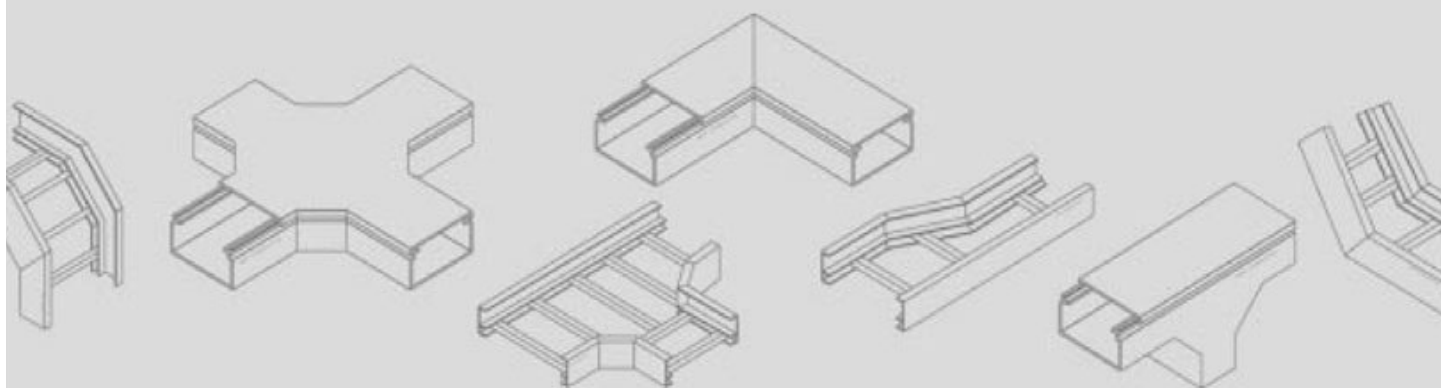


C A T Á L O G O



# ***Bandeja Soporte Cable***

***Importador PRFV s.a.:***

Congreso 8752

(B1657AZN) Loma Hermosa

Buenos Aires - Argentina

Tel. (5411) 4769-5108

[prfvsa@arnet.com.ar](mailto:prfvsa@arnet.com.ar)

## **Apresentação**

*Este manual técnico apresenta leitões para cabos e eletrocalhas fabricados em Plástico Reforçado com Fibra de Vidro – PRFV – pelo processo de pultrusão. Material inovador, fruto da mais moderna tecnologia em fabricação de perfis, certamente trará uma relação custo/benefício mais atraente do que as opções em aço e alumínio.*

*Os produtos WPP Compósitos oferecem inúmeras soluções para qualquer projeto de cabeamento elétrico, já que podem ser confeccionados em tamanhos especiais.*

## **Características do Material**

- Alta resistência mecânica: apresenta resistência similar à do aço.
- Baixo peso: tem peso 75% menor que o do aço e 30% menor que o do alumínio.
- Estabilidade dimensional: as dimensões não mudam mesmo quando submetido a esforços contínuos. Possui baixo coeficiente de expansão térmica linear.
- Resistência à corrosão: possui alta resistência a ambientes corrosivos (Ex.: Imune à ação da maioria dos agentes químicos agressivos e à salinidade da atmosfera marítima).
- Não-condutor: proporciona excelente isolamento elétrica e baixa condutividade térmica.
- Não-metálico: ideal para ambientes sensíveis à ação magnética.
- Apresenta elevada resistência química e a impactos.
- Excelente acabamento superficial: pode ser pintado para se adaptar a qualquer projeto.
- Auto-extingüível: impede a propagação de chamas. Aprovado no teste do IPEI UL94 Grau V0.
- Resistente ao ataque dos raios UV.
- É transparente à radiofrequência.
- De fácil instalação e usinagem.
- Não-higroscópico.

## **Informações Técnicas**

- Os produtos WPP Compósitos podem ser facilmente cortados, furados e usinados, com uso de brocas e serra de corte com diamante.
- Cada comprimento de seção de leito deve ser igual ou maior que o vão de apoio.
- Qualquer superfície que tenha sido furada, cortada, fixada ou quebrada deve ser selada com resina.
- Atenção: operadores de serra devem usar equipamentos de proteção, tais como, óculos, máscara e luvas.

## Comparações

### ESPESSURA DE PULTRUDADO COMPARADO COM AÇO, ALUMÍNIO E MADEIRA

Tipo de Pultrudado	AÇO*			ALUMÍNIO*			MADEIRA*		
	Tração	Rigidez	Flexão	Tração	Rigidez	Flexão	Tração	Rigidez	Flexão
50% Manta e 50% Roving (Perfil Usual)	2,5	2,15	1,82	1,0	1,49	1,16	0,25	0,79	0,45
70% Roving (barras sólidas)	1,0	1,71	1,12	0,4	1,19	0,71	0,1	0,63	0,27

\* Conforme Engineered Materials Handbook, vol 1, "Composites", pg 541

Exemplo: Um pultrudado com 50% de Manta e Roving necessitará ser 1,16 vezes mais espesso que um perfil de alumínio para ter a mesma resistência à flexão.

## Propriedades

MECÂNICAS	ORIENTAÇÃO	UNIDADE	PERFIS	BARRAS SÓLIDAS
Resistência Máxima à Tração	Longitudinal	kgf/cm <sup>2</sup>	2100	7000
	Transversal	kgf/cm <sup>2</sup>	490	N.A.
Módulo de Elasticidade na Tração	Longitudinal	kgf/cm <sup>2</sup>	175000	420000
	Transversal	kgf/cm <sup>2</sup>	56000	N.A.
Resistência Máxima à Compressão	Longitudinal	kgf/cm <sup>2</sup>	2100	4200
	Transversal	kgf/cm <sup>2</sup>	1050	N.A.
Módulo de Elasticidade na Compressão	Longitudinal	kgf/cm <sup>2</sup>	175000	N.T.
	Transversal	kgf/cm <sup>2</sup>	70000	N.A.
Resistência Máxima à Flexão	Longitudinal	kgf/cm <sup>2</sup>	2100	7000
	Transversal	kgf/cm <sup>2</sup>	700	N.A.
Módulo de Elasticidade na Flexão	Longitudinal	kgf/cm <sup>2</sup>	112000	420000
	Transversal	kgf/cm <sup>2</sup>	56000	N.A.
Resistência ao Impacto Izod	Longitudinal	kgf.m/cm	1,4	2,2
	Transversal	kgf.m/cm	0,2	N.A.
Módulo de Elasticidade, seção plena	Longitudinal	kgf/cm <sup>2</sup>	189000	420000

FÍSICAS	ORIENTAÇÃO	UNIDADE	PERFIS	BARRAS SÓLIDAS
Dureza Barcol		-	>50	>50
Absorção de água em 24 horas		% máx	0,6	0,25
Densidade		g/cm <sup>3</sup>	1,70-1,88	2,0
Coefficiente de Expansão Térmica		10 <sup>-6</sup> mm/mm/°C	8	3
Condutividade Térmica		W-m/m <sup>2</sup> /°C	83,1	14,5

ELÉTRICAS	ORIENTAÇÃO	UNIDADE	PERFIS	BARRAS SÓLIDAS
Resistência ao arco	Longitudinal	segundos	120	140
Resistência Dielétrica	Longitudinal	kV/mm	1,38	1,38
Resistência Dielétrica	Perpendicular	V/mm	200	-
Constante Dielétrica	Perpendicular	@60Hz	5,6	-

INFLAMABILIDADE	NORMA	CLASSIFICAÇÃO
	ASTM D635	Auto-extingüível
	UL 94	Grau VØ
	IEC 60092-101	Flame-retardant



## Testes Realizados

RELATÓRIOS DE ENSAIOS DO IPT A QUE FORAM SUBMETIDOS OS PRODUTOS WPP COMPÓSITOS. \*OS PRODUTOS FORAM APROVADOS SEGUNDO AS SEGUINTE NORMAS:

NORMAS	DESCRIÇÃO DE TESTE	
NES 713/1981	Determination of toxicity index of the products of combustion from small specimens of materials.	Determinação do índice de toxicidade.
ASTM E662-92	Specific Optical Density of smoke Generated by Solid Material.	Determinação da densidade ótica específica de fumaça.
ASTM D 635-96	Standard Test Method for Rate of Burning and/or Extend and Time of Burning of Supporting Plastics in a Horizontal Position.	Determinação da razão de queima e/ou extensão e tempo de queima de plásticos rígidos na posição horizontal.
ASTM D 543-87	Resistance of Plastics to Chemical Reagents.	Resistência ao ataque de produtos químicos.
ASTM D 570-81	Water Absorption of Plastics.	Determinação do grau de absorção de água.
ASTM D 256-92	Impact Resistance of Plastics and Electrical Insulating Materials.	Determinação da resistência a impactos. Impacto IZOD.
ASTM D 638-91	Tensile Properties of Plastics.	Resistência à tração.
ASTM D 2583-92	Indentation Hardness of Rigid Plastics by Means of Barcol Impressor.	Teste de dureza Barcol.
ASTM G 53-96	Operating Light-and Water - Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials.	Determinação da resistência à radiação UV.
BS 2782	Determination of changes in Colour and variations in properties after Exposure to daylight Under Glass, natural weathering or artificial light.	Avaliação visual.

## RELATÓRIOS DE ENSAIOS DO IPEI - INSTITUTO DE PESQUISA E ESTUDOS INDUSTRIAIS A QUE FORAM SUBMETIDOS OS PRODUTOS WPP COMPÓSITOS. \*OS PRODUTOS FORAM APROVADOS SEGUNDO AS SEGUINTE NORMAS:

NORMAS	DESCRIÇÃO DE TESTE	CLASSIFICAÇÃO
UL 94	Determinação da inflamabilidade de materiais plásticos utilizados em dispositivos e equipamentos.	Grau VØ
IEC 60092-101	Instalações elétricas em embarcações	Flame-retardant

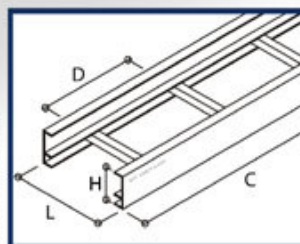
Obs.: Todos os resultados estão de acordo com as especificações. Sendo necessária, podemos fornecer cópias dos comprovantes dos testes.

## Escolha o Leito Adequado

Para atender suas necessidades com segurança e economia, três dados básicos de projeto são necessários:

- Largura do leito.
- Carga linear.
- Distâncias entre os suportes do leito (vão).

Com base nestas variáveis e empregando a tabela de carga, determina-se o leito WPP mais adequado ao seu projeto.



Carac.	Comprimento (C)	Largura (L)	Espaçamento de travessas (D)	Furos p/ talas de junção	Altura do leito (H)	Parafusos p/ talas de junção
LEVE	3000mm 6000mm	200, 300, 400, 500, 600, 700, 800, 900 e 1000	300mm	11mm	4" (101,6mm)	10mm
PESADO	3000mm 6000mm	200, 300, 400, 500, 600, 700, 800, 900, 1000	300mm	11mm	6" (152,4mm)	10mm

## Código de Leitos

Exemplo de código de leitos para cabos WPP Compósitos: **LCVETP90-P-L400R600**

DESCRIÇÃO	CÓDIGO	ÂNGULO	TIPO	LARGURA	RAIO
Leito Curva Vertical Externa c/ Tampa	LCVETP	90°	Pesado	400mm	600mm

### LISTA DE VARIAÇÕES DE CÓDIGOS

Descrição .....	Código	Descrição .....	Código
Leito Trecho Reto .....	LTR	Leito Redução à Direita .....	LRD
Leito Curva Horizontal 45 .....	LCH45	Leito Redução à Esquerda .....	LRE
Leito Curva Horizontal 90 .....	LCH90	Leito Te Horizontal .....	LTH
Leito Cotovelo Reto .....	LCR	Leito Te Vertical Subida .....	LTVS
Leito Curva Vertical Externa 45 .....	LCVE45	Leito Te Vertical Descida .....	LTVD
Leito Curva Vertical Externa 90 .....	LCVE90	Leito Grapa .....	LG
Leito Curva Vertical Interna 45 .....	LCVI45	Leito Tala de Junção Horizontal .....	LTJH
Leito Curva Vertical Interna 90 .....	LCVI90	Leito Tala de Junção Vertical .....	LTJV
Leito Curva de Inversão .....	LCI	Leito Tala de Junção Vertical Articulada ..	LTJV-A
Leito Cruzeta .....	LCZ	Leito Septo Divisor .....	LSD
Leito Redução Concêntrica .....	LRC	Leito Tampa .....	LTP

### EXEMPLOS DE CÓDIGOS COMPLETOS

Descrição .....	Código
Leito Trecho Reto c/ Tampa Pesado Largura 300mm .....	LTRTP-P-L300
Leito Curva Horizontal 45 Leve Largura 600, Raio 300mm .....	LCH45-L-L600R300
Leito Redução à direita Pesado E 600, S 400mm .....	LRD-P-E600S400
Leito Tala de Junção Vertical Leve Articulada .....	LTJV-L-A
Leito Tampa Curva Horizontal 90 Pesado Largura 200, Raio 600mm .....	LTPCH90-P-L200R600

### CÓDIGOS DAS TAMPAS

Descrição .....	Código
Leito Tampa para Trecho Reto .....	LTPTR
Leito Tampa para Curva Horizontal 45 .....	LTPCH45
Leito Tampa para Te Horizontal .....	LTPTH
Leito Tampa para Cotovelo Reto .....	LTPCR
Leito Tampa p/ Curva Vertical Externa 45 .....	LTPCVE45

