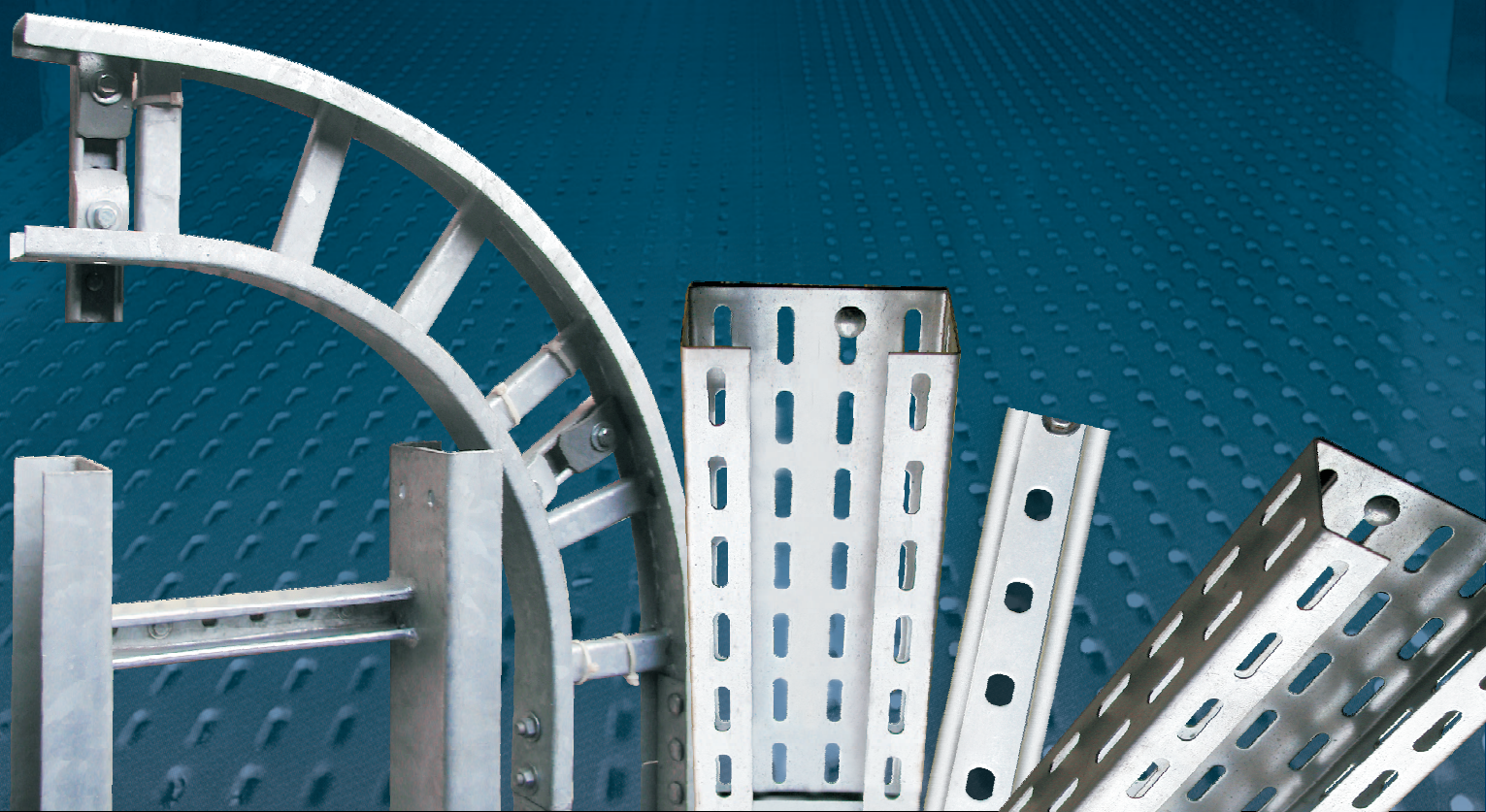


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Catálogo Técnico



Perfilados - Eletrocalhas - Leito para Cabos

Completa Linha de Acessórios



SAC

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Perfilados e acessórios

(CHANNELS AND ACCESSORIES)

Perfilados (Channels)	07 a 09
Acessórios (Accessories)	10 a 39
Aplicações Típicas (Applications Typical)	40 a 42
Tabelas de Cargas (Load Tables)	43

leito para cabos

(CABLE TRAYS)

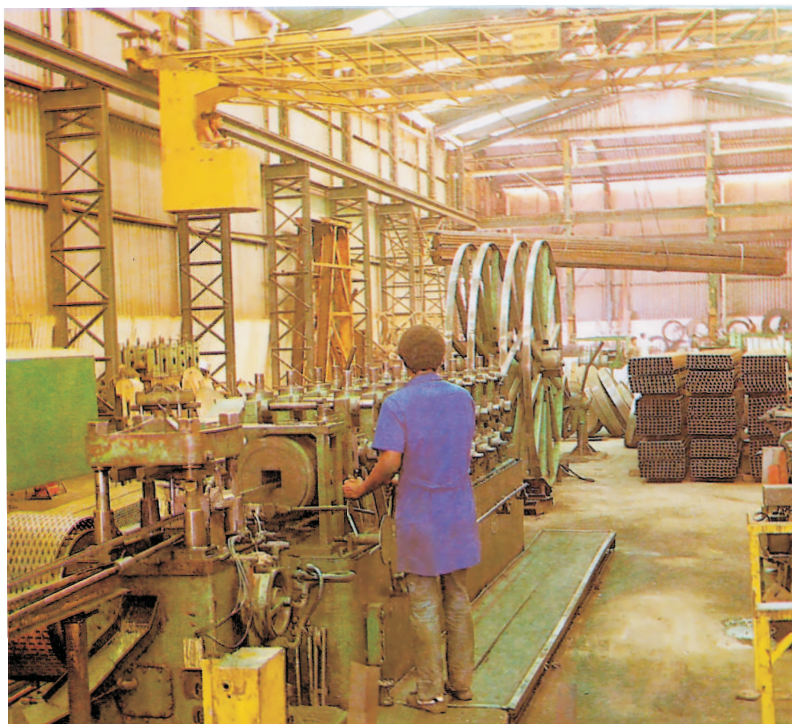
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eletrocalhas

(CABLES AND TUBING CHANNELS)

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Perfilados e acessórios



As medidas indicadas no presente capítulo, são expressas em milímetros.

Quando se referem à medidas de tubos (expressas em polegadas), deve-se entendê-las como medidas nominais.

Os furos dos perfilados e ferragens são padronizados na medida de 10x13mm.

Os materiais têm como acabamentos normais, gavanização à fogo (zincagem por imersão à quente, segundo normas ABNT-MB 25) e galvanização eletrolítica.

Outros tipos de acabamento serão considerados, porém sob consulta.

Para peças com rosca (parafusos, porcas, vergalhões), o acabamento recomendado é galvanização eletrolítica ou, eventualmente, cadmiação eletrolítica, para uso em ambientes mais agressivos.

Para especificar o acabamento desejado, acrescentar, após a referência os números:

- 1 - Galvanização eletrolítica
- 2 - Gavanização à Fogo
- 3 - Bicromatizado.

O material utilizado na fabricação dos perfilados e acessórios é chapa de aço, porém, sob consulta, poderão ser fabricados em alumínio, aço inoxidável ou latão.

The measurements indicated herein this chapter are in millimeter. When referring to tubing (indicated in inches), they should be understood as nominal measurements.

The channel and accessory holes are standard, 10x13mm.

The normal finishing of the materials are hot-dip galvanizing to ABNT-MB 25) and electrolytic galvanizing. If required, other types of finishing can be considered.

For threaded parts (screws, nuts, rods), the recommended finishing is electrolytic galvanizing, or eventually cadmium finishing, for use in special environments.

To specify the desired finishing, add after the reference numbers:

- 1 - Electrolytic galvanizing
- 2 - Hot-dip galvanizing
- 3 - Cadmium finishing

The material utilized in the manufacture of the channels and accessories, is steel plate, however when requested, can be aluminum, stainless steel or brass.



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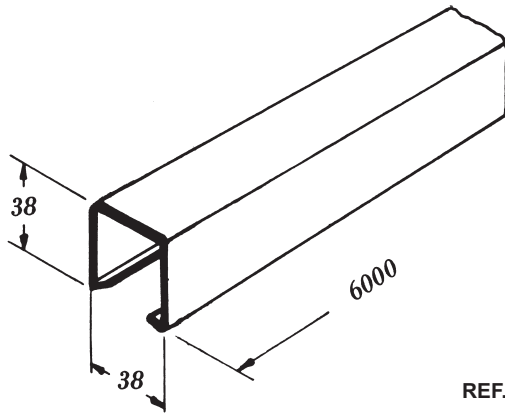
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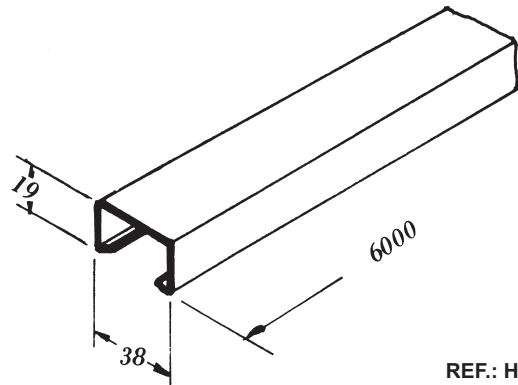
NOTA (NOTE)

A series of horizontal lines for writing notes, filling the majority of the page's content area.

