

Parafuso auto
atarrachante
ø3.5x9.5mm
Bolt auto
tapping
ø3.5x9.5mm

Tampa aparafusada p/
curva de inversão (CTA)
Screwed cover for inver-
sion bend (CTA)

RP 2545

RP 2062

RP 2559
ou RP 2560

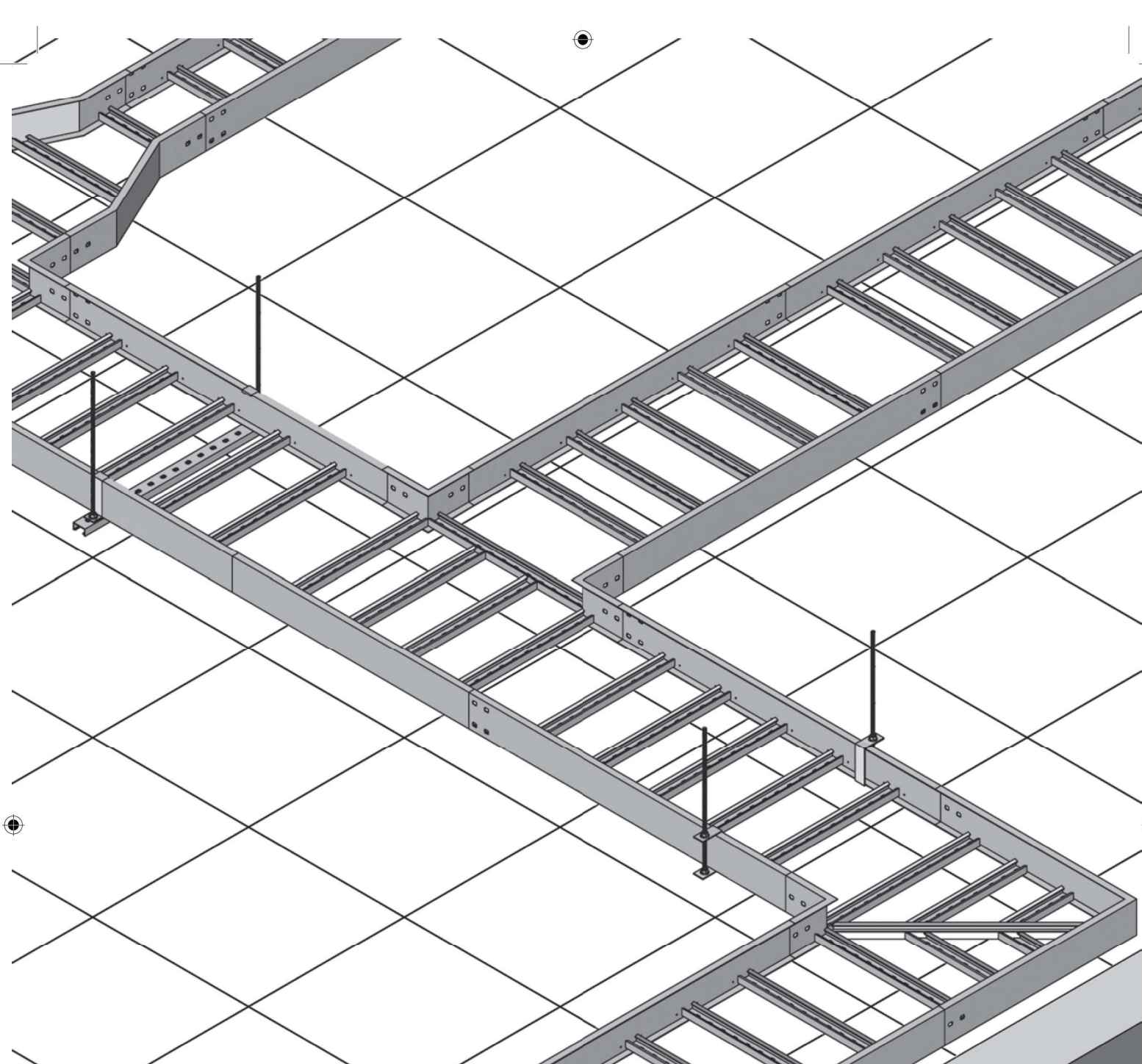
Tubo
Tube

RP 2529

Painel ou
quadro de
distribuição
de energia
elétrica em
baixa tensão
Low tension
electric distri-
bution panel
or board

Leitos para cabos

Os Leitos para cabos fabricados pela Real Perfil, são recomendados para a condução e distribuição de cabos leves e pesados, com características dimensionais projetadas para diversas cargas e vãos, cujos gráficos são fornecidos nas páginas. Como principais vantagens de uso dos leitos, podemos citar a completa ventilação dos cabos, inspeção visual permitida pela instalação aparente e fácil acesso para a manutenção. Contando com variada linha de derivações e acessórios para união, fixação e sustentação, permitem qualquer tipo de ramificação, oferecendo segurança, estética, funcionabilidade e uma rápida montagem.



Cable trays ladder type

The Cables tray mabe by Real Perfil, are recomend for conduction and distribution of light and heavy cables, with dimentional characteristics projected for various loads and spaces, which graphics are. As principal advantages of using the cables tray we could mention the total ventilation of cables, visual inspection permitted by apparent installation and easy acess for maintenance. Counting with a varied line of derivations and accessories for union, fixation and support, it permits any kind of branch off ering security, beauty, functionality and fast assembly.

Leitos para cabos

Cable trays ladder type

COMO ESPECIFICAR TRECHOS RETOS:
HOW TO SPECIFY STRAIGHT CABLE TRAYS:

EXEMPLO/ EXAMPLE: Ref RP 2500/T20/400/E/43/GF

TIPO DE LEITO TYPE OF CABLE TRAY	DIST. ENTRE TRAVESSAS DIST. BETWEEN CROSSBARS	LARGURA WIDTH	ABAS TURNED	BITOLA MSG	ACABAMENTO FINISHING
RP 2500	T 20	400	E	43	GF
Leito econômico economic cable ladder	200 mm	400 mm	externas outwards	4 (longarina #14) e 3 (travessas #16) 4 (side rail flanges #14) and 3 (cross-bars #16)	pós-galvanizado hot dip galvanized

TIPO DE LEITO TYPE OF CABLE TRAY			
RP 2500 (TIPO 1) econômico / economical 	RP 2503 A (TIPO 2) médio A / medium A 	RP 2503 B (TIPO 3) 	RP 2504 A (TIPO 4)
RP 2504 B (TIPO 5) superpesado B / super heavy B sob consulta / under request 	RP 2504 C (TIPO 6) superpesado C / super heavy C 	RP 2504 D (TIPO 7) superpesado D / super heavy D 	RP 2504 E (TIPO 8) superpesado E / super heavy E

LARGURA (A) mm WIDTH (A) mm												
100	200	300	400	500	600	700	800	900	1000	1100	1200	1500

Nº DE TRAVESSAS Nº OF CROSSBARS						
6	10	12	15	20	24	30
RP 2504 B RP 2504 A	Todos os tipos	Todos os tipos	Todos os tipos	Todos os tipos	Todos os tipos	Todos os tipos

ABAS TURNED	
I (ABAS INTERNAS / TURNED INWARDS) 	E (ABAS EXTERNAS / TURNED OUTWARDS)

BITOLA MSG			
2	3	4	5
#18 (1,2 mm)	#16 (1,5 mm)	#14 (2,0 mm)	#12 (2,65 mm)

Atenção: As travessas são fabricadas nas espessuras de 1,2mm a 2,00mm. / Note: The crossbars are manufactured in the thickness of 1.2mm to 2.00mm.