## Peças Básicas



## Tampa para Leitos





# Leitos para cabos

## Código das Tampas

### TAMPA PARA LEITO – TÊ HORIZONTAL

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPTH-L-L100R300	LTPTH-L-L100R600	LTPTH-P-L100R300	LTPTH-P-L100R600
200	LTPTH-L-L200R300	LTPTH-L-L200R600	LTPTH-P-L200R300	LTPTH-P-L200R600
300	LTPTH-L-L300R300	LTPTH-L-L300R600	LTPTH-P-L300R300	LTPTH-P-L300R600
400	LTPTH-L-L400R300	LTPTH-L-L400R600	LTPTH-P-L400R300	LTPTH-P-L400R600
500	LTPTH-L-L500R300	LTPTH-L-L500R600	LTPTH-P-L500R300	LTPTH-P-L500R600
600	LTPTH-L-L600R300	LTPTH-L-L600R600	LTPTH-P-L600R300	LTPTH-P-L600R600
700	LTPTH-L-L700R300	LTPTH-L-L700R600	LTPTH-P-L700R300	LTPTH-P-L700R600
800	LTPTH-L-L800R300	LTPTH-L-L800R600	LTPTH-P-L800R300	LTPTH-P-L800R600
900	LTPTH-L-L900R300	LTPTH-L-L900R600	LTPTH-P-L900R300	LTPTH-P-L900R600
1000	LTPTH-L-L1000R300	LTPTH-L-L1000R600	LTPTH-P-L1000R300	LTPTH-P-L1000R600

### TAMPA PARA LEITO – TÊ VERTICAL DE SUBIDA

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPTVS-L-L100R300	LTPTVS-L-L100R600	LTPTVS-P-L100R300	LTPTVS-P-L100R600
200	LTPTVS-L-L200R300	LTPTVS-L-L200R600	LTPTVS-P-L200R300	LTPTVS-P-L200R600
300	LTPTVS-L-L300R300	LTPTVS-L-L300R600	LTPTVS-P-L300R300	LTPTVS-P-L300R600
400	LTPTVS-L-L400R300	LTPTVS-L-L400R600	LTPTVS-P-L400R300	LTPTVS-P-L400R600
500	LTPTVS-L-L500R300	LTPTVS-L-L500R600	LTPTVS-P-L500R300	LTPTVS-P-L500R600
600	LTPTVS-L-L600R300	LTPTVS-L-L600R600	LTPTVS-P-L600R300	LTPTVS-P-L600R600
700	LTPTVS-L-L700R300	LTPTVS-L-L700R600	LTPTVS-P-L700R300	LTPTVS-P-L700R600
800	LTPTVS-L-L800R300	LTPTVS-L-L800R600	LTPTVS-P-L800R300	LTPTVS-P-L800R600
900	LTPTVS-L-L900R300	LTPTVS-L-L900R600	LTPTVS-P-L900R300	LTPTVS-P-L900R600
1000	LTPTVS-L-L1000R300	LTPTVS-L-L1000R600	LTPTVS-P-L1000R300	LTPTVS-P-L1000R600

### TAMPA PARA LEITO – TÊ VERTICAL DE DESCIDA

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPTVD-L-L100R300	LTPTVD-L-L100R600	LTPTVD-P-L100R300	LTPTVD-P-L100R600
200	LTPTVD-L-L200R300	LTPTVD-L-L200R600	LTPTVD-P-L200R300	LTPTVD-P-L200R600
300	LTPTVD-L-L300R300	LTPTVD-L-L300R600	LTPTVD-P-L300R300	LTPTVD-P-L300R600
400	LTPTVD-L-L400R300	LTPTVD-L-L400R600	LTPTVD-P-L400R300	LTPTVD-P-L400R600
500	LTPTVD-L-L500R300	LTPTVD-L-L500R600	LTPTVD-P-L500R300	LTPTVD-P-L500R600
600	LTPTVD-L-L600R300	LTPTVD-L-L600R600	LTPTVD-P-L600R300	LTPTVD-P-L600R600
700	LTPTVD-L-L700R300	LTPTVD-L-L700R600	LTPTVD-P-L700R300	LTPTVD-P-L700R600
800	LTPTVD-L-L800R300	LTPTVD-L-L800R600	LTPTVD-P-L800R300	LTPTVD-P-L800R600
900	LTPTVD-L-L900R300	LTPTVD-L-L900R600	LTPTVD-P-L900R300	LTPTVD-P-L900R600
1000	LTPTVD-L-L1000R300	LTPTVD-L-L1000R600	LTPTVD-P-L1000R300	LTPTVD-P-L1000R600

### TAMPA PARA LEITO – CURVA HORIZONTAL 45°

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPCH45-L-L100R300	LTPCH45-L-L100R600	LTPCH45-P-L100R300	LTPCH45-P-L100R600
200	LTPCH45-L-L200R300	LTPCH45-L-L200R600	LTPCH45-P-L200R300	LTPCH45-P-L200R600
300	LTPCH45-L-L300R300	LTPCH45-L-L300R600	LTPCH45-P-L300R300	LTPCH45-P-L300R600
400	LTPCH45-L-L400R300	LTPCH45-L-L400R600	LTPCH45-P-L400R300	LTPCH45-P-L400R600
500	LTPCH45-L-L500R300	LTPCH45-L-L500R600	LTPCH45-P-L500R300	LTPCH45-P-L500R600
600	LTPCH45-L-L600R300	LTPCH45-L-L600R600	LTPCH45-P-L600R300	LTPCH45-P-L600R600
700	LTPCH45-L-L700R300	LTPCH45-L-L700R600	LTPCH45-P-L700R300	LTPCH45-P-L700R600
800	LTPCH45-L-L800R300	LTPCH45-L-L800R600	LTPCH45-P-L800R300	LTPCH45-P-L800R600
900	LTPCH45-L-L900R300	LTPCH45-L-L900R600	LTPCH45-P-L900R300	LTPCH45-P-L900R600
1000	LTPCH45-L-L1000R300	LTPCH45-L-L1000R600	LTPCH45-P-L1000R300	LTPCH45-P-L1000R600

### TAMPA PARA LEITO – CURVA HORIZONTAL 90°

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPCH90-L-L100R300	LTPCH90-L-L100R600	LTPCH90-P-L100R300	LTPCH90-P-L100R600
200	LTPCH90-L-L200R300	LTPCH90-L-L200R600	LTPCH90-P-L200R300	LTPCH90-P-L200R600
300	LTPCH90-L-L300R300	LTPCH90-L-L300R600	LTPCH90-P-L300R300	LTPCH90-P-L300R600
400	LTPCH90-L-L400R300	LTPCH90-L-L400R600	LTPCH90-P-L400R300	LTPCH90-P-L400R600
500	LTPCH90-L-L500R300	LTPCH90-L-L500R600	LTPCH90-P-L500R300	LTPCH90-P-L500R600
600	LTPCH90-L-L600R300	LTPCH90-L-L600R600	LTPCH90-P-L600R300	LTPCH90-P-L600R600
700	LTPCH90-L-L700R300	LTPCH90-L-L700R600	LTPCH90-P-L700R300	LTPCH90-P-L700R600
800	LTPCH90-L-L800R300	LTPCH90-L-L800R600	LTPCH90-P-L800R300	LTPCH90-P-L800R600
900	LTPCH90-L-L900R300	LTPCH90-L-L900R600	LTPCH90-P-L900R300	LTPCH90-P-L900R600
1000	LTPCH90-L-L1000R300	LTPCH90-L-L1000R600	LTPCH90-P-L1000R300	LTPCH90-P-L1000R600



# Leitos para cabos Código das Tampas

## TAMPA PARA LEITO – TÊ HORIZONTAL

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPTH-L-L100R300	LTPTH-L-L100R600	LTPTH-P-L100R300	LTPTH-P-L100R600
200	LTPTH-L-L200R300	LTPTH-L-L200R600	LTPTH-P-L200R300	LTPTH-P-L200R600
300	LTPTH-L-L300R300	LTPTH-L-L300R600	LTPTH-P-L300R300	LTPTH-P-L300R600
400	LTPTH-L-L400R300	LTPTH-L-L400R600	LTPTH-P-L400R300	LTPTH-P-L400R600
500	LTPTH-L-L500R300	LTPTH-L-L500R600	LTPTH-P-L500R300	LTPTH-P-L500R600
600	LTPTH-L-L600R300	LTPTH-L-L600R600	LTPTH-P-L600R300	LTPTH-P-L600R600
700	LTPTH-L-L700R300	LTPTH-L-L700R600	LTPTH-P-L700R300	LTPTH-P-L700R600
800	LTPTH-L-L800R300	LTPTH-L-L800R600	LTPTH-P-L800R300	LTPTH-P-L800R600
900	LTPTH-L-L900R300	LTPTH-L-L900R600	LTPTH-P-L900R300	LTPTH-P-L900R600
1000	LTPTH-L-L1000R300	LTPTH-L-L1000R600	LTPTH-P-L1000R300	LTPTH-P-L1000R600

## TAMPA PARA LEITO – TÊ VERTICAL DE SUBIDA

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPTVS-L-L100R300	LTPTVS-L-L100R600	LTPTVS-P-L100R300	LTPTVS-P-L100R600
200	LTPTVS-L-L200R300	LTPTVS-L-L200R600	LTPTVS-P-L200R300	LTPTVS-P-L200R600
300	LTPTVS-L-L300R300	LTPTVS-L-L300R600	LTPTVS-P-L300R300	LTPTVS-P-L300R600
400	LTPTVS-L-L400R300	LTPTVS-L-L400R600	LTPTVS-P-L400R300	LTPTVS-P-L400R600
500	LTPTVS-L-L500R300	LTPTVS-L-L500R600	LTPTVS-P-L500R300	LTPTVS-P-L500R600
600	LTPTVS-L-L600R300	LTPTVS-L-L600R600	LTPTVS-P-L600R300	LTPTVS-P-L600R600
700	LTPTVS-L-L700R300	LTPTVS-L-L700R600	LTPTVS-P-L700R300	LTPTVS-P-L700R600
800	LTPTVS-L-L800R300	LTPTVS-L-L800R600	LTPTVS-P-L800R300	LTPTVS-P-L800R600
900	LTPTVS-L-L900R300	LTPTVS-L-L900R600	LTPTVS-P-L900R300	LTPTVS-P-L900R600
1000	LTPTVS-L-L1000R300	LTPTVS-L-L1000R600	LTPTVS-P-L1000R300	LTPTVS-P-L1000R600

## TAMPA PARA LEITO – TÊ VERTICAL DE DESCIDA

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPTVD-L-L100R300	LTPTVD-L-L100R600	LTPTVD-P-L100R300	LTPTVD-P-L100R600
200	LTPTVD-L-L200R300	LTPTVD-L-L200R600	LTPTVD-P-L200R300	LTPTVD-P-L200R600
300	LTPTVD-L-L300R300	LTPTVD-L-L300R600	LTPTVD-P-L300R300	LTPTVD-P-L300R600
400	LTPTVD-L-L400R300	LTPTVD-L-L400R600	LTPTVD-P-L400R300	LTPTVD-P-L400R600
500	LTPTVD-L-L500R300	LTPTVD-L-L500R600	LTPTVD-P-L500R300	LTPTVD-P-L500R600
600	LTPTVD-L-L600R300	LTPTVD-L-L600R600	LTPTVD-P-L600R300	LTPTVD-P-L600R600
700	LTPTVD-L-L700R300	LTPTVD-L-L700R600	LTPTVD-P-L700R300	LTPTVD-P-L700R600
800	LTPTVD-L-L800R300	LTPTVD-L-L800R600	LTPTVD-P-L800R300	LTPTVD-P-L800R600
900	LTPTVD-L-L900R300	LTPTVD-L-L900R600	LTPTVD-P-L900R300	LTPTVD-P-L900R600
1000	LTPTVD-L-L1000R300	LTPTVD-L-L1000R600	LTPTVD-P-L1000R300	LTPTVD-P-L1000R600

## TAMPA PARA LEITO – CURVA HORIZONTAL 45°

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPCH45-L-L100R300	LTPCH45-L-L100R600	LTPCH45-P-L100R300	LTPCH45-P-L100R600
200	LTPCH45-L-L200R300	LTPCH45-L-L200R600	LTPCH45-P-L200R300	LTPCH45-P-L200R600
300	LTPCH45-L-L300R300	LTPCH45-L-L300R600	LTPCH45-P-L300R300	LTPCH45-P-L300R600
400	LTPCH45-L-L400R300	LTPCH45-L-L400R600	LTPCH45-P-L400R300	LTPCH45-P-L400R600
500	LTPCH45-L-L500R300	LTPCH45-L-L500R600	LTPCH45-P-L500R300	LTPCH45-P-L500R600
600	LTPCH45-L-L600R300	LTPCH45-L-L600R600	LTPCH45-P-L600R300	LTPCH45-P-L600R600
700	LTPCH45-L-L700R300	LTPCH45-L-L700R600	LTPCH45-P-L700R300	LTPCH45-P-L700R600
800	LTPCH45-L-L800R300	LTPCH45-L-L800R600	LTPCH45-P-L800R300	LTPCH45-P-L800R600
900	LTPCH45-L-L900R300	LTPCH45-L-L900R600	LTPCH45-P-L900R300	LTPCH45-P-L900R600
1000	LTPCH45-L-L1000R300	LTPCH45-L-L1000R600	LTPCH45-P-L1000R300	LTPCH45-P-L1000R600