LISOS
WITH SOLID BASES

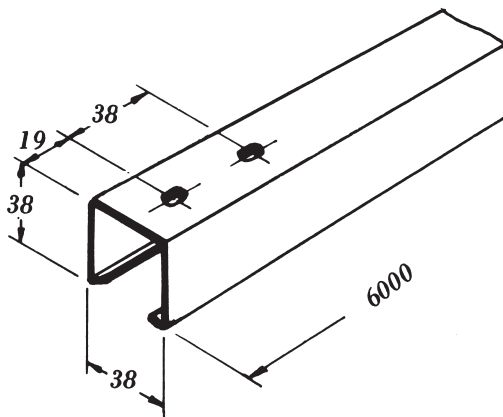


38x38
REF.: H.E.1.000

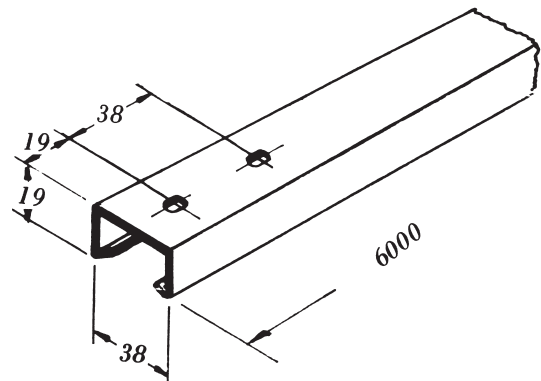


19x38
REF.: H.E.1.003

COM 2 FUROS NAS PONTAS
WITH 2 HOLES AT THE ENDS

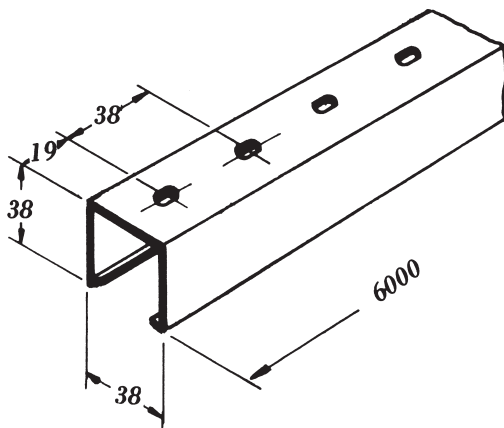


38x38
REF.: H.E.1.002

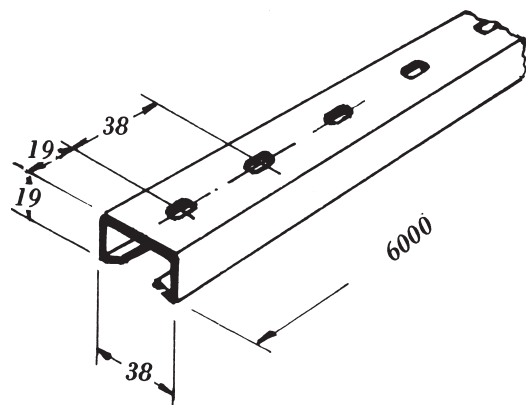


19x38
REF.: H.E.1.005

PERFURADOS
WITH PERFORATIONS



38x38
REF.: H.E.1.001



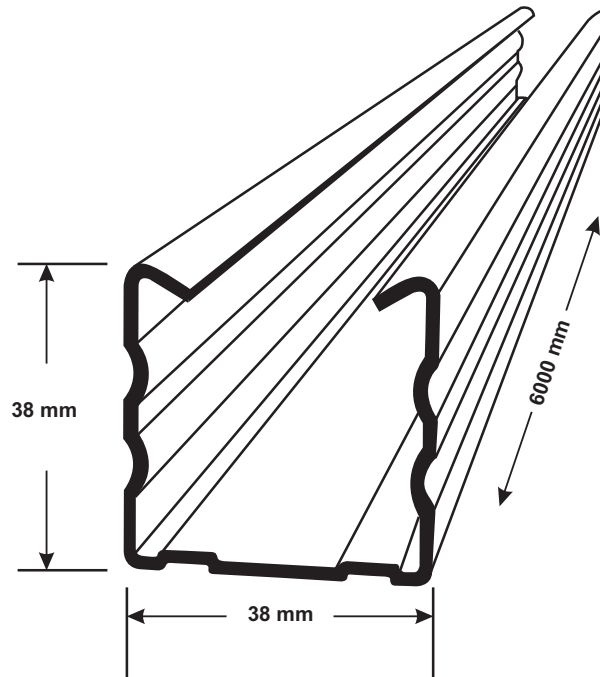
19x38
REF.: H.E.1.004

NOTA: Os perfilados acima poderão ser fornecidos em chapas n° 16,14 e 12 M.S.G.; mencionar no pedido, após a referência, a chapa desejada.
NOTE: The channels above can be furnished with no. 16, 14 and 12 M.S.G. steel plate; in the order, after reference, mention the desirable steel plate.



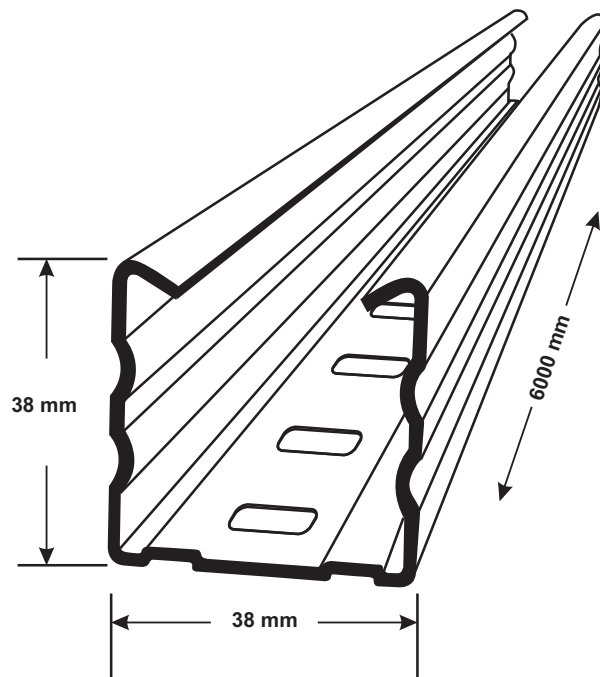
PERFILADOS DUTO ESTRUTURAIS COM NERVURAS (REFORÇO) CHANNELS

LISOS
WITH SOLID BASES



REF.: H.E.1016

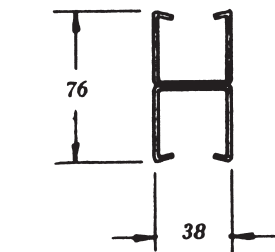
PERFURADOS
WITH PERFORATIONS



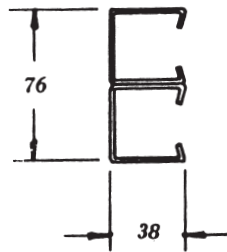
REF.: H.E.1017

NOTA: Os perfilados acima poderão ser fornecidos em chapas nº 18,20 e 22 M.S.G.; mencionar no pedido, após a referência, a chapa desejada.
NOTE: The channels above can be furnished with no. 16, 14 and 12 M.S.G. steel plate; in the order, after reference, mention the desirable steel plate.

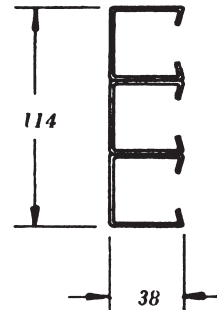
PERFILADOS CONJUGADOS WELDED CHANNEL COMBINATIONS