TRATAMENTO FINISHING							
PZ	GE	AL	I3	I4	I6	I6/L	PT
pré-galvanizado a quente - padrão CSN conf. NBR 7008 pre galvanized steel according to NBR 7008	pós-galvanizada conf. NBR 6323 hot dip galvanized according NBR 6323	alumínio aluminum	aço inox AISI 430 stainless steel AISI 430	aço inox AISI 304 stainless steel AISI 304	aço inox AISI 316 stainless steel AISI 316	aço inox AISI 316L stainless steel AISI 316L	pintado* painted*

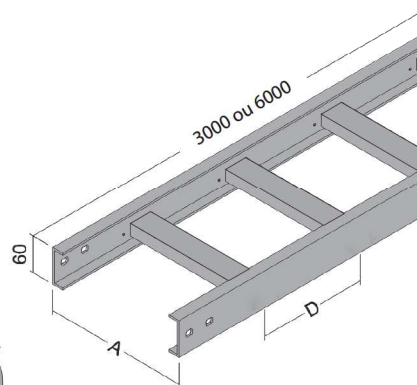
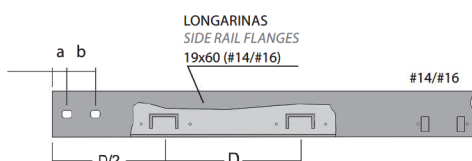
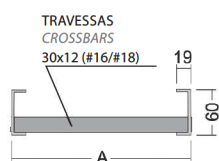
Atenção: Especificações sem a indicação do tratamento superficial serão consideradas como materiais pré galvanizado a quente (PZ).
Note: Specifications without the indication of surface treatment materials shall be considered as pre-dip galvanized (PZ).

Leitos para cabos

Cable trays ladder type

Leito tipo 1 - leve
Cable tray - light type
Ref. RP 2500

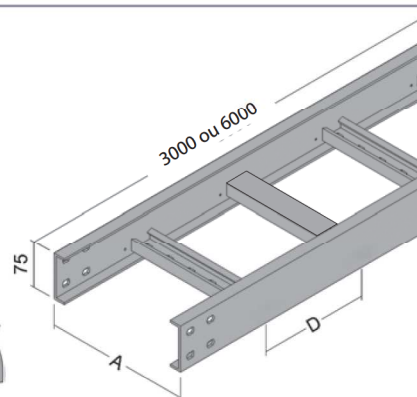
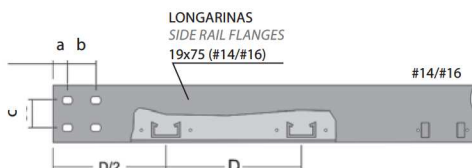
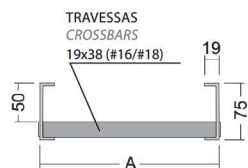
distância entre travessas distance between crossbars	3000 / 6000 mm
D=200	RP 2500 / T20 / A / I/E



Leito tipo 2 - médio
Cable tray - medium type
Ref. RP 2503A

distância entre travessas distance between crossbars	3000 / 6000 mm
D=500	RP 2503A / T50 / A / I/E
D=300	RP 2503A / T30 / A / I/E
D=250	RP 2503A / T25 / A / I/E
D=200	RP 2503A / T20 / A / I/E

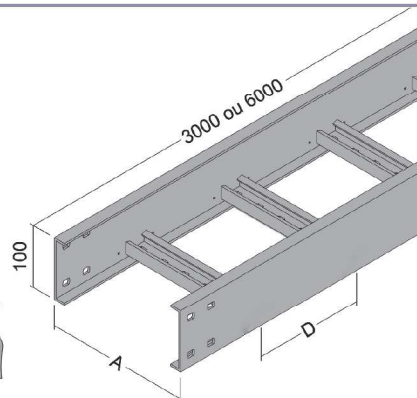
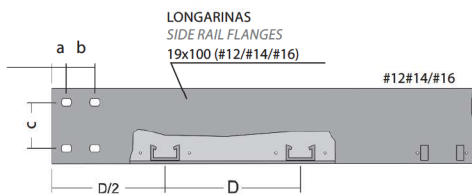
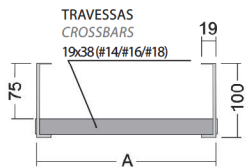
tipo type	a	b	c
75	30	25	35



Leito Tipo 3 - semi-pesado
Cable tray - semi heavy type
Ref. RP 2503B

distância entre travessas distance between crossbars	3000 / 6000 mm
D=500	RP 2503B / T50 / A / I/E
D=300	RP 2503B / T30 / A / I/E
D=250	RP 2503B / T25 / A / I/E
D=200	RP 2503B / T20 / A / I/E

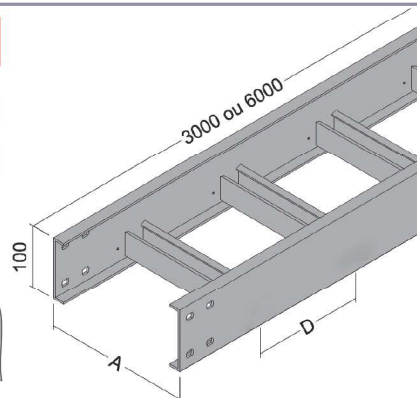
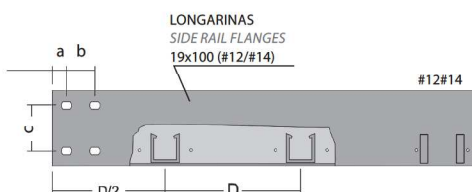
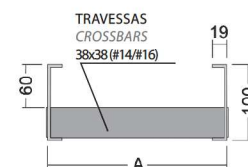
tipo type	a	b	c
100	35	25	50



Leito tipo 4 - pesado
Cable tray - heavy type
Ref. RP 2504A

distância entre travessas distance between crossbars	3000 / 6000 mm
D=500	RP 2504A / T50 / A / I/E
D=300	RP 2504A / T30 / A / I/E
D=250	RP 2504A / T25 / A / I/E
D=200	RP 2504A / T20 / A / I/E

tipo type	a	b	c
100	35	25	50



Leitos para cabos

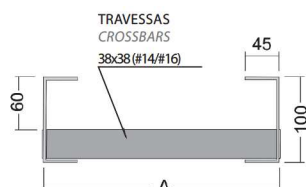
Cable trays ladder type

Leito tipo 5 - pesado - classe B

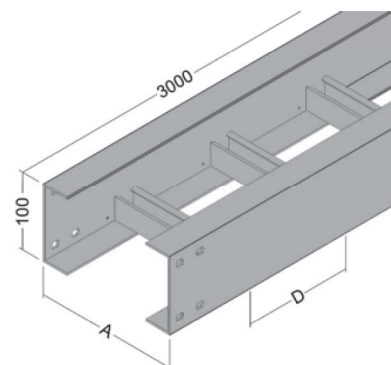
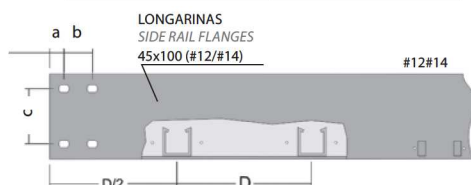
Cable tray type 5 - heavy - class B

Ref. RP 2504B

tipo type	a	b	c
100	35	25	50



distância entre travessas distance between crossbars	3000 / 6000 mm
D=500	RP 2504B / T50 / A / I/E
D=300	RP 2504B / T30 / A / I/E
D=250	RP 2504B / T25 / A / I/E
D=200	RP 2504B / T20 / A / I/E



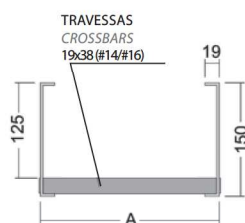
Obs: Padrão com travessas soldadas às longarinas. / Note: The crossbars are welded on side rails.

Leito tipo 6 - super pesado - classe C

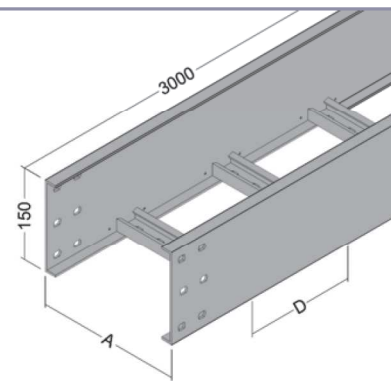
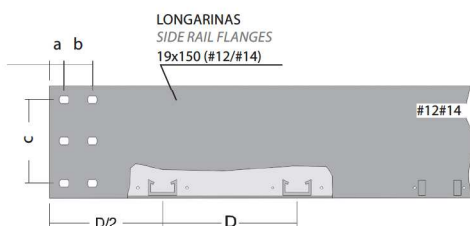
Cable tray type 6 - super heavy - class C

Ref. RP 2504C

tipo type	a	b	c
150	35	25	100



distância entre travessas distance between crossbars	3000 / 6000 mm
D=300	RP 2504C / T30 / A / I/E
D=250	RP 2504C / T25 / A / I/E
D=200	RP 2504C / T20 / A / I/E



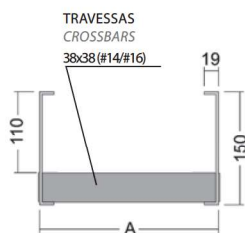
Obs: Padrão com travessas soldadas às longarinas. / Note: The crossbars are welded on side rails.