## TAMPA PARA LEITO – CURVA HORIZONTAL 90°

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTPCH90-L-L100R300	LTPCH90-L-L100R600	LTPCH90-P-L100R300	LTPCH90-P-L100R600
200	LTPCH90-L-L200R300	LTPCH90-L-L200R600	LTPCH90-P-L200R300	LTPCH90-P-L200R600
300	LTPCH90-L-L300R300	LTPCH90-L-L300R600	LTPCH90-P-L300R300	LTPCH90-P-L300R600
400	LTPCH90-L-L400R300	LTPCH90-L-L400R600	LTPCH90-P-L400R300	LTPCH90-P-L400R600
500	LTPCH90-L-L500R300	LTPCH90-L-L500R600	LTPCH90-P-L500R300	LTPCH90-P-L500R600
600	LTPCH90-L-L600R300	LTPCH90-L-L600R600	LTPCH90-P-L600R300	LTPCH90-P-L600R600
700	LTPCH90-L-L700R300	LTPCH90-L-L700R600	LTPCH90-P-L700R300	LTPCH90-P-L700R600
800	LTPCH90-L-L800R300	LTPCH90-L-L800R600	LTPCH90-P-L800R300	LTPCH90-P-L800R600
900	LTPCH90-L-L900R300	LTPCH90-L-L900R600	LTPCH90-P-L900R300	LTPCH90-P-L900R600
1000	LTPCH90-L-L1000R300	LTPCH90-L-L1000R600	LTPCH90-P-L1000R300	LTPCH90-P-L1000R600



**TAMPA PARA LEITO- COTOVELO RETO**

Largura	Leve	Pesado
100	LTPCR-L-L100	LTPCR-P-L100
200	LTPCR-L-L200	LTPCR-P-L200
300	LTPCR-L-L300	LTPCR-P-L300
400	LTPCR-L-L400	LTPCR-P-L400
500	LTPCR-L-L500	LTPCR-P-L500
600	LTPCR-L-L600	LTPCR-P-L600
700	LTPCR-L-L700	LTPCR-P-L700
800	LTPCR-L-L800	LTPCR-P-L800
900	LTPCR-L-L900	LTPCR-P-L900
1000	LTPCR-L-L1000	LTPCR-P-L1000

**TAMPA PARA LEITO – TRECHO RETO**

Largura	Leve	Pesado
100	LTPTR-L-L100	LTPTR-P-L100
200	LTPTR-L-L200	LTPTR-P-L200
300	LTPTR-L-L300	LTPTR-P-L300
400	LTPTR-L-L400	LTPTR-P-L400
500	LTPTR-L-L500	LTPTR-P-L500
600	LTPTR-L-L600	LTPTR-P-L600
700	LTPTR-L-L700	LTPTR-P-L700
800	LTPTR-L-L800	LTPTR-P-L800
900	LTPTR-L-L900	LTPTR-P-L900
1000	LTPTR-L-L1000	LTPTR-P-L1000

Comprimento: 3.000mm e 6.000 mm.

**TAMPA PARA LEITO  
REDUÇÃO À ESQUERDA**

Leve	Pesado
LTPRE-L-E10005100	LTPRE-P-E10005100
LTPRE-L-E10005200	LTPRE-P-E10005200
LTPRE-L-E10005300	LTPRE-P-E10005300
LTPRE-L-E10005400	LTPRE-P-E10005400
LTPRE-L-E10005500	LTPRE-P-E10005500
LTPRE-L-E10005600	LTPRE-P-E10005600
LTPRE-L-E10005700	LTPRE-P-E10005700
LTPRE-L-E10005800	LTPRE-P-E10005800
LTPRE-L-E10005900	LTPRE-P-E10005900
LTPRE-L-E9005100	LTPRE-P-E9005100
LTPRE-L-E9005200	LTPRE-P-E9005200
LTPRE-L-E9005300	LTPRE-P-E9005300
LTPRE-L-E9005400	LTPRE-P-E9005400
LTPRE-L-E9005500	LTPRE-P-E9005500
LTPRE-L-E9005600	LTPRE-P-E9005600
LTPRE-L-E9005700	LTPRE-P-E9005700
LTPRE-L-E9005800	LTPRE-P-E9005800
LTPRE-L-E8005100	LTPRE-P-E8005100
LTPRE-L-E8005200	LTPRE-P-E8005200
LTPRE-L-E8005300	LTPRE-P-E8005300
LTPRE-L-E8005400	LTPRE-P-E8005400
LTPRE-L-E8005500	LTPRE-P-E8005500
LTPRE-L-E8005600	LTPRE-P-E8005600
LTPRE-L-E8005700	LTPRE-P-E8005700
LTPRE-L-E7005100	LTPRE-P-E7005100
LTPRE-L-E7005200	LTPRE-P-E7005200
LTPRE-L-E7005300	LTPRE-P-E7005300
LTPRE-L-E7005400	LTPRE-P-E7005400
LTPRE-L-E7005500	LTPRE-P-E7005500
LTPRE-L-E7005600	LTPRE-P-E7005600
LTPRE-L-E6005100	LTPRE-P-E6005100
LTPRE-L-E6005200	LTPRE-P-E6005200
LTPRE-L-E6005300	LTPRE-P-E6005300
LTPRE-L-E6005400	LTPRE-P-E6005400
LTPRE-L-E6005500	LTPRE-P-E6005500
LTPRD-L-E5005100	LTPRE-P-E5005100
LTPRD-L-E5005200	LTPRE-P-E5005200
LTPRD-L-E5005300	LTPRE-P-E5005300
LTPRD-L-E5005400	LTPRE-P-E5005400
LTPRE-L-E4005100	LTPRE-P-E4005100
LTPRD-L-E4005200	LTPRE-P-E4005200
LTPRD-L-E4005300	LTPRE-P-E4005300
LTPRE-L-E3005100	LTPRE-P-E3005100
LTPRE-L-E3005200	LTPRE-P-E3005200
LTPRE-L-E2005100	LTPRE-P-E2005100

**TAMPA PARA LEITO  
REDUÇÃO CONCÊNTRICA**

Leve	Pesado
LTPRC-L-E10005100	LTPRC-P-E10005100
LTPRC-L-E10005200	LTPRC-P-E10005200
LTPRC-L-E10005300	LTPRC-P-E10005300
LTPRC-L-E10005400	LTPRC-P-E10005400
LTPRC-L-E10005500	LTPRC-P-E10005500
LTPRC-L-E10005600	LTPRC-P-E10005600
LTPRC-L-E10005700	LTPRC-P-E10005700
LTPRC-L-E10005800	LTPRC-P-E10005800
LTPRC-L-E10005900	LTPRC-P-E10005900
LTPRC-L-E9005100	LTPRC-P-E9005100
LTPRC-L-E9005200	LTPRC-P-E9005200
LTPRC-L-E9005300	LTPRC-P-E9005300
LTPRC-L-E9005400	LTPRC-P-E9005400
LTPRC-L-E9005500	LTPRC-P-E9005500
LTPRC-L-E9005600	LTPRC-P-E9005600
LTPRC-L-E9005700	LTPRC-P-E9005700
LTPRC-L-E9005800	LTPRC-P-E9005800
LTPRC-L-E8005100	LTPRC-P-E8005100
LTPRC-L-E8005200	LTPRC-P-E8005200
LTPRC-L-E8005300	LTPRC-P-E8005300
LTPRC-L-E8005400	LTPRC-P-E8005400
LTPRC-L-E8005500	LTPRC-P-E8005500
LTPRC-L-E8005600	LTPRC-P-E8005600
LTPRC-L-E8005700	LTPRC-P-E8005700
LTPRC-L-E7005100	LTPRC-P-E7005100
LTPRC-L-E7005200	LTPRC-P-E7005200
LTPRC-L-E7005300	LTPRC-P-E7005300
LTPRC-L-E7005400	LTPRC-P-E7005400
LTPRC-L-E7005500	LTPRC-P-E7005500
LTPRC-L-E7005600	LTPRC-P-E7005600
LTPRC-L-E6005100	LTPRC-P-E6005100
LTPRC-L-E6005200	LTPRC-P-E6005200
LTPRC-L-E6005300	LTPRC-P-E6005300
LTPRC-L-E6005400	LTPRC-P-E6005400
LTPRC-L-E6005500	LTPRC-P-E6005500
LTPRC-L-E5005100	LTPRC-P-E5005100
LTPRC-L-E5005200	LTPRC-P-E5005200
LTPRC-L-E5005300	LTPRC-P-E5005300
LTPRC-L-E5005400	LTPRC-P-E5005400
LTPRC-L-E4005100	LTPRC-P-E4005100
LTPRC-L-E4005200	LTPRC-P-E4005200
LTPRC-L-E4005300	LTPRC-P-E4005300
LTPRC-L-E3005100	LTPRC-P-E3005100
LTPRC-L-E3005200	LTPRC-P-E3005200
LTPRC-L-E2005100	LTPRC-P-E2005100

**TAMPA PARA LEITO  
REDUÇÃO À DIREITA**

Leve	Pesado
LTPRD-L-E10005100	LTPRD-P-E10005100
LTPRD-L-E10005200	LTPRD-P-E10005200
LTPRD-L-E10005300	LTPRD-P-E10005300
LTPRD-L-E10005400	LTPRD-P-E10005400
LTPRD-L-E10005500	LTPRD-P-E10005500
LTPRD-L-E10005600	LTPRD-P-E10005600
LTPRD-L-E10005700	LTPRD-P-E10005700
LTPRD-L-E10005800	LTPRD-P-E10005800
LTPRD-L-E10005900	LTPRD-P-E10005900
LTPRD-L-E9005100	LTPRD-P-E9005100
LTPRD-L-E9005200	LTPRD-P-E9005200
LTPRD-L-E9005300	LTPRD-P-E9005300
LTPRD-L-E9005400	LTPRD-P-E9005400
LTPRD-L-E9005500	LTPRD-P-E9005500
LTPRD-L-E9005600	LTPRD-P-E9005600
LTPRD-L-E9005700	LTPRD-P-E9005700
LTPRD-L-E9005800	LTPRD-P-E9005800
LTPRD-L-E8005100	LTPRD-P-E8005100
LTPRD-L-E8005200	LTPRD-P-E8005200
LTPRD-L-E8005300	LTPRD-P-E8005300
LTPRD-L-E8005400	LTPRD-P-E8005400
LTPRD-L-E8005500	LTPRD-P-E8005500
LTPRD-L-E8005600	LTPRD-P-E8005600
LTPRD-L-E8005700	LTPRD-P-E8005700
LTPRD-L-E7005100	LTPRD-P-E7005100
LTPRD-L-E7005200	LTPRD-P-E7005200
LTPRD-L-E7005300	LTPRD-P-E7005300
LTPRD-L-E7005400	LTPRD-P-E7005400
LTPRD-L-E7005500	LTPRD-P-E7005500
LTPRD-L-E7005600	LTPRD-P-E7005600
LTPRD-L-E7005700	LTPRD-P-E7005700
LTPRD-L-E6005100	LTPRD-P-E6005100
LTPRD-L-E6005200	LTPRD-P-E6005200
LTPRD-L-E6005300	LTPRD-P-E6005300
LTPRD-L-E6005400	LTPRD-P-E6005400
LTPRD-L-E6005500	LTPRD-P-E6005500
LTPRD-L-E5005100	LTPRD-P-E5005100
LTPRD-L-E5005200	LTPRD-P-E5005200
LTPRD-L-E5005300	LTPRD-P-E5005300
LTPRD-L-E5005400	LTPRD-P-E5005400
LTPRD-L-E4005100	LTPRD-P-E4005100
LTPRD-L-E4005200	LTPRD-P-E4005200
LTPRD-L-E4005300	LTPRD-P-E4005300
LTPRD-L-E3005100	LTPRD-P-E3005100
LTPRD-L-E3005200	LTPRD-P-E3005200
LTPRD-L-E2005100	LTPRD-P-E2005100

**Leitos para cabos**  
**Código das Tampas**



## Carregamentos de Leitos Leves CARGA DISTRIBUÍDA (kg)

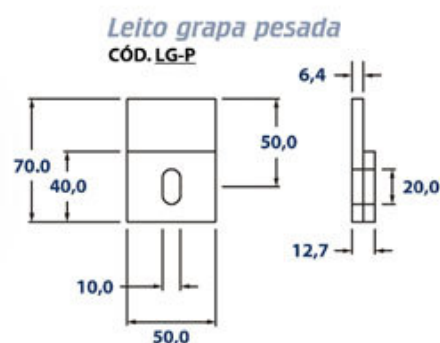
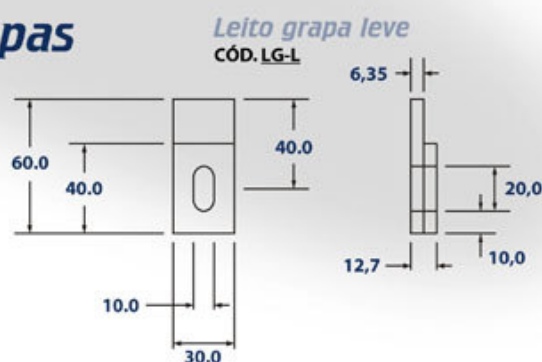
VÃOS LIVRES	3000mm			4000mm			5000mm			6000mm		
	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300
Deformações												
Cargas	78	39	26	33	16.5	11	16.8	8.4	5.6	9.7	4.85	3.23
Cargas de Ruptura	229	229	229	129	129	129	82.6	82.6	82.6	57.4	57.4	57.4
Deformações na Ruptura	88.5	88.5	88.5	157.6	157.6	157.6	246.4	246.4	246.4	355	355	355

## Carregamentos de Leitos Pesados CARGA DISTRIBUÍDA (kg)

VÃOS LIVRES	3000mm			4000mm			5000mm			6000mm		
	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300
Deformações												
Cargas	389	195	130	164	82.2	55	84	42	28	49	24.5	16.3
Cargas de Ruptura	769	769	769	432	432	432	277	277	277	192	192	192
Deformações na Ruptura	59.2	59.2	59.2	105.1	105.1	105.1	164.6	164.6	164.6	236.5	236.5	236.5

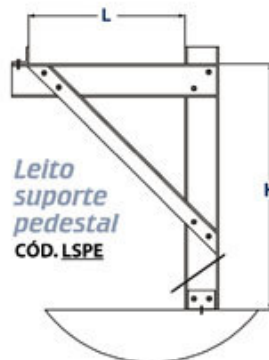
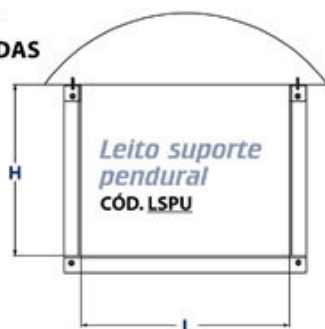
- Todos os parâmetros acima tabelados possuem coeficiente de segurança igual a 1.70.
- O modelo matemático, para obtenção dos dados acima, é o de uma viga bi-apoiada, sobre apoios articulados e deslocáveis.
- No que se refere à largura dos leitos, que variam de 200 a 1000mm, as cargas acima podem ser aplicadas em qualquer um dos casos.