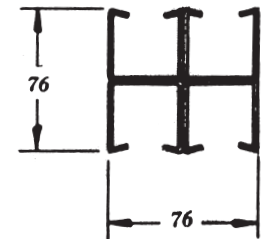
TIPO 1
TYPE 1
REF.: H.E.1.020



TIPO 2
TYPE 2
REF.: H.E.1.021

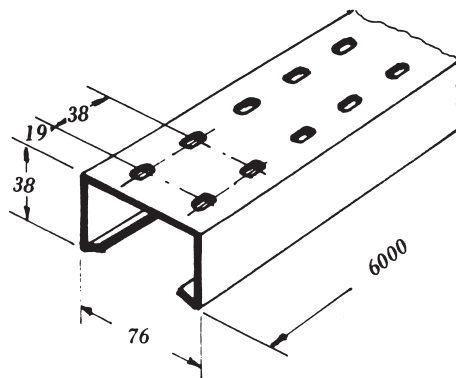


TIPO 6
TYPE 6
REF.: H.E.1.025

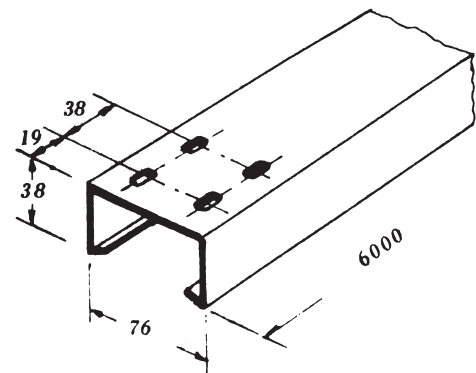


TIPO 17
TYPE 17
REF.: H.E.1.036

DUPLO, PERFURADOS DOUBLE, WITH PERFORATIONS

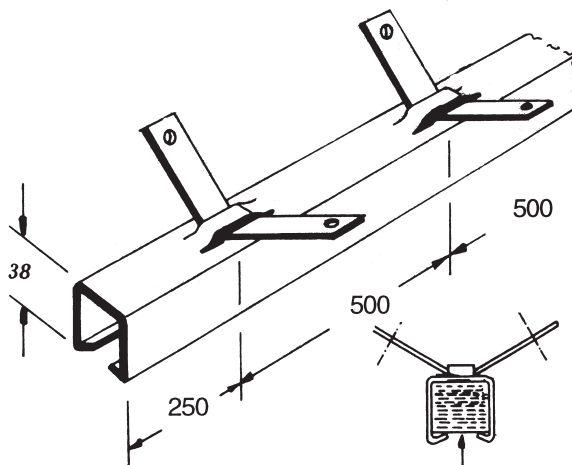


38x76
REF.: H.E.1.007



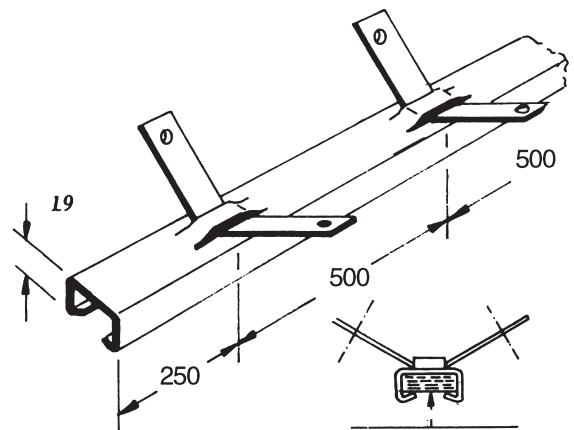
38x76
REF.: H.E.1.006

PARA EMBUTIR EM CONCRETO WITH CONCRETE INSERTS



Enchimentos de "Isopor"
(pedir à parte)
"isopor" filing
(to be ordered separately)

38x38
REF.: H.E.1.015



Enchimentos de "Isopor"
(pedir à parte)
"isopor" filing
(to be ordered separately)

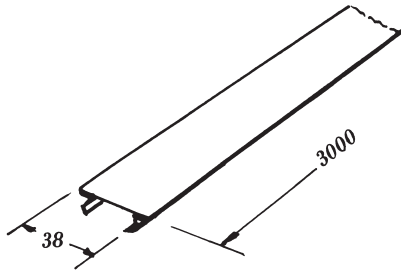
19x38
REF.: H.E.1.010

NOTA: Os perfilados acima poderão ser fornecidos em chapas n° 16, 14 e 12 M.S.G.; mencionar no pedido, após a referência, a chapa desejada.
NOTE: The channels above can be furnished with no. 16, 14 and 12 M.S.G. steel plate; in the order, after reference, mention the desirable steel plate.



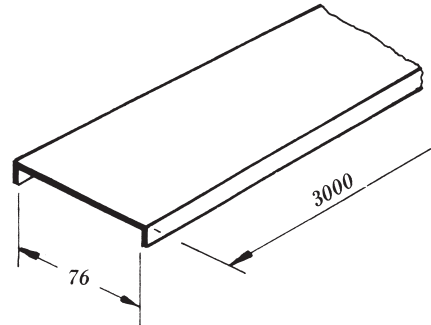
TAMPAS, FITAS E CANTONEIRAS PERFURADAS E TRELIÇAS CLOSURES STRIP, PERFORATED STEEL STRIP, PERFORATED ANGLE AND LATTICES

TAMPA METÁLICA PARA PERFILADO
CHANNEL CLOSURE STRIP



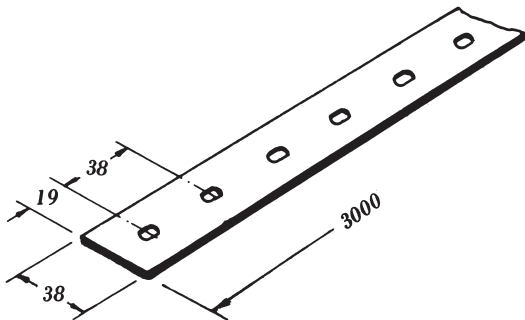
REF.: H.E.1.050

TAMPA METÁLICA PARA PERFILADO DUPLO
DOUBLE CHANNEL CLOSURE STRIP



REF.: H.E.1.051

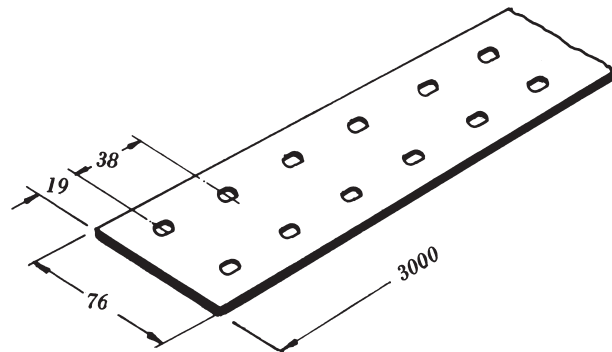
FITA PERFURADA
PERFORATED STEEL STRIP



CHAPAS Nº.: 16, 14, 12 ou 11 - M.S.G
STEEL PLATE No.: 16, 14, 12 or 11 - M.S.G

REF.: H.E.1.100

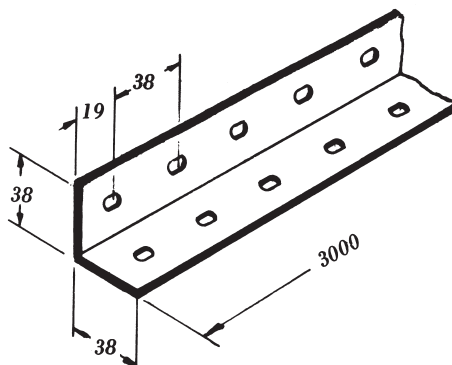
FITA PERFURADA DUPLA
DOUBLE PERFORATED STEEL STRIP



CHAPAS Nº.: 16, 14, 12 ou 11 - M.S.G
STEEL PLATE No.: 16, 14, 12 or 11 - M.S.G

REF.: H.E.1.055

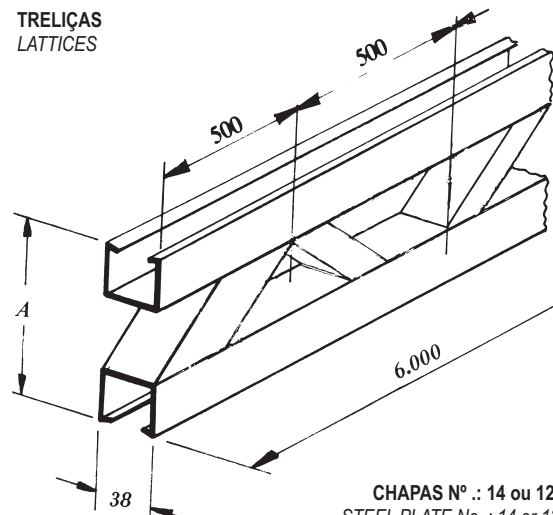
CANTONEIRA PERFURADA
PERFORATED ANGLE



CHAPAS Nº.: 14, 12 ou 11 - M.S.G
STEEL PLATE No.: 14, 12 or 11 - M.S.G

REF.: H.E.1.065

TRELIÇAS
LATTICES



CHAPAS Nº.: 14 ou 12 - M.S.G
STEEL PLATE No.: 14 or 12 - M.S.G

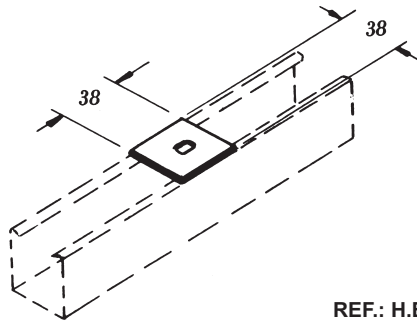
NOTA: Mencionar no pedido a altura (A) e a chapa
NOTE: In the order, mention the height (A) and steel plate

REF.: H.E.1060

A
114
152
190
228
266
304

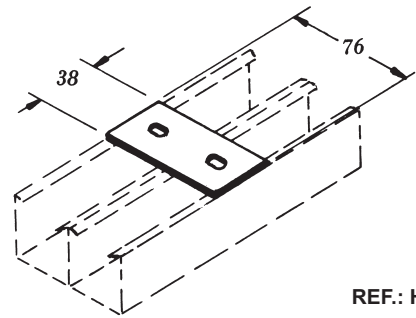
NOTA: Os perfilados acima poderão ser fornecidos em chapas nº 16, 14 e 12 M.S.G.; mencionar no pedido, após a referência, a chapa desejada.
NOTE: The channels above can be furnished with no. 16, 14 and 12 M.S.G. steel plate; in the order, after reference, mention the desirable steel plate.

