

**Permetal**  
Eletrocalhas

# PRODUTOS E ACESSÓRIOS

ELETRICALHAS  
PERFILADOS  
LEITOS PARA CABOS  
ELETRORODUTOS

[WWW.PERMETALELETRICALHAS.COM.BR](http://WWW.PERMETALELETRICALHAS.COM.BR)



A Permetal ao longo de seus mais de 60 anos de história, segue investindo em equipamentos e tecnologias para desenvolver os melhores produtos do mercado. Com todo o suporte da nossa indústria e equipe técnica, produzimos soluções para cabeamentos estruturados, que vão da industrialização até a comercialização de produtos para instalações elétricas, mecânicas e hidráulicas. Nossa linha abrange sistemas de eletrocalhas, leitos, perfilados e eletrodutos, que garantem uma rede elétrica padronizada, otimizada e segura.

Temos como ideal, fornecer produtos de qualidade, praticidade, com um extremo rigor técnico, para atender as necessidades de nossos clientes.

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# ELETROCALHAS

## Como Solici-

**Modelo:** perfurada ou lisa

**Medida:** base x altura

**Tipo:** com aba (tipo C) ou sem aba (Tipo U)

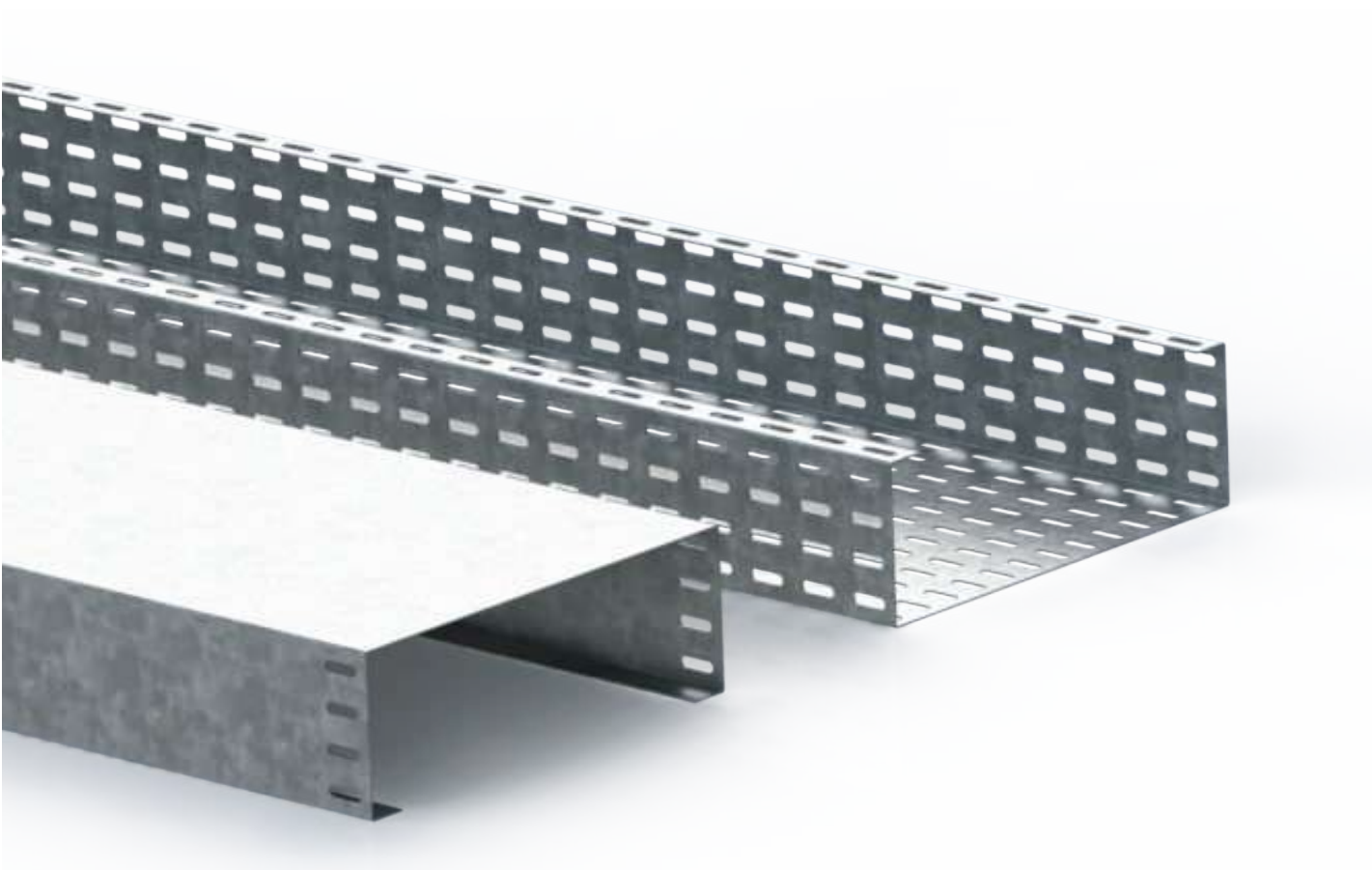
**Tampa:** sem tampa, tampa de encaixe ou 2 águas.

**Acabamento:** pré-zincado, galvanizado à fogo (imersão a quente) e pintura eletrostática.

**Espessura da Chapa:** 24 (0,65), 22 (0,80), 20 (0,95), 18 (1,25), 16 (1,55), 14 (1,95), ou 12 (2,65)

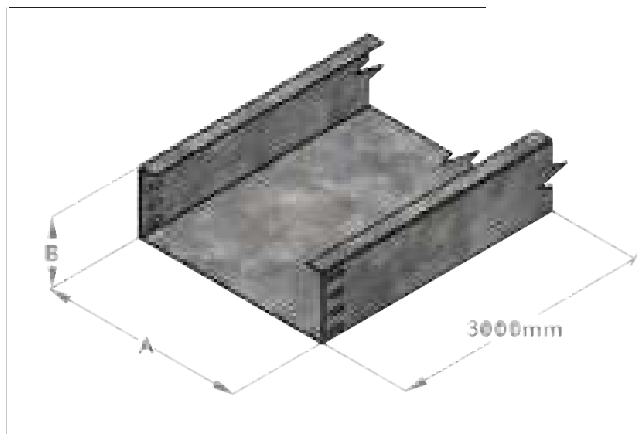
**Ex1:** Eletrocalha Perfurada, 200 x 100, com aba, com tampa de encaixe, galvanizado a fogo e chapa 16.

**Ex2:** Eletrocalha Lisa, 300 x 100, sem aba, pré-zincado com chapa 20.

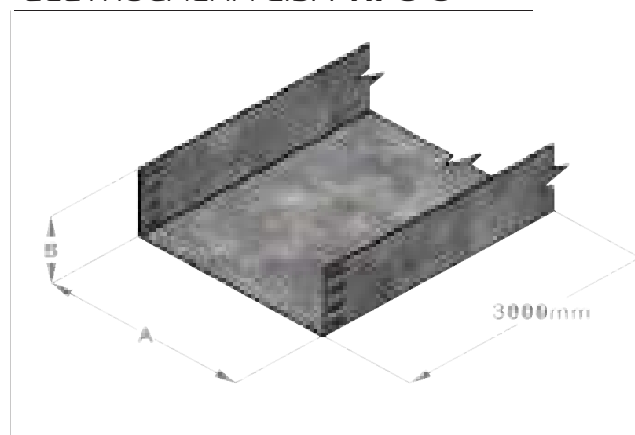


# ELETROCALHAS

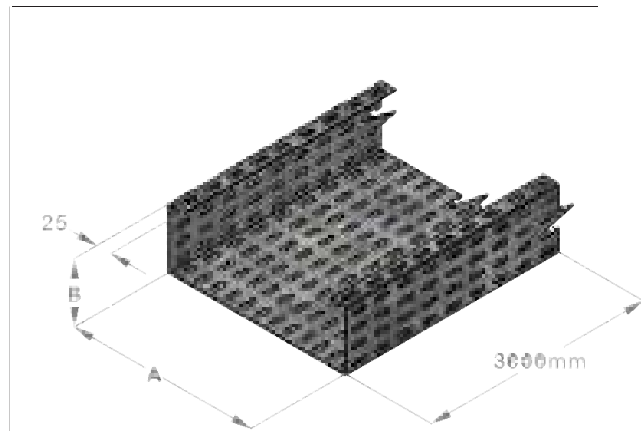
ELETROCALHA LISA **TIPO C**



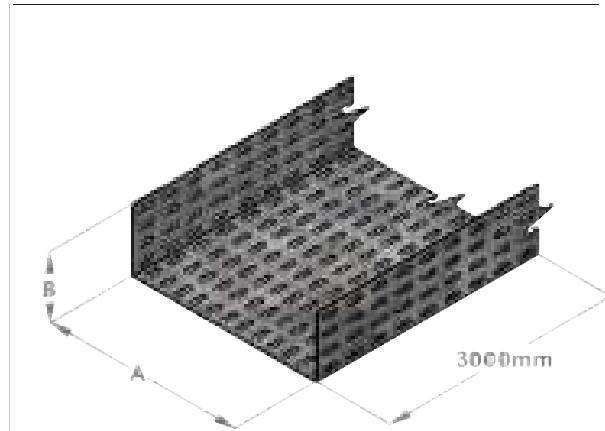
ELETROCALHA LISA **TIPO U**



ELETROCALHA PERFURADA **TIPO C**



ELETROCALHA PERFURADA **TIPO U**



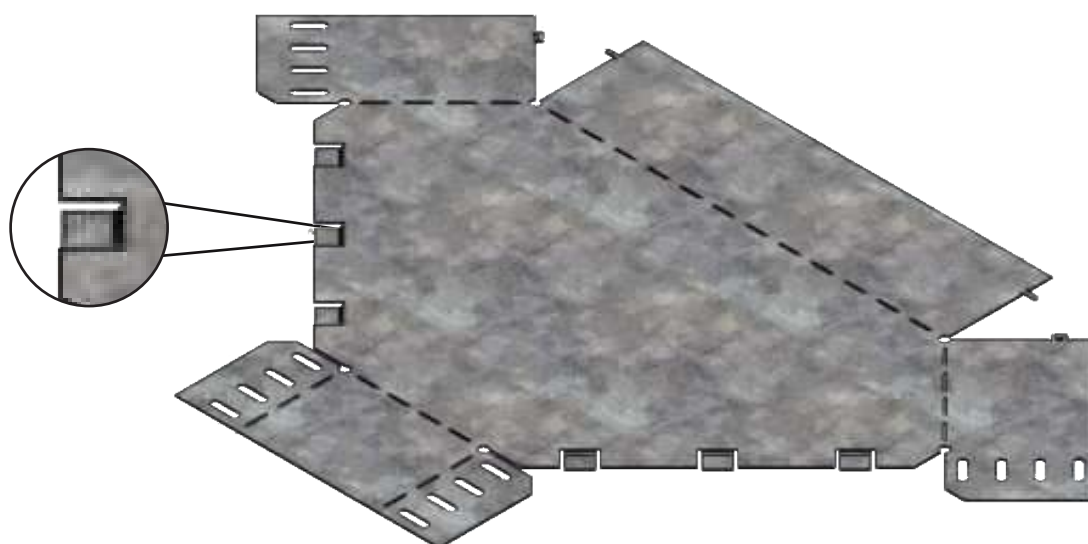
B \ A	50	75	100	150	200	300	400	500	600	700
50	50x50	75x50	100x50	150x50	200x50	300x50	400x50			
75		75x75	100x75	150x75	200x75					
100			100x100	150x100	200x100	300x100	400x100	500x100	600x100	700x100

\*Outras dimensões favor consultar.

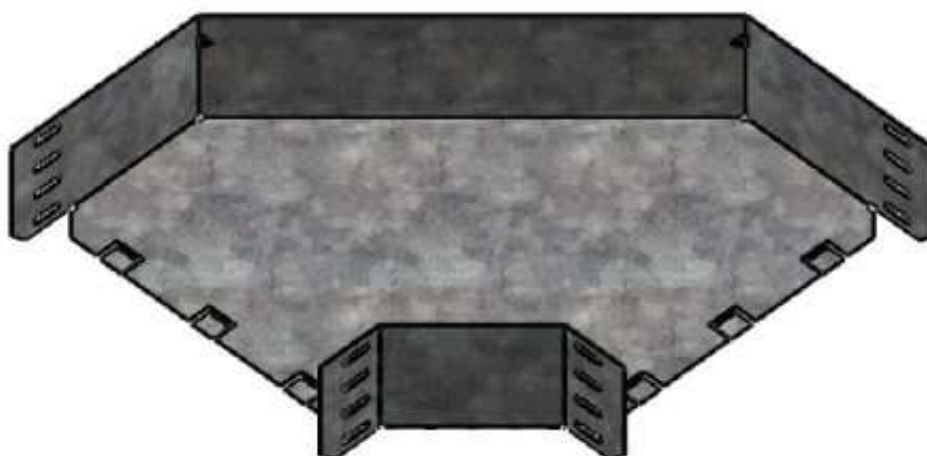
# ELETROCALHAS

## ACESSÓRIOS

A Permetal Eletrocalhas traz como diferencial para o mercado, toda sua linha de acessórios para eletrocalhas. Nossos acessórios são planificados, podendo ser ajustados a sua posição normal no momento da instalação, auxiliando no transporte e manuseio das peças. Os acessórios contam também com um sistema de encaixe que dispensa o uso de junções de acabamento, oferecendo praticidade, segurança e economia.