### Grapas



### Suportes

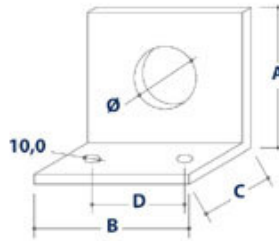
AS DIMENSÕES "H" E "L" DEVERÃO SER FORNECIDAS PELO CLIENTE



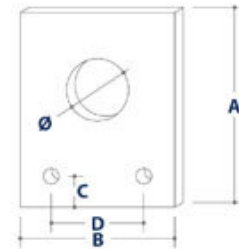
# Saídas Laterais

Vertical					Horizontal				
Ø	A	B	C	D	Ø	A	B	C	D
1/2"	90	100	40	60	1/2"	125	100	40	60
3/4"					3/4"				
1"					1"				
1.1/2"	120	150	100	150	1.1/2"	150	150	100	
2"					2"				
2.1/2"	150	150	100	100	2.1/2"	200	150	100	
3"					3"				

Leito saída vertical  
CÓD. LS-V

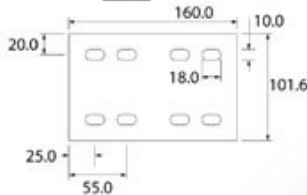


Leito saída horizontal  
CÓD. LS-H

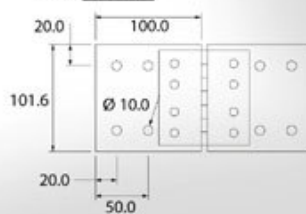


# Talas de Junção para Leitos

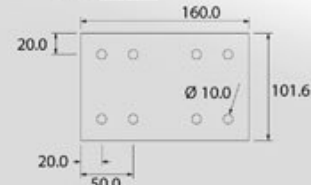
Leito – tala de expansão leve  
CÓD. LTE-L



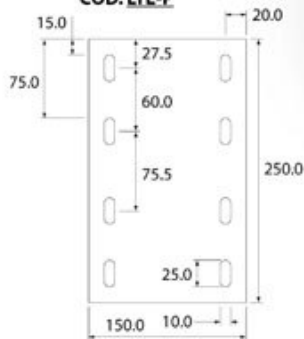
Leito – tala de junção horizontal articulada leve  
CÓD. LTJHA-L



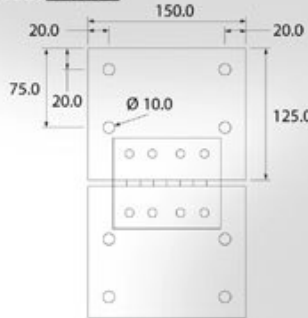
Leito – tala de junção horizontal leve  
CÓD. LTJH-L



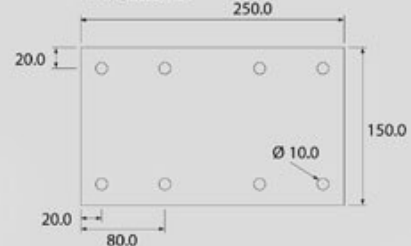
Leito – tala de expansão pesada  
CÓD. LTE-P



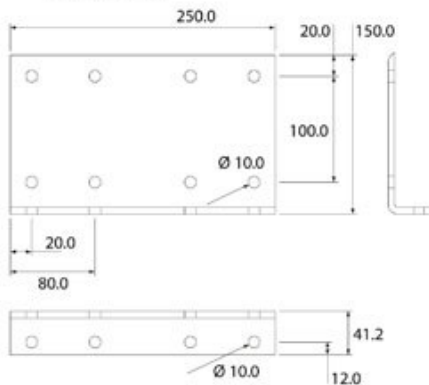
Leito – tala de junção horizontal articulada pesada  
CÓD. LTJHA-P



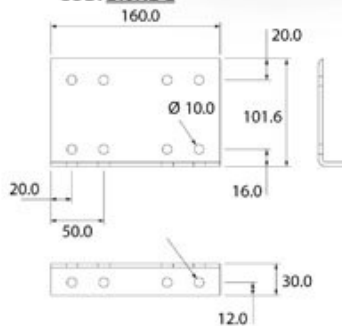
Leito – tala de junção horizontal pesada  
CÓD. LTJH-P



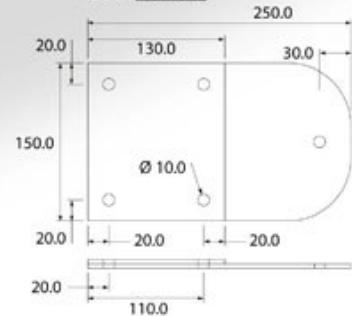
Leito – tala de junção horizontal "I" pesada  
CÓD. LTJHL-P



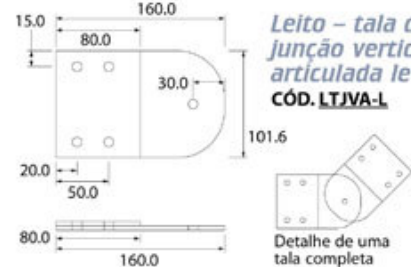
Leito – tala de junção horizontal "I" leve  
CÓD. LTJHL-L



Leito – tala de junção vertical articulada pesada  
CÓD. LTJVA-P



Leito – tala de junção vertical articulada leve  
CÓD. LTJVA-L





## Pesos dos Leitos para Cabos TRECHO RETO

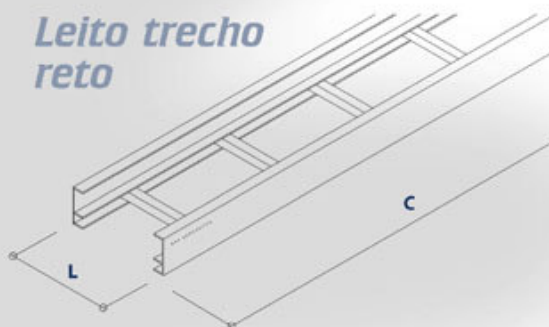
TIPO LEVE			TIPO PESADO		
Largura L (mm)	Comprimento C* (mm)	Peso (kg/peça)	Largura L (mm)	Comprimento C* (mm)	Peso (kg/peça)
200	3.000	9,25	200	3000	20.0
300	3000	9,75	300	3000	20.8
400	3000	10,25	400	3000	21.5
500	3000	10,8	500	3000	22.3
600	3000	11,3	600	3000	23.1
700	3000	11,8	700	3000	23.9
800	3000	12,3	800	3000	24.6
900	3000	12,8	900	3000	25.2
1000	3000	13,3	1000	3000	26.0

Peças também disponíveis no comprimento de 6000mm.

### CÓD. LEITO – TRECHO RETO

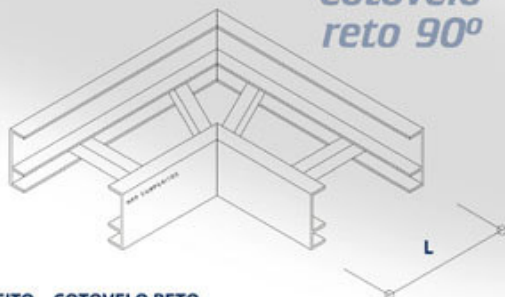
Largura	Leve	Pesado
100	LTR-L-L100	LTR-P-L100
200	LTR-L-L200	LTR-P-L200
300	LTR-L-L300	LTR-P-L300
400	LTR-L-L400	LTR-P-L400
500	LTR-L-L500	LTR-P-L500
600	LTR-L-L600	LTR-P-L600
700	LTR-L-L700	LTR-P-L700
800	LTR-L-L800	LTR-P-L800
900	LTR-L-L900	LTR-P-L900
1000	LTR-L-L1000	LTR-P-L1000

### Leito trecho reto



E = Entrada (mm)
S = Saída (mm)
H = Altura (mm)
R = Raio (mm)
L = Largura (mm)
C = Comprimento (mm)

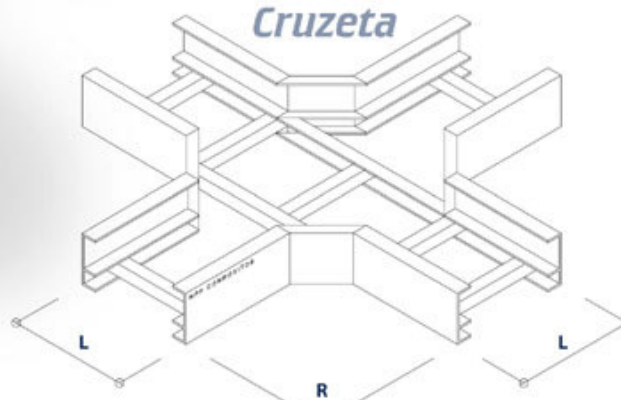
### Cotovelo reto 90°



### CÓD. LEITO – COTOVELO RETO

Largura	Leve	Pesado
100	LCR-L-L100	LCR-P-L100
200	LCR-L-L200	LCR-P-L200
300	LCR-L-L300	LCR-P-L300
400	LCR-L-L400	LCR-P-L400
500	LCR-L-L500	LCR-P-L500
600	LCR-L-L600	LCR-P-L600
700	LCR-L-L700	LCR-P-L700
800	LCR-L-L800	LCR-P-L800
900	LCR-L-L900	LCR-P-L900
1000	LCR-L-L1000	LCR-P-L1000

### Cruzeta



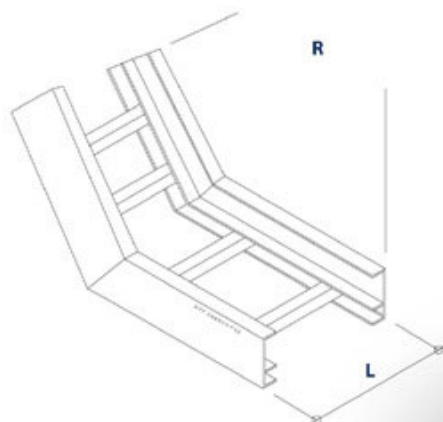
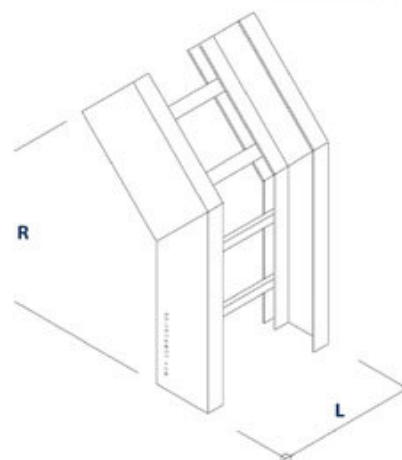
### CÓD. LEITO – CRUZETA

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LCZ-L-L100R300	LCZ-L-L100R600	LCZ-P-L100R300	LCZ-P-L100R600
200	LCZ-L-L200R300	LCZ-L-L200R600	LCZ-P-L200R300	LCZ-P-L200R600
300	LCZ-L-L300R300	LCZ-L-L300R600	LCZ-P-L300R300	LCZ-P-L300R600
400	LCZ-L-L400R300	LCZ-L-L400R600	LCZ-P-L400R300	LCZ-P-L400R600
500	LCZ-L-L500R300	LCZ-L-L500R600	LCZ-P-L500R300	LCZ-P-L500R600
600	LCZ-L-L600R300	LCZ-L-L600R600	LCZ-P-L600R300	LCZ-P-L600R600
700	LCZ-L-L700R300	LCZ-L-L700R600	LCZ-P-L700R300	LCZ-P-L700R600
800	LCZ-L-L800R300	LCZ-L-L800R600	LCZ-P-L800R300	LCZ-P-L800R600
900	LCZ-L-L900R300	LCZ-L-L900R600	LCZ-P-L900R300	LCZ-P-L900R600
1000	LCZ-L-L1000R300	LCZ-L-L1000R600	LCZ-P-L1000R300	LCZ-P-L1000R600