JUNÇÃO PLANA COM 1 FURO
ONE HOLE PLATE CONNECTOR



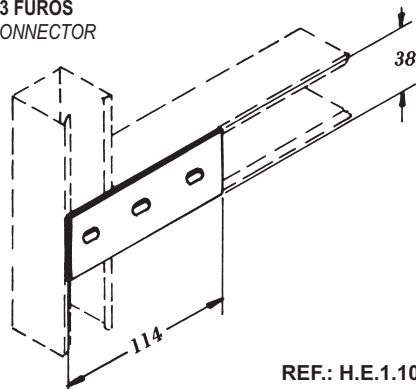
REF.: H.E.1.101

JUNÇÃO PLANA COM 2 FUROS
TWO HOLE PLATE CONNECTOR



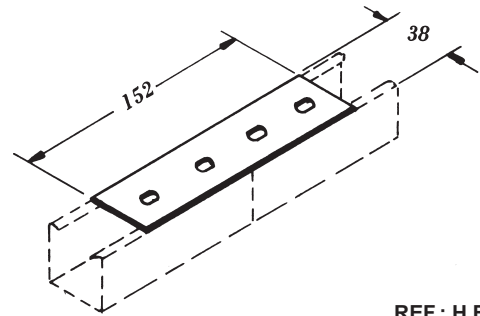
REF.: H.E.1.102

JUNÇÃO PLANA COM 3 FUROS
THREE HOLE PLATE CONNECTOR



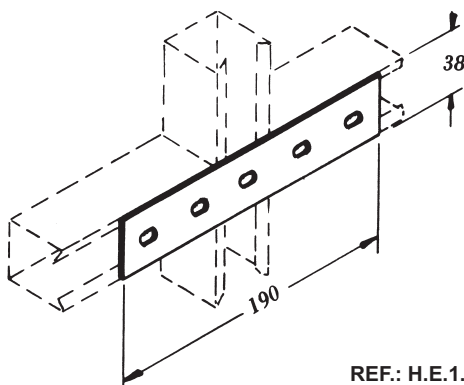
REF.: H.E.1.103

JUNÇÃO PLANA COM 4 FUROS
FOUR HOLE PLATE CONNECTOR



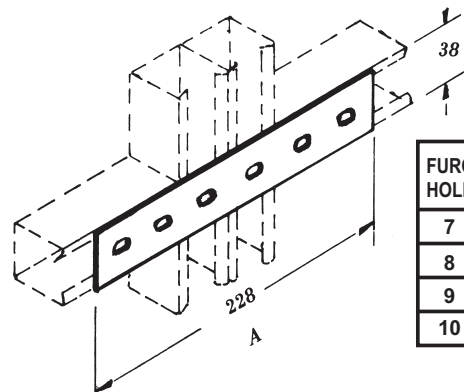
REF.: H.E.1.104

JUNÇÃO PLANA COM 5 FUROS
FIVE HOLE PLATE CONNECTOR



REF.: H.E.1.105

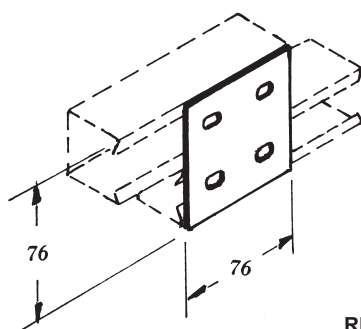
JUNÇÃO PLANA COM 6 FUROS
SIX HOLE PLATE CONNECTOR



REF.: H.E.1.106

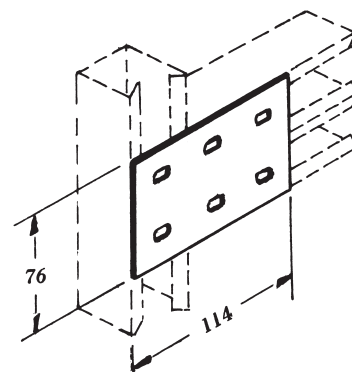
FUROS HOLES	A	REF.:H.E.
7	266	1.107
8	304	1.108
9	342	1.109
10	380	1.110