Leito tipo 7 - super pesado - classe D

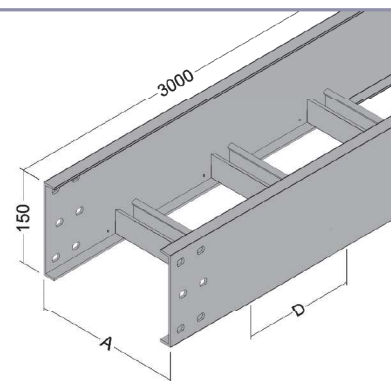
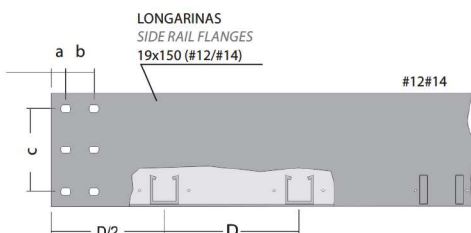
Cable tray type 7 - super heavy - class D

Ref. RP 2504D

tipo type	a	b	c
150	35	25	100



distância entre travessas distance between crossbars	3000 / 6000 mm
D=300	RP 2504D / T30 / A / I/E
D=250	RP 2504D / T25 / A / I/E
D=200	RP 2504D / T20 / A / I/E



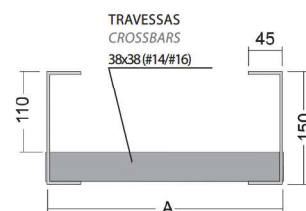
Obs: Padrão com travessas soldadas às longarinas. / Note: The crossbars are welded on side rails.

Leito tipo 8 - super pesado - classe E

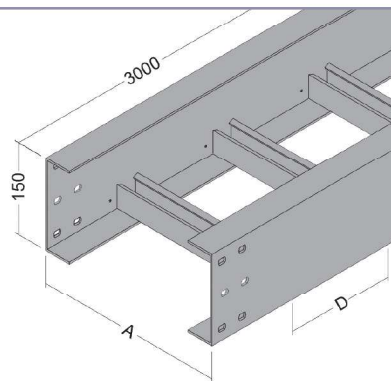
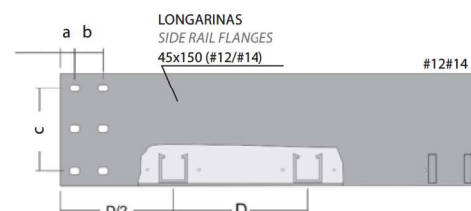
Cable tray type 8 - super heavy - class E

Ref. RP 2504E

tipo type	a	b	c
150	35	25	100



distância entre travessas distance between crossbars	3000 / 6000 mm
D=500	RP 2504E / T50 / A / I/E
D=300	RP 2504E / T30 / A / I/E
D=250	RP 2504E / T25 / A / I/E
D=200	RP 2504E / T20 / A / I/E



Obs: Padrão com travessas soldadas às longarinas. / Note: The crossbars are welded on side rails.

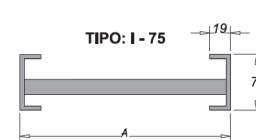
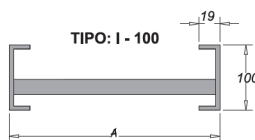
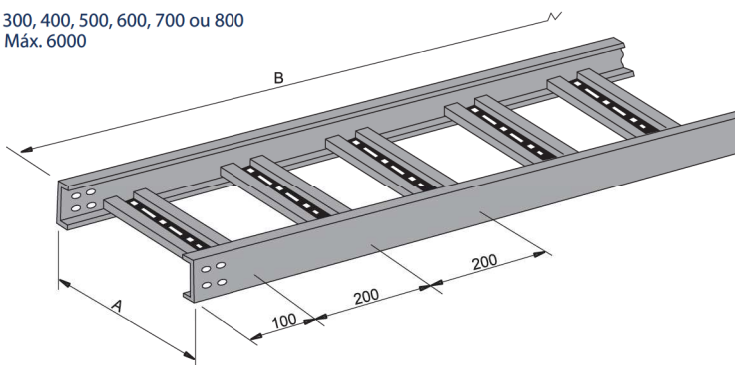
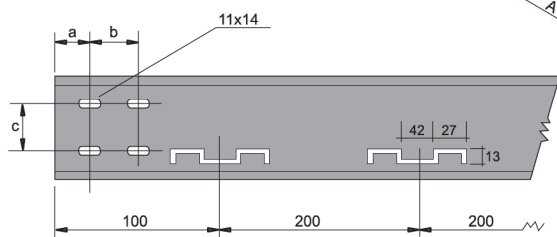
Leitos para cabos

Cable trays ladder type

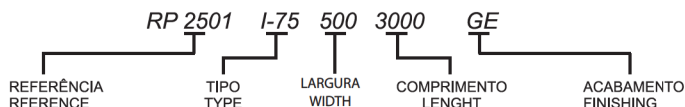
Leito para cabos tipo ventilado
Cable tray ventilated type

A= 300, 400, 500, 600, 700 ou 800
B= Máx. 6000

tipo	a	b	c
100	35	25	50
75	30	25	35



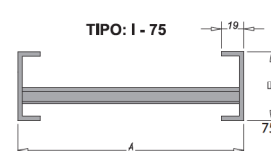
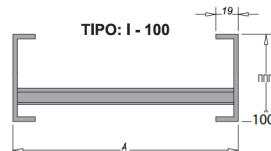
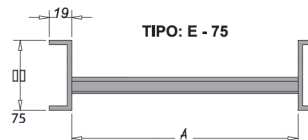
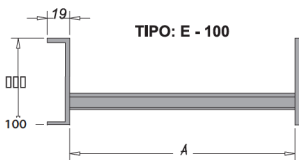
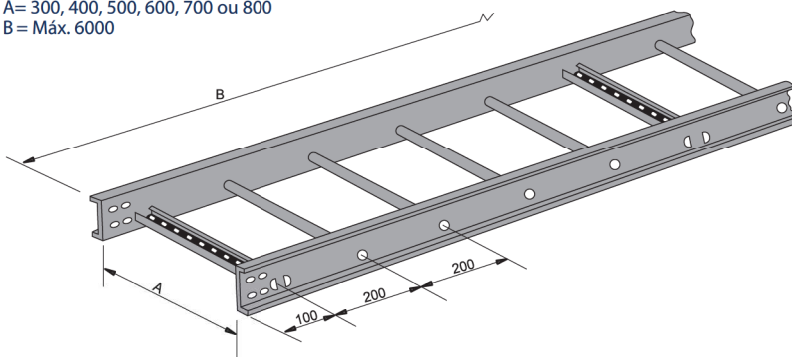
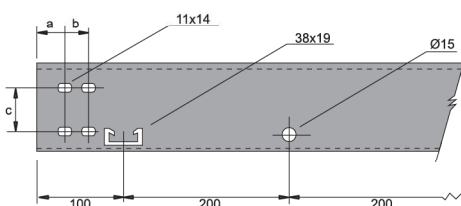
COMO SOLICITAR
HOW TO REQUEST



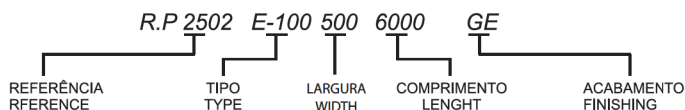
Leito para cabos tipo médio
cables Tray Medion Type