## Curva vertical externa 45°

### CÓD. LEITO – CURVA VERTICAL EXTERNA 45°

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LCVE45-L-L100R300	LCVE45-L-L100R600	LCVE45-P-L100R300	LCVE45-P-L100R600
200	LCVE45-L-L200R300	LCVE45-L-L200R600	LCVE45-P-L200R300	LCVE45-P-L200R600
300	LCVE45-L-L300R300	LCVE45-L-L300R600	LCVE45-P-L300R300	LCVE45-P-L300R600
400	LCVE45-L-L400R300	LCVE45-L-L400R600	LCVE45-P-L400R300	LCVE45-P-L400R600
500	LCVE45-L-L500R300	LCVE45-L-L500R600	LCVE45-P-L500R300	LCVE45-P-L500R600
600	LCVE45-L-L600R300	LCVE45-L-L600R600	LCVE45-P-L600R300	LCVE45-P-L600R600
700	LCVE45-L-L700R300	LCVE45-L-L700R600	LCVE45-P-L700R300	LCVE45-P-L700R600
800	LCVE45-L-L800R300	LCVE45-L-L800R600	LCVE45-P-L800R300	LCVE45-P-L800R600
900	LCVE45-L-L900R300	LCVE45-L-L900R600	LCVE45-P-L900R300	LCVE45-P-L900R600
1000	LCVE45-L-L1000R300	LCVE45-L-L1000R600	LCVE45-P-L1000R300	LCVE45-P-L1000R600



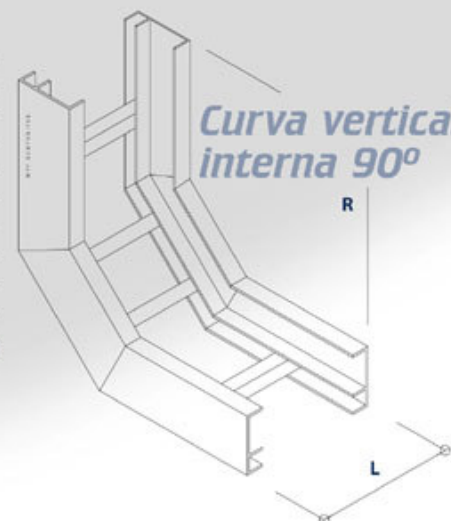
## Curva vertical interna 45°

### CÓD. LEITO – CURVA VERTICAL INTERNA 45°

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LCVI45-L-L100R300	LCVI45-L-L100R600	LCVI45-P-L100R300	LCVI45-P-L100R600
200	LCVI45-L-L200R300	LCVI45-L-L200R600	LCVI45-P-L200R300	LCVI45-P-L200R600
300	LCVI45-L-L300R300	LCVI45-L-L300R600	LCVI45-P-L300R300	LCVI45-P-L300R600
400	LCVI45-L-L400R300	LCVI45-L-L400R600	LCVI45-P-L400R300	LCVI45-P-L400R600
500	LCVI45-L-L500R300	LCVI45-L-L500R600	LCVI45-P-L500R300	LCVI45-P-L500R600
600	LCVI45-L-L600R300	LCVI45-L-L600R600	LCVI45-P-L600R300	LCVI45-P-L600R600
700	LCVI45-L-L700R300	LCVI45-L-L700R600	LCVI45-P-L700R300	LCVI45-P-L700R600
800	LCVI45-L-L800R300	LCVI45-L-L800R600	LCVI45-P-L800R300	LCVI45-P-L800R600
900	LCVI45-L-L900R300	LCVI45-L-L900R600	LCVI45-P-L900R300	LCVI45-P-L900R600
1000	LCVI45-L-L1000R300	LCVI45-L-L1000R600	LCVI45-P-L1000R300	LCVI45-P-L1000R600

### CÓD. LEITO – CURVA VERTICAL INTERNA 90°

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LCVI90-L-L100R300	LCVI90-L-L100R600	LCVI90-P-L100R300	LCVI90-P-L100R600
200	LCVI90-L-L200R300	LCVI90-L-L200R600	LCVI90-P-L200R300	LCVI90-P-L200R600
300	LCVI90-L-L300R300	LCVI90-L-L300R600	LCVI90-P-L300R300	LCVI90-P-L300R600
400	LCVI90-L-L400R300	LCVI90-L-L400R600	LCVI90-P-L400R300	LCVI90-P-L400R600
500	LCVI90-L-L500R300	LCVI90-L-L500R600	LCVI90-P-L500R300	LCVI90-P-L500R600
600	LCVI90-L-L600R300	LCVI90-L-L600R600	LCVI90-P-L600R300	LCVI90-P-L600R600
700	LCVI90-L-L700R300	LCVI90-L-L700R600	LCVI90-P-L700R300	LCVI90-P-L700R600
800	LCVI90-L-L800R300	LCVI90-L-L800R600	LCVI90-P-L800R300	LCVI90-P-L800R600
900	LCVI90-L-L900R300	LCVI90-L-L900R600	LCVI90-P-L900R300	LCVI90-P-L900R600
1000	LCVI90-L-L1000R300	LCVI90-L-L1000R600	LCVI90-P-L1000R300	LCVI90-P-L1000R600



## Curva horizontal 45°

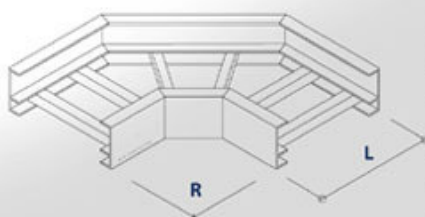
### CÓD. LEITO – CURVA HORIZONTAL 45°

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LCH45-L-L100R300	LCH45-L-L100R600	LCH45-P-L100R300	LCH45-P-L100R600
200	LCH45-L-L200R300	LCH45-L-L200R600	LCH45-P-L200R300	LCH45-P-L200R600
300	LCH45-L-L300R300	LCH45-L-L300R600	LCH45-P-L300R300	LCH45-P-L300R600
400	LCH45-L-L400R300	LCH45-L-L400R600	LCH45-P-L400R300	LCH45-P-L400R600
500	LCH45-L-L500R300	LCH45-L-L500R600	LCH45-P-L500R300	LCH45-P-L500R600
600	LCH45-L-L600R300	LCH45-L-L600R600	LCH45-P-L600R300	LCH45-P-L600R600
700	LCH45-L-L700R300	LCH45-L-L700R600	LCH45-P-L700R300	LCH45-P-L700R600
800	LCH45-L-L800R300	LCH45-L-L800R600	LCH45-P-L800R300	LCH45-P-L800R600
900	LCH45-L-L900R300	LCH45-L-L900R600	LCH45-P-L900R300	LCH45-P-L900R600
1000	LCH45-L-L1000R300	LCH45-L-L1000R600	LCH45-P-L1000R300	LCH45-P-L1000R600



**CÓD. LEITO – CURVA VERTICAL EXTERNA 90°**

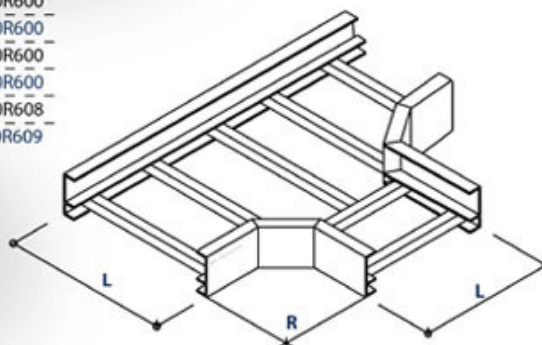
Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LCVE90-L-L100R300	LCVE90-L-L100R600	LCVE90-P-L100R300	LCVE90-P-L100R600
200	LCVE90-L-L200R300	LCVE90-L-L200R600	LCVE90-P-L200R300	LCVE90-P-L200R600
300	LCVE90-L-L300R300	LCVE90-L-L300R600	LCVE90-P-L300R300	LCVE90-P-L300R600
400	LCVE90-L-L400R300	LCVE90-L-L400R600	LCVE90-P-L400R300	LCVE90-P-L400R600
500	LCVE90-L-L500R300	LCVE90-L-L500R600	LCVE90-P-L500R300	LCVE90-P-L500R600
600	LCVE90-L-L600R300	LCVE90-L-L600R600	LCVE90-P-L600R300	LCVE90-P-L600R600
700	LCVE90-L-L700R300	LCVE90-L-L700R600	LCVE90-P-L700R300	LCVE90-P-L700R600
800	LCVE90-L-L800R300	LCVE90-L-L800R600	LCVE90-P-L800R300	LCVE90-P-L800R600
900	LCVE90-L-L900R300	LCVE90-L-L900R600	LCVE90-P-L900R300	LCVE90-P-L900R600
1000	LCVE90-L-L1000R300	LCVE90-L-L1000R600	LCVE90-P-L1000R300	LCVE90-P-L1000R600


**Curva horizontal 90°**

**CÓD. LEITO – CURVA HORIZONTAL 90°**

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LCH90-L-L100R300	LCH90-L-L100R600	LCH90-P-L100R300	LCH90-P-L100R600
200	LCH90-L-L200R300	LCH90-L-L200R600	LCH90-P-L200R300	LCH90-P-L200R600
300	LCH90-L-L300R300	LCH90-L-L300R600	LCH90-P-L300R300	LCH90-P-L300R600
400	LCH90-L-L400R300	LCH90-L-L400R600	LCH90-P-L400R300	LCH90-P-L400R600
500	LCH90-L-L500R300	LCH90-L-L500R600	LCH90-P-L500R300	LCH90-P-L500R600
600	LCH90-L-L600R300	LCH90-L-L600R600	LCH90-P-L600R300	LCH90-P-L600R600
700	LCH90-L-L700R300	LCH90-L-L700R600	LCH90-P-L700R300	LCH90-P-L700R600
800	LCH90-L-L800R300	LCH90-L-L800R600	LCH90-P-L800R300	LCH90-P-L800R600
900	LCH90-L-L900R300	LCH90-L-L900R600	LCH90-P-L900R300	LCH90-P-L900R600
1000	LCH90-L-L1000R300	LCH90-L-L1000R600	LCH90-P-L1000R300	LCH90-P-L1000R600

**CÓD. LEITO – TÊ HORIZONTAL**

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTH-L-L100R300	LTH-L-L100R600	LTH-P-L100R300	LTH-P-L100R600
200	LTH-L-L200R300	LTH-L-L200R600	LTH-P-L200R300	LTH-P-L200R600
300	LTH-L-L300R300	LTH-L-L300R600	LTH-P-L300R300	LTH-P-L300R600
400	LTH-L-L400R300	LTH-L-L400R600	LTH-P-L400R300	LTH-P-L400R600
500	LTH-L-L500R300	LTH-L-L500R600	LTH-P-L500R300	LTH-P-L500R600
600	LTH-L-L600R300	LTH-L-L600R600	LTH-P-L600R300	LTH-P-L600R600
700	LTH-L-L700R300	LTH-L-L700R600	LTH-P-L700R300	LTH-P-L700R600
800	LTH-L-L800R300	LTH-L-L800R600	LTH-P-L800R300	LTH-P-L800R600
900	LTH-L-L900R300	LTH-L-L900R600	LTH-P-L900R300	LTH-P-L100R608
1000	LTH-L-L1000R300	LTH-L-L1000R600	LTH-P-L1000R300	LTH-P-L100R609

**Tê horizontal**

**CÓD. LEITO – TÊ VERTICAL DE DESCIDA**

Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTVD-L-L100R300	LTVD-L-L100R600		
200	LTVD-L-L200R300	LTVD-L-L200R600		
300	LTVD-L-L300R300	LTVD-L-L300R600		
400	LTVD-L-L400R300	LTVD-L-L400R600		
500	LTVD-L-L500R300	LTVD-L-L500R600		
600	LTVD-L-L600R300	LTVD-L-L600R600		
700	LTVD-L-L700R300	LTVD-L-L700R600		
800	LTVD-L-L800R300	LTVD-L-L800R600		
900	LTVD-L-L900R300	LTVD-L-L900R600		
1000	LTVD-L-L1000R300	LTVD-L-L1000R600		
Largura	Pesado		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTVD-P-L100R300	LTVD-P-L100R600		
200	LTVD-P-L200R300	LTVD-P-L200R600		
300	LTVD-P-L300R300	LTVD-P-L300R600		
400	LTVD-P-L400R300	LTVD-P-L400R600		
500	LTVD-P-L500R300	LTVD-P-L500R600		
600	LTVD-P-L600R300	LTVD-P-L600R600		
700	LTVD-P-L700R300	LTVD-P-L700R600		
800	LTVD-P-L800R300	LTVD-P-L800R600		
900	LTVD-P-L900R300	LTVD-P-L100R608		
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**CÓD. LEITO – TÊ VERTICAL DE SUBIDA**

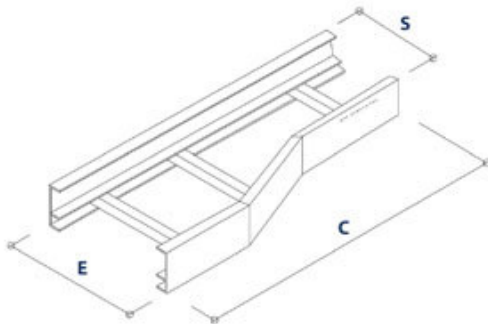
Largura	Leve		Pesado	
	Raio 300	Raio 600	Raio 300	Raio 600
100	LTVS-L-L100R300	LTVS-L-L100R600	LTVS-P-L100R300	LTVS-P-L100R600
200	LTVS-L-L200R300	LTVS-L-L200R600	LTVS-P-L200R300	LTVS-P-L200R600
300	LTVS-L-L300R300	LTVS-L-L300R600	LTVS-P-L300R300	LTVS-P-L300R600
400	LTVS-L-L400R300	LTVS-L-L400R600	LTVS-P-L400R300	LTVS-P-L400R600
500	LTVS-L-L500R300	LTVS-L-L500R600	LTVS-P-L500R300	LTVS-P-L500R600
600	LTVS-L-L600R300	LTVS-L-L600R600	LTVS-P-L600R300	LTVS-P-L600R600
700	LTVS-L-L700R300	LTVS-L-L700R600	LTVS-P-L700R300	LTVS-P-L700R600
800	LTVS-L-L800R300	LTVS-L-L800R600	LTVS-P-L800R300	LTVS-P-L800R600
900	LTVS-L-L900R300	LTVS-L-L900R600	LTVS-P-L900R300	LTVS-P-L100R608
1000	LTVS-L-L1000R300	LTVS-L-L1000R600	LTVS-P-L1000R300	LTVS-P-L100R609