JUNÇÃO PLANA DUPLA COM 4 FUROS
DOUBLE FOUR HOLE PLATE CONNECTOR



REF.: H.E.1.131

JUNÇÃO PLANA DUPLA COM 6 FUROS
DOUBLE SIX HOLE PLATE CONNECTOR

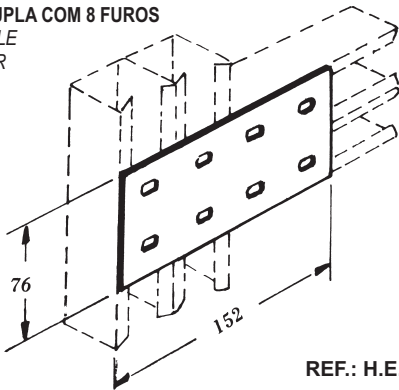


REF.: H.E.1.132



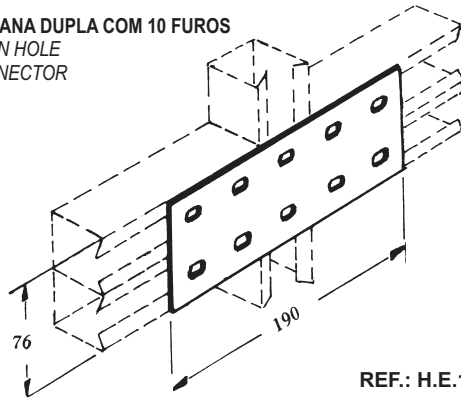
JUNÇÕES PLANAS FLAT PLATE FITTINGS

JUNÇÃO PLANA DUPLA COM 8 FUROS
DOUBLE EIGHT HOLE
PLATE CONNECTOR



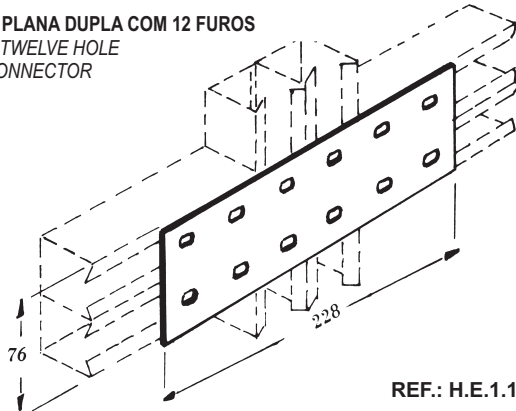
REF.: H.E.1.133

JUNÇÃO PLANA DUPLA COM 10 FUROS
DOUBLE TEN HOLE
PLATE CONNECTOR



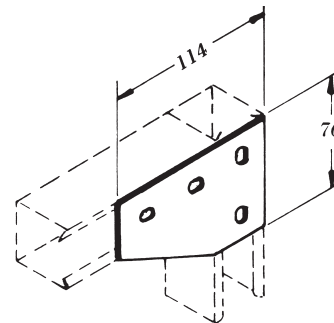
REF.: H.E.1.134

JUNÇÃO PLANA DUPLA COM 12 FUROS
DOUBLE TWELVE HOLE
PLATE CONNECTOR



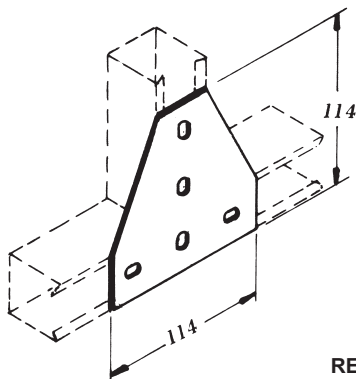
REF.: H.E.1.135

JUNÇÃO PLANA "L" COM 4 FUROS
FOUR HOLE L - PLATE CONNECTOR



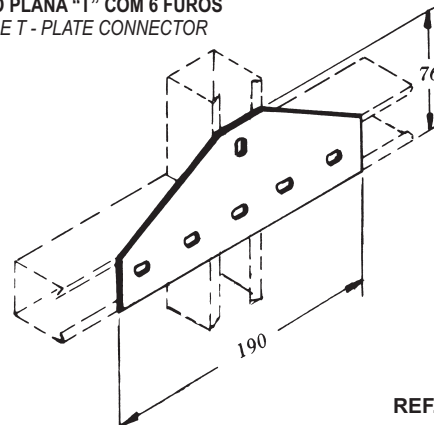
REF.: H.E.1.111

JUNÇÃO PLANA "T" COM 5 FUROS
FIVE HOLE T - PLATE CONNECTOR



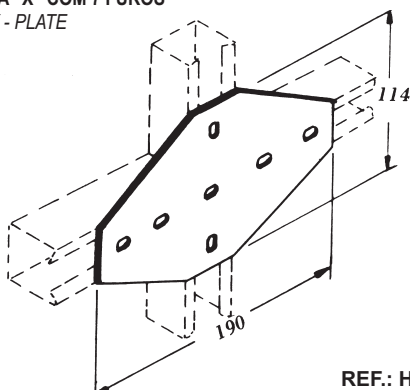
REF.: H.E.1.112

JUNÇÃO PLANA "T" COM 6 FUROS
SIX HOLE T - PLATE CONNECTOR



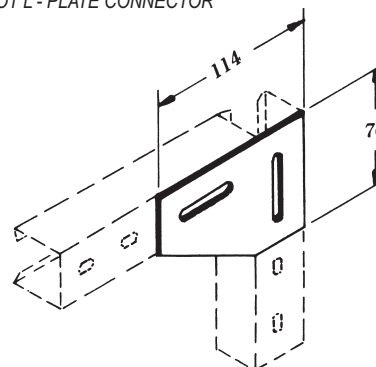
REF.: H.E.1.113

JUNÇÃO PLANA "X" COM 7 FUROS
SEVEN HOLE X - PLATE
CONNECTOR



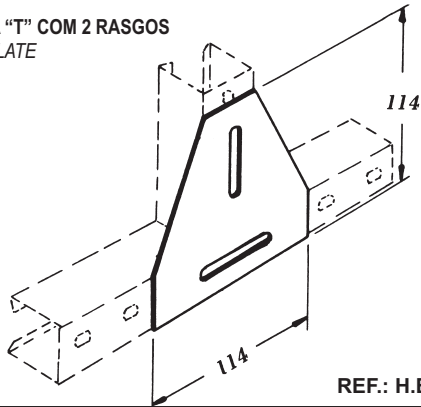
REF.: H.E.1.114

JUNÇÃO PLANA "L" COM 2 RASGOS
TWO SLOT L - PLATE CONNECTOR



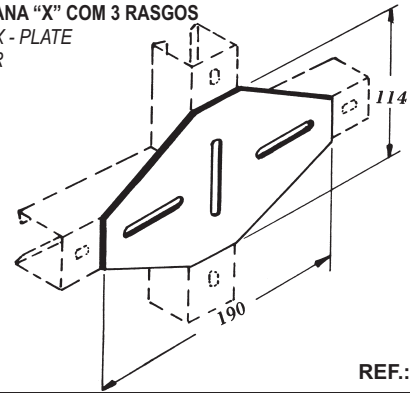
REF.: H.E.1.115

JUNÇÃO PLANA "T" COM 2 RASGOS
TWO SLOT T - PLATE
CONNECTOR



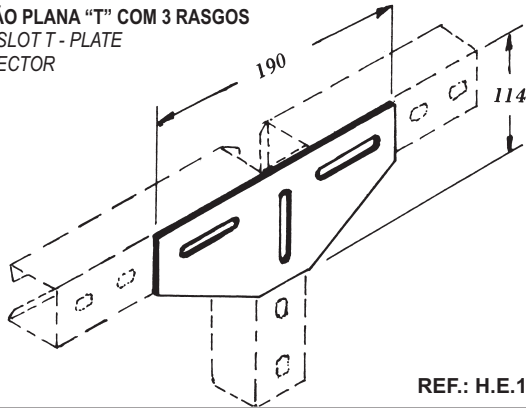
REF.: H.E.1.116

JUNÇÃO PLANA "X" COM 3 RASGOS
TREE SLOT X - PLATE
CONNECTOR



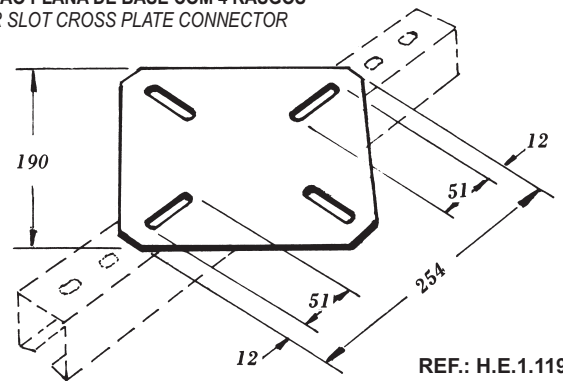
REF.: H.E.1.117

JUNÇÃO PLANA "T" COM 3 RASGOS
TREE SLOT T - PLATE
CONNECTOR



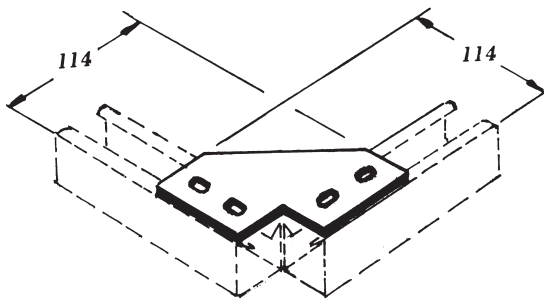
REF.: H.E.1.118

JUNÇÃO PLANA DE BASE COM 4 RASGOS
FOUR SLOT CROSS PLATE CONNECTOR



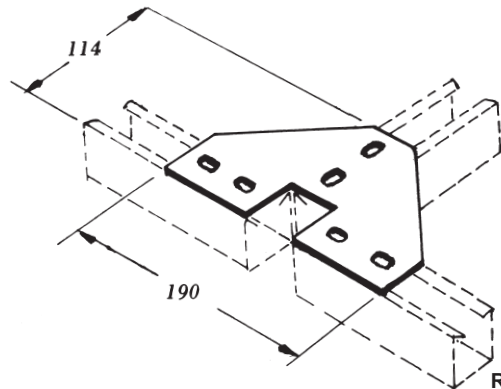
REF.: H.E.1.119

JUNÇÃO "L" RECORTADA COM 4 FUROS
FOUR HOLE SLOTTED L - PLATE CONNECTOR



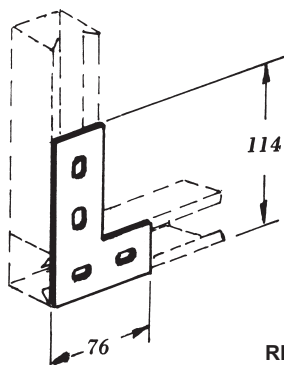
REF.: H.E.1.120

JUNÇÃO "T" RECORTADA COM 6 FUROS
SIX HOLE SLOTTED T - PLATE CONNECTOR