A= 300, 400, 500, 600, 700 ou 800
B= Máx. 6000

tipo	a	b	c
100	35	25	50
75	30	25	35



COMO SOLICITAR
HOW TO REQUEST

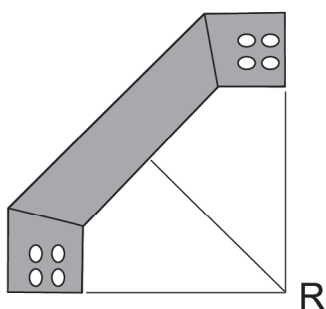


Leitos para cabos

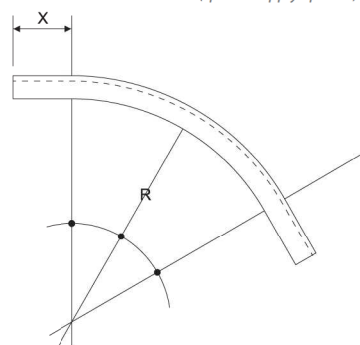
Cable trays ladder type

Esta secção destina-se a curvas e derivações de todos os tipos de leitos fabricados. Os desenhos são ilustrativos, acompanhando o leito solicitado conforme sua referência, tipo, largura e espaçamento entre travessas. E raio segmentado fornecimento normal, para raio curvilíneo favor especificar. *This section is intended for bends and derivations of all kinds of produced trays. The drawings are representative following the requested tray, according to its reference, type, breadth and pitch between crossbars*

RAIO SEGMENTADO (fornecimento normal)
RADIUS SEGMENTED TYPE (standard supply)



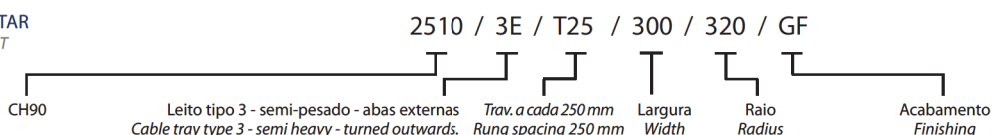
RAIO CURVILÍNEO (fornecimento opcional - mencionar no pedido)
RADIUS CONTINUOUS TYPE (special supply - please, mentioned on order)



Ref.	RS	RC	X
RP 2500	320	320	125
RP 2501	520	520	
RP 2502	320	320	125
RP 2503	520	520	
RP 2504 A	645	645	
RP 2504 C	895	895	
RP 2504 D	320		125
RP 2504 B	520	N/A	
RP 2504 E	645		
	895		

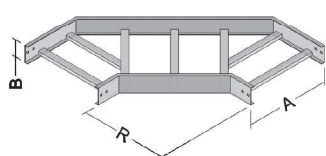
RS= Raio segmentado/ segmented radius
RC= Raio contínuo/ continuous radius
N/A= Não aplicável / not available

COMO SOLICITAR
HOW TO REQUEST



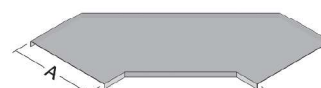
OBS: Para especificação de tampas, inserir no final do código CTN, CTP ou CTA.
NOTE: To specify covers, insert at the end of the code CTN, CTP or CTA.

Curva horizontal
Horizontal bend

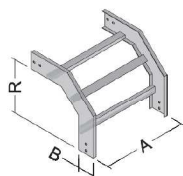


curva	ângulo	tampa
bend	angle	cover
RP 2505	15°	RP 2605
RP 2506	30°	RP 2606
RP 2507	45°	RP 2607
RP 2508	60°	RP 2608
RP 2509	75°	RP 2609
RP 2510	90°	RP 2610

Tampa curva horizontal
Cover for horizontal bend

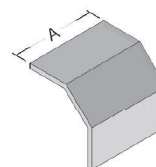


Curva vertical externa
Vertical external bend

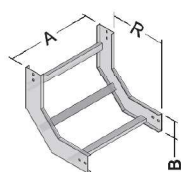


curva	ângulo	tampa
bend	angle	cover
RP 2511	15°	RP 2611
RP 2512	30°	RP 2612
RP 2513	45°	RP 2613
RP 2514	60°	RP 2614
RP 2515	75°	RP 2615
RP 2516	90°	RP 2616

Tampa curva vertical interna
Cover for vertical internal bend

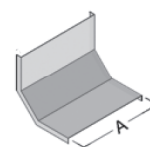


Curva vertical interna
Vertical internal bend



curva	ângulo	curva
bend	angle	bend
RP 2517	15°	RP 2617
RP 2518	30°	RP 2618
RP 2519	45°	RP 2619
RP 2520	60°	RP 2620
RP 2521	75°	RP 2621
RP 2522	90°	RP 2622

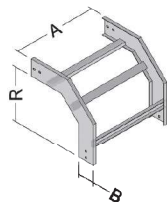
Tampa curva vertical interna
Cover for vertical internal bend



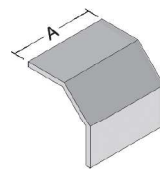
Leitos para cabos

Cable trays ladder type

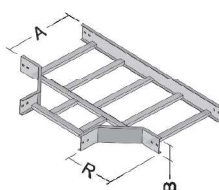
Curva de inversão 90°
90° Inversion bend
Ref. RP 2529



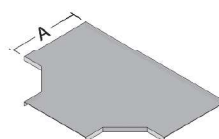
Tampa curva de inversão 90°
Cover for 90° inversion bend
Ref. RP 2629



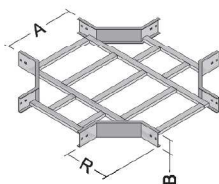
Tê horizontal 90°
90° horizontal tee
Ref. RP 2532



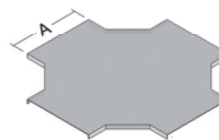
Tampa tê horizontal 90°
Cover for 90° horizontal tee
Ref. RP 2632



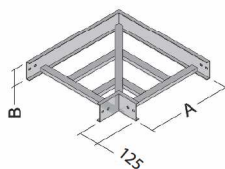
Cruzeta horizontal 90°
90° horizontal cross
Ref. RP 2537



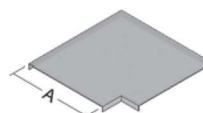
Tampa cruzeta horizontal 90°
Cover for 90° horizontal cross
Ref. RP 2637



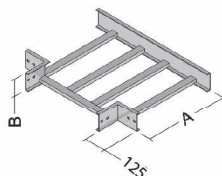
Cotovelo reto
90° Straight elbow
Ref. RP 2536



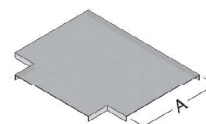
Tampa cotovelo reto
Cover for 90° straight elbow
Ref. RP 2636



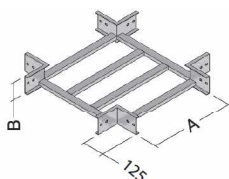
"T" reto
90° Straight tee
Ref. RP 2533



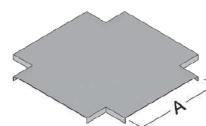
Tampa "T" reto
Cover for 90° straight tee
Ref. RP 2633



Cruzeta reta
90° Straight cross
Ref. RP 2538



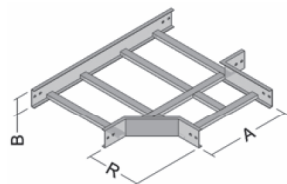
Tampa cruzeta reta
Cover for 90° straight cross
Ref. RP 2638



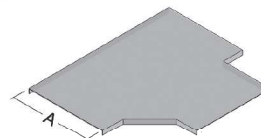
Leitos para cabos

Cable trays ladder type

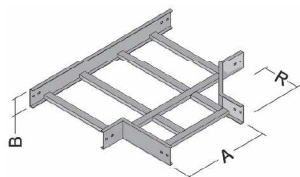
Junção à direita 90°
90° Right junction
Ref. RP 2540



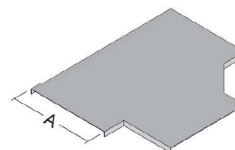
Tampa junção à direita 90°
Cover for 90° right junction
Ref. RP 2640



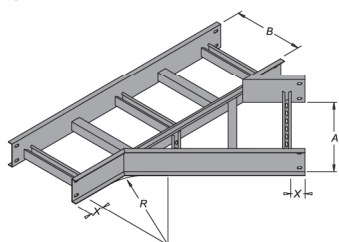
Junção à esquerda 90°
90° Left junction
Ref. RP 2542



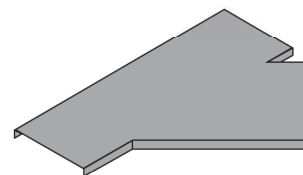
Tampa junção à esquerda 90°
Cover for 90° left junction
Ref. RP 2642



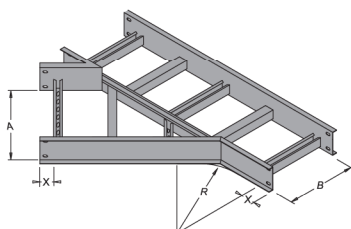
Junção à direita 45°
45° Right junction
Ref. RP 2539



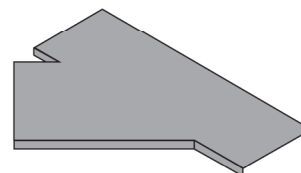
Tampa junção à direita 45°
45° Right junction
Ref. RP 2639



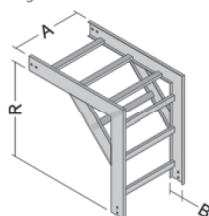
Junção à esquerda 45°
45° Left junction
Ref. RP 2541



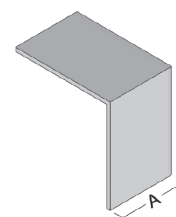
Tampa junção à esquerda 45°
45° Left junction
Ref. RP 2641



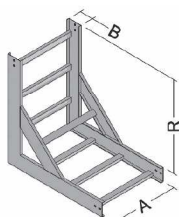
Curva 90° de passagem reta descida
90° Bend with descent straight passage
Ref. RP 2530



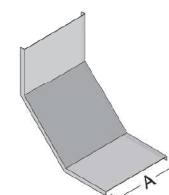
Tampa curva 90° de
passagem reta descida
Cover for 90° bend with
descent straight passage
Ref. RP 2630



Curva 90° de passagem reta subida
90° Bend with ascent straight passage
Ref. RP 2531



Tampa curva 90° de passagem reta subida
Cover for 90° bend with ascent straight passage
Ref. RP 2631

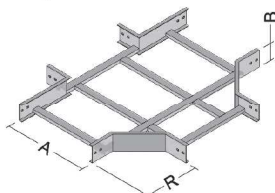


Leitos para cabos

Cable trays ladder type

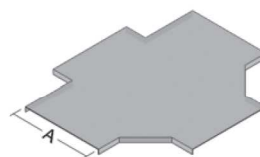
Cruzeta horizontal 90° com uma saída reta
90° horizontal cross with one straight outlet

Ref. RP 2570



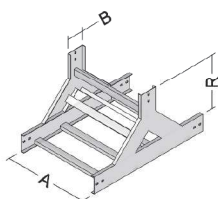
Tampa cruzeta horizontal 90° com uma saída reta
Cover for Horizontal cross with one straight outlet

Ref. RP 2670



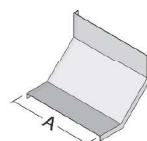
Tê vertical subida
90° Ascent vertical tee

Ref. RP 2535



Tampa tê vertical subida
Cover for 90° ascent vertical tee

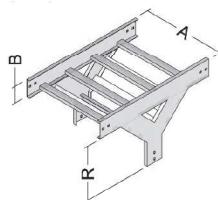
Ref. RP 2635



OBS: Fornecido com duas tampas.
NOTE: Supplied with two covers.

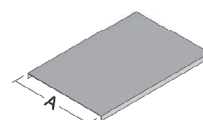
Tê vertical descida
90° Descent vertical tee

Ref. RP 2534



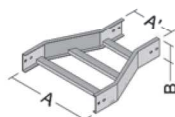
Tampa tê vertical descida
Cover for 90° descent vertical tee

Ref. RP 2634



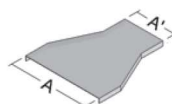
Redução concêntrica
Concentric reduction

Ref. RP 2543



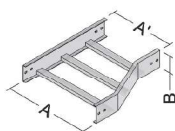
Tampa redução concêntrica
Cover for concentric reduction

Ref. RP 2643



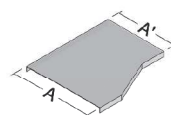
Redução à esquerda
Left reduction

Ref. RP 2545



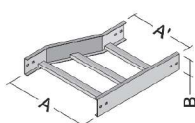
Tampa redução à esquerda
Cover for left reduction

Ref. RP 2645



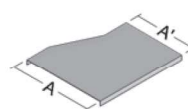
Redução à direita
Right reduction

Ref. RP 2544



Tampa redução à direita
Cover for right reduction

Ref. RP 2644



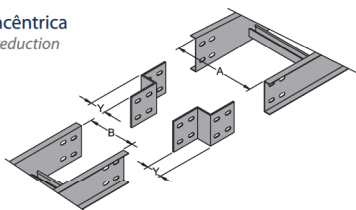
Leitos para cabos

Cable trays ladder type

Redução reta concêntrica

Concentric straight reduction

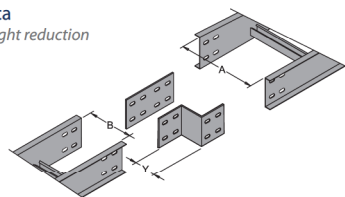
Ref. RP 2547



Redução reta excêntrica

Eccentric right or left - straight reduction

Ref. RP 2548

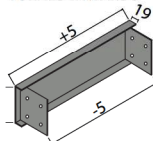


Terminal de fechamento

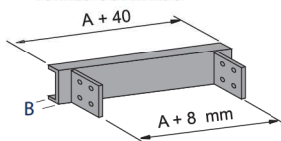
End plate

Ref. RP 2549

ABA INTERNA
TURNED INWARDS



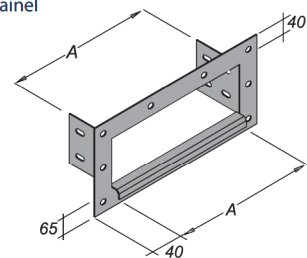
ABA EXTERNA
TURNED OUTWARDS



Proteção para ligação em painel

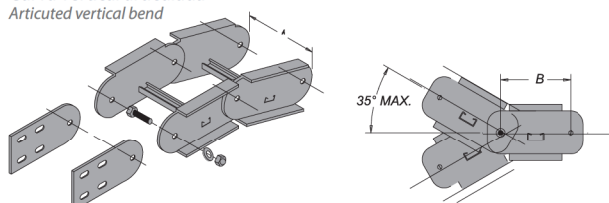
Protection for panel connection

Ref. RP 2550



Curva vertical articulada

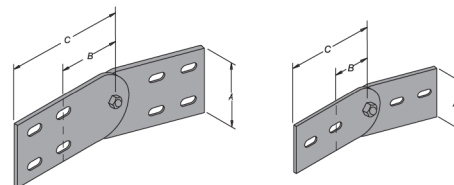
Articulated vertical bend



Junção articulada

Articulated junction

Ref.	Aba	A	B	C
Ref.	Beam			
RP 2551	75mm	65	70	115
RP 2551	100mm	90	90	135
RP 2551	60mm	50	53	110



*Fornecido com 4 junções
*to be supplied with 4 pieces.

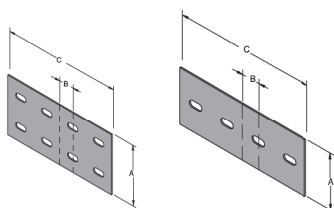
Para aba 75x19 - B=160mm
Para aba 100x19 - B=160mm
Para aba 100x45 - B=250mm
For beam 75x19 - B=140mm
For beam 100x19 - B=160mm
For beam 100x45 - B=250mm

ângulo	Ref.	NÚMERO DE GOMOS / CURVA			
		Raio 320	Raio 520	Raio 645	Raio 895
angle	Ref.	Radius 320	Radius 520	Radius 645	Radius 895
15°	RP 2523	2	2	2	2
30°	RP 2524	1	3	2	3
45°	RP 2525	2	4	3	4
60°	RP 2526	3	5	4	5
75°	RP 2527	4	6	4	6
90°	RP 2528	5	7	5	7

Junção simples

Simple junction

Ref.	Aba	A	B	C
Ref.	Beam			
RP 2552	100mm	90	35	160
RP 2552	75mm	65	30	150
RP 2552	60mm	50	19	152



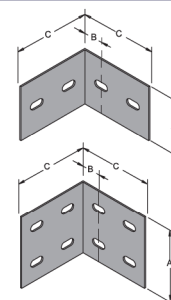
Junção reta

Right - angle junction

Ref. RP 2574 - A= 75mm

Ref. RP 2575 - A= 100mm

Ref.	Aba	A	B	C
Ref.	Beam			
RP 2574	75mm	65	27	75
RP 2574	60mm	50	19	75
RP 2574	100mm	90	32	80

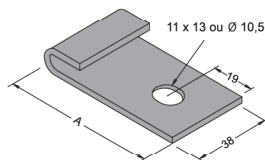


Grapa guia

Guide bearing

Ref. RP 2554 - A= 60 mm

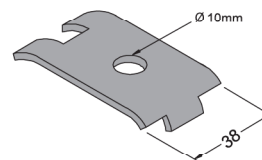
Ref. RP 2599 - A= 85 mm



Grapa fixa

Beam clamps

Ref. RP 2068

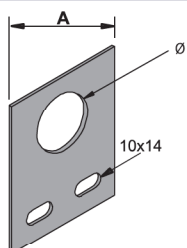


Saída horizontal para eletroduto

Horizontal exit for conduit

Ref. RP 2557 - 1/2" A 1 1/2" A= 76

Ref. RP 2558 - 2" A 4" A= 152



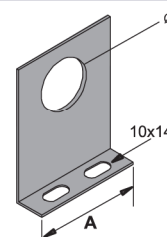
Nota: especificar Ø
Note: to specify Ø

Saída vertical para eletroduto

Vertical exit for conduit

Ref. RP 2559 - 1/2" A 1 1/2" A= 76

Ref. RP 2560 - 2" A 4" A= 152



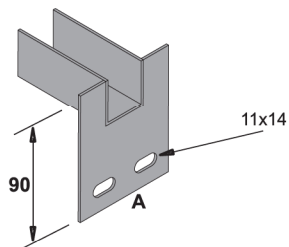
Nota: especificar Ø
Note: to specify Ø

Leitos para cabos

Cable trays ladder type

Saída horizontal de leito para perfilado
Horizontal exit from cable ladder to channel

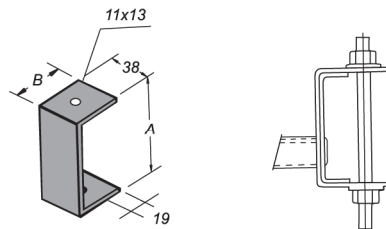
Ref. RP 2555 - p/ 38x38 A= 76
Ref. RP 2556 - p/ 38x76 A= 114



Suporte de suspensão
Bearing of suspension

Ref. RP - 2546

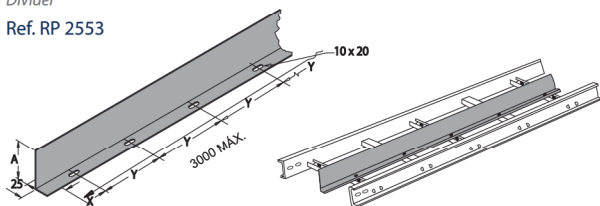
Ref.	A x B
RP 2546	60x19
RP 2546	75x19
RP 2546	100x19
RP 2546	100x45



Divisor

Divider

Ref. RP 2553

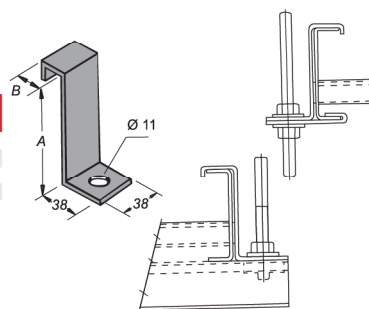


Obs: Especificar altura A e distância das travessas do leito.
Note: Specify the distance between crossbars and the height.

Suporte simples

Simple bearing

Ref.		A x B
c/ trava	s/ trava	
with lock	without lock	
RP 2594	RP 2590	60x19
RP 2595	RP 2591	75x19
RP 2596	RP 2592	100x19
RP 2597	RP 2593	100x45

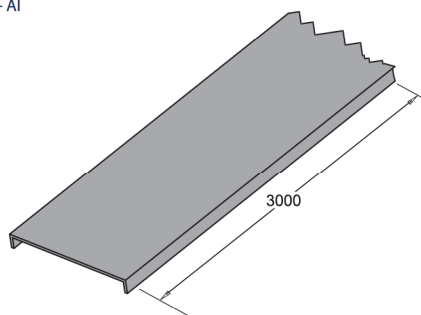


Tampa de encaixe - TE

Inserting cover - TE

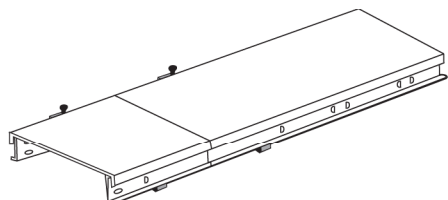
Ref. RP 2564 - AE

Ref. RP 2563 - AI



Demonstrativo de montagem

Diagram of assembly



Obs: para solicitação das tampas, acrescentar o código "TE" ou "TP" anterior à referência do leito ou derivação correspondente. Ex.: TP 2500 I 100 500 3000 GF.
Note: for request the covers, increase the code "te" or "tp" before the reference of the cables tray or corresponding derivation. Ex.: Tp 2500 I 100 500 3000 GF.

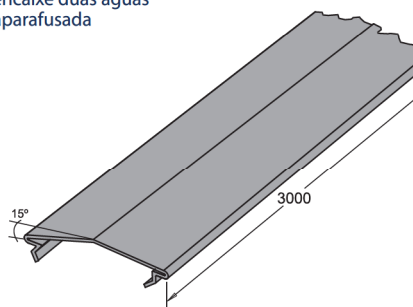
Tampa de pressão 2 águas - TP

Angular pressure cover - TP

Ref. RP 2566 - pressão

Ref. RP 2570 - encaixe duas águas

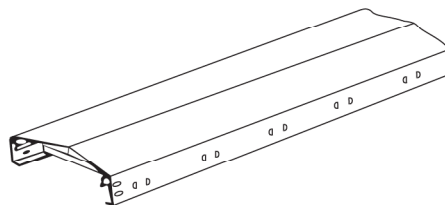
Ref. RP 2567 - aparafusada



Obs: As tampas com larguras acima de 650 mm com 3 águas.
Note: Covers with width greater than 650 mm with 3 angles.

Demonstrativo de montagem

Diagram of assembly



Obs 1: Somente para leitos tipo aba interna.

Note 1: Applicable only in cable trays with side rails turned.

Obs 2: para solicitação das tampas, acrescentar o código "TE" ou "TP" anterior à referência do leito ou derivação correspondente. Ex.: TP 2500 I 100 500 3000 GF.

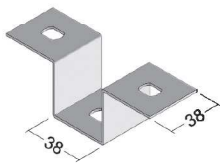
Note 2: for request the covers, increase the code "te" or "tp" before the reference of the cables tray or corresponding derivation. Ex.: Tp 2500 I 100 500 3000 GF.

Acessórios para fixação e suportaço

Accessories for fixing and support

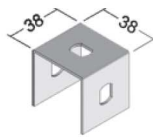
Cantoneira "ZZ"
"ZZ" angle connector

Ref. RP 2049



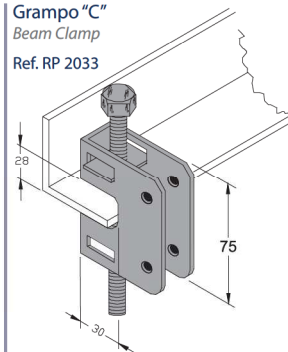
Distanciador U simples
Simple "U" distance piece

Ref. RP 2053



Grampo "C"
Beam Clamp

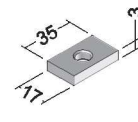
Ref. RP 2033



Inclusos: 01 parafuso ϕ 3/8" x 2 1/2"
01 porca quadrada ϕ 3/8"
Included: 01 screw ϕ 3/8" x 2 1/2"
01 square nut ϕ 3/8"

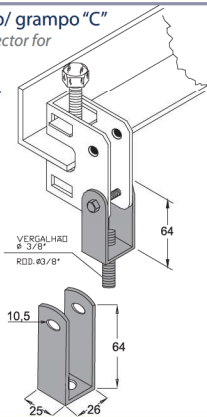
Porca retang. p/ grampo "C"
Rectangular nut for beam clamp

Ref. RP 2366



Balancim p/ grampo "C"
Swing connector for beam clamp

Ref. RP 2034



Bucha de nylon
Nylon inch anchor for concrete insert

Tipo RP S6, S8, S10, S12



Ref.	Tipo	Comp.	Paraf.	Traço
Ref.	Type	Length	bolt	Traction
RP 2217	S6	30	4,2x30	65 Kg
RP 2218	S8	40	1/4"x45	90 Kg
RP 2219	S10	50	5/16"x50	170 Kg
RP 2220	S12	60	3/8"x60	220 Kg

Chumbador "CB" com rosca interna
CBA anchor bolt

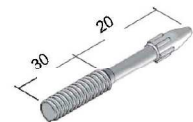
Ref. RP 2362



Ref.	Ø Rosca	A	Comp. rosca	Broca Ø mm
Ref.	Ø	A	Length	Ø mm
RP 2362	1/4"	35	12	10
RP 2364	3/8"	40	18	14
RP 2365	1/2"	50	20	18
RP 2363	5/16"			
RP 2366	5/8"			

Pino com rosca 1/4"
Threaded pin 1/4"

Ref. RP 2368



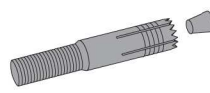
* Outras medidas sob consulta.

Chumbador rosca interna AP
AP Internal-thread anchor bolt



Ref.	Ø Rosca	A	Comp. rosca	Broca Ø mm
Ref.	Ø	A	Length	Ø mm
RP 2354	1/4"	25	35	6,35
RP 2356	3/8"	30	45	9,5
RP 2357	1/2"	35	55	12,7
RP 2355	5/16"			
RP 2358	5/8"			

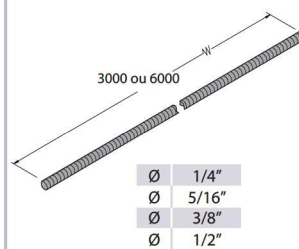
Chumbador rosca externa
External-thread anchor bolt



Ref.	Ø Rosca	A	Comp. rosca	Broca Ø mm
Ref.	Ø	A	Length	Ø mm
RP 2426	5/16"	35	12	11
RP 2425	1/4"	40	18	14
RP 2359	3/8"	52	20	18
RP 2360	1/2"			
RP 2361	5/8"			

Suporte RT
Continuous threaded rod

Ref. RP 2075



Especificar junto à referência o ϕ e o comprimento "L"
In the reference, specify the ϕ and length "L"

Parafuso cabeça lentilha
Lentil head bolt



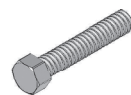
Ref.	Ø x comp.
Ref.	Ø x length
RP 2340	1/4" x 1/2"
RP 2215	1/4" x 3/4"
RP 2342	1/4" x 1"
RP 2344	5/16" x 1/2"
RP 2346	5/16" x 3/4"
RP 2350	3/8" x 1/2"
RP 2216	3/8" x 3/4"
RP 2999	1/4" x 5/8"

Parafuso lentilha auto travante
Self lock bolt



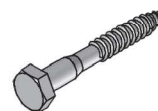
Ref.	Ø x comp.
Ref.	Ø x length
RP 2341	1/4" x 1/2"
RP 2319	1/4" x 5/8"
RP 2315	1/4" x 3/4"
RP 2343	1/4" x 1"
RP 2345	5/16" x 1/2"
RP 2347	5/16" x 3/4"
RP 2351	3/8" x 1/2"
RP 2318	3/8" x 3/4"

Parafuso cabeça sextavada
hexagonal head bolt



Comp.	Ø1/4"	Ø5/16"	Ø3/8"	Ø1/2"
Length	Ø1/4"	Ø5/16"	Ø3/8"	Ø1/2"
1/2"	2200	2201	2202	2203
5/8"	2240			
3/4"	2242	2252	2262	2272
1"	2244	2254	2264	2274
1.1/4"	2245	2255	2265	2275
1.1/2"	2246	2256	2266	2276
2"	2248	2258	2268	2278
2.1/2"	2249	2259	2269	2279
3"	2250	2260	2270	2280

Parafuso cab. sextavada rosca soberba
hexagonal head screw with conical thread



Ref.	Ø x comp.	Bucha
Ref.	Ø x length	buca
RP 2209	5/16" x 2"	S-10
RP 2210	3/8" x 2.1/2"	S-12

Parafuso cabeça redonda rosca soberba
Round head screw with conical thread



Ref.	Ø x comp.	Bucha
Ref.	Ø x length	buca
RP 2211	4,2 x 30mm	S-6
RP 2212	4,8 x 45mm	S-8
RP 2213	6,1 x 50mm	S-10

Acessórios para fixação e suportaço

Accessories for fixing and support

Porca sextavada
Hexagonal nut



Ref.	Ø x comp.
Ref.	Ø x length
RP 2222	3/16"
RP 2223	1/4"
RP 2335	5/16"
RP 2224	3/8"
RP 2225	1/2"

Arruela lisa
Plain washer



Ref.	Ø x comp.
Ref.	Ø x length
RP 2227	3/16"
RP 2228	1/4"
RP 2331	5/16"
RP 2229	3/8"
RP 2230	1/2"

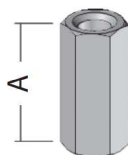
Arruela de pressço
Lock washer



Ref.	Ø x comp.
Ref.	Ø x length
RP 2232	3/16"
RP 2233	1/4"
RP 2336	5/16"
RP 2234	3/8"
RP 2235	1/2"

Prolongador para suspenço
Hanger rod extension

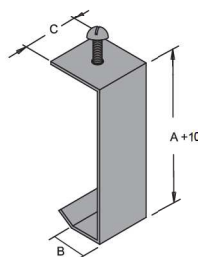
Ref. RP 2073 - A=25mm
Ref. RP 2283 - A=50mm



Ø	1/4"
Ø	5/16"
Ø	3/8"
Ø	1/2" (somente RP 2283)

Obs: Comp. de 50mm sob consulta.

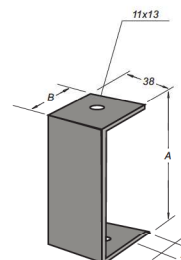
Presilha para tampa de encaixe
Anchor clip for inserting cover



Ref.	A	B	C
RP 2580	60	19	19
RP 2581	75	19	19
RP 2582	100	19	19
RP 2583	100	45	25

Suporte de suspenço
"C" Type support

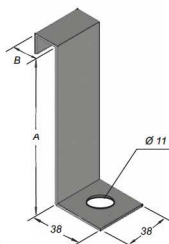
Ref. RP 2546



Ref.	A	B
RP 2546	60	19
RP 2546	75	19
RP 2546	100	19
RP 2583	100	45

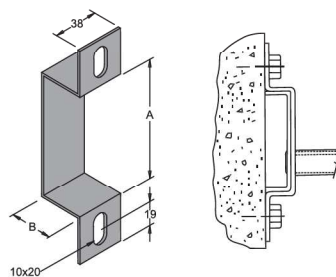
Suporte simples
Simple bearing

Ref. RP 2594



c/ Trava	s/ Trava	Ref.	Ref.	A	B
RP 2594	RP 2590	60	19		
RP 2595	RP 2591	75	19		
RP 2596	RP 2592	100	19		
RP 2597	RP 2593	100	45		

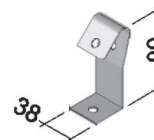
Suporte de fixaço lateral
Bearing of lateral fixing



Ref.	A x B
RP 2586	60x19
RP 2587	75x19
RP 2588	100x19
RP 2589	100x45

Suporte p/ cabo de aço
Cable wire support

Ref. RP 2428



Ø	1/4"
Ø	5/16"
Ø	3/8"

Obs.: Favor informar o Ø do Cabo de Aço.

Sugestões de instalações de leitos p/ cabos

Suggestions for fixing cable trays ladder type

FIXAÇÕES SUPERIORES UPPER SETTINGS			
<p>Simples Simple</p> <p>RP 2053 RP 2075</p>	<p>Dupla Double</p> <p>RP 2362 ou RP 2364 RP 2049 RP 2075</p>	<p>Grampo "C" Beam clamp</p> <p>RP 2033 RP 2075</p>	<p>Cabo de aço ou vergalhão Steel wire or continuous threaded rod</p> <p>Ø Max. 5/8" RP 2428 RP 2075</p>
SUPORTAÇÕES SUPPORTS			
<p>mão francesa simples 38 x 38 single bracket 38 x 38</p> <p>RP 2500 RP 2501 RP 2502 RP 2503 RP 2504 RP 2069 RP 2210 RP 2266 RP 2068</p> <p>Viga ou parede de concreto Beam or concrete wall</p>		<p>mão francesa dupla 38 x 38 double bracket 38x38</p> <p>RP 2070 RP 2500 RP 2501 RP 2502 RP 2503 RP 2504 RP 2216 RP 2081 RP 2554 ou RP 2599</p> <p>Parede de alvenaria ou bloco de cimento wall of masonry or cement block</p> <p>Chapa para reforço Reinforced steel plate</p>	
<p>suspensão perfil 19 x 38 low channel 19x38</p> <p>RP 2075 RP 2596</p> <p>Ver fixações superiores See upper settings</p>		<p>suspensão perfil 38 x 38 high channel 38 x 38</p> <p>RP 2075 RP 2000 RP 2266 RP 2068 RP 2062</p> <p>Ver fixações superiores See upper settings</p>	
<p>suporte unha / grapa fixa simple bearing / beam clamp</p> <p>RP 2075 RP 2596 RP 2554 ou RP 2559</p> <p>Ver fixações superiores See upper settings</p>		<p>Suporte "C" "C" type support</p> <p>RP 2075 RP 2546</p> <p>Ver fixações superiores See upper settings</p>	

Observações técnicas de leitos para cabos

Technical notes for cable trays ladder type

ESCOLHA DO LEITO

Para escolha do leito adequado, calcular o peso por metro (Kg/m) dos fios e cabos a serem lançados e verificar nas tabelas de cargas. Não esquecer de considerar o agrupamento desejado e o diâmetro externo dos cabos para determinar a largura (A).

TAMPAS

Os trechos curvos também podem ser fornecidos com tampa normal, bastando acrescentar CTN (com tampa normal) ao término das referências.

EXEMPLO: RP 2516/31/T25/400/320/43/GF/CTN = curva vertical externa 90° p/ leito semi-pesado 100mmx400mm, abas internas, raio segmentado de 320 mm, #14/#16, galvanizada a fogo nbr 6323 e com tampa normal.

Em casos especiais as tampas normais (CTN) poderão ser fornecidas aparafusadas (CTA).

Tampas normais (CTN) ou tampas aparafusadas (CTA) para curvas, tem virola de somente 70 mm a partir das extremidades, restante dos arcos das curvas sem virola. Ver exemplo de aplicação.

DIVISORES

Caso necessite dividir um ou mais circuitos ou sistemas de alimentação ou distribuição no mesmo leito, usar divisor RP 2553 indicando sempre em que tipo de leito será utilizado.

JUNÇÕES

Para fixação das junções RP 2552, RP 2551 e RP 2574, que unem trechos retos entre si e trechos curvos, utilizar em cada uma 4 jogos de parafusos cabeça lenticular Ø3/8"x3/4" (RP 2216), porcas sextavadas Ø3/8" (RP 2224) e arruelas lisas (RP 2229). Em locais sujeitos a vibrações mecânicas, recomendamos utilizar arruelas de pressão (RP 2234).

Como alternativa podem ser utilizados parafusos com cabeça lenticular auto travante Ø5/16"x3/4" (RP 2347) equivalentes.

Recomendamos utilizar os parafusos com a cabeça voltada para o interior dos leitos, para evitar danos ao lançamento.

ACABAMENTOS SUPERFICIAIS

Acrescentar sempre ao término das referências o tipo de acabamento superficial ou material desejado:

PZ pré-galvanizado a quente - padrão CSN conf. NBR 7008

GF pós-galvanizada conf. NBR 6323

AL alumínio

GE galvanização eletrolítica

AI aço inoxidável

PT pintado

ATENÇÃO: especificações sem a indicação do tratamento superficial serão consideradas como materiais pré galvanizado a quente (PZ).

ESPECIFICAÇÕES

Indicar sempre o tipo de material desejado, a largura, o tratamento superficial e a disposição das abas e, quando for o caso, o raio de curvatura.

EXEMPLO:

Vide páginas 34 e 35.

ATENÇÃO: Especificações de leito sem a clara observação de A/I (abas internas) ou A/E (abas externas) serão consideradas como abas internas.

Especificações de curvas para leitos sem determinação do raio de curvatura, serão consideradas como raio de 320.

Recomendamos aterrar todo o sistema de leitos.

CHOICE OF CABLE TRAY

To select the appropriate cable tray, calculate the weight by meter (Kg/m) of threads and cables to be deployed and check the load charts. Do not forget to consider the desired grouping and the cables outer diameter to establish the width (A).

COVERS

Bent sections can also be provided with regular cover, just adding CTN (with regular cover) to reference ends.

EXAMPLE: RP 2516/31/T25/400/320/43/GF/CTN = 90° external vertical bend for semi-heavy cable tray 100mmx400mm, turned inwards, with internal segmented radius of 320mm, #14/#16, hot dip galvanized according to nbr 6323 and with insert cover.

In special cases the regular covers (CTN) may be provided screwed (CTA).

Regular covers (CTN) or screwed cover (CTA) for bent have ferrule of just 70 mm from the ends, remainder of bents' arches without ferrule. Refer to application example.

DIVIDERS

In case you need to divide one or more feed or distribution circuits or systems in the same cable tray, use RP 2553 divider always indicating in which cable tray type it will be used.

JOINTS

For placement of RP 2552, RP 2551 and RP 2574 joints, connecting straight sections between each other and bent sections, uses in each one 4 sets of lenticular head screws Ø3/8"x3/4" (RP 2216), hexagonal nuts Ø3/8" (RP 2224) and plain washers Ø3/8" (RP 2229). In places subject to mechanical vibrations, we recommend to use pressure washers Ø3/8" (RP 2234).

Alternatively it can be used Ø 5/16" x 3/4" (RP 2347) auto locking round head screws.

We recommend the use of screws with head turned to the cable trays interior, to avoid damage to the deployment.

SUPERFICIAL FINISHES:

Always add to reference ends the desired surface or material finish type:

PZ pre galvanized steel according to NBR 7008

GF hot dip galvanized according NBR 6323

AL aluminum

GE electrolytic galvanizing

AI stainless steel

PT painted

ATTENTION: Specifications without indication of surface treatment shall be considered as hot pre galvanized material (PZ).

SPECIFICATIONS:

Always indicate the type of desired material, width, surface treatment and brims arrangement and when applicable, bending radius.

EXAMPLE:

Refer to pages 34 and 35.

ATTENTION: Cable tray specifications without clear observation of A/I (turned inwards) or A/E (turned outwards) shall be considered as turned inwards.

Bends specifications for cable trays with no bending radius established shall be considered as 320 radius.

We recommend grounding the entire cable tray system.