## Redução à esquerda

### CÓD. LEITO - REDUÇÃO À ESQUERDA

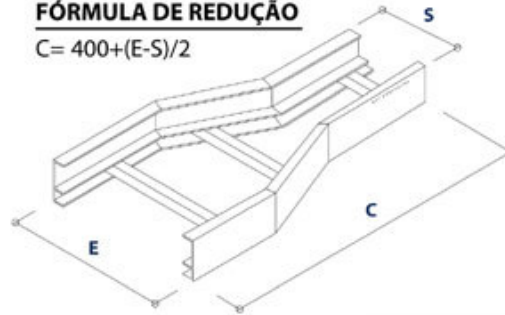
Leve	Pesado
LRE-L-E1000S100	LRE-P-E1000S100
LRE-L-E1000S200	LRE-P-E1000S200
LRE-L-E1000S300	LRE-P-E1000S300
LRE-L-E1000S400	LRE-P-E1000S400
LRE-L-E1000S500	LRE-P-E1000S500
LRE-L-E1000S600	LRE-P-E1000S600
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LRE-L-E900S300	LRE-P-E900S300
LRE-L-E900S400	LRE-P-E900S400
LRE-L-E900S500	LRE-P-E900S500
LRE-L-E900S600	LRE-P-E900S600
LRE-L-E900S700	LRE-P-E900S700
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LRE-L-E800S100	LRE-P-E800S100
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LRE-L-E800S300	LRE-P-E800S300
LRE-L-E800S400	LRE-P-E800S400
LRE-L-E800S500	LRE-P-E800S500
LRE-L-E800S600	LRE-P-E800S600
LRE-L-E800S700	LRE-P-E800S700
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LRE-L-E500S100	LRE-P-E500S100
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LRE-L-E500S300	LRE-P-E500S300
LRE-L-E500S400	LRE-P-E500S400
LRE-L-E400S100	LRE-P-E400S100
LRE-L-E400S200	LRE-P-E400S200
LRE-L-E400S300	LRE-P-E400S300
LRE-L-E300S100	LRE-P-E300S100
LRE-L-E300S200	LRE-P-E300S200
LRE-L-E200S100	LRE-P-E200S100



## Redução concêntrica

### FÓRMULA DE REDUÇÃO

$$C = 400 + (E - S) / 2$$



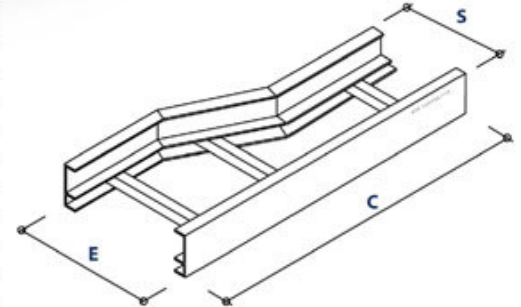
### CÓD. LEITO - REDUÇÃO CONCÊNTRICA

Leve	Pesado
LRC-L-E1000S100	LRC-P-E1000S100
LRC-L-E1000S200	LRC-P-E1000S200
LRC-L-E1000S300	LRC-P-E1000S300
LRC-L-E1000S400	LRC-P-E1000S400
LRC-L-E1000S500	LRC-P-E1000S500
LRC-L-E1000S600	LRC-P-E1000S600
LRC-L-E1000S700	LRC-P-E1000S700
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LRC-L-E1000S900	LRC-P-E1000S900
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LRC-L-E900S800	LRC-P-E900S800
LRC-L-E800S100	LRC-P-E800S100
LRC-L-E800S200	LRC-P-E800S200
LRC-L-E800S300	LRC-P-E800S300
LRC-L-E800S400	LRC-P-E800S400
LRC-L-E800S500	LRC-P-E800S500
LRC-L-E800S600	LRC-P-E800S600
LRC-L-E800S700	LRC-P-E800S700
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LRC-L-E700S600	LRC-P-E700S600
LRC-L-E600S100	LRC-P-E600S100
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LRC-L-E400S200	LRC-P-E400S200
LRC-L-E400S300	LRC-P-E400S300
LRC-L-E300S100	LRC-P-E300S100
LRC-L-E300S200	LRC-P-E300S200
LRC-L-E200S100	LRC-P-E200S100

## Redução à direita

### CÓD. LEITO - REDUÇÃO À DIREITA

Leve	Pesado
LRD-L-E1000S100	LRD-P-E1000S100
LRD-L-E1000S200	LRD-P-E1000S200
LRD-L-E1000S300	LRD-P-E1000S300
LRD-L-E1000S400	LRD-P-E1000S400
LRD-L-E1000S500	LRD-P-E1000S500
LRD-L-E1000S600	LRD-P-E1000S600
LRD-L-E1000S700	LRD-P-E1000S700
LRD-L-E1000S800	LRD-P-E1000S800
LRD-L-E1000S900	LRD-P-E1000S900
LRD-L-E900S100	LRD-P-E900S100
LRD-L-E900S200	LRD-P-E900S200
LRD-L-E900S300	LRD-P-E900S300
LRD-L-E900S400	LRD-P-E900S400
LRD-L-E900S500	LRD-P-E900S500
LRD-L-E900S600	LRD-P-E900S600
LRD-L-E900S700	LRD-P-E900S700
LRD-L-E900S800	LRD-P-E900S800
LRD-L-E800S100	LRD-P-E800S100
LRD-L-E800S200	LRD-P-E800S200
LRD-L-E800S300	LRD-P-E800S300
LRD-L-E800S400	LRD-P-E800S400
LRD-L-E800S500	LRD-P-E800S500
LRD-L-E800S600	LRD-P-E800S600
LRD-L-E800S700	LRD-P-E800S700
LRC-L-E700S100	LRD-P-E700S100
LRD-L-E700S200	LRD-P-E700S200
LRD-L-E700S300	LRD-P-E700S300
LRD-L-E700S400	LRD-P-E700S400
LRD-L-E700S500	LRD-P-E700S500
LRD-L-E700S600	LRD-P-E700S600
LRD-L-E600S100	LRD-P-E600S100
LRD-L-E600S200	LRD-P-E600S200
LRD-L-E600S300	LRD-P-E600S300
LRD-L-E600S400	LRD-P-E600S400
LRD-L-E600S500	LRD-P-E600S500
LRD-L-E500S100	LRD-P-E500S100
LRD-L-E500S200	LRD-P-E500S200
LRD-L-E500S300	LRD-P-E500S300
LRD-L-E500S400	LRD-P-E500S400
LRC-L-E400S100	LRD-P-E400S100
LRD-L-E400S200	LRD-P-E400S200
LRD-L-E400S300	LRD-P-E400S300
LRD-L-E300S100	LRD-P-E300S100
LRD-L-E300S200	LRD-P-E300S200
LRD-L-E200S100	LRD-P-E200S100



### FÓRMULA DE REDUÇÃO

$$C = 400 + E - S$$



## Código de Eletrocalhas

Exemplo de código de eletrocalhas WPP Compósitos:

**ECVETP90-3-R300**

DESCRIÇÃO	CÓDIGO	ÂNGULO	DIMENSÃO	RAIO
Eletrocalha Curva Vertical Externa c/ Tampa	ECVETP	90°	100x50	300mm

### LISTA DE VARIAÇÕES DE CÓDIGOS

Descrição	Código	Descrição	Código
Eletrocalha Trecho Reto	ETR	Eletrocalha Redução à Direita	ERD
Eletrocalha Curva Horizontal 45	ECH45	Eletrocalha Redução à Esquerda	ERE
Eletrocalha Curva Horizontal 90	ECH90	Eletrocalha Tê Horizontal	ETH
Eletrocalha Cotovelo Reto	ECR	Eletrocalha Tê Vertical Subida	ETVS
Eletrocalha Curva Vertical Externa 45	ECVE45	Eletrocalha Tê Vertical Descida	ETVD
Eletrocalha Curva Vertical Externa 90	ECVE90	Eletrocalha Tala de Junção Horizontal	ETJH
Eletrocalha Curva Vertical Interna 45	ECVI45	Eletrocalha Tala de Junção Vertical	ETJV
Eletrocalha Curva Vertical Interna 90	ECVI90	Eletrocalha Tala de Junção "L"	ETJ-L
Eletrocalha Curva de Inversão	ECI	Eletrocalha Tala de Junção Vert. Articulada	ETJV-A
Eletrocalha Cruzeta	ECZ	Eletrocalha Septo Divisor	ESD
Eletrocalha Redução Concêntrica	ERC	Eletrocalha Tampa	ETP

### EXEMPLOS DE CÓDIGOS COMPLETOS

Descrição	Código
Eletrocalha Trecho Reto c/ Tampa 200x100mm	ETRTP-6
Eletrocalha Curva Horizontal 45 50x50mm, Raio 300mm	ECH45-2-R300
Eletrocalha Redução à direita E 200, S 100mm	ERD-E200S100
Eletrocalha Tê Vertical Descida 100x100mm c/ Derivação	ETVD-4-D
Eletrocalha Tampa Curva Horizontal 90, 300x100mm, Raio 600mm	ETPCH90-7-R300

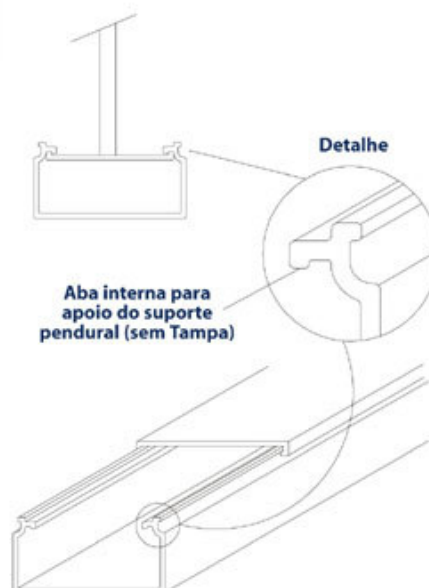
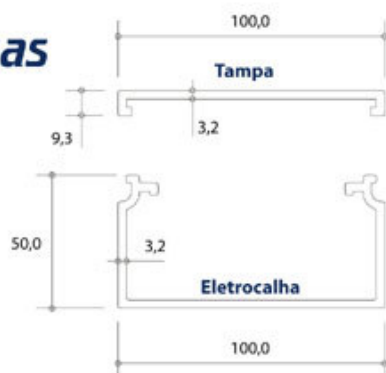
### CÓDIGOS DAS TAMPAS

Descrição	Código
Eletrocalha Tampa para Trecho Reto	ETPTR
Eletrocalha Tampa para Curva Horiz 45	ETPCH45
Eletrocalha Tampa para Te Horizontal	ETPTH
Eletrocalha Tampa para Cotovelo Reto	ETPCR
Eletrocalha Tampa p/Curva Vert.Externa 45	ETPCVE45

### DIMENSÕES DAS ELETROCALHAS WPP COMPÓSITOS

Descrição	Código
Eletrocalha 50x50mm	E-2
Eletrocalha 100x50mm	E-3
Eletrocalha 100x100mm	E-4
Eletrocalha 200x100mm	E-6
Eletrocalha 300x100mm	E-7

## Peças Básicas



# Eletrocalhas

## Código das Tampas

### TAMPA PARA ELETROCALHA CURVA VERTICAL EXTERNA 45°

Tamanho	Raio 150	Raio 300
50x50	ETPCVE45-2-R150	ETPCVE45-2-R300
100x50	ETPCVE45-3-R150	ETPCVE45-3-R300
100x100	ETPCVE45-4-R150	ETPCVE45-4-R300
200x100	ETPCVE45-6-R150	ETPCVE45-6-R300
300x100	ETPCVE45-7-R150	ETPCVE45-7-R300

### TAMPA PARA ELETROCALHA CURVA VERTICAL EXTERNA 90°

Tamanho	Raio 150	Raio 300
50x50	ETPCVE90-2-R150	ETPCVE90-2-R300
100x50	ETPCVE90-3-R150	ETPCVE90-3-R300
100x100	ETPCVE90-4-R150	ETPCVE90-4-R300
200x100	ETPCVE90-6-R150	ETPCVE90-6-R300
300x100	ETPCVE90-7-R150	ETPCVE90-7-R300

### TAMPA PARA ELETROCALHA CURVA VERTICAL INTERNA 45°

Tamanho	Raio 150	Raio 300
50x50	ETPCVI45-2-R150	ETPCVI45-2-R300
100x50	ETPCVI45-3-R150	ETPCVI45-3-R300
100x100	ETPCVI45-4-R150	ETPCVI45-4-R300
200x100	ETPCVI45-6-R150	ETPCVI45-6-R300
300x100	ETPCVI45-7-R150	ETPCVI45-7-R300

### TAMPA PARA ELETROCALHA CURVA VERTICAL INTERNA 90°

Tamanho	Raio 150	Raio 300
50x50	ETPCVI90-2-R150	ETPCVI90-2-R300
100x50	ETPCVI90-3-R150	ETPCVI90-3-R300
100x100	ETPCVI90-4-R150	ETPCVI90-4-R300
200x100	ETPCVI90-6-R150	ETPCVI90-6-R300
300x100	ETPCVI90-7-R150	ETPCVI90-7-R300

### TAMPA PARA ELETROCALHA CURVA DE INVERSÃO 90°

Tamanho	Raio 150	Raio 300
50x50	ETPCI90-2-R150	ETPCI90-2-R300
100x50	ETPCI90-3-R150	ETPCI90-3-R300
100x100	ETPCI90-4-R150	ETPCI90-4-R300
200x100	ETPCI90-6-R150	ETPCI90-6-R300
300x100	ETPCI90-7-R150	ETPCI90-7-R300

### TAMPA PARA ELETROCALHA REDUÇÃO À ESQUERDA

Código
ETPRE-E100S50
ETPRE-E200S100
ETPRE-E200S50
ETPRE-E300S200
ETPRE-E300S100
ETPRE-E300S50

### TAMPA PARA ELETROCALHA REDUÇÃO CONCÊNTRICA

Código
ETPRC-E100S50
ETPRC-E200S100
ETPRC-E200S50
ETPRC-E300S200
ETPRC-E300S100
ETPRC-E300S50

### TAMPA PARA ELETROCALHA REDUÇÃO À DIREITA

Código
ETPRD-E100S50
ETPRD-E200S100
ETPRD-E200S50
ETPRD-E300S200
ETPRD-E300S100
ETPRD-E300S50

### TAMPA PARA ELETROCALHA CRUZETA

Tamanho	Raio 150	Raio 300
50x50	ETPCZ-2-R150	ETPCZ-2-R300
100x50	ETPCZ-3-R150	ETPCZ-3-R300
100x100	ETPCZ-4-R150	ETPCZ-4-R300
200x100	ETPCZ-6-R150	ETPCZ-6-R300
300x100	ETPCZ-7-R150	ETPCZ-7-R300

### TAMPA PARA ELETROCALHA TÊ HORIZONTAL

Tamanho	Raio 150	Raio 300
50x50	ETPTH-2-R150	ETPTH-2-R300
100x50	ETPTH-3-R150	ETPTH-3-R300
100x100	ETPTH-4-R150	ETPTH-4-R300
200x100	ETPTH-6-R150	ETPTH-6-R300
300x100	ETPTH-7-R150	ETPTH-7-R300

### TAMPA PARA ELETROCALHA TÊ VERTICAL DE SUBIDA

Tamanho	Raio 150	Raio 300
50x50	ETPTVS-2-R150	ETPTVS-2-R300
100x50	ETPTVS-3-R150	ETPTVS-3-R300
100x100	ETPTVS-4-R150	ETPTVS-4-R300
200x100	ETPTVS-6-R150	ETPTVS-6-R300
300x100	ETPTVS-7-R150	ETPTVS-7-R300

### TAMPA PARA ELETROCALHA TÊ VERTICAL DE DESCIDA

Tamanho	Raio 150	Raio 300
50x50	ETPTVD-2-R150	ETPTVD-2-R300
100x50	ETPTVD-3-R150	ETPTVD-3-R300
100x100	ETPTVD-4-R150	ETPTVD-4-R300
200x100	ETPTVD-6-R150	ETPTVD-6-R300
300x100	ETPTVD-7-R150	ETPTVD-7-R300

### TAMPA PARA ELETROCALHA CURVA HORIZONTAL 45°

Tamanho	Raio 150	Raio 300
50x50	ETPCH45-2-R150	ETPCH45-2-R300
100x50	ETPCH45-3-R150	ETPCH45-3-R300
100x100	ETPCH45-4-R150	ETPCH45-4-R300
200x100	ETPCH45-6-R150	ETPCH45-6-R300
300x100	ETPCH45-7-R150	ETPCH45-7-R300

### TAMPA PARA ELETROCALHA CURVA HORIZONTAL 90°

Tamanho	Raio 150	Raio 300
50x50	ETPCH90-2-R150	ETPCH90-2-R300
100x50	ETPCH90-3-R150	ETPCH90-3-R300
100x100	ETPCH90-4-R150	ETPCH90-4-R300
200x100	ETPCH90-6-R150	ETPCH90-6-R300
300x100	ETPCH90-7-R150	ETPCH90-7-R300

### TAMPA PARA ELETROCALHA COTOVELO RETO

Tamanho	Código
50x50	ETPCR-2
100x50	ETPCR-3
100x100	ETPCR-4
200x100	ETPCR-6
300x100	ETPCR-7

### TAMPA PARA ELETROCALHA TRECHO RETO

Tamanho	Código
50x50	ETPTR-2
100x50	ETPTR-3
100x100	ETPTR-4
200x100	ETPTR-6
300x100	ETPTR-7

Comprimentos: 3.000mm e 6.000 mm.



## Carregamentos de Eletrocalhas

50x50 #3.20mm CARGA DISTRIBUÍDA (kg) – CÓD. E-2

VÃOS LIVRES	3000mm			4000mm			5000mm			6000mm		
	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300
Deformações												
Cargas	6.93	3.47	2.31	2.92	1.46	0.97	1.50	0.75	0.50	0.87	0.43	0.29
Cargas de Ruptura	37	37	37	20.8	20.8	20.8	13.3	13.3	13.3	9.24	9.24	9.24
Deformações na Ruptura	160.2	160.2	160.2	284.6	284.6	284.6	444.6	444.6	444.6	640	640	640

100x50 #3.20mm CARGA DISTRIBUÍDA (kg) – CÓD. E-3

VÃOS LIVRES	3000mm			4000mm			5000mm			6000mm		
	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300
Deformações												
Cargas	8.88	4.44	2.96	3.75	1.87	1.25	1.92	0.96	0.64	1.11	0.55	0.37
Cargas de Ruptura	41.1	41.1	41.1	23.1	23.1	23.1	14.8	14.8	14.8	10.3	10.3	10.3
Deformações na Ruptura	138.9	138.9	138.9	246.7	246.7	246.7	386.1	386.1	386.1	555.7	555.7	555.7

100x100 #3.20mm CARGA DISTRIBUÍDA (kg) – CÓD. E-4

VÃOS LIVRES	3000mm			4000mm			5000mm			6000mm		
	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300
Deformações												
Cargas	53.6	26.8	17.9	22.6	11.3	7.53	11.6	5.79	3.86	6.70	3.35	2.23
Cargas de Ruptura	136	136	136	76.3	76.3	76.3	48.8	48.8	48.8	33.9	33.9	33.9
Deformações na Ruptura	76.1	76.1	76.1	135	135	135	210.8	210.8	210.8	303.5	303.5	303.5

200x100 #3.20mm CARGA DISTRIBUÍDA (kg) – CÓD. E-6

VÃOS LIVRES	3000mm			4000mm			5000mm			6000mm		
	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300
Deformações												
Cargas	67.7	33.9	22.6	28.6	14.3	9.53	14.6	7.32	4.88	8.46	4.23	2.82
Cargas de Ruptura	150.2	150.2	150.2	84.5	84.5	84.5	54.1	54.1	54.1	37.6	37.6	37.6
Deformações na Ruptura	66.5	66.5	66.5	118.3	118.3	118.3	185	185	185	266.5	266.5	266.5

300x100 #3.20mm CARGA DISTRIBUÍDA (kg) – CÓD. E-7

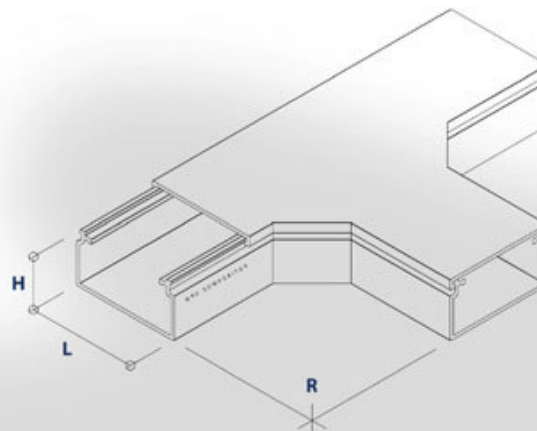
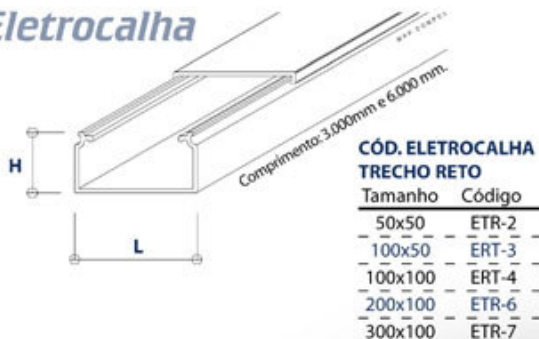
VÃOS LIVRES	3000mm			4000mm			5000mm			6000mm		
	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300	L/100	L/200	L/300
Deformações												
Cargas	76.3	38.2	25.4	32.2	16.1	10.7	16.5	8.25	5.50	9.53	4.77	3.18
Cargas de Ruptura	157.5	157.5	157.5	88.6	88.6	88.6	56.7	56.7	56.7	39.4	39.4	39.4
Deformações na Ruptura	62	62	62	110.2	110.2	110.2	172.1	172.1	172.1	247.9	247.9	247.9

## Eletrocalhas TRECHO RETO

Largura L (mm)	Comprimento C* (mm)	Altura (mm)	Peso sem Tampa (kg)	Peso com Tampa (kg)
50	3000	50	3.10	4.18
100	3000	50	3.80	5.82
100	3000	100	5.55	7.60
200	3000	100	7.25	11.10
300	3000	100	8.65	14.30

Peças também disponíveis no comprimento de 6000mm.

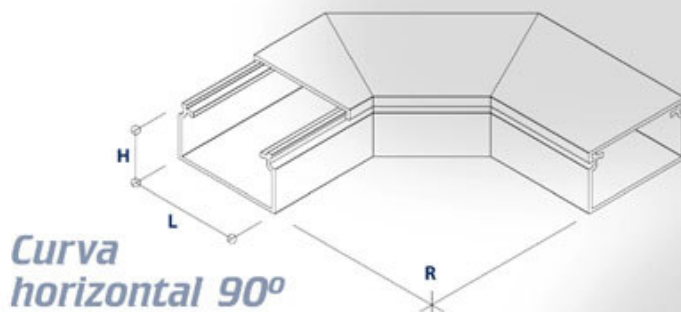
### Eletrocalha



### Tê horizontal

#### CÓD. ELETROCALHA TÊ HORIZONTAL

Tamanho	Raio 150	Raio 300
50x50	ETH-2-R150	ETH-2-R300
100x50	ETH-3-R150	ETH-3-R300
100x100	ETH-4-R150	ETH-4-R300
200x100	ETH-6-R150	ETH-6-R300
300x100	ETH-7-R150	ETH-7-R300



### Curva horizontal 90°

#### CÓD. ELETROCALHA CURVA HORIZONTAL 90°

Tamanho	Raio 150	Raio 300
50x50	ECH90-2-R150	ECH90-2-R300
100x50	ECH90-3-R150	ECH90-3-R300
100x100	ECH90-4-R150	ECH90-4-R300
200x100	ECH90-6-R150	ECH90-6-R300
300x100	ECH90-7-R150	ECH90-7-R300

### Curva horizontal 45°

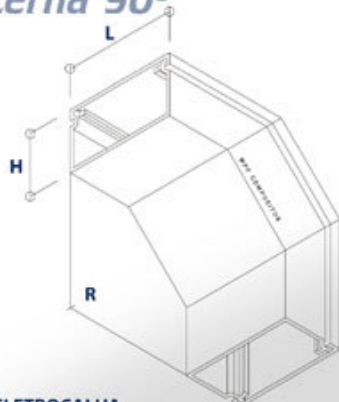
#### CÓD. ELETROCALHA CURVA HORIZONTAL 45°

Tamanho	Raio 150	Raio 300
50x50	ECH45-2-R150	ECH45-2-R300
100x50	ECH45-3-R150	ECH45-3-R300
100x100	ECH45-4-R150	ECH45-4-R300
200x100	ECH45-6-R150	ECH45-6-R300
300x100	ECH45-7-R150	ECH45-7-R300

<b>E = Entrada (mm)</b>
<b>S = Saída (mm)</b>
<b>H = Altura (mm)</b>
<b>R = Raio (mm)</b>
<b>L = Largura (mm)</b>
<b>C = Comprimento (mm)</b>



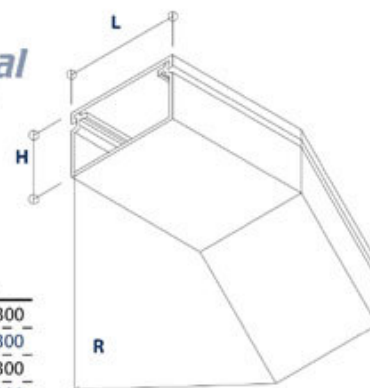
### Curva vertical externa 90°



#### CÓD. ELETROCALHA CURVA VERTICAL EXTERNA 90°

Tamanho	Raio 150	Raio 300
50x50	ECVE90-2-R150	ECVE90-2-R300
100x50	ECVE90-3-R150	ECVE90-3-R300
100x100	ECVE90-4-R150	ECVE90-4-R300
200x100	ECVE90-6-R150	ECVE90-6-R300
300x100	ECVE90-7-R150	ECVE90-7-R300

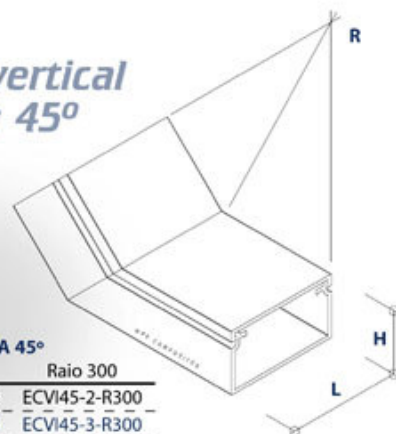
### Curva vertical externa 45°



#### CÓD. ELETROCALHA CURVA VERTICAL EXTERNA 45°

Tamanho	Raio 150	Raio 300
50x50	ECVE45-2-R150	ECVE45-2-R300
100x50	ECVE45-3-R150	ECVE45-3-R300
100x100	ECVE45-4-R150	ECVE45-4-R300
200x100	ECVE45-6-R150	ECVE45-6-R300
300x100	ECVE45-7-R150	ECVE45-7-R300

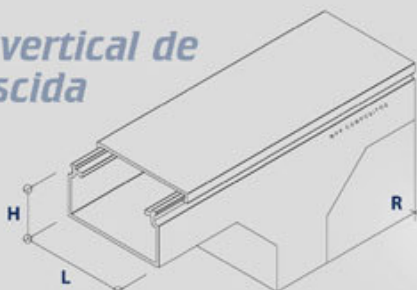
### Curva vertical interna 45°



#### CÓD. ELETROCALHA CURVA VERTICAL INTERNA 45°

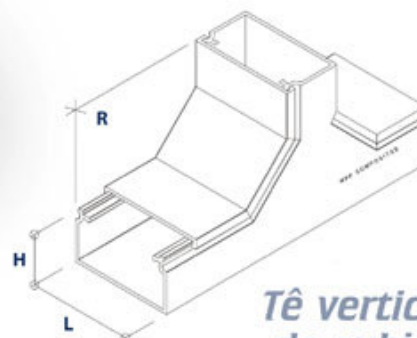
Tamanho	Raio 150	Raio 300
50x50	ECVI45-2-R150	ECVI45-2-R300
100x50	ECVI45-3-R150	ECVI45-3-R300
100x100	ECVI45-4-R150	ECVI45-4-R300
200x100	ECVI45-6-R150	ECVI45-6-R300
300x100	ECVI45-7-R150	ECVI45-7-R300

### Tê vertical de descida



#### CÓD. ELETROCALHA TÊ VERTICAL DE DESCIDA

Tamanho	Raio 150	Raio 300
50x50	ETVD-2-R150	ETVD-2-R300
100x50	ETVD-3-R150	ETVD-3-R300
100x100	ETVD-4-R150	ETVD-4-R300
200x100	ETVD-6-R153	ETVD-6-R300
300x100	ETVD-7-R154	ETVD-7-R300

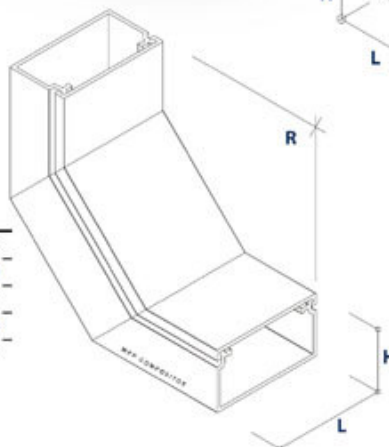


### Tê vertical de subida

### Curva vertical interna 90°

#### CÓD. ELETROCALHA CURVA VERTICAL INTERNA 90°

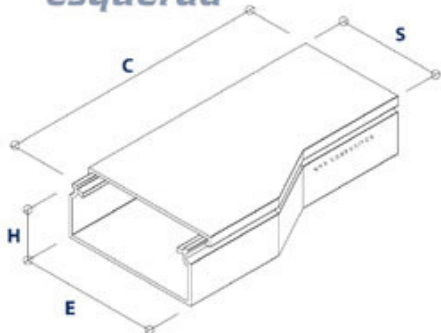
Tamanho	Raio 150	Raio 300
50x50	ECVI90-2-R150	ECVI90-2-R300
100x50	ECVI90-3-R150	ECVI90-3-R300
100x100	ECVI90-4-R150	ECVI90-4-R300
200x100	ECVI90-6-R150	ECVI90-6-R300
300x100	ECVI90-7-R150	ECVI90-7-R300



#### CÓD. ELETROCALHA TÊ VERTICAL DE SUBIDA

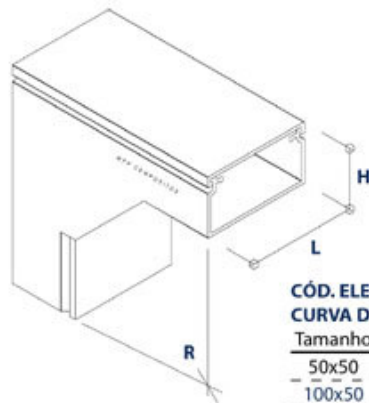
Tamanho	Raio 150	Raio 300
50x50	ETVS-2-R150	ETVS-2-R300
100x50	ETVS-3-R150	ETVS-3-R300
100x100	ETVS-4-R150	ETVS-4-R300
200x100	ETVS-6-R150	ETVS-6-R300
300x100	ETVS-7-R150	ETVS-7-R300

### Redução à esquerda



#### CÓD. ELETROCALHA REDUÇÃO À ESQUERDA

Código	
ERE-E100S50	
ERE-E200S100	
ERE-E200S50	
ERE-E300S200	
ERE-E300S100	
ERE-E300S50	

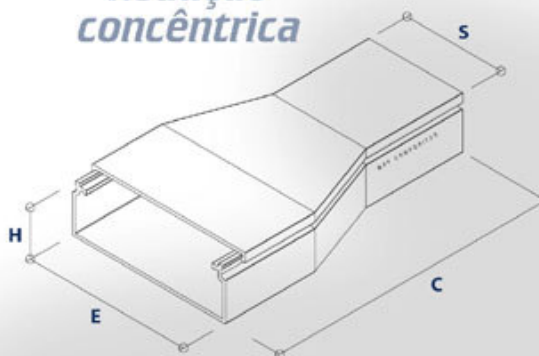


### Curva de inversão 90°

#### CÓD. ELETROCALHA CURVA DE INVERSÃO 90°

Tamanho	Raio 150	Raio 300
50x50	ECI90-2-R150	ECI90-2-R300
100x50	ECI90-3-R150	ECI90-3-R300
100x100	ECI90-4-R150	ECI90-4-R300
200x100	ECI90-6-R150	ECI90-6-R300
300x100	ECI90-7-R150	ECI90-7-R300

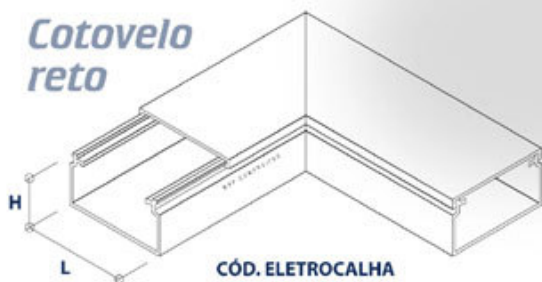
### Redução concêntrica



#### CÓD. ELETROCALHA REDUÇÃO CONCÊNTRICA

Código	
ERC-E100S50	
ERC-E200S100	
ERC-E200S50	
ERC-E300S200	
ERC-E300S100	
ERC-E300S50	

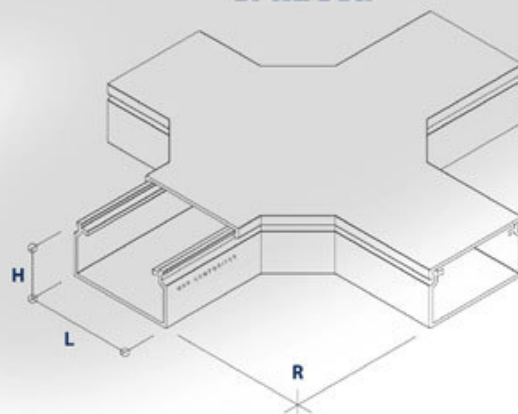
### Cotovelo reto



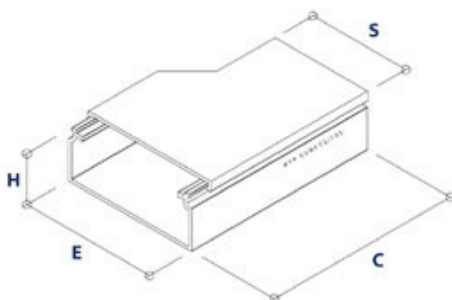
#### CÓD. ELETROCALHA COTOVELO RETO

Tamanho	Código
50x50	ECR-2
100x50	ECR-3
100x100	ECR-4
200x100	ECR-6
300x100	ECR-7

### Cruzeta



### Redução à direita



#### CÓD. ELETROCALHA REDUÇÃO À DIREITA

Código	
ERD-E100S50	
ERD-E200S100	
ERD-E200S50	
ERD-E300S200	
ERD-E300S100	
ERD-E300S50	

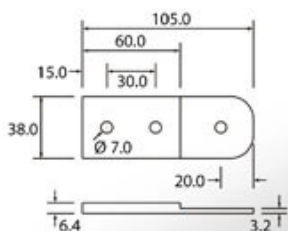
#### CÓD. ELETROCALHA – CRUZETA

Tamanho	Raio 150	Raio 300
50x50	ECZ-2-R150	ECZ-2-R300
100x50	ECZ-3-R150	ECZ-3-R300
100x100	ECZ-4-R150	ECZ-4-R300
200x100	ECZ-6-R150	ECZ-6-R300
300x100	ECZ-7-R150	ECZ-7-R300

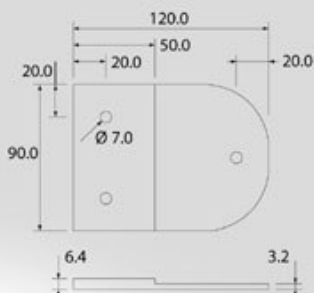


# Talas de junção para Eletrocalhas

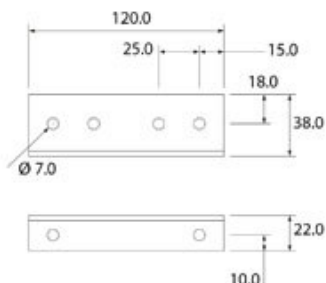
*Eletrocalha – tala de junção vertical articulada*  
**CÓD. ETJVA-2**



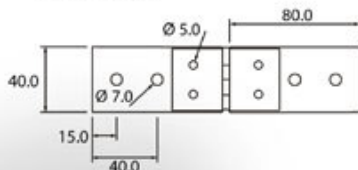
*Eletrocalha – tala de junção vertical articulada*  
**CÓD. ETJVA-4**



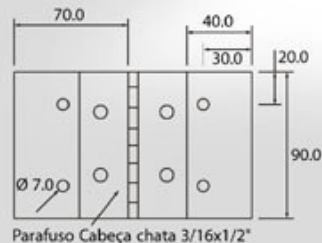
*Eletrocalha – tala de junção horizontal "I"*  
**CÓD. ETJHL-2**



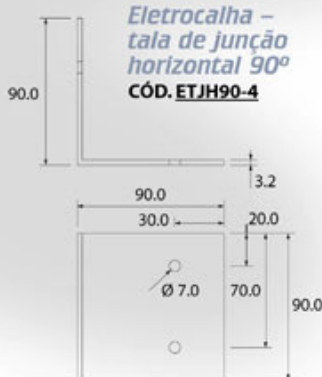
*Eletrocalha – tala de junção horizontal articulada*  
**CÓD. ETJHA-2**



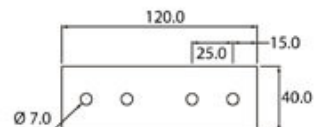
*Eletrocalha – tala de junção horizontal articulada*  
**CÓD. ETJHA-4**



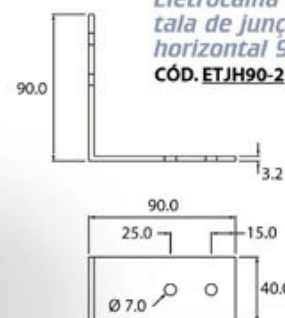
*Eletrocalha – tala de junção horizontal 90°*  
**CÓD. ETJH90-4**



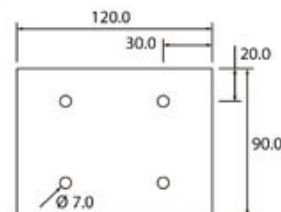
*Eletrocalha – tala de junção horizontal*  
**CÓD. ETJH-2**



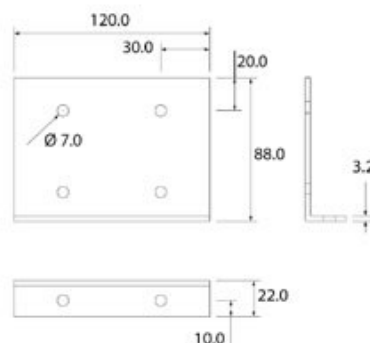
*Eletrocalha – tala de junção horizontal 90°*  
**CÓD. ETJH90-2**



*Eletrocalha – tala de junção horizontal*  
**CÓD. ETJH-4**



*Eletrocalha – tala de junção horizontal "I"*  
**CÓD. ETJHL-4**



**2 = 50 mm**  
**4 = 100 mm**



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