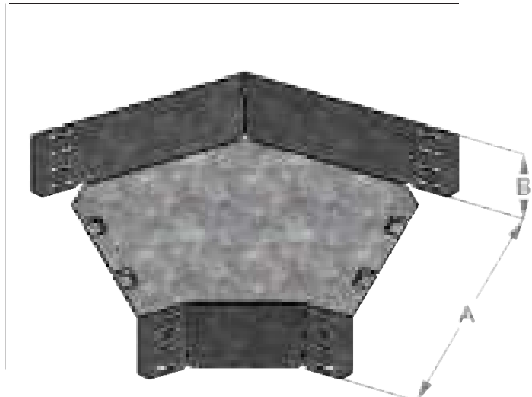


PLANIFICADA

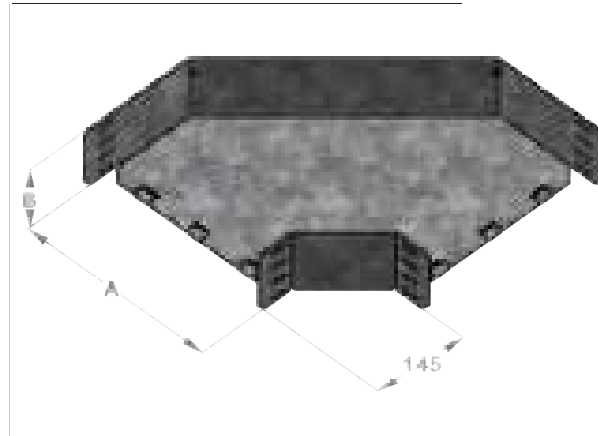


MONTADA

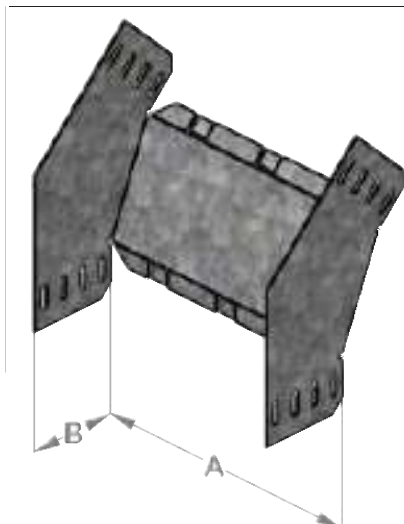
CURVA HORIZONTAL 45°



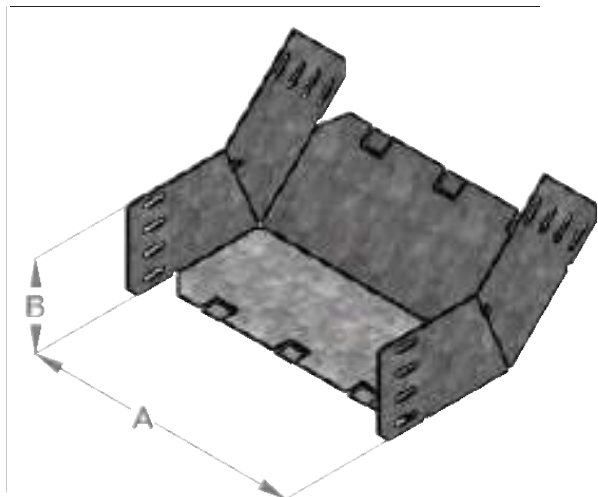
CURVA HORIZONTAL 90°



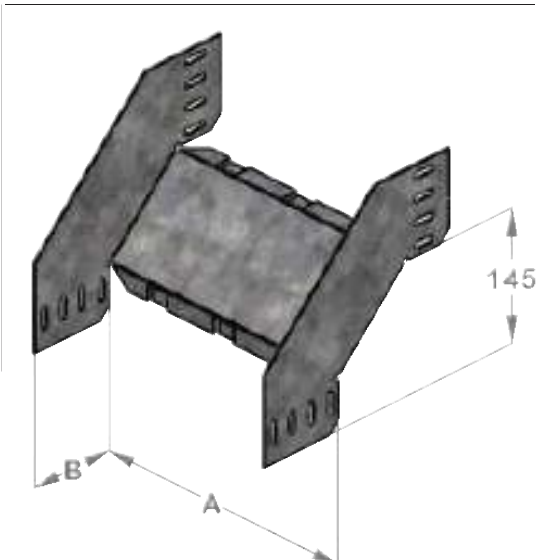
CURVA VERTICAL EXTERNA 45°



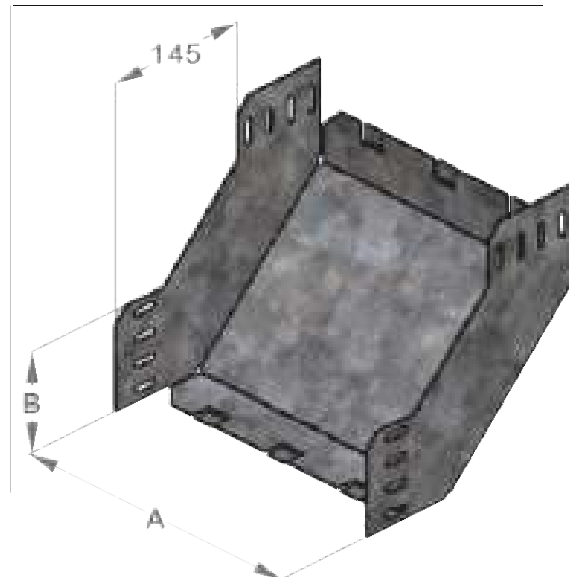
CURVA VERTICAL INTERNA 45°



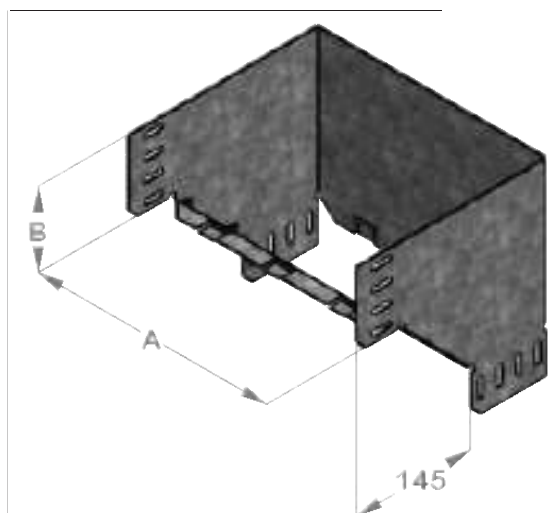
CURVA VERTICAL EXTERNA 90°



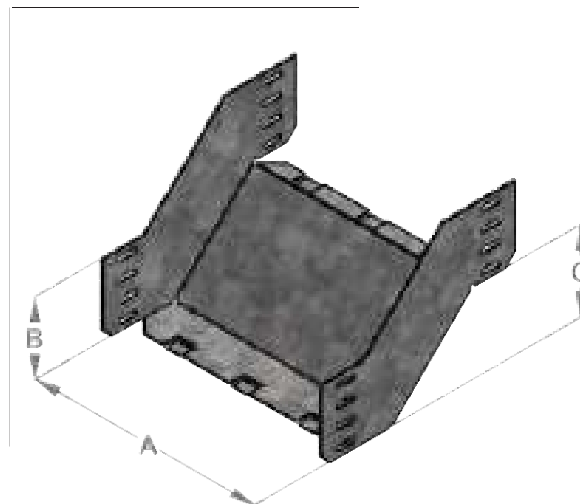
CURVA VERTICAL INTERNA 90°



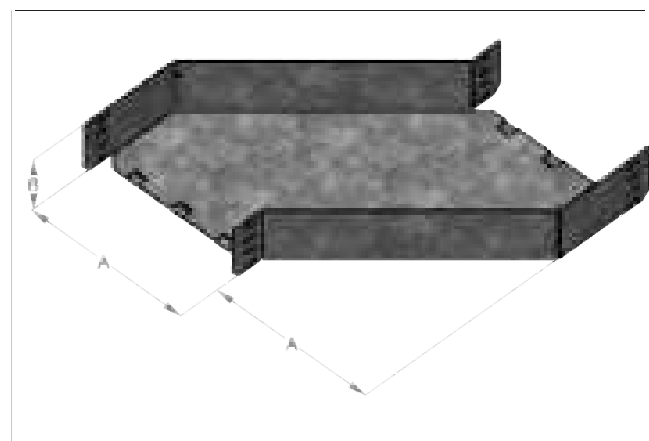
### CURVA DE INVERSÃO



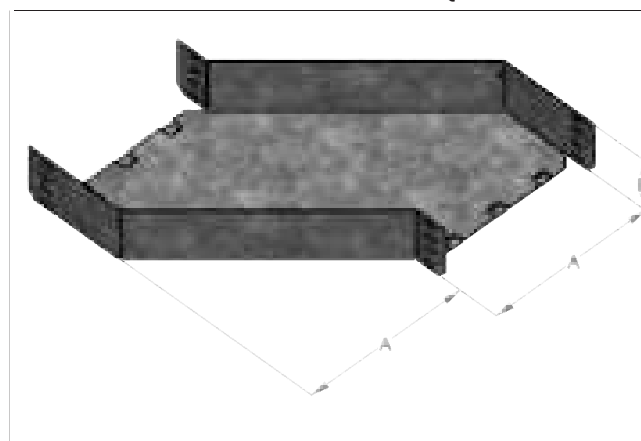
### DESVIO VERTICAL



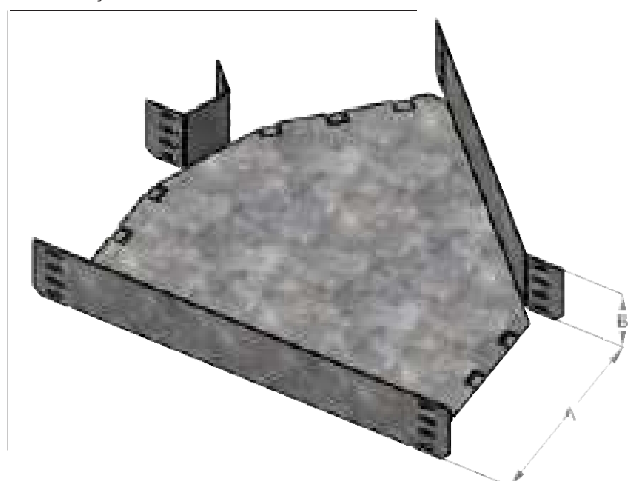
### DESVIO HORIZONTAL À DIREITA



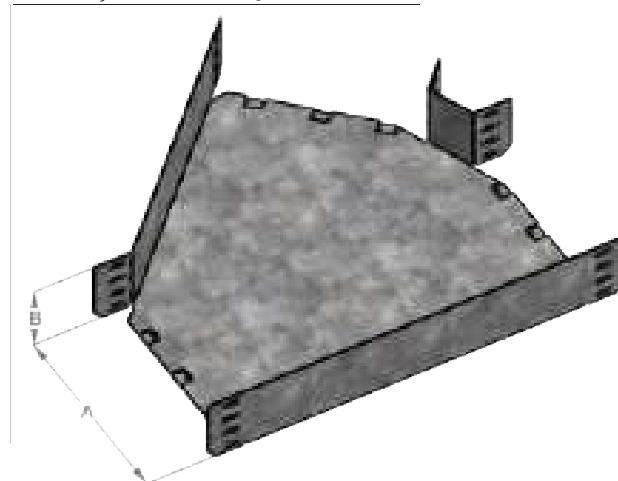
### DESVIO HORIZONTAL À ESQUERDA



### JUNÇÃO À DIREITA 45°



### JUNÇÃO À ESQUERDA 45°

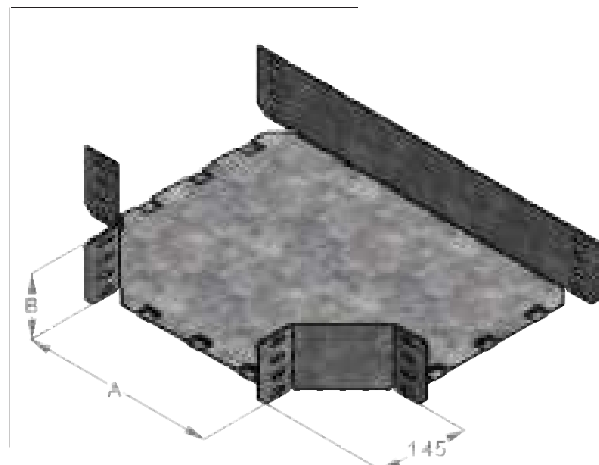




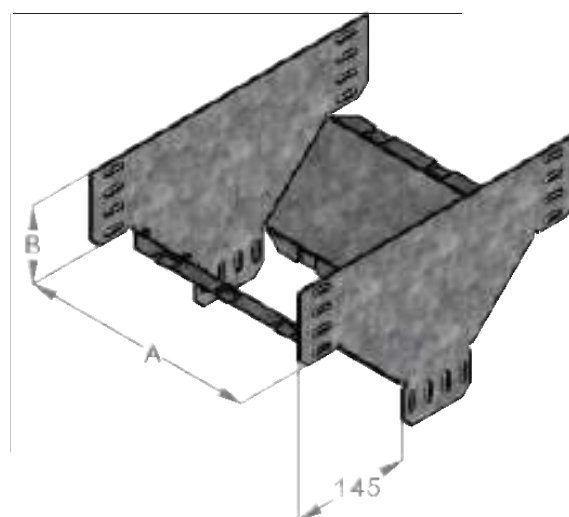
# ELETRICALHAS

ACESSÓRIOS

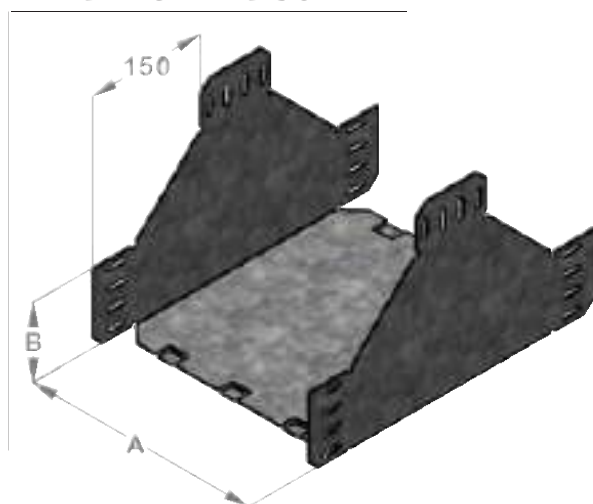
**T HORIZONTAL**



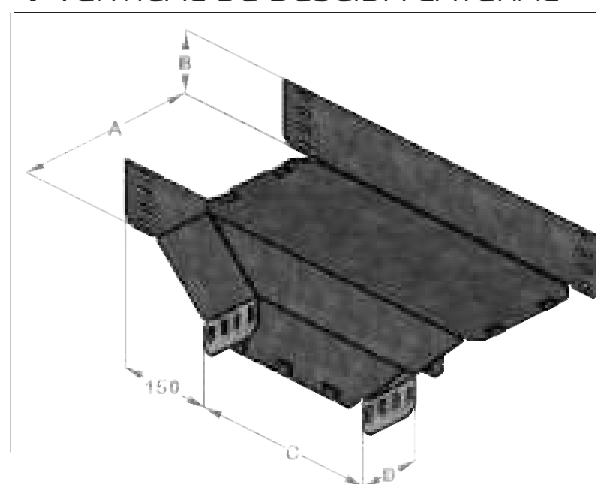
**T VERTICAL DE DESCIDA**



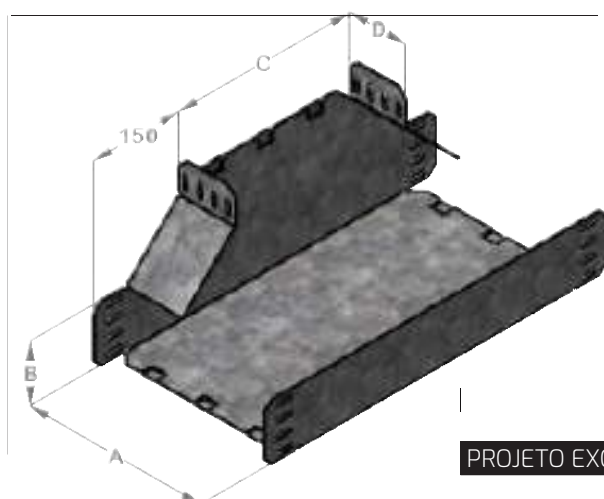
**T VERTICAL DE SUBIDA**



**T VERTICAL DE DESCIDA LATERAL**

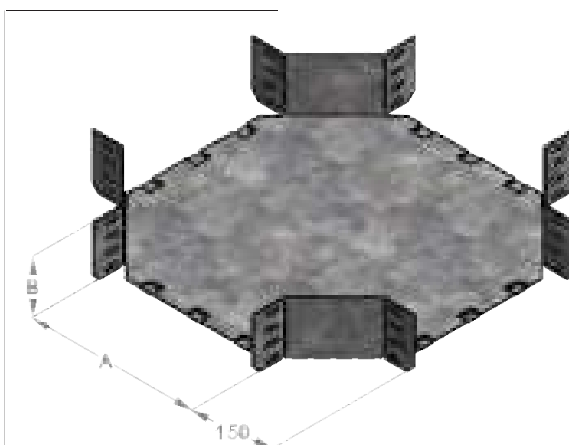


**T VERTICAL DE SUBIDA LATERAL**



PROJETO EXCLUSIVO

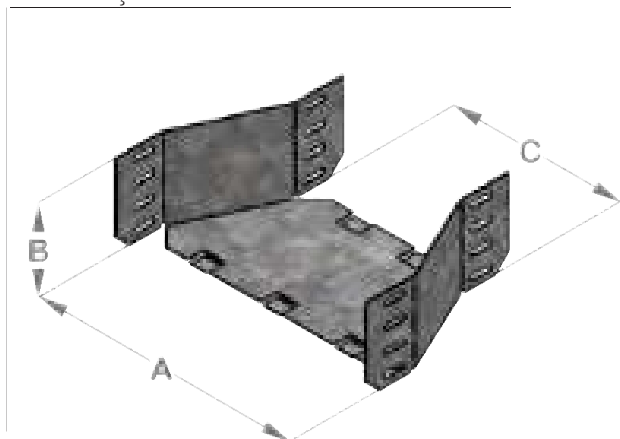
**CRUZETA**



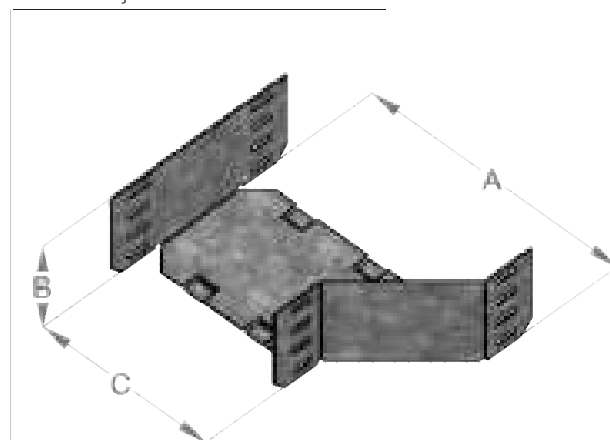
# ELETROCALHAS

ACESSÓRIOS

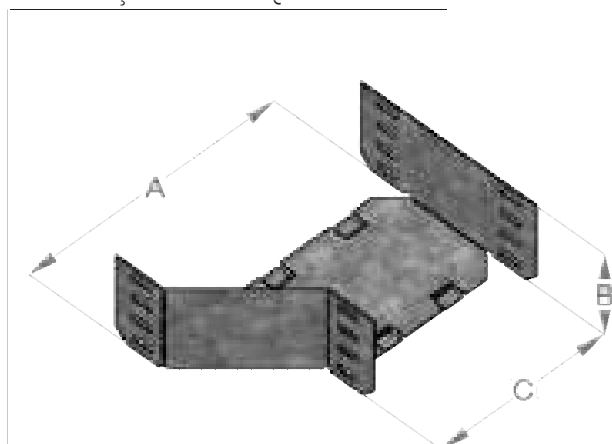
REDUÇÃO CONCÊNTRICA



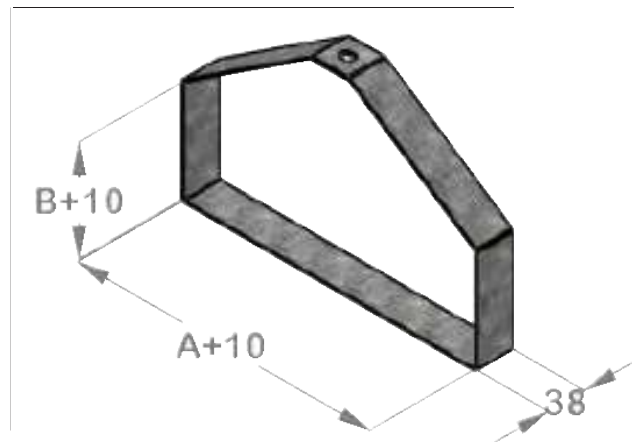
REDUÇÃO À DIREITA



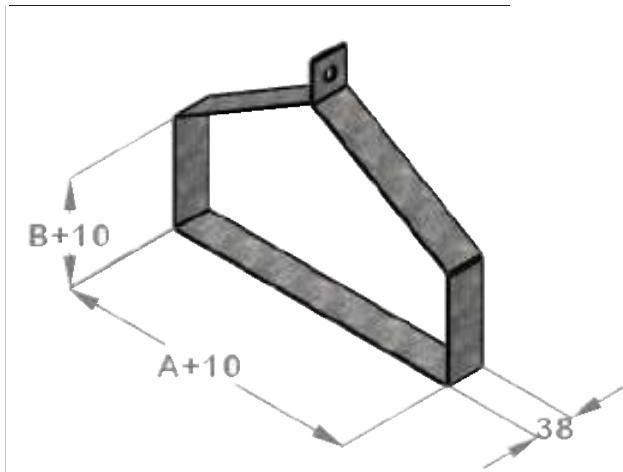
REDUÇÃO À ESQUERDA



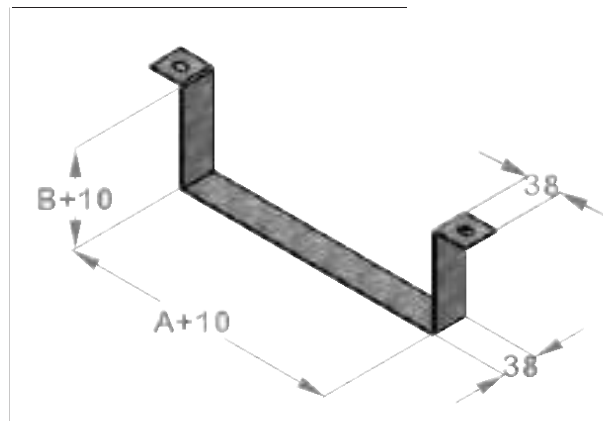
SUORTE VERTICAL



SUORTE HORIZONTAL



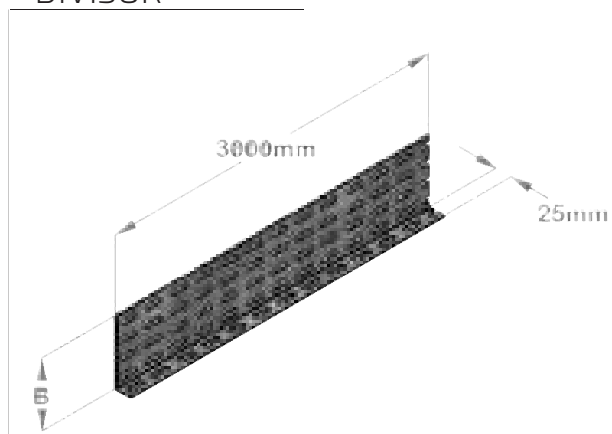
SUORTE ÔMEGA



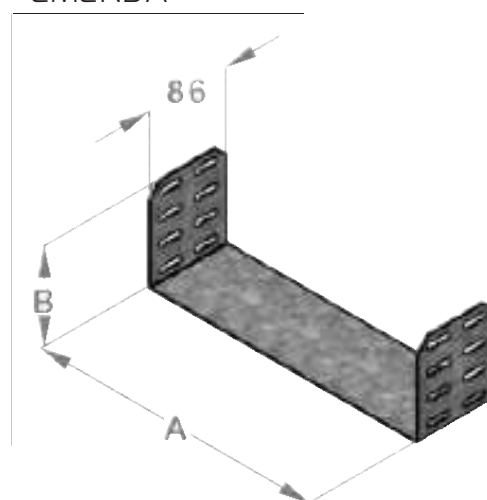
# ELETROCALHAS

ACESSÓRIOS

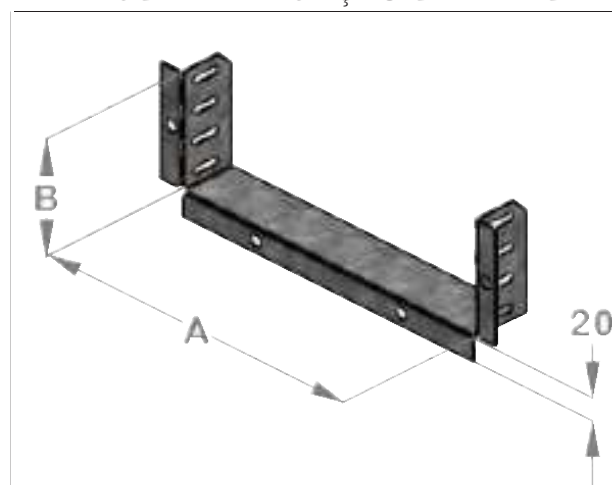
DIVISOR



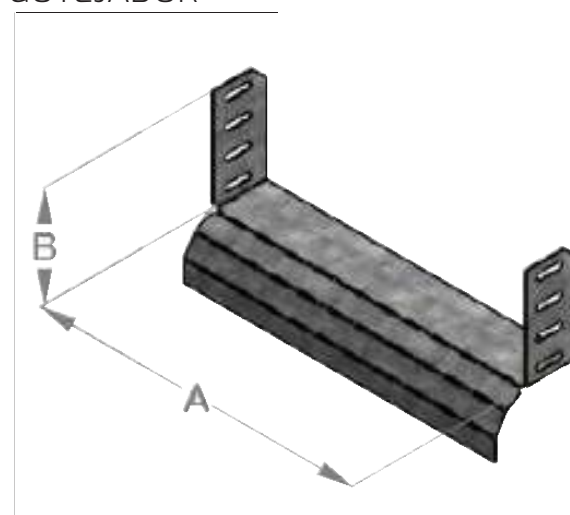
EMENDA



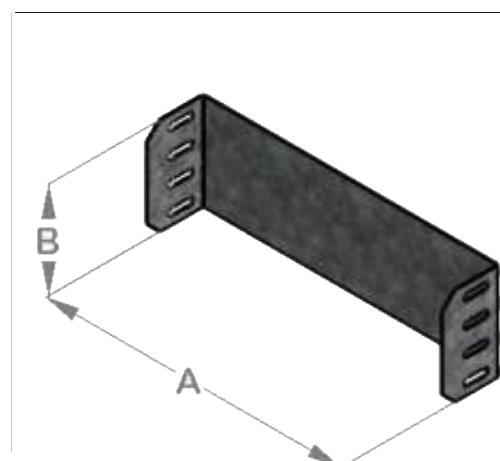
FLANGE PARA LIGAÇÃO EM PAINEL



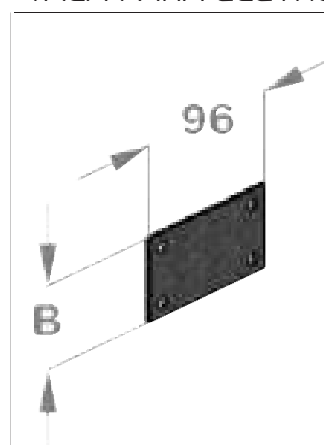
GOTEJADOR



TERMINAL PARA ELETROCALHA

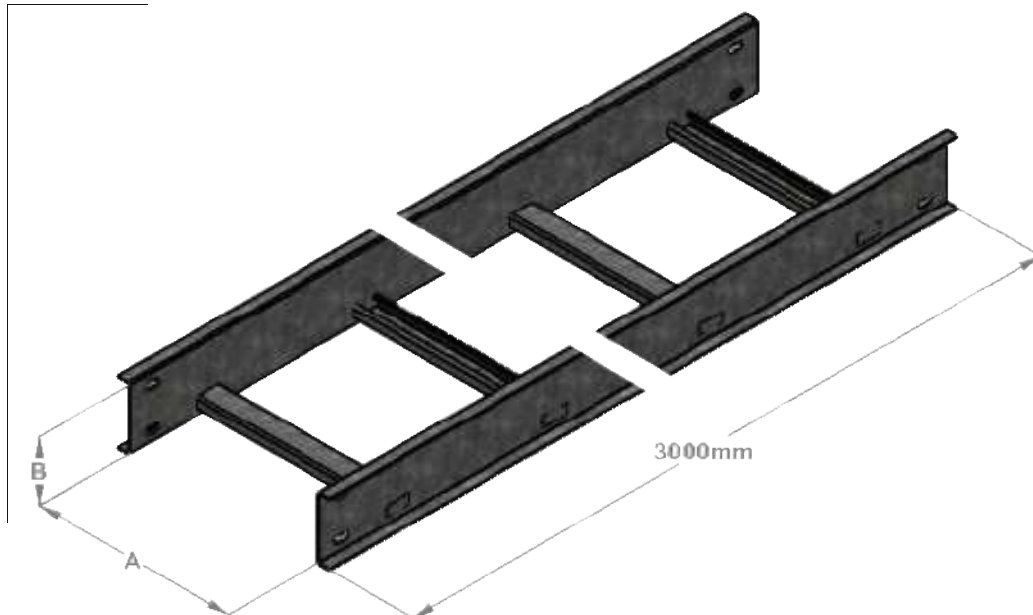


TALA PARA ELETROCALHA

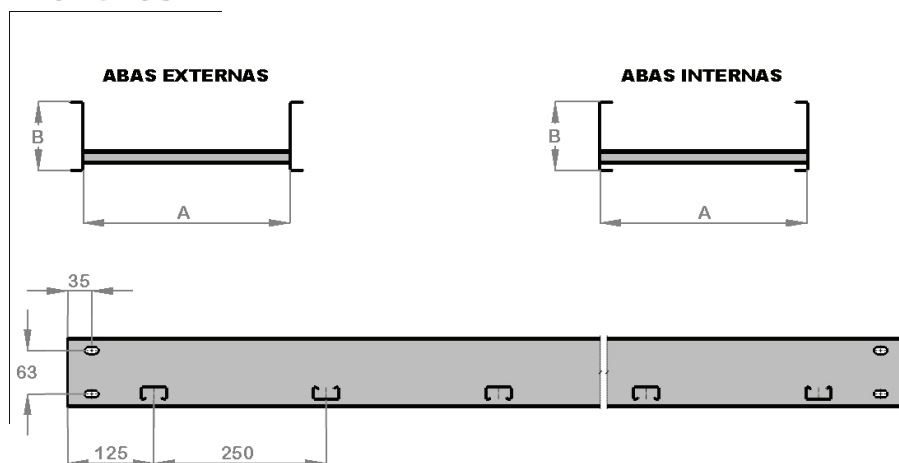


# LEITOS

## LEITO



## MODELOS



## Como Solicitar

**Modelo:** Abas internas ou externas

**Medida:** base x altura

**Tipo:** Leve, Médio e Pesado

**Acabamento:** pré-zincado, galvanizado à fogo (imersão a quente).

**Ex1:** Leito Leve 300 x 100, com aba externas, galvanizado à fogo.

**Ex2:** Leito Pesado, 600 x 100, Com aba interna, pré-zincado.

# LEITOS

## LEVE

B \ A	200	300	400	500	600	700	800	900	1000	1100	1200
75	200x75	300x75	400x75	500x75	600x75	700x75	800x75	900x75	1000x75	1000x75	1200x75

TRAVESSA: Perfilado 19X38

\*Outras dimensões favor consultar.

## MÉDIO

B \ A	200	300	400	500	600	700	800	900	1000	1100	1200
100	200x100	300x100	400x100	500x100	600x100	700x100	800x100	900x100	1000x100	1100x100	1200x100

TRAVESSA: Perfilado 19X38

\*Outras dimensões favor consultar.

## PESADO

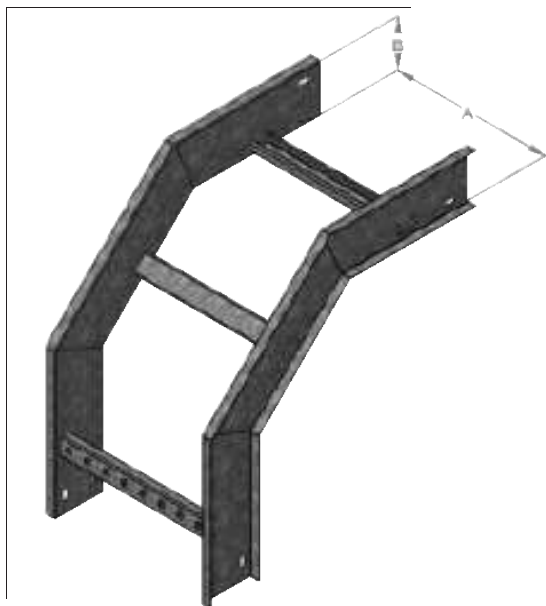
B \ A	200	300	400	500	600	700	800	900	1000	1100	1200
100	200x100	300x100	400x100	500x100	600x100	700x100	800x100	900x100	1000x100	1100x100	1200x100

TRAVESSA: Perfilado 38X38

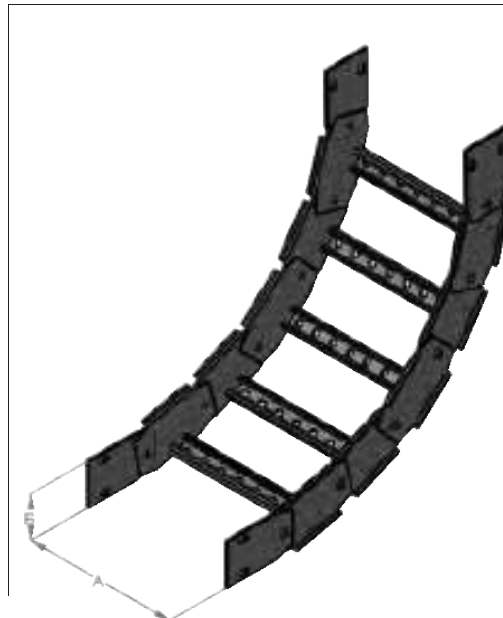
\*Outras dimensões favor consultar.



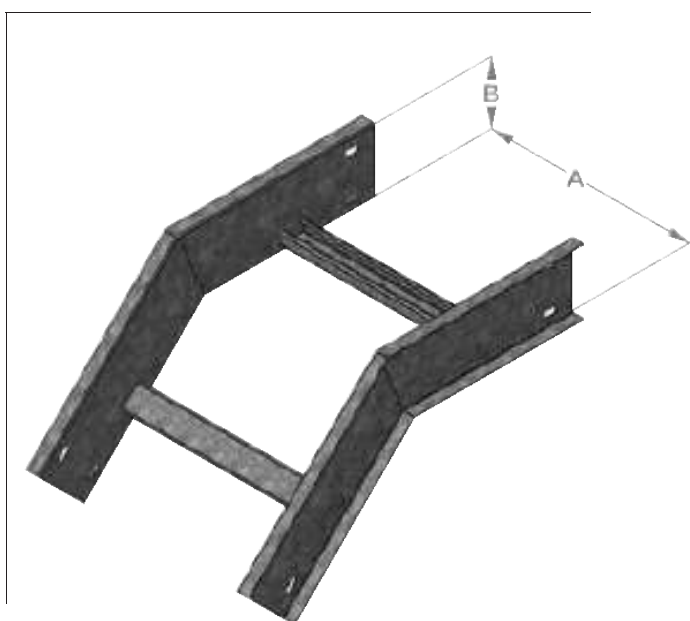
CURVA DE INVERSÃO



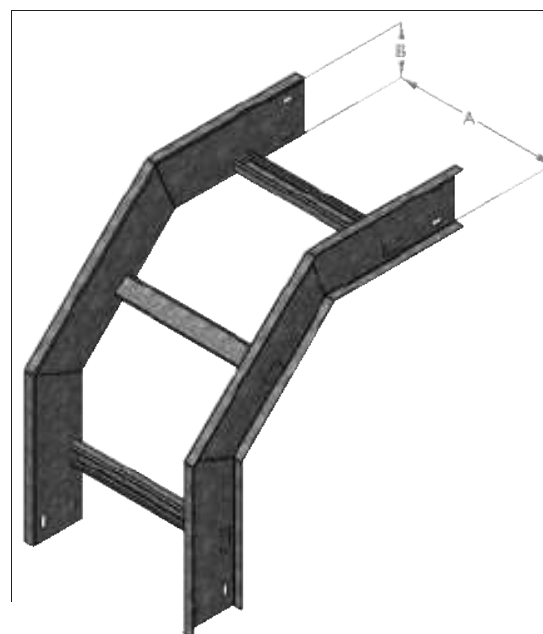
CURVA VERTICAL ARTICULADA



CURVA VERTICAL EXTERNA 45°



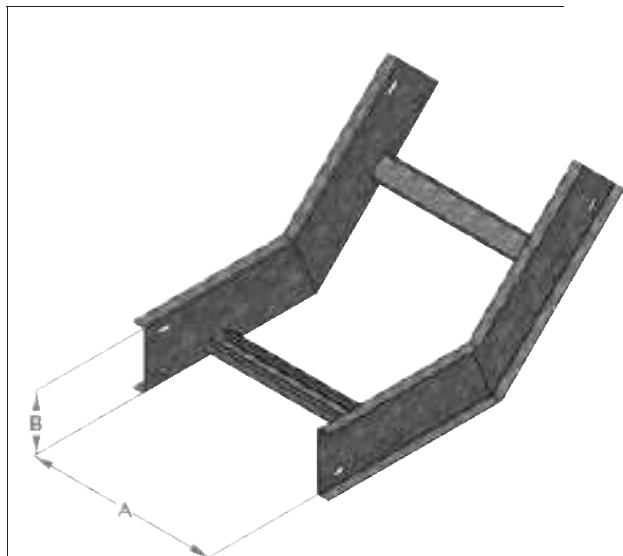
CURVA VERTICAL EXTERNA 90°



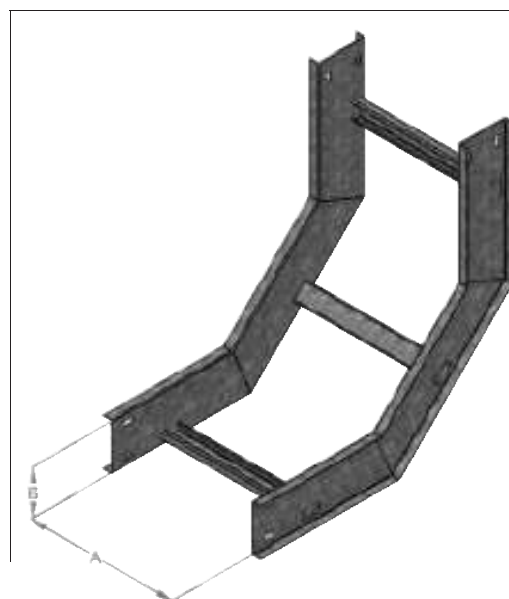
# LEITOS

ACESSÓRIOS

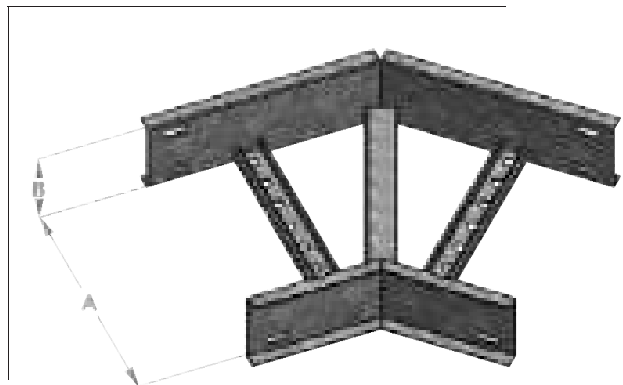
CURVA VERTICAL INTERNA 45°



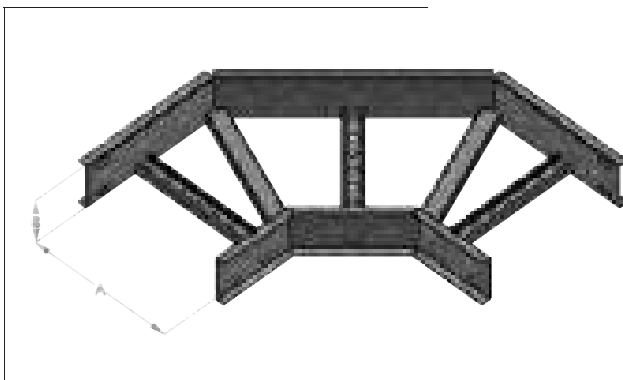
CURVA VERTICAL INTERNA 90°



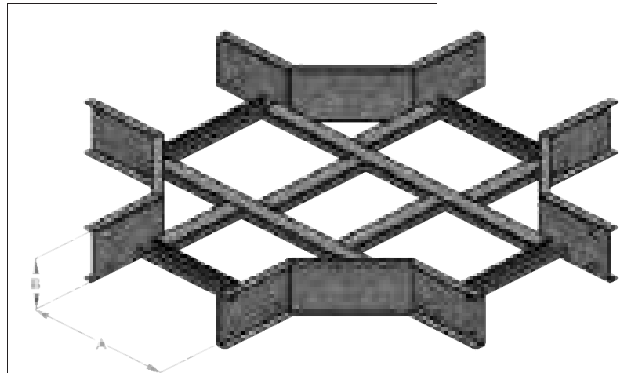
CURVA HORIZONTAL 45°



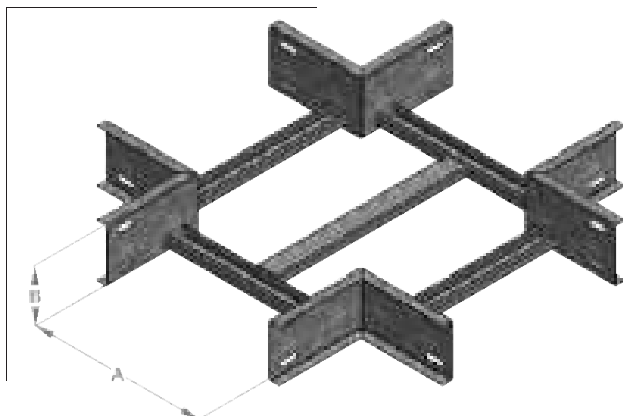
CURVA HORIZONTAL 90°



CRUZETA



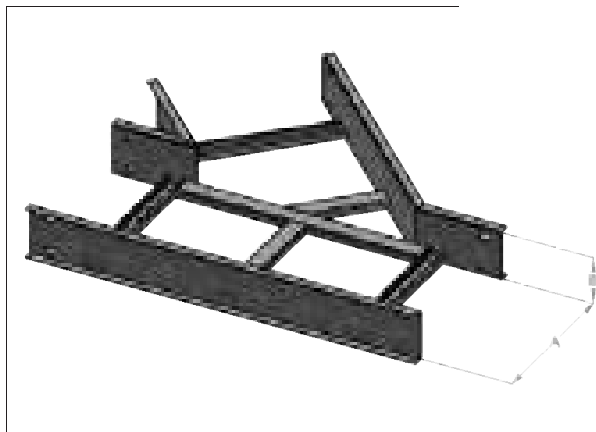
CRUZETA RETA



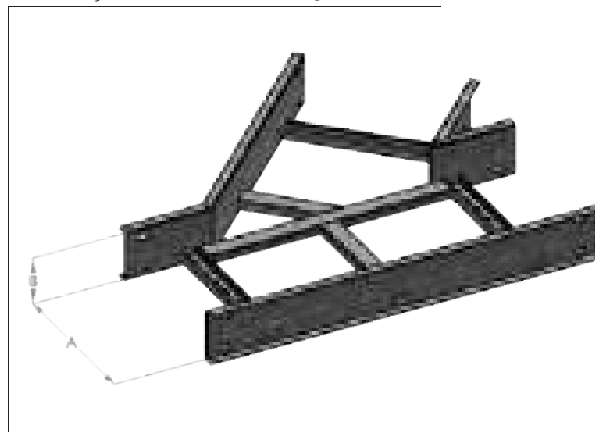
# LEITOS

ACESSÓRIOS

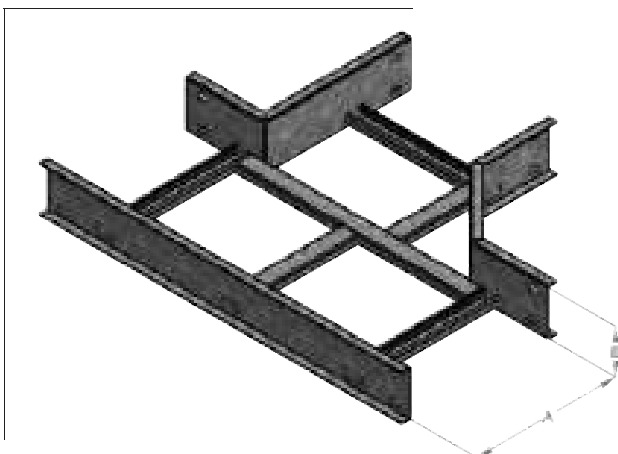
JUNÇÃO 45° À DIREITA



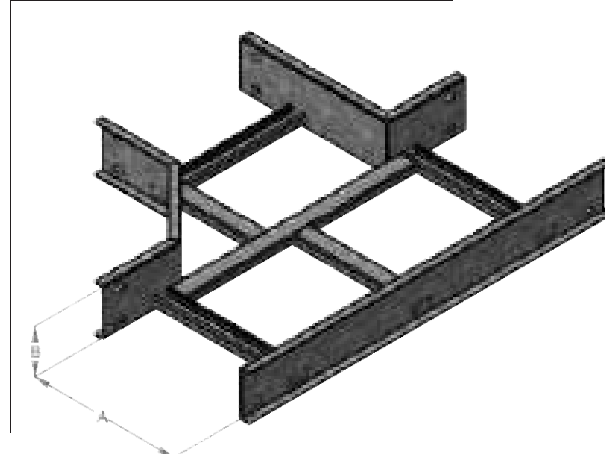
JUNÇÃO 45° À ESQUERDA



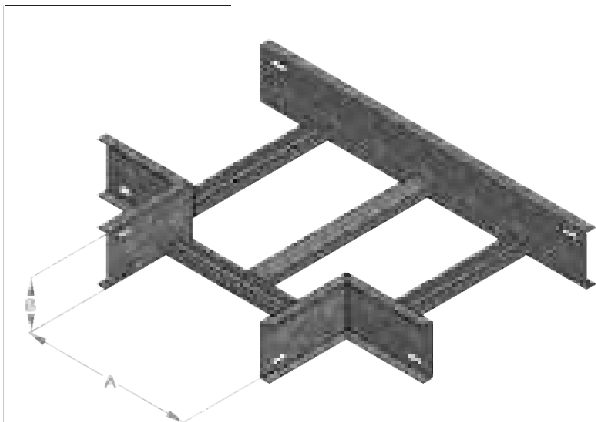
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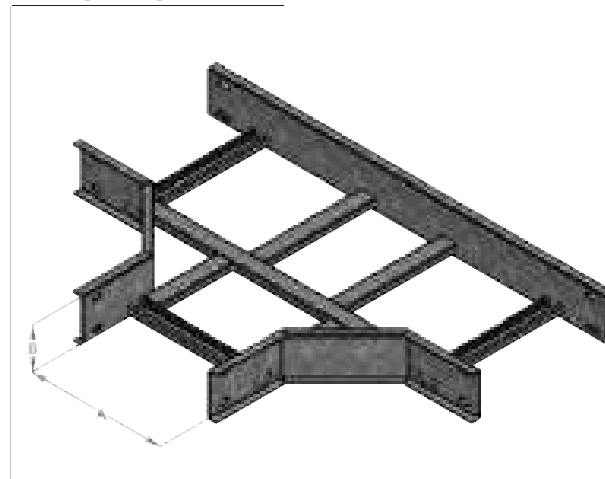
JUNÇÃO 90° À ESQUERDA



T RETO



T HORIZONTAL

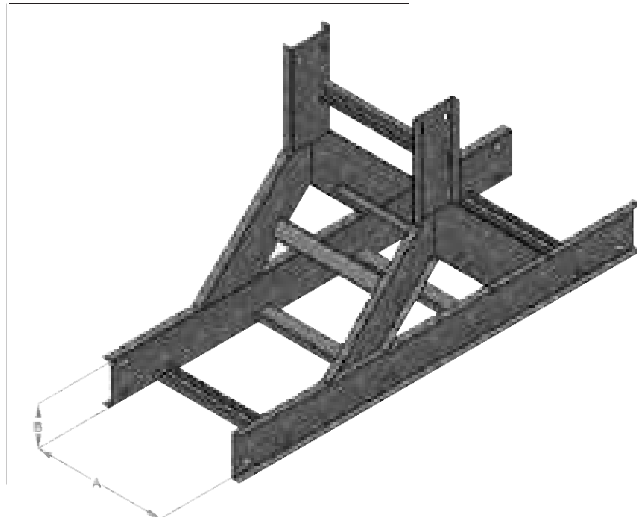




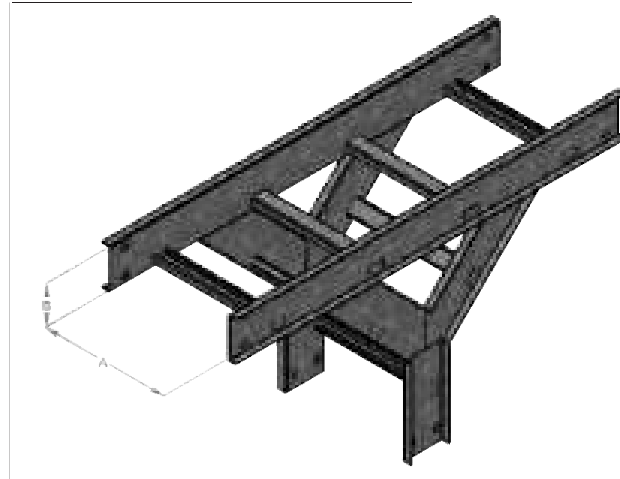
# LEITOS

ACESSÓRIOS

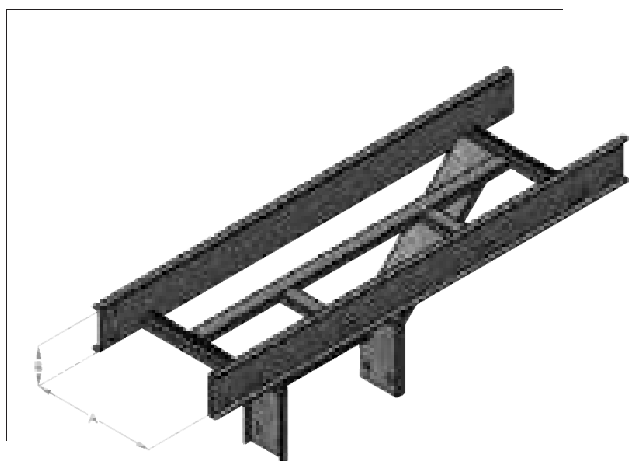
**T VERTICAL DE SUBIDA**



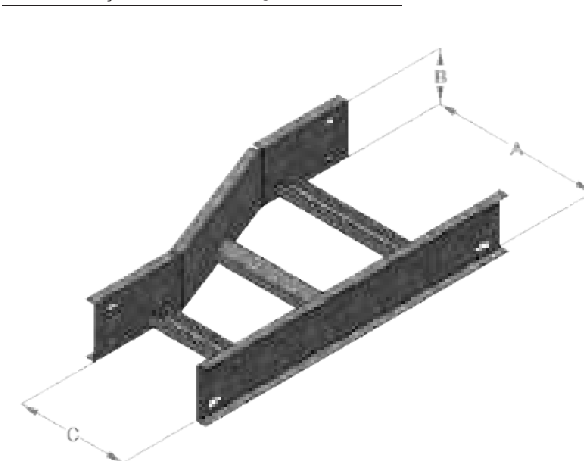
**T VERTICAL DE DESCIDA**



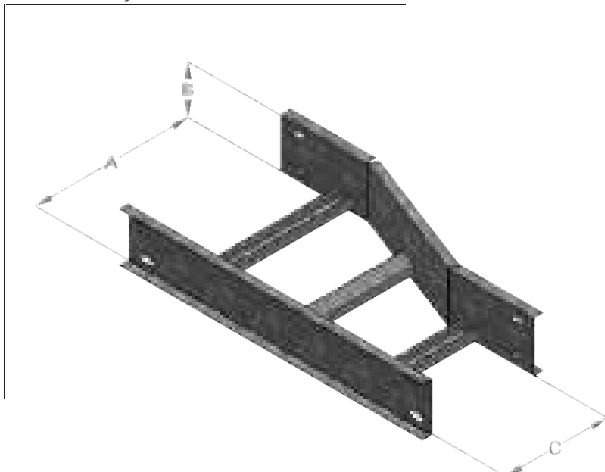
**T VERTICAL DE DESCIDA LATERAL**



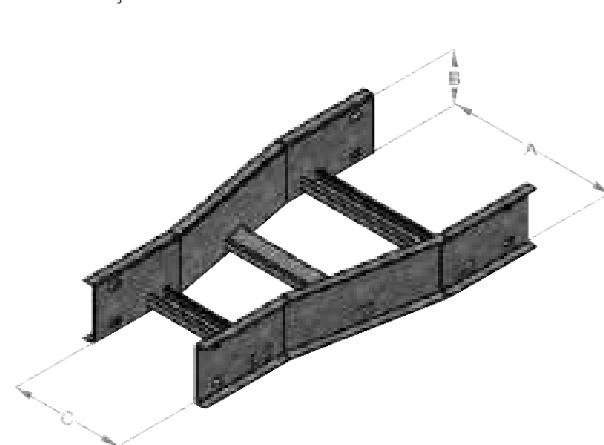
**REDUÇÃO À ESQUERDA**



**REDUÇÃO À DIREITA**



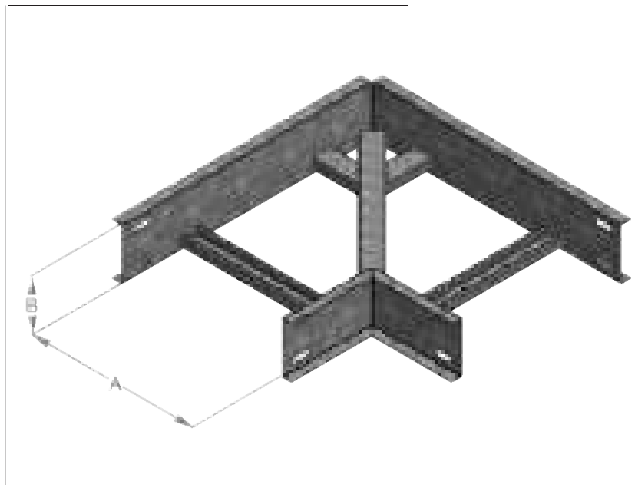
**REDUÇÃO CONCÊNTRICA**



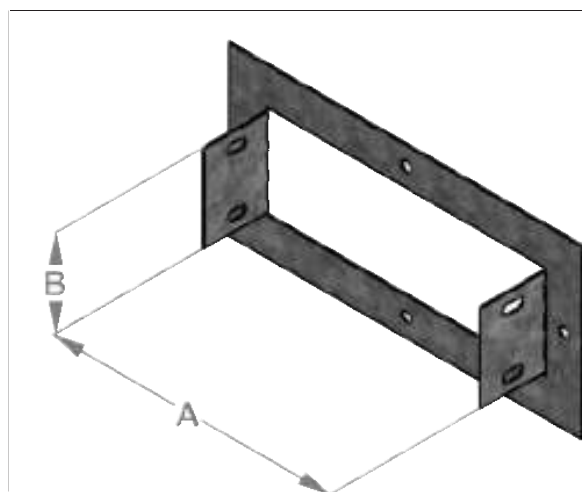
# LEITOS

## ACESSÓRIOS

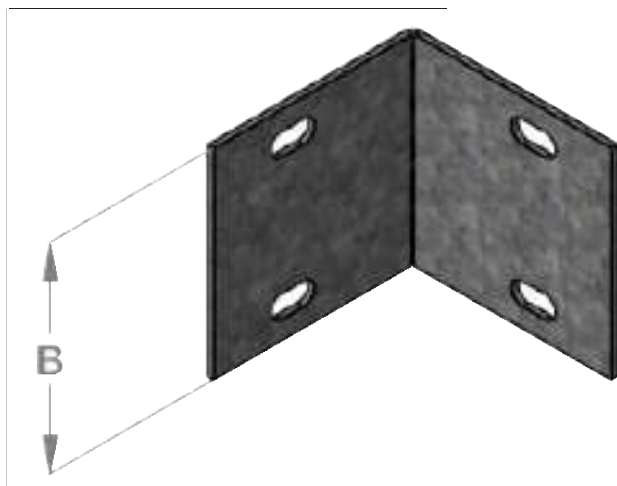
COTOVELO RETO 90°



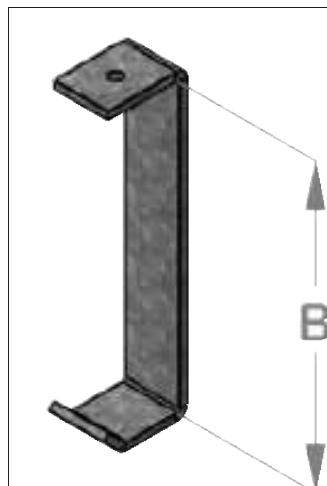
FLANGE PARA LIGAÇÃO EM PAINEL



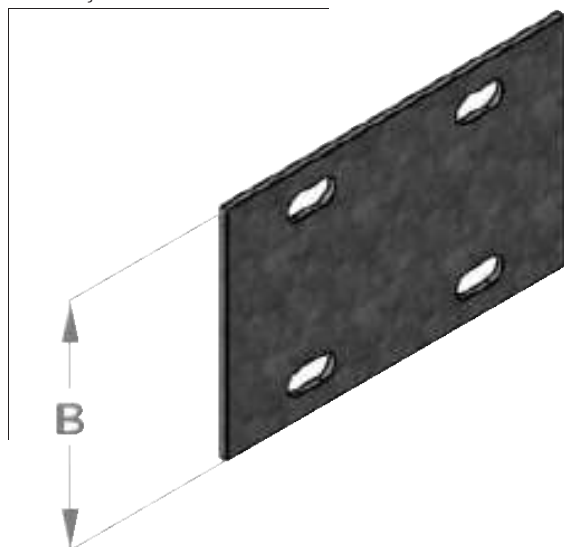
JUNÇÃO 90° PARA LEITO



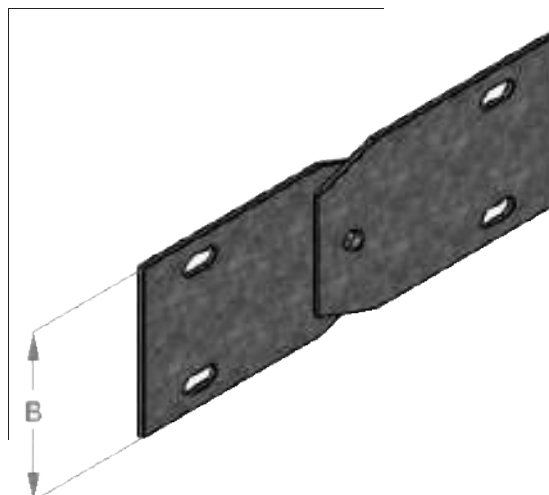
PRESILHA PARA TAMPA



JUNÇÃO SIMPLES



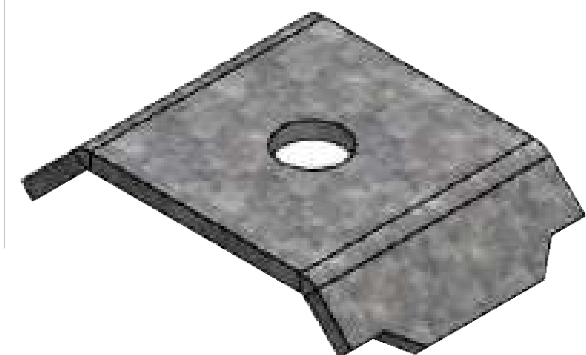
JUNÇÃO ARTICULADA



# LEITOS

## ACESSÓRIOS

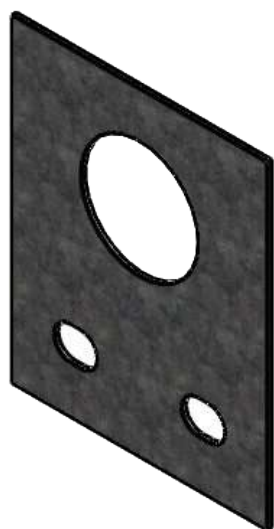
GRAPA FIXA



GRAPA GUIA



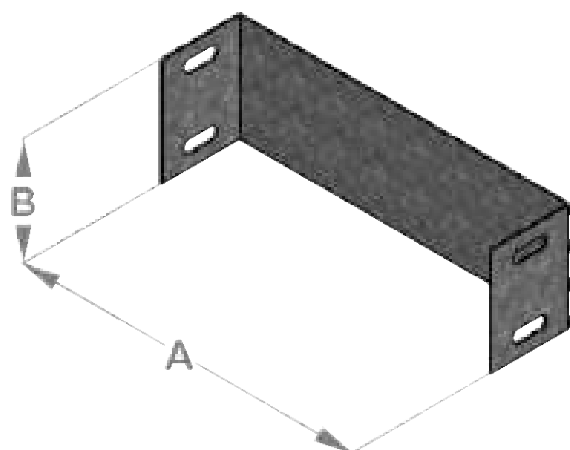
SAÍDA HORIZONTAL PARA ELETRODUTO



SAÍDA VERTICAL PARA ELETRODUTO



TERMINAL



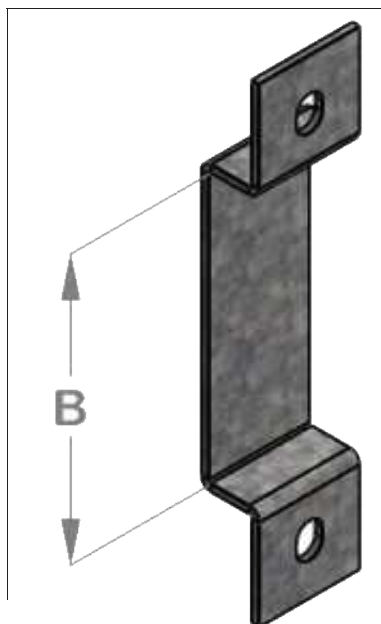
ACOPLAMENTO PARA PERFILADO



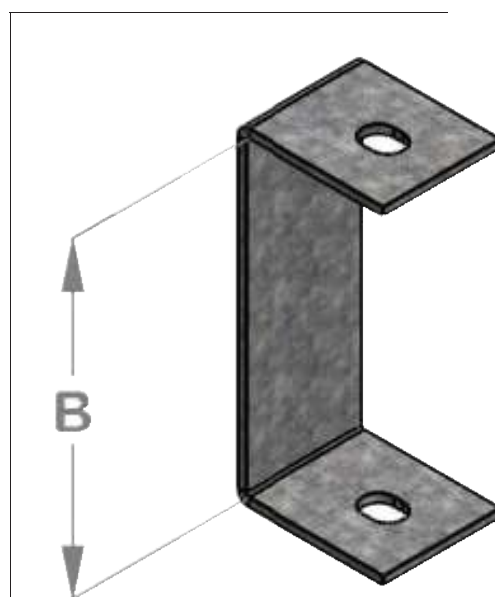
# LEITOS

ACESSÓRIOS

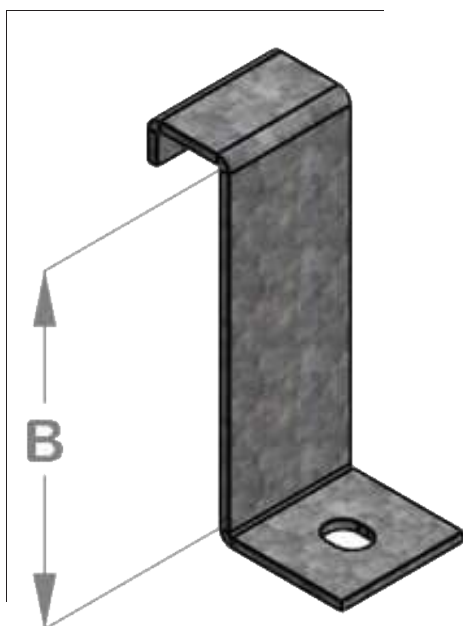
SUPORTE DE FIXAÇÃO



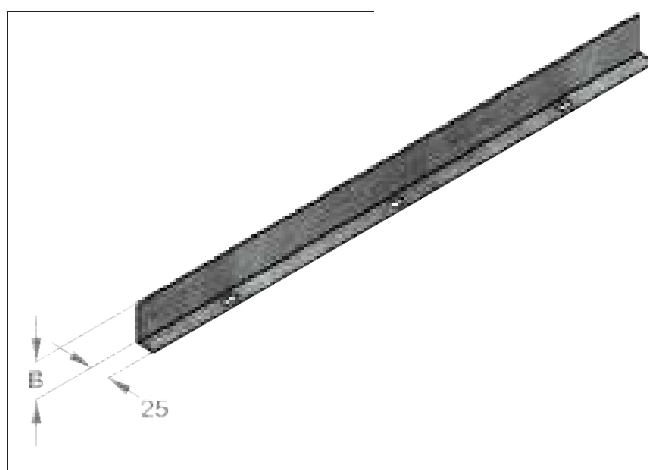
SUPORTE DE SUSPENSÃO



SUPORTE SIMPLES



DIVISOR PARA LEITO



# PERFILADOS

## Como Solici-

**Modelo:** perfurada ou lisa

**Medida:** 19x38 ou 38x38

**Tampa:** encaixe (caso haja tampa)

**Acabamento:** pré-zincado, galvanizado à fogo (imersão a quente).

**Espessura da Chapa:** 24 (0,65), 22 (0,80), 20 (0,95), 18 (1,25), 16 (1,55), 14 (1,95).

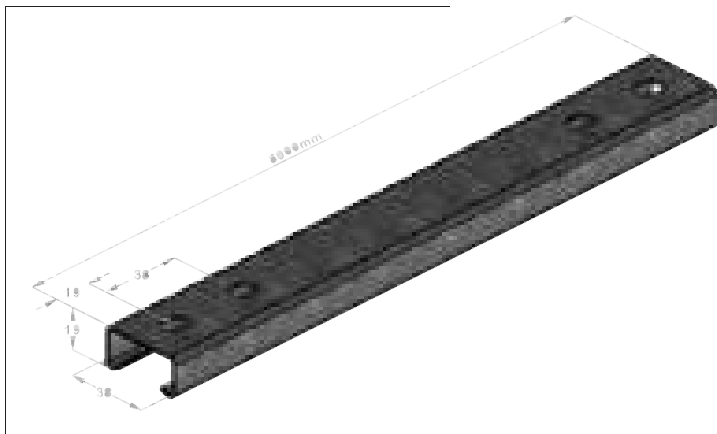
**Ex:** Perfilado Perfurado, 19 x 38, com chapa 18.

**Ex:** Perfilado Lisa, 38 x 38, com chapa 22.

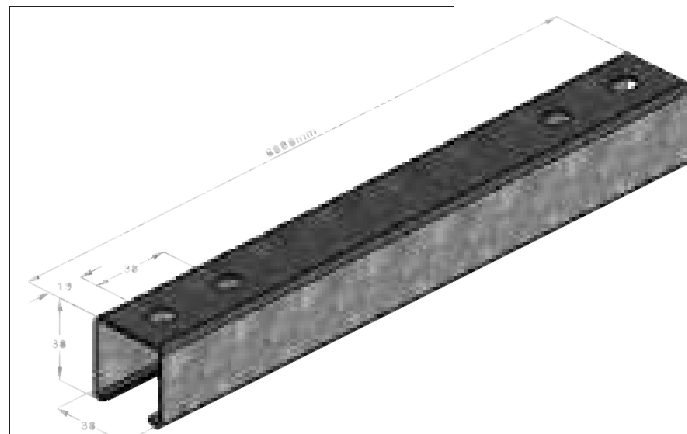


# PERFILADOS

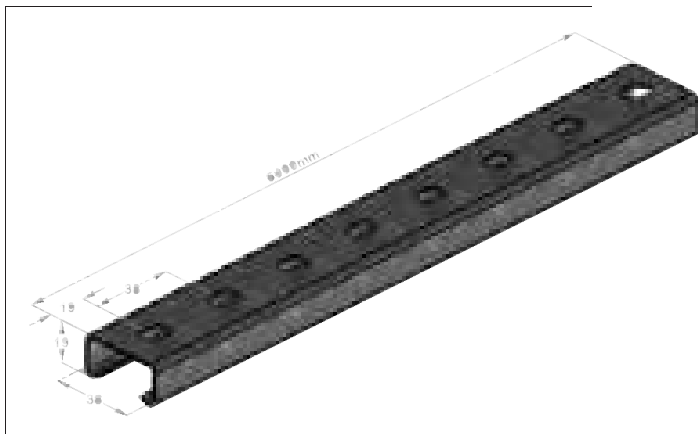
PERFILADO LISO - 19X38mm



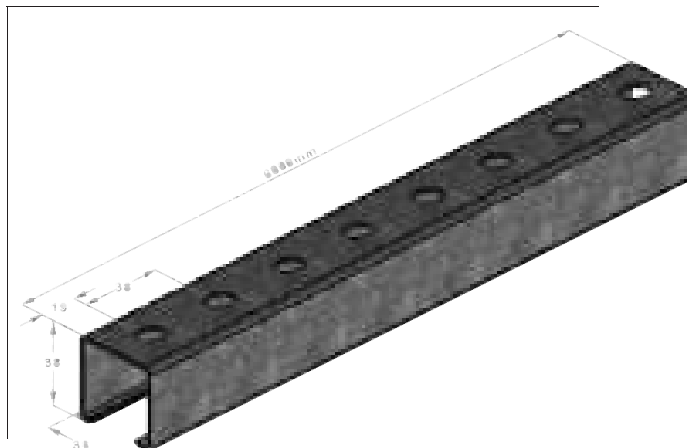
PERFILADO LISO - 38X38mm



PERFILADO PERFURADO - 19X38mm



PERFILADO PERFURADO - 38X38mm



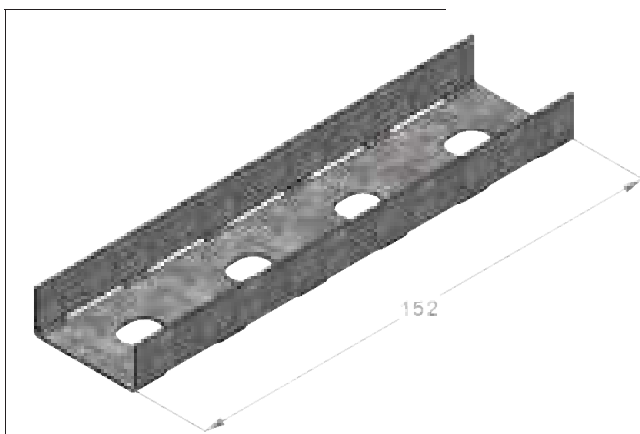
TAMPA DE ENCAIXE PARA PERFILADO



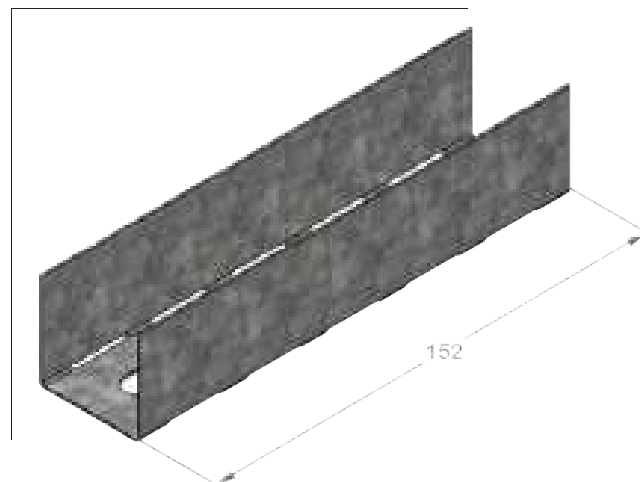
# PERFILADOS

## ACESSÓRIOS

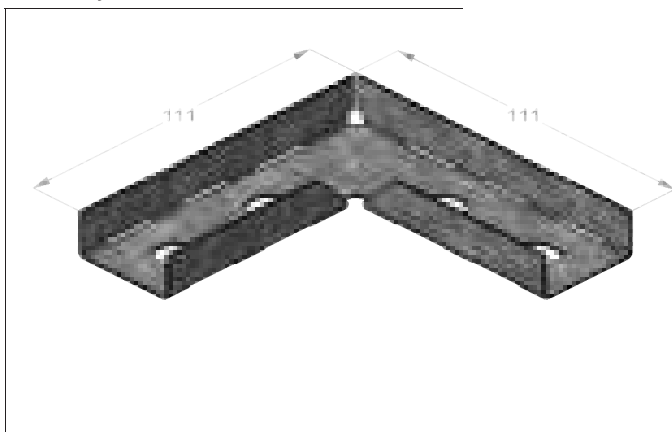
JUNÇÃO INTERNA **I** - 19X38



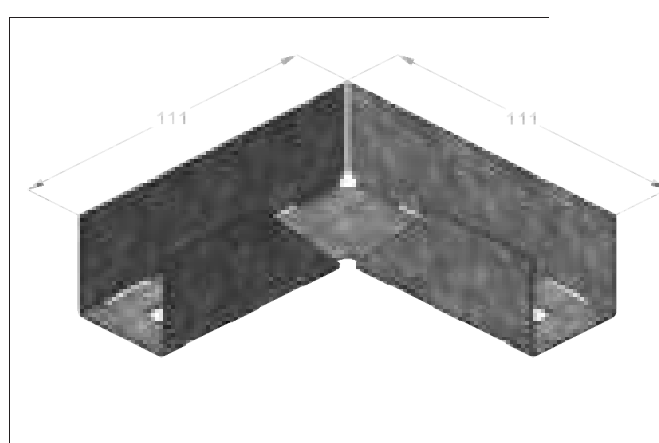
JUNÇÃO INTERNA **I** - 38X38



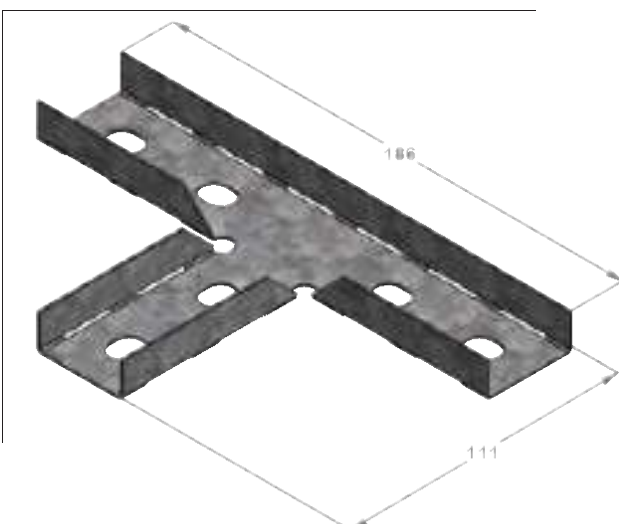
JUNÇÃO INTERNA **L** - 19X38



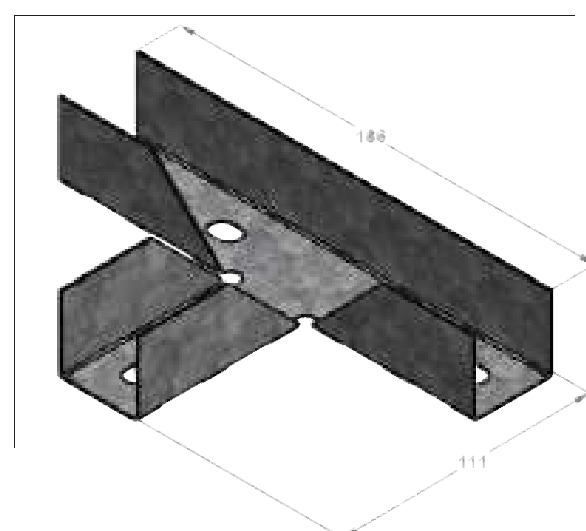
JUNÇÃO INTERNA **L** - 38X38



JUNÇÃO INTERNA **T** - 19X38



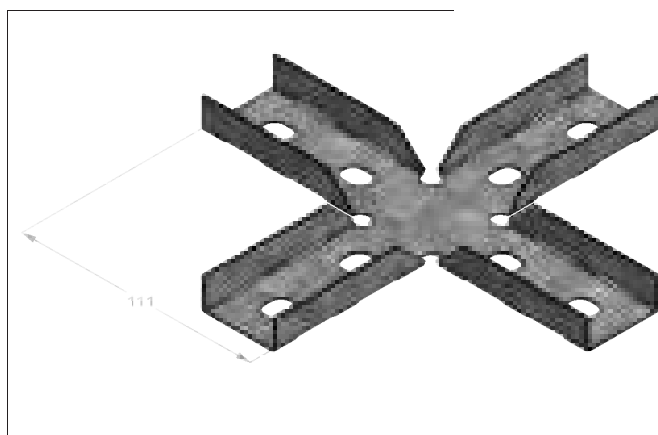
JUNÇÃO INTERNA **T** - 38X38



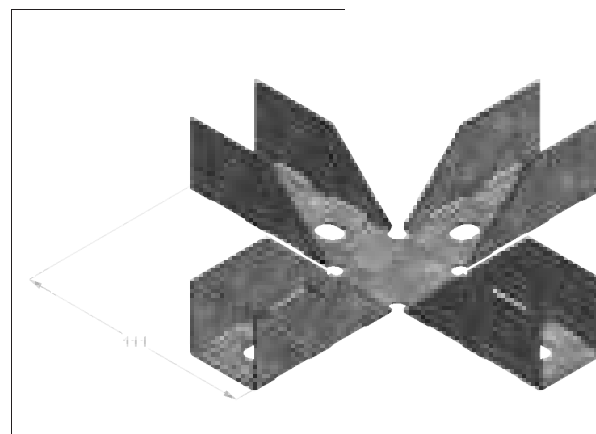
# PERFILADOS

## ACESSÓRIOS

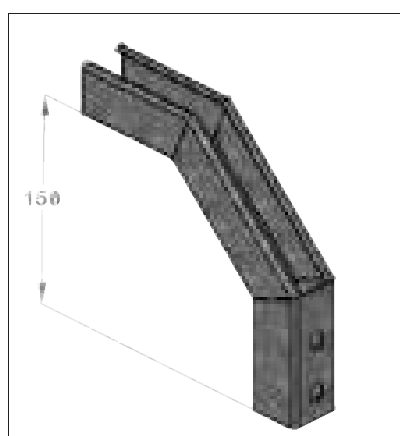
JUNÇÃO INTERNA X - 19X38



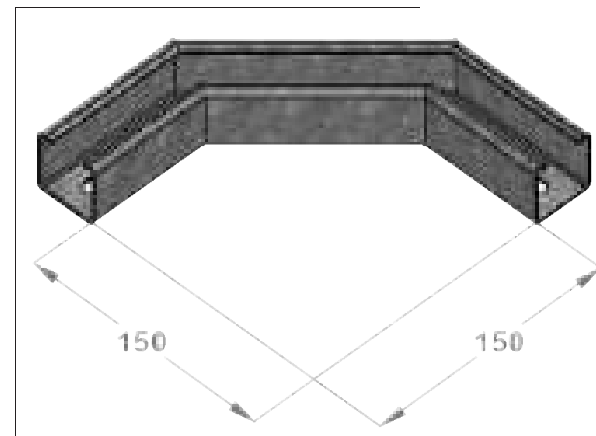
JUNÇÃO INTERNA X - 38X38



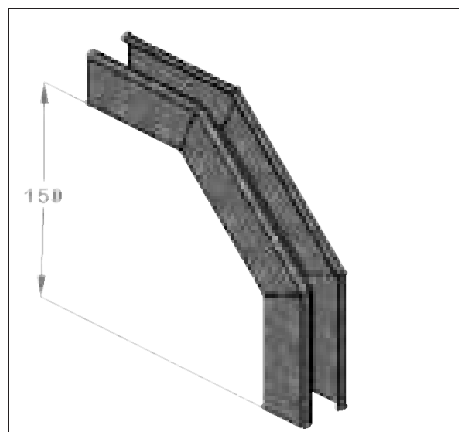
CURVA DE INVERSÃO



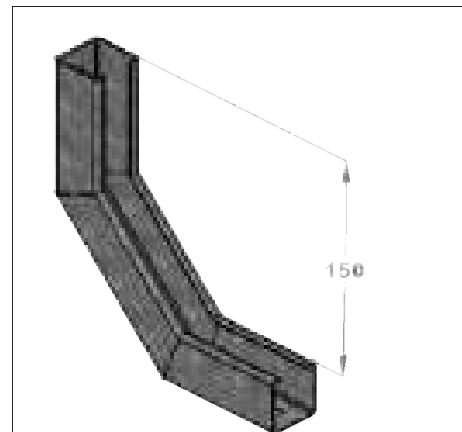
CURVA HORIZONTAL 90°



CURVA VERTICAL EXTERNA



CURVA VERTICAL INTERNA

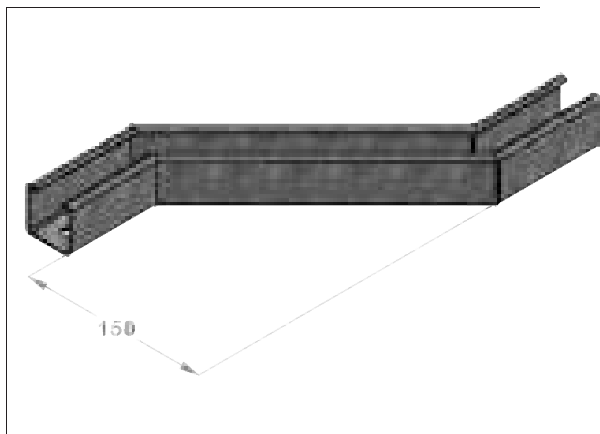




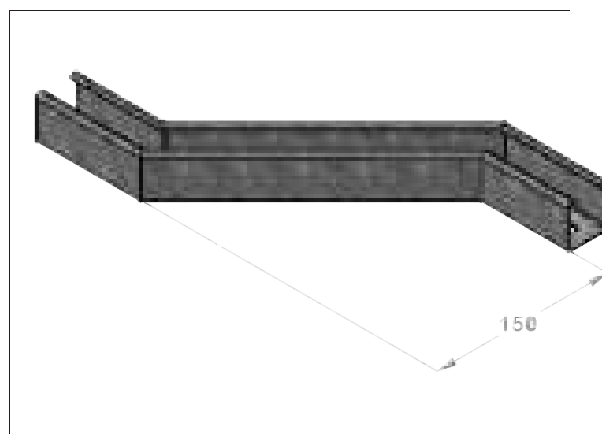
# PERFILADOS

## ACESSÓRIOS

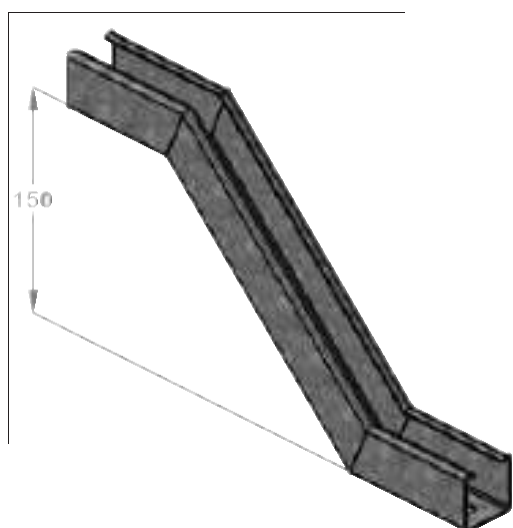
DESVIO HORIZONTAL - DIREITA



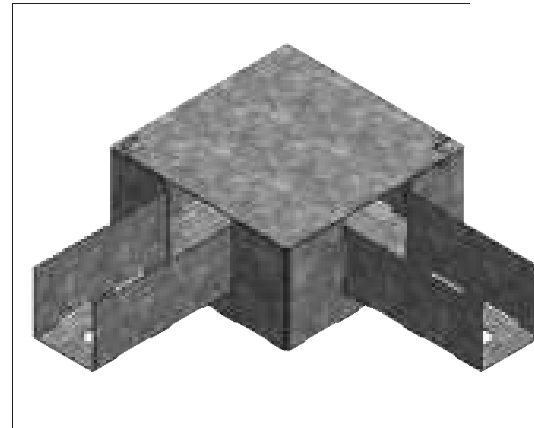
DESVIO HORIZONTAL - ESQUERDA



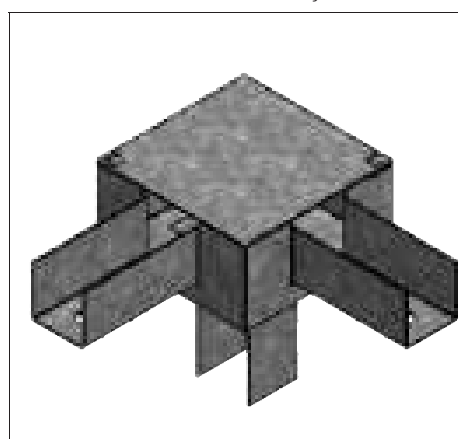
DESVIO VERTICAL



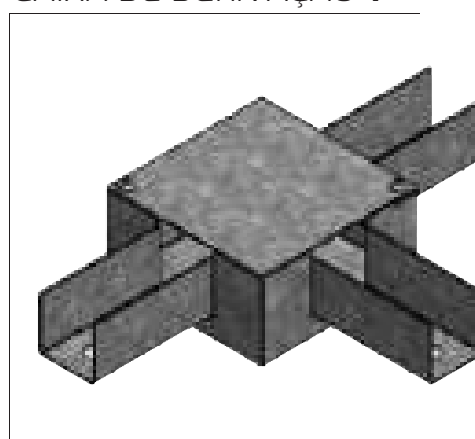
CAIXA DE DERIVAÇÃO **L**



CAIXA DE DERIVAÇÃO **L** - SAÍDA INFERIOR



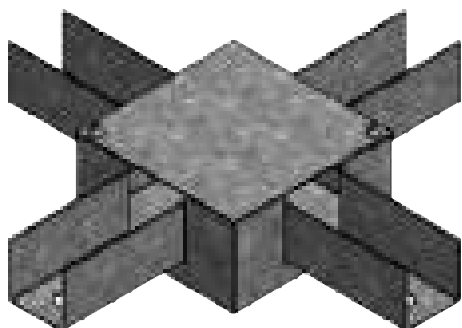
CAIXA DE DERIVAÇÃO **T**



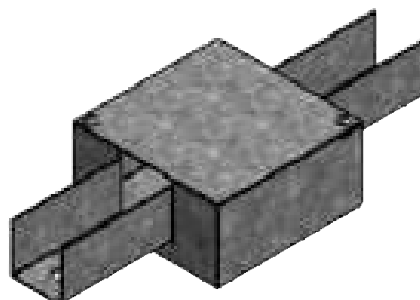
# PERFILADOS

ACESSÓRIOS

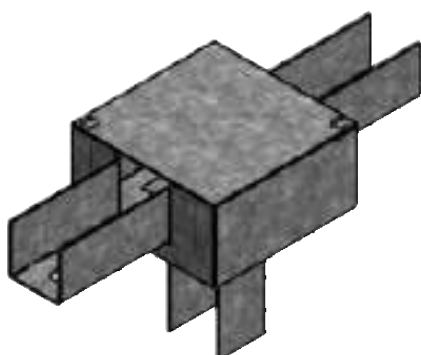
CAIXA DE DERIVAÇÃO **X**



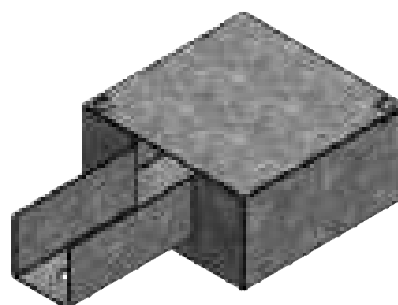
CAIXA DE DERIVAÇÃO **C**



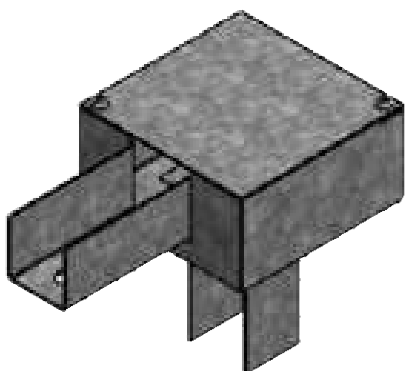
CAIXA DE DERIVAÇÃO **C** - SAÍDA INFERIOR



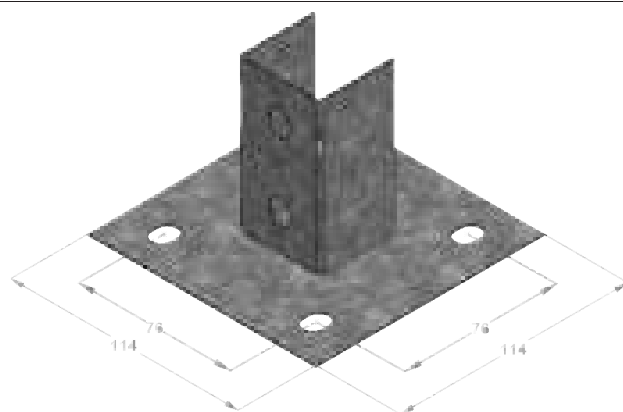
CAIXA DE DERIVAÇÃO **I**



CAIXA DE DERIVAÇÃO **I** - SAÍDA INFERIOR



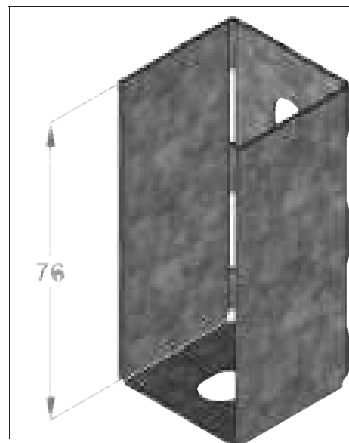
SAPATA EXTERNA - 4 FUROS



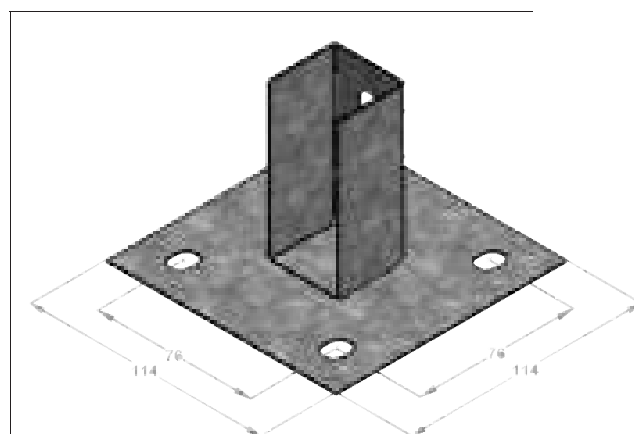
# PERFILADOS

## ACESSÓRIOS

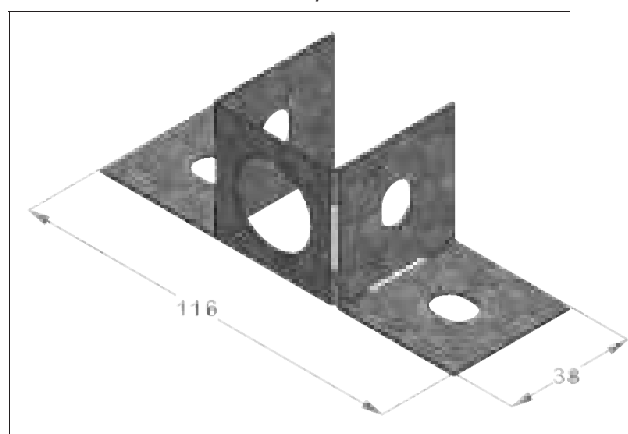
SAPATA INTERNA - 1 FURO



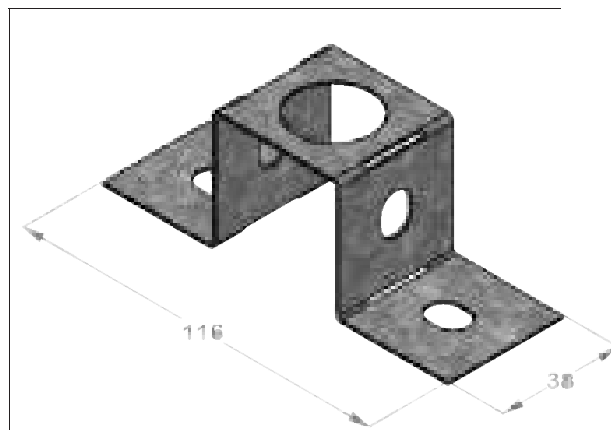
SAPATA INTERNA - 4 FUROS



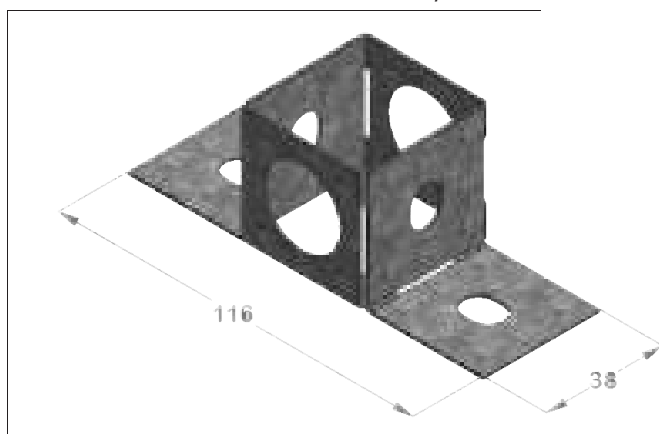
SAÍDA LATERAL P/ ELETRODUTO



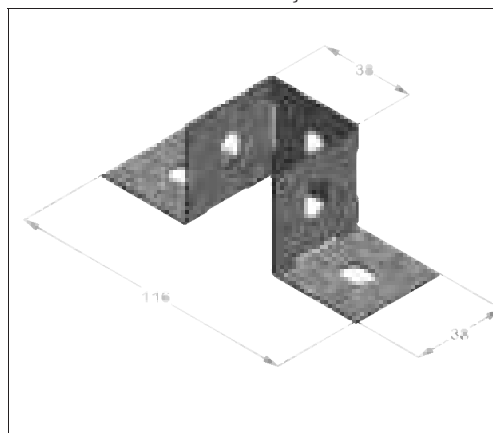
SAÍDA SUPERIOR P/ ELETRODUTO



SAÍDA LATERAL DUPLA P/ ELETRODUTO



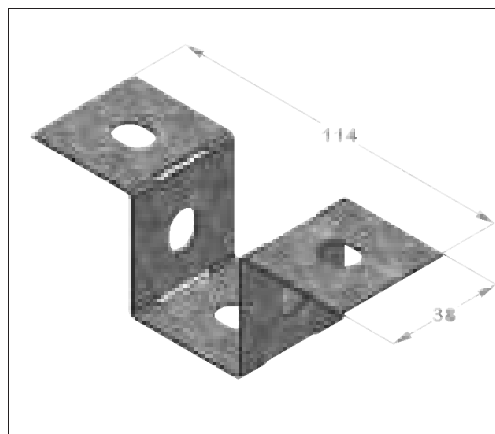
BASE PARA LIGAÇÃO EM PAINEL



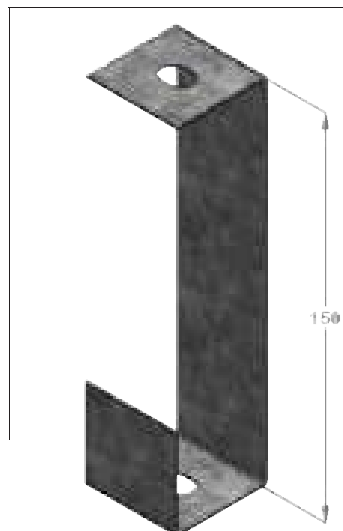
# PERFILADOS

## ACESSÓRIOS

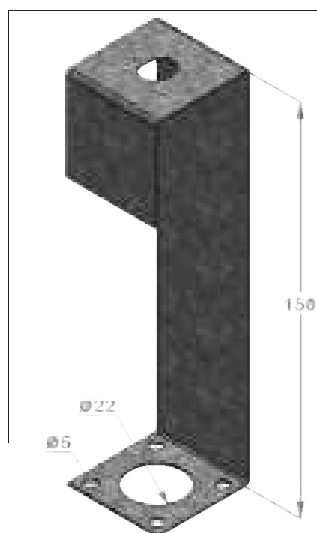
CANTONEIRA **ZZ** PARA PERFILADO



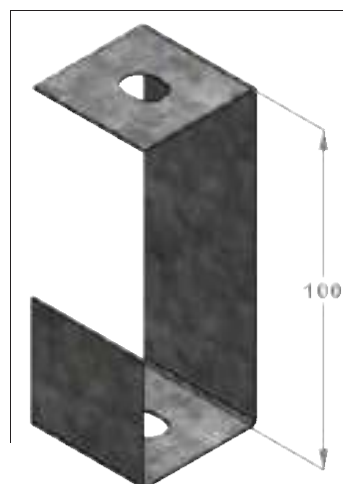
GANCHO LONGO



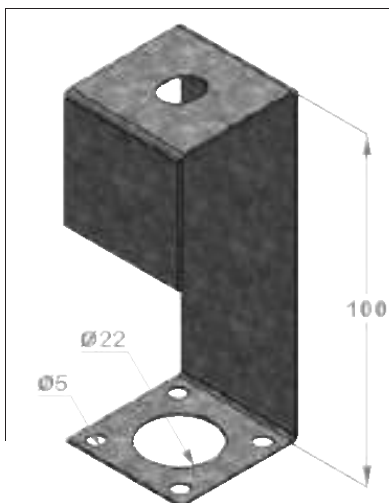
GANCHO LONGO PARA LUMINÁRIA



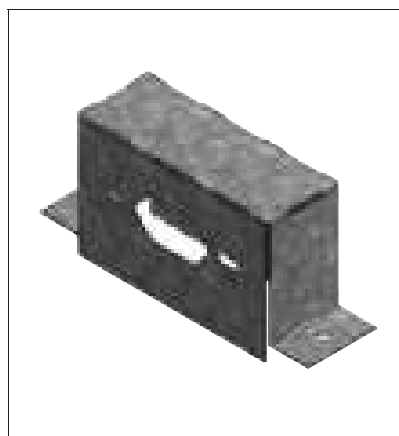
GANCHO CURTO



GANCHO CURTO PARA LUMINÁRIA



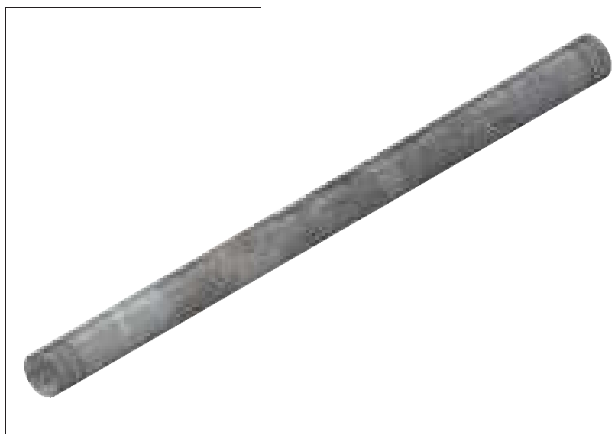
CAIXA PARA TOMADA



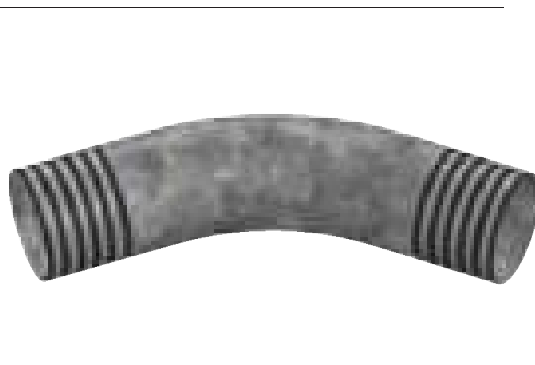
# ELETRODUTOS

ACESSÓRIOS

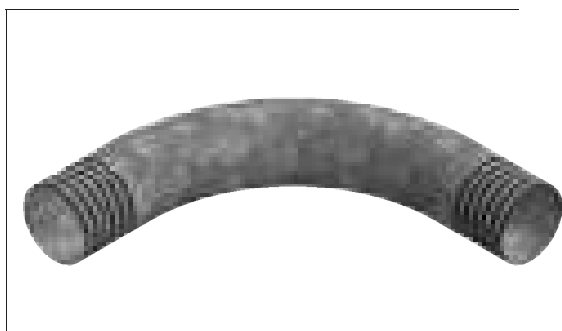
ELETRODUTO



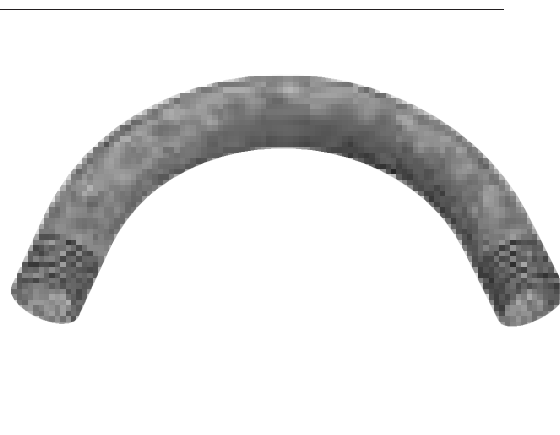
CURVA 45° PARA ELETRODUTO



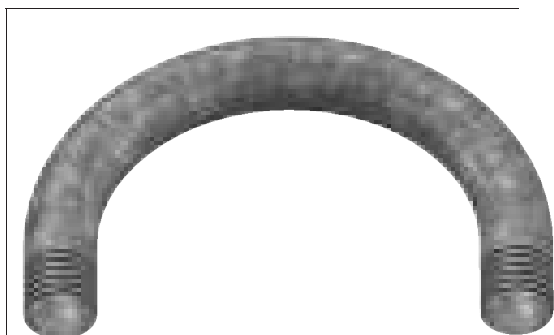
CURVA 90° PARA ELETRODUTO



CURVA 135° PARA ELETRODUTO



CURVA 180° PARA ELETRODUTO



# ELETRODUTOS

## DIMENSÕES E ESPECIFICAÇÕES

### ELETRODUTO LEVE

POL	DN	PAREDE(mm)	EXTERNO	PESO(kg)
1/2	15	0,60	20,70	0,92
3/4	20	0,60	25,60	1,16
1	25	0,60	31,90	1,44

\*Outras dimensões favor consultar.

### ELETRODUTO MÉDIO

POL	DN	PAREDE(mm)	EXTERNO	PESO(kg)
1/2	15	0,80	20,70	1,35
3/4	20	0,80	25,60	1,72
1	25	0,80	31,90	2,14
1.1/4	32	0,95	41,40	2,77
1.1/2	40	0,95	47,60	3,18
2	50	0,95	59,00	3,98
2.1/2	65	1,25	74,90	6,88
3	80	1,25	87,60	8,10
4	100	1,50	113,00	12,78

\*Outras dimensões favor consultar.

### ELETRODUTO PESADO

POL	DN	PAREDE(mm)	EXTERNO	PESO(kg)
1/2	15	1,55	20,70	2,18
3/4	20	1,55	25,60	2,78
1	25	1,55	31,90	3,52
1.1/4	32	1,95	41,40	6,07
1.1/2	40	1,95	47,60	7,01
2	50	1,95	59,00	8,84
2.1/2	65	2,30	74,90	12,55
3	80	2,30	87,60	14,35
4	100	2,30	113,00	18,75

\*Outras dimensões favor consultar.

# ELETRODUTOS

## DIMENSÕES E ESPECIFICAÇÕES

### ELETRODUTO NBR 5597 (NPT) E NBR 5598 (BSP)

POL	DN	PAREDE(mm)	EXTERNO	PESO(kg)
1/2	15	2,25	21,30	3,40
3/4	20	2,25	26,90	4,35
1	25	2,65	33,70	6,42
1.1/4	32	2,65	42,40	9,39
1.1/2	40	3,00	48,30	10,82
2	50	3,00	60,30	15,10
2.1/2	65	3,35	73,10	19,20
3	80	3,35	88,90	22,90
4	100	3,75	114,30	33,00

\*Outras dimensões favor consultar.

### CURVA PARA ELETRODUTO PRÉ-ZINCADO

POL	DN	EXTERNO	RAIO (45°, 90°, 135° e 180°)
1/2	15	20,70	65,00
3/4	20	25,90	80,00
1	25	31,90	100,00
1.1/4	32	41,40	130,00
1.1/2	40	47,60	145,00
2	50	59,00	215,00
2.1/2	65	74,90	300,00
3	80	87,60	350,00
4	100	113,00	440,00

\*Outras dimensões favor consultar.

### CURVA NBR 5597 (NPT) E NBR 5598 (BSP)

POL	DN	PAREDE(mm)	EXTERNO	RAIO MÍNIMO
1/2	15	2,25	21,30	102
3/4	20	2,25	26,90	114
1	25	2,65	33,70	146
1.1/4	32	2,65	42,40	184
1.1/2	40	3,00	48,30	210
2	50	3,00	60,30	241
2.1/2	65	3,35	73,00	267
3	80	3,35	88,90	330
4	100	3,75	114,30	406

\*Outras dimensões favor consultar.

# ELETRODUTOS

DIMENSÕES E ESPECIFICAÇÕES

## LUVAS GE/GF

POL	DN
1/2	15
3/4	20
1	25
1.1/4	32
1.1/2	40
2	50
2.1/2	65
3	80
4	100

\*Outras dimensões favor consultar.







+55 (16) 3518-7100

[vendas.eletrocalhas@permetal.com.br](mailto:vendas.eletrocalhas@permetal.com.br)

Rodovia Anhaguera SP 330 Km 298

193m Cravinhos - São Paulo

[www.permetaleletrocalhas.com.br](http://www.permetaleletrocalhas.com.br)