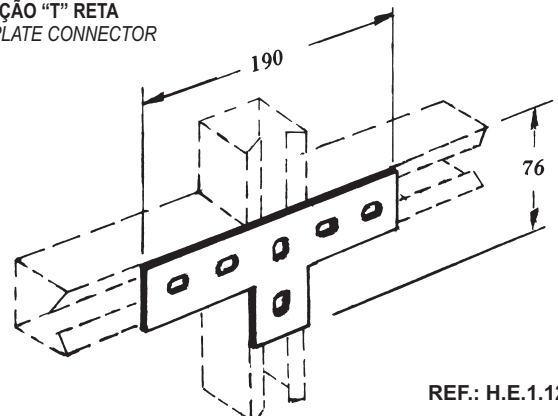
REF.: H.E.1.121

JUNÇÃO "L" RETA
L - PLATE CONNECTOR



REF.: H.E.1.122

JUNÇÃO "T" RETA
T - PLATE CONNECTOR

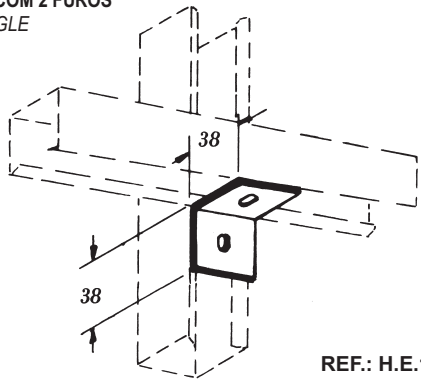


REF.: H.E.1.123



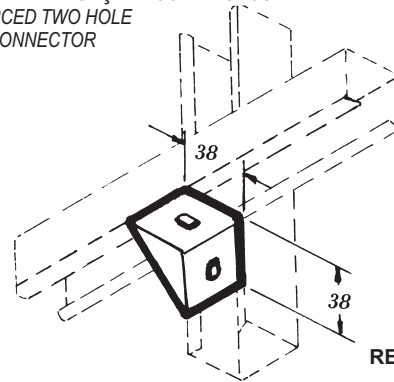
CANTONEIRAS 90 - DEGREE FITTINGS

CANTONEIRA COM 2 FUROS
TWO HOLE ANGLE
CONNECTOR



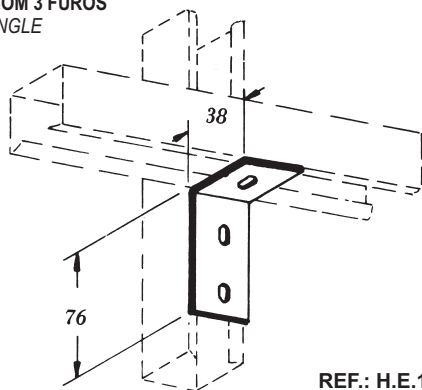
REF.: H.E.1.200

CANTONEIRA REFORÇADA COM 2 FUROS
REINFORCED TWO HOLE
ANGLE CONNECTOR



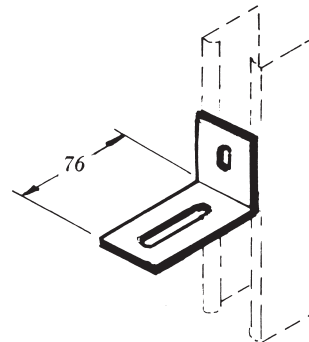
REF.: H.E.1.220

CANTONEIRA COM 3 FUROS
THREE HOLE ANGLE
CONNECTOR



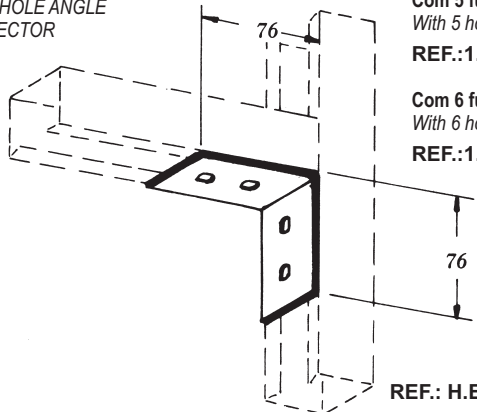
REF.: H.E.1.201

CANTONEIRA COM 1 FURO E 1 RASGO
ONE HOLE - ONE SLOT ANGLE
CONNECTOR



REF.: H.E.1.204

CANTONEIRA COM 4 FUROS
FOUR HOLE ANGLE
CONNECTOR

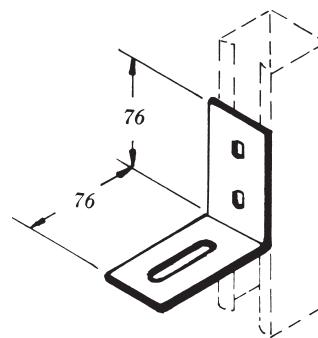


REF.: H.E.1.202

Com 5 furos
With 5 holes
REF.:1.245

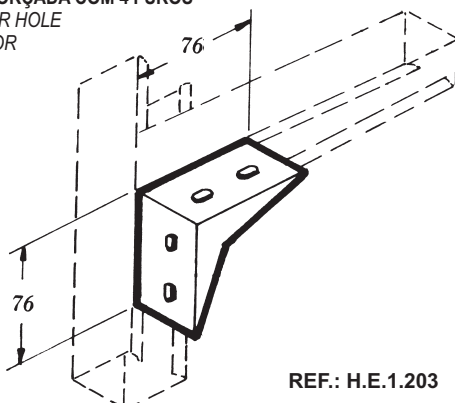
Com 6 furos
With 6 holes
REF.:1.245

CANTONEIRA COM 2 FUROS E 1 RASGO
TWO HOLE - ONE SLOT ANGLE
CONNECTOR



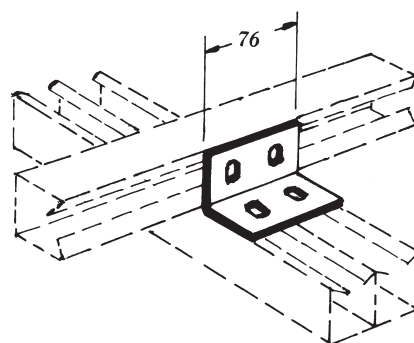
REF.: H.E.1.206

CANTONEIRA REFORÇADA COM 4 FUROS
REINFORCED FOUR HOLE
ANGLE CONNECTOR



REF.: H.E.1.203

CANTONEIRA DUPLA COM 4 FUROS
DOUBLE FOUR HOLE ANGLE
CONNECTOR

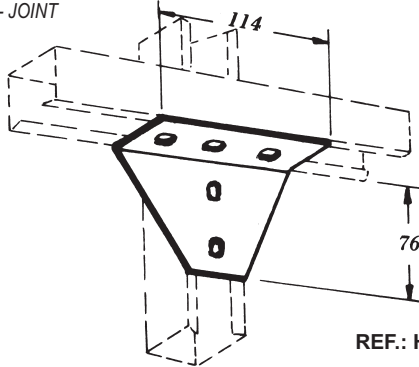


REF.: H.E.1.217

CANTONEIRAS

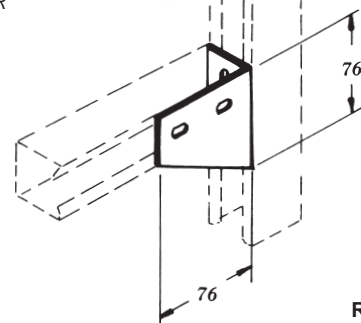
90 - DEGREE AND ANGULAR FITTING

CANTONEIRA "T" COM 5 FUROS
FIVE HOLE T - JOINT
CONNECTOR



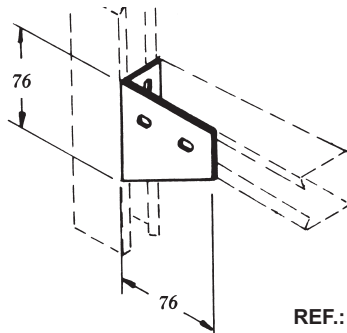
REF.: H.E.1.211

CANTONEIRA "L" ESQUERDA COM 4 FUROS
FOUR HOLE L - LEFT GUSSET
CONNECTOR



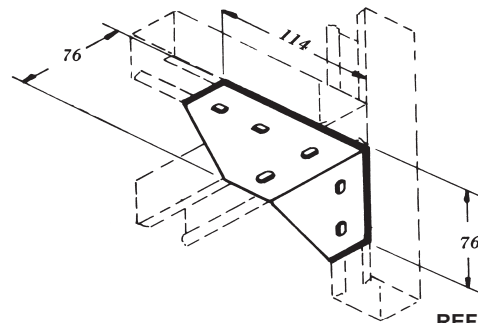
REF.: H.E.1.212

CANTONEIRA "L" DIREITA COM 4 FUROS
FOUR HOLE L - RIGHT GUSSET
CONNECTOR



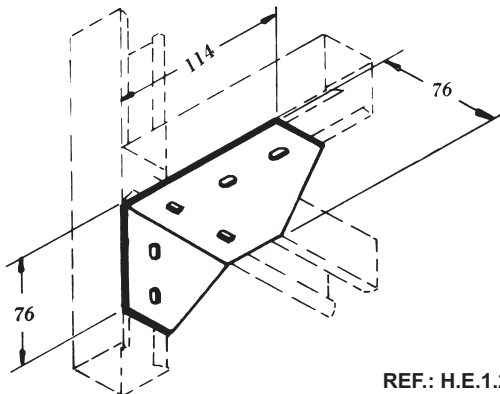
REF.: H.E.1.213

CANTONEIRA "L" ESQUERDA COM 6 FUROS
SIX HOLE L - LEFT GUSSET
CONNECTOR



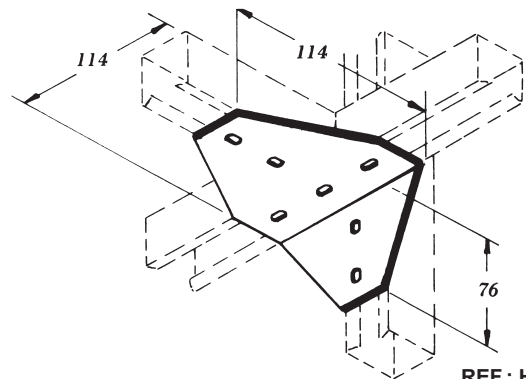
REF.: H.E.1.214

CANTONEIRA "L" DIREITA COM 6 FUROS
SIX HOLE L - RIGHT GUSSET
CONNECTOR



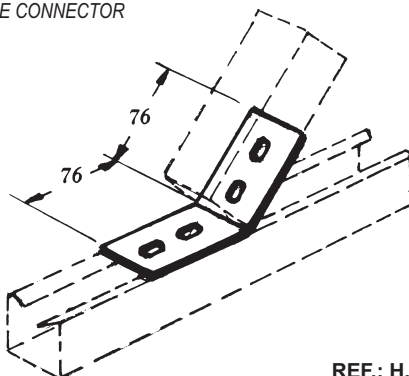
REF.: H.E.1.215

CANTONEIRA PESADA COM 7 FUROS
SEVEN HOLE HEAVY ANGLE
CONNECTOR



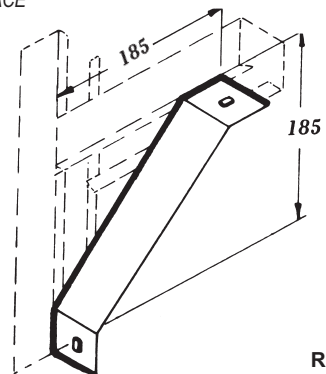
REF.: H.E.1.216

CANTONEIRA ANGULAR DE 45°
45° OPEN ANGLE
CONNECTOR



REF.: H.E.1.205

CANTONEIRA ANGULAR DE APOIO DE 45°
45° CORNER BRACE

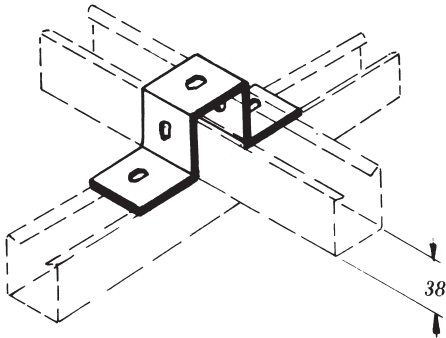


REF.: H.E.1.207



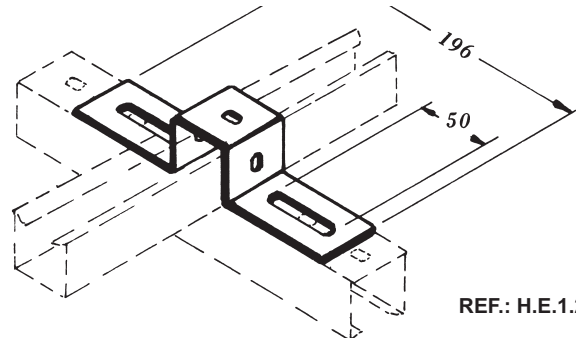
JUNÇÕES ANGULARES "U" AND "Z" FITTINGS

JUNÇÃO ANGULAR DUPLA ALTA
U - SUPPORT FOUR 38 DEEP CHANNEL



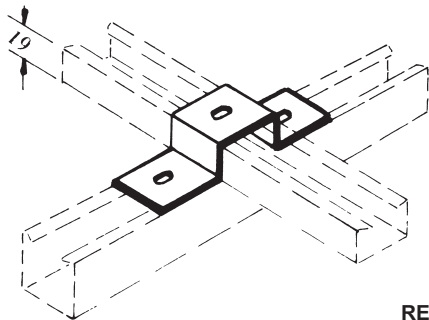
REF.: H.E.1.224

JUNÇÃO ANGULAR DUPLA ALTA COM RASGOS
SLOTTED U - SUPPORT FOUR 38 DEEP CHANNEL



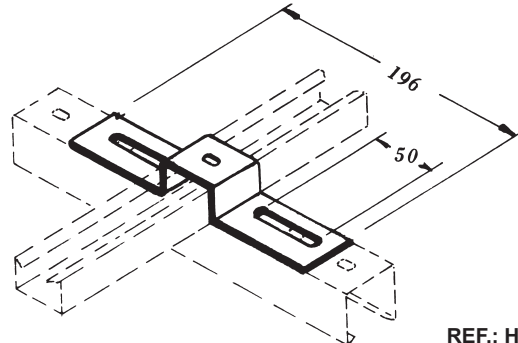
REF.: H.E.1.209

JUNÇÃO ANGULAR DUPLA BAIXA
U - SUPPORT FOUR 19 DEEP CHANNEL



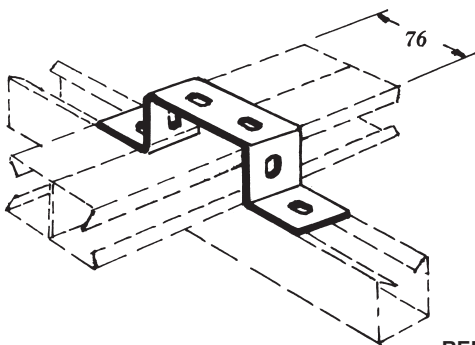
REF.: H.E.1.223

JUNÇÃO ANGULAR DUPLA BAIXA COM RASGOS
SLOTTED U - SUPPORT FOUR 19 DEEP CHANNEL



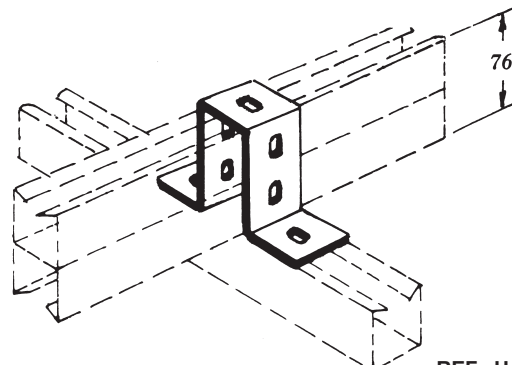
REF.: H.E.1.208

JUNÇÃO ANGULAR DUPLA HORIZONTAL
WIDE U - SUPPORT FOUR TWO 38 DEEP CHANNEL



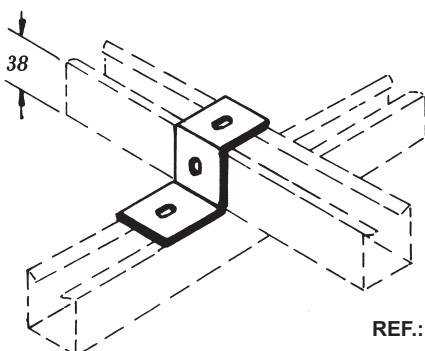
REF.: H.E.1.218

JUNÇÃO ANGULAR DUPLA VERTICAL
DEEP U - SUPPORT FOUR TWO 38 DEEP CHANNEL



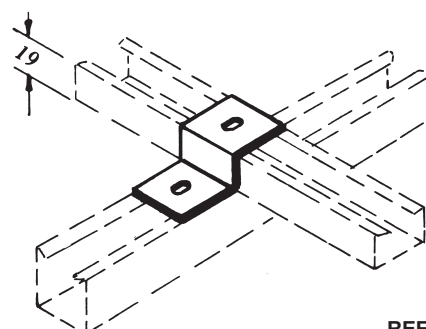
REF.: H.E.1.219

JUNÇÃO ANGULAR SIMPLES ALTA
Z - SUPPORT FOUR 38 DEEP CHANNEL



REF.: H.E.1.222

JUNÇÃO ANGULAR SIMPLES BAIXA
Z - SUPPORT FOUR 19 DEEP CHANNEL

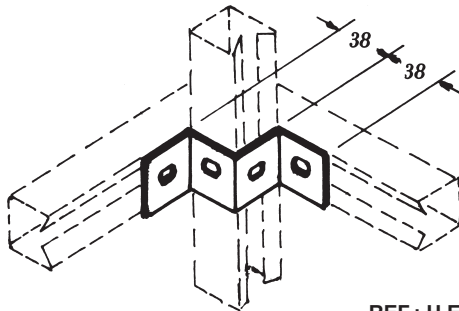


REF.: H.E.1.221



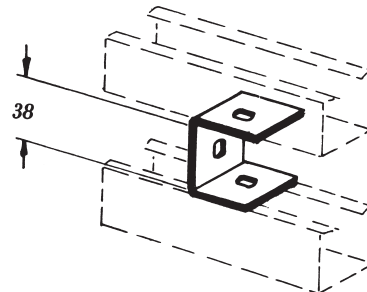
DISTANCIADORES E BASES DISTANCE PIECES AND LOWER BASES

DISTANCIADOR DE CANTO
CORNER DISTANCE PEICE



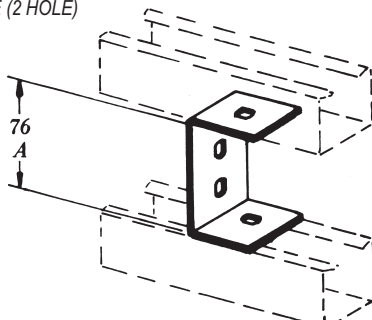
REF.: H.E.1.210

DISTANCIADOR SIMPLES (1 FURO)
SINGLE DISTANCE PEICE (1 HOLE)



REF.: H.E.1.225

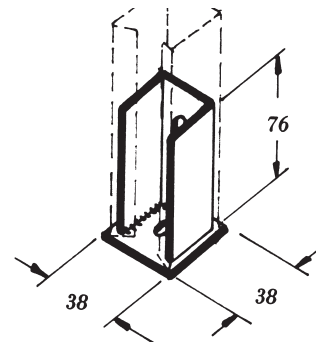
DISTANCIADOR duplo (2 FURO)
DOUBLE DISTANCE PEICE (2 HOLE)



REF.: H.E.1.226

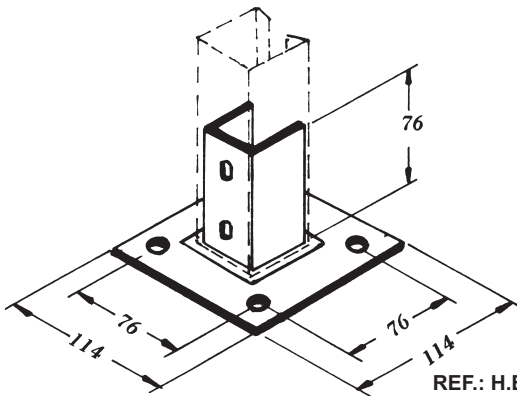
FUROS HOLES	A	REF.:H.E.
3	114	1.227
4	152	1.228
5	190	1.247
6	228	1.248
7	266	1.249

BASE SIMPLES COM 1 FURO - FIXAÇÃO INTERNA
ONE HOLE SINGLE LOWER BASE - INTERNAL FASTENING



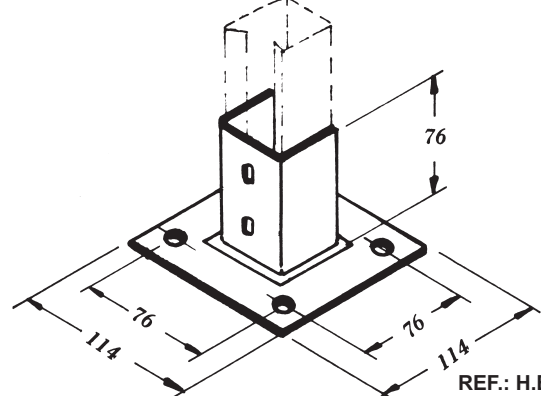
REF.: H.E.1.303

BASE COM 4 FUROS - FIXAÇÃO INTERNA
FOUR HOLE LOWER BASE - INTERNAL FASTENING



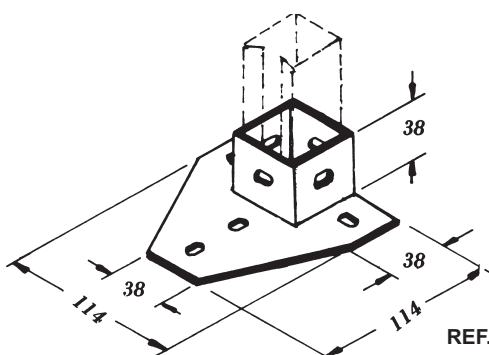
REF.: H.E.1.301

BASE COM 4 FURO - FIXAÇÃO EXTERNA
FOUR HOLE LOWER BASE - EXTERNAL FASTENING



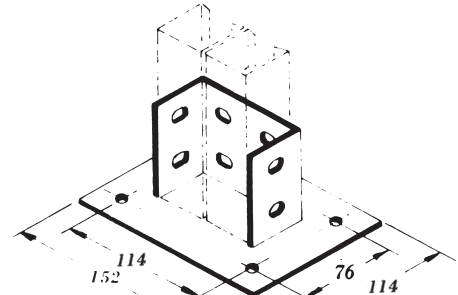
REF.: H.E.1.302

BASE COM 4 FURO REFORÇADA - FIXAÇÃO INTERNA
FOUR HOLE REINFORCED LOWER BASE - INTERNAL FASTENING



REF.: H.E.1.300

BASE REFORÇADA DUPLA - FIXAÇÃO EXTERNA
DOUBLE REINFORCED LOWER BASE - EXTERNAL FASTENING



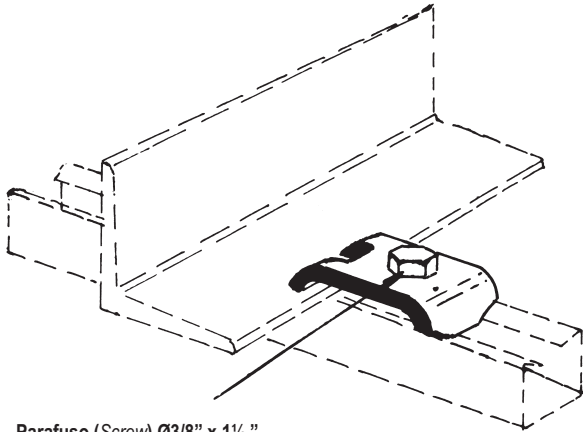
REF.: H.E.1.304

Para 2 perfilados 38x38 ou 1 de 38x76
Four two 38x38 channels or one 38x76

GRAPAS E FIXADORES

BEM CLAMPS AND SUPPORTS

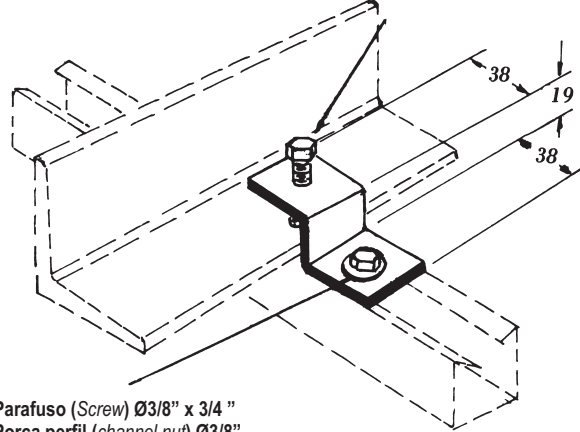
GRAPA FIXA (Para perfilados de 38x38 e 19x38)
SINGLE BEAM CLAMP (For 38x38 and 19x38 channels)



Parafuso (Screw) $\varnothing 3/8'' \times 1 1/2''$
 Porca perfil (channel nut) $\varnothing 3/8''$
 (não inclusos - not included)

REF.: H.E.35

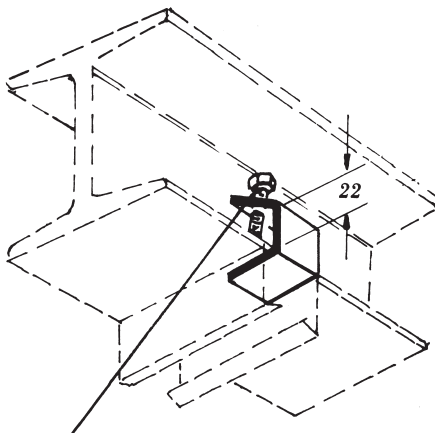
GRAPA COMPRESSORA (Para perfilados de 38x38 e 19x38)
BEAM CLAMP WITH SET SCREW (For 38x38 and 19x38 channels)



Parafuso (Screw) $\varnothing 3/8'' \times 3/4''$
 Porca perfil (channel nut) $\varnothing 3/8''$
 Arruela lisa (plain washer) $\varnothing 3/8''$
 (não inclusos - not included)

REF.: H.E.1.381

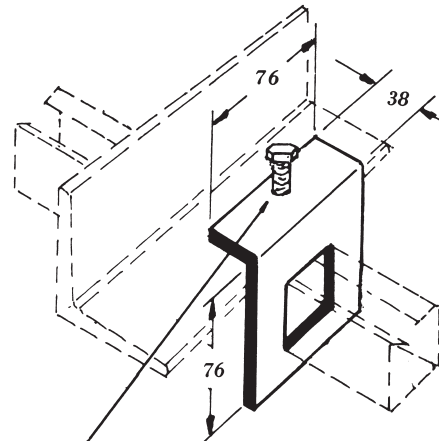
FIXADOR INTERNO TRANSVERSAL (Para perfilados de 38x38 e 19x38)
INTERNAL TRANSVERSE SUPPORT (For 38x38 and 19x38 channels)



Parafuso de Aperto (Set Screw) $\varnothing 3/8'' \times 1 1/4''$

REF.: H.E.1.382

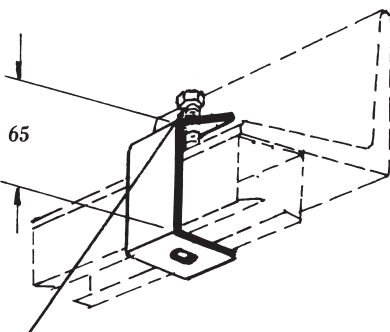
FIXADOR EXTERNO TRANSVERSAL (Para perfilados de 38x38)
EXTERNAL TRANSVERSE SUPPORT (For 38x38 channels only)



Parafuso de Aperto (Set Screw) $\varnothing 3/8'' \times 1 1/4''$

REF.: H.E.1.380

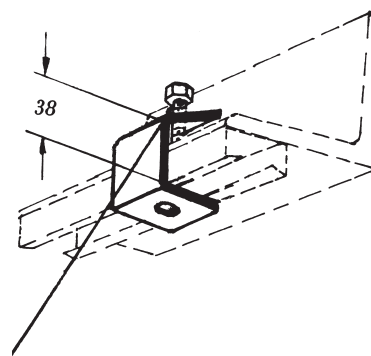
FIXADOR EXTERNO LONGITUDIAL (Para perfilados de 38x38)
EXTERNAL LONGITUDINAL SUPPORT (For 38x38 channels only)



Parafuso de Aperto (Set Screw) $\varnothing 3/8'' \times 1 1/4''$

REF.: H.E.1.384

FIXADOR EXTERNO LONGITUDIAL (Para perfilados de 19x38)
EXTERNAL LONGITUDINAL SUPPORT (For 19x38 channels only)

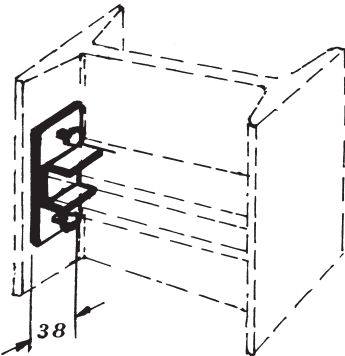


Parafuso de Aperto (Set Screw) $\varnothing 3/8'' \times 1 1/4''$

REF.: H.E.1.383

NOTA: Parafusos (Screws) $\varnothing 3/8'' \times 3/4'' = 9,53 \times 19,05$ mm Parafusos (Screws) $\varnothing 3/8'' \times 1'' = 9,53 \times 25,4$ mm Parafuso (Screw) $\varnothing 3/8'' \times 1 1/4'' = 9,53 \times 31,75$ mm
 NOTE: Parafusos (Screws) $\varnothing 3/8'' \times 1 1/2'' = 9,53 \times 38,01$ mm Porca perfil (channel nut) $\varnothing 3/8'' = 9,53$ mm Arruela lisa (plain washer) $\varnothing 3/8'' = 9,53$ mm

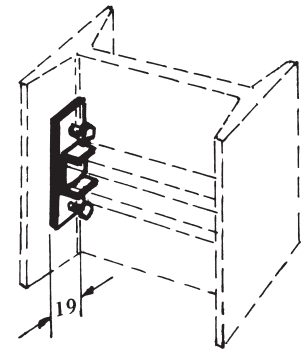
FIXADOR DE PRESSÃO
(Para perfilado de 38x38)
COLUMN MONT SUPPORT
(For 38x38 channel)



Parafusos (Screws) Ø3/8" x 1"

REF.: H.E.1.386

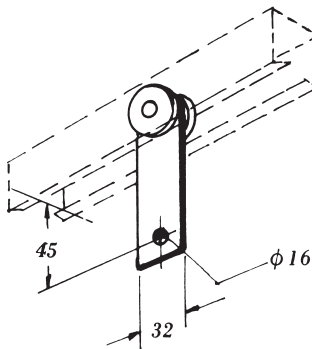
FