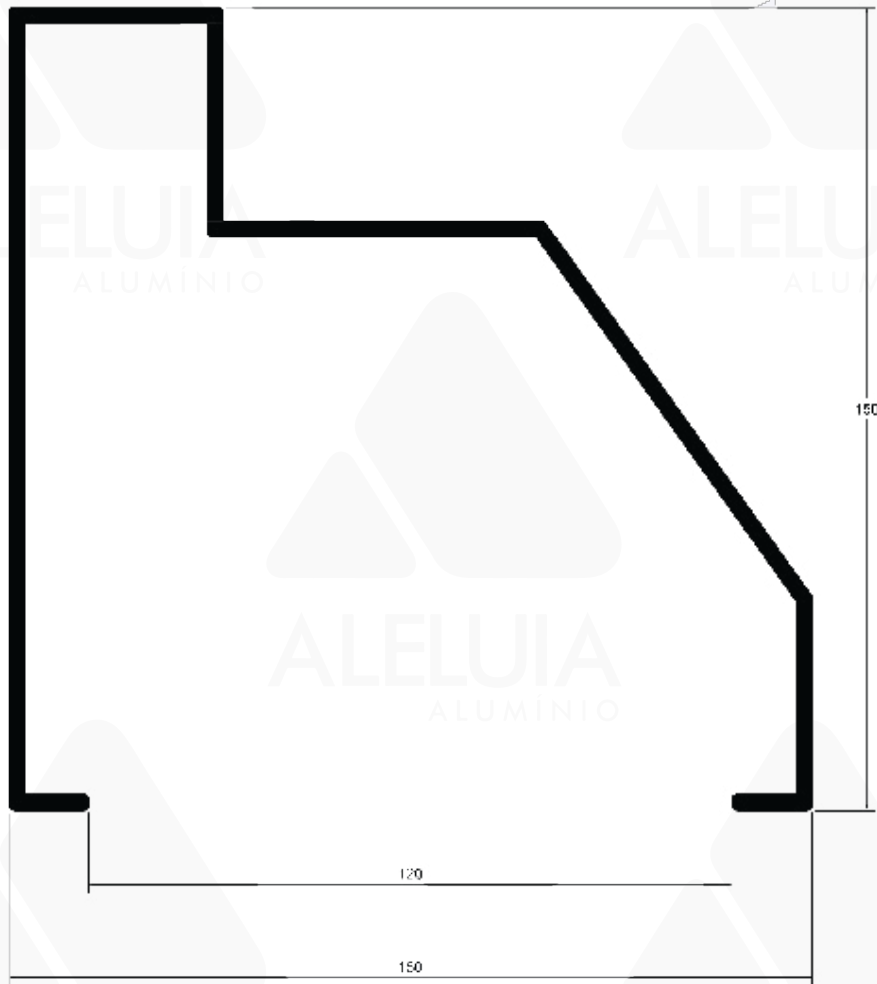
**PC-601** PESO: 3,075 (Kg/m)



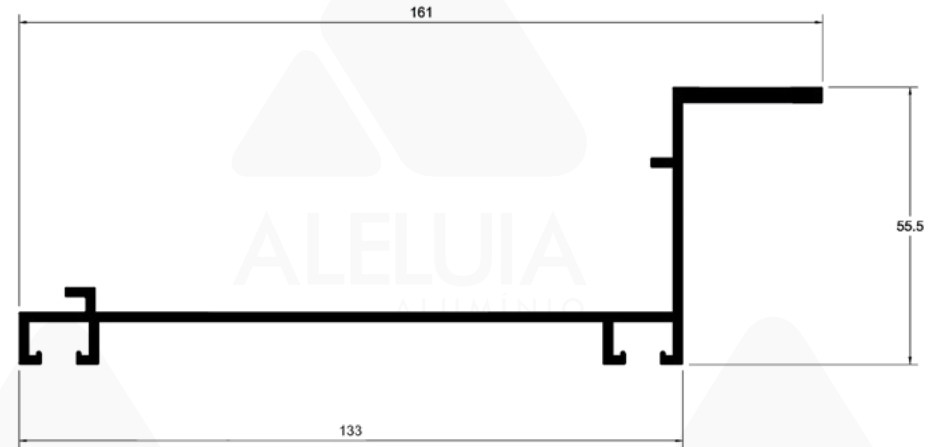
**PC-604** PESO: 0,897 (Kg/m)



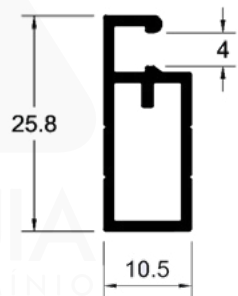
**PC-605** PESO: 0,081 (Kg/m)



**PC-603** PESO: 3,527  
:Kg/m

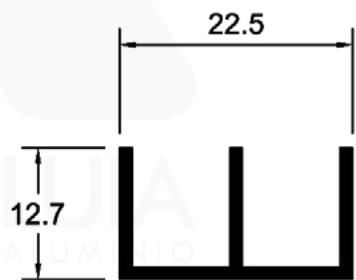


**PC-602** PESO: 1,521  
(Kg/m)

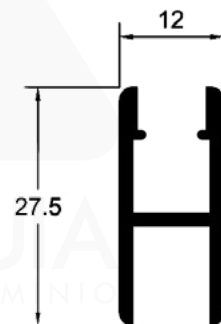


**R-164**

PESO:  
(Kg/m) 0,234



**CA-058** PESO: (Kg/m) 0,185



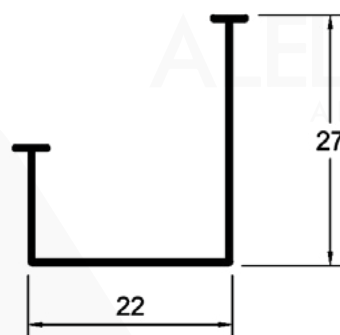
**CA-066** PESO: (Kg/m) 0,275



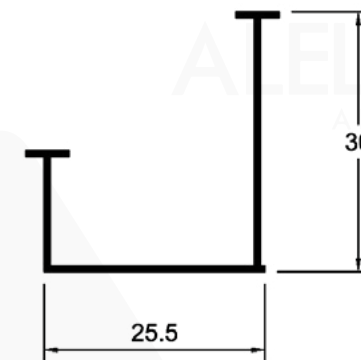
**DS-023** (DS-023) PESO: (Kg/m) 0,095



**DS-285** (DS-285) PESO: (Kg/m) 0,100

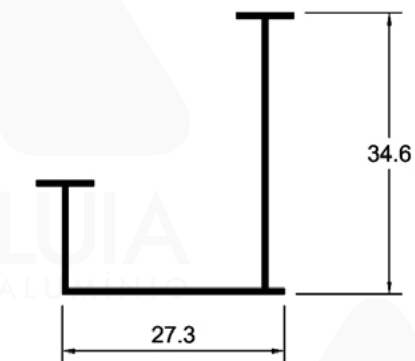


**FL-001** PESO: (Kg/m) 0,129

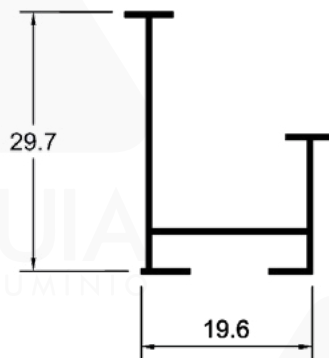


**FL-002** PESO: (Kg/m) 0,145

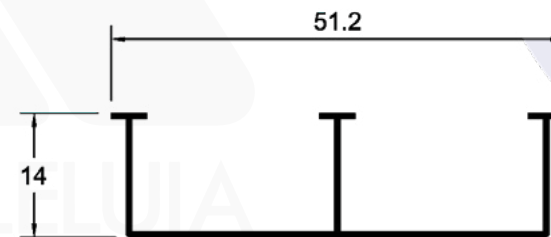




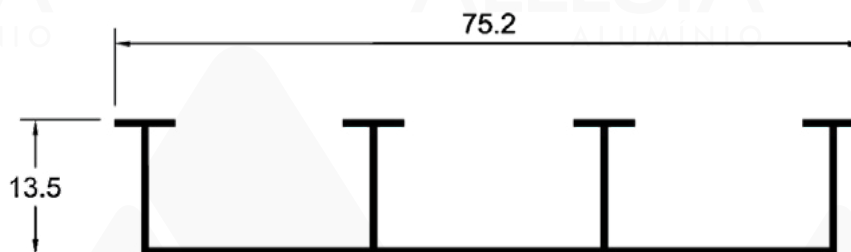
**FL-003** PESO: (Kg/m) 0,165



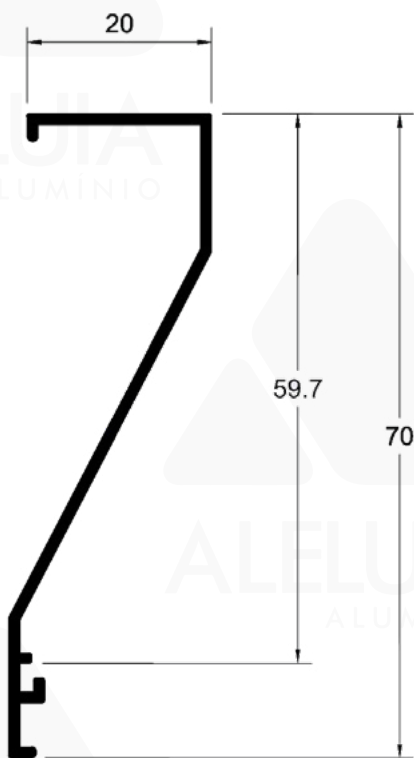
**FL-004** PESO: (Kg/m) 0,134



**FL-005** PESO: (Kg/m) 0,159

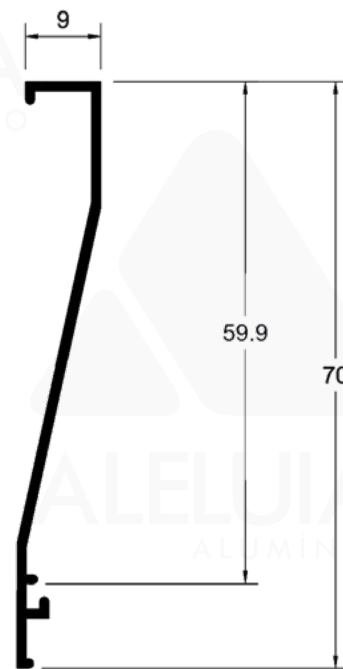


**FL-006** PESO: (Kg/m) 0,232



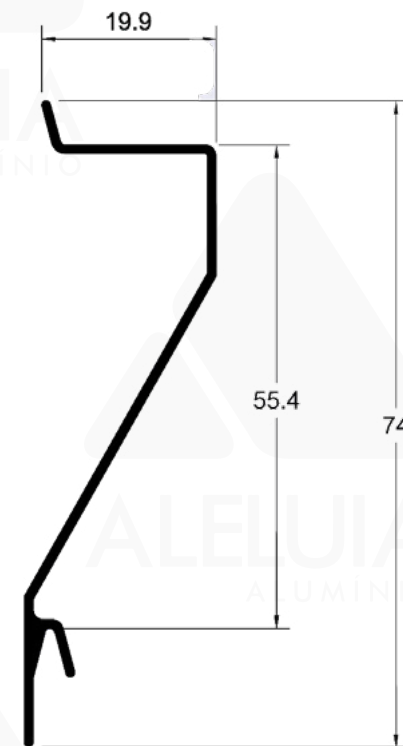
**VZ-001**

PESO: 0,333  
(Kg/m)



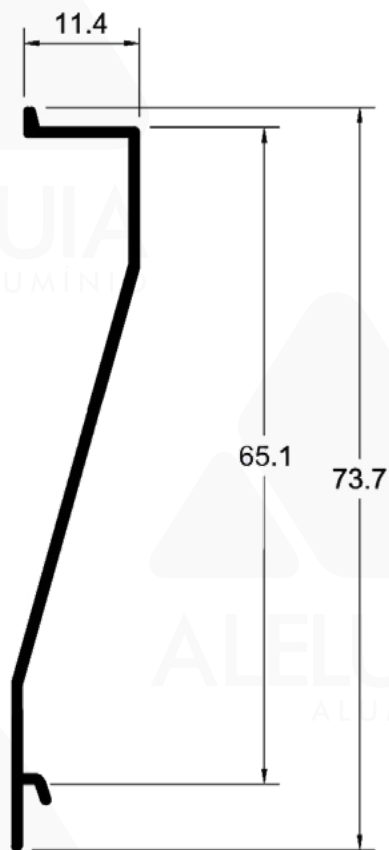
**VZ-004**

PESO: 0,268  
(Kg/m)

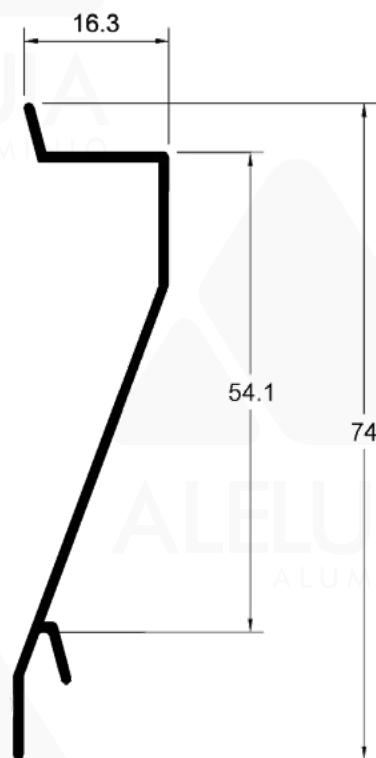


**VZ-006**

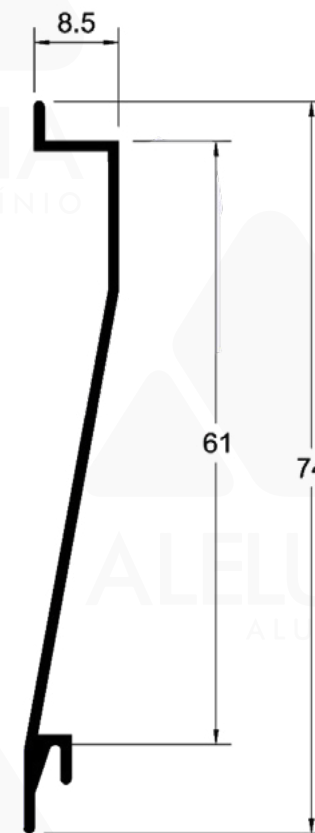
PESO: 0,297  
(Kg/m)



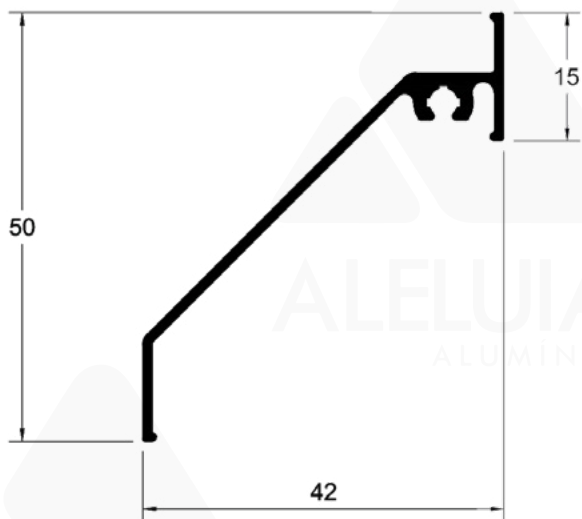
**VZ-015** PESO: 0,258  
(Kg/m)



**VZ-023** (VZ-023) PESO: 0,284  
(Kg/m)

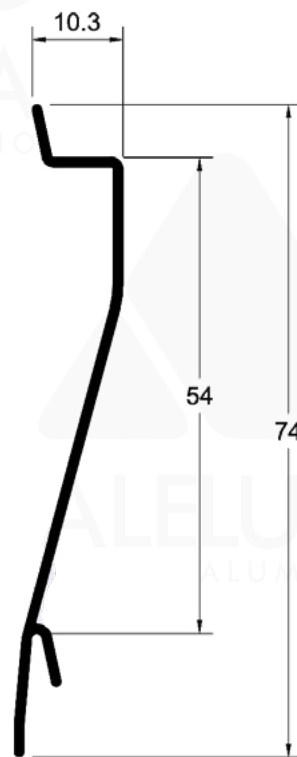


**VZ-024** PESO: 0,253  
(Kg/m)



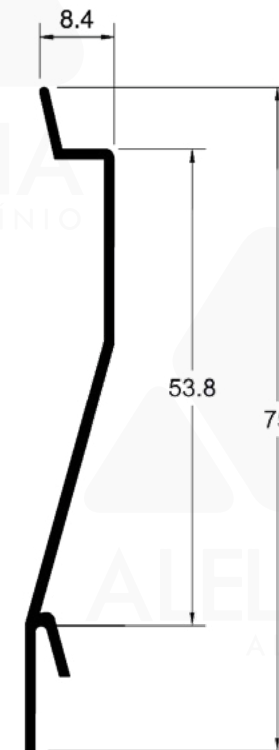
**VZ-047**

PESO: 0,297  
(Kg/m)



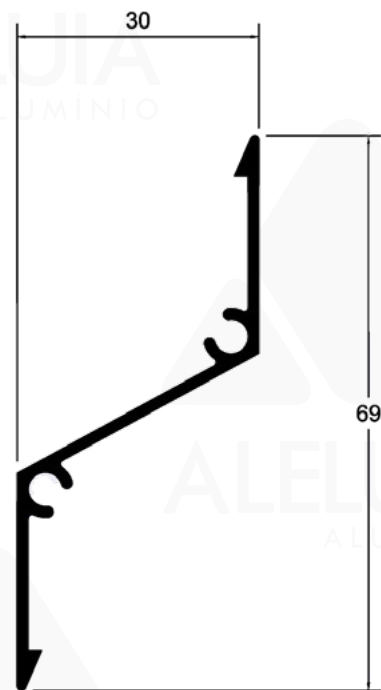
**VZ-051** (VZ-051)

PESO: 0,268  
(Kg/m)

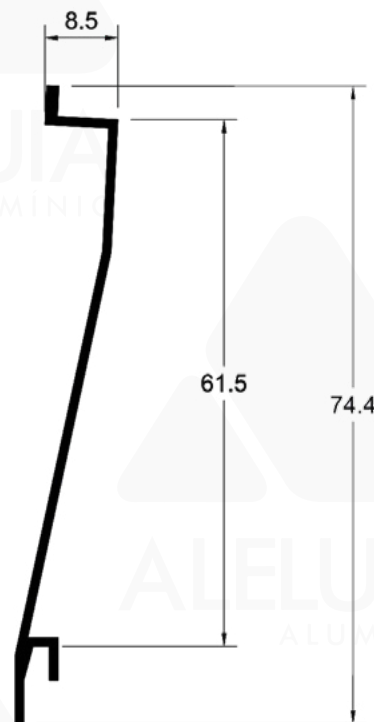


**VZ-058**

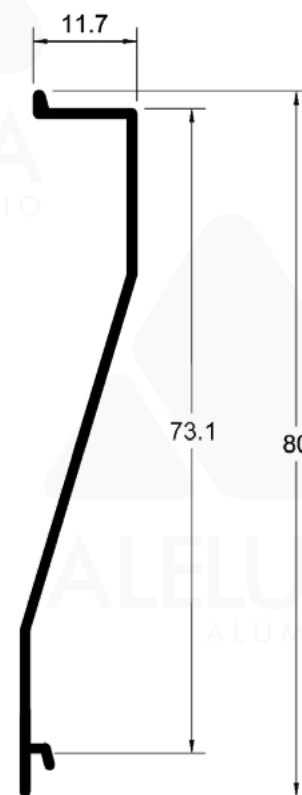
PESO: 0,272  
(Kg/m)



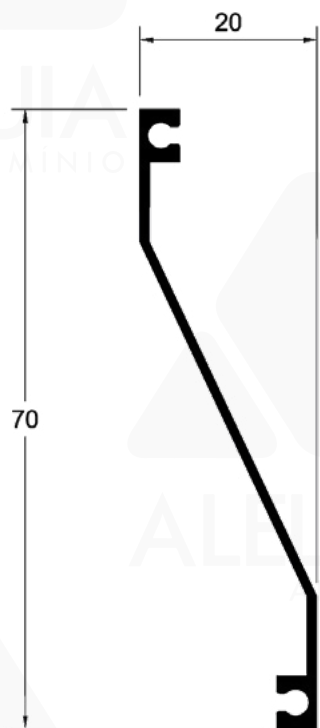
**VZ-060** (VZ-060) PESO: 0,371 (Kg/m)



**VZ-106** PESO: 0,254 (Kg/m)



**VZ-115** PESO: 0,288 (Kg/m)



**VZ-177**

PESO: 0,273  
(Kg/m)



## **ALELUIA ALUMÍNIO LTDA**

Praça Natividade Saldanha, 9 - Benfica,  
Rio de Janeiro - RJ, 20911-210  
Telefone: (21) 3860-4816  
(21) 3860-9639  
(21) 96500-6327

[aleluiaaluminio@hotmail.com](mailto:aleluiaaluminio@hotmail.com)  
[www.aleluiaaluminio.com.br](http://www.aleluiaaluminio.com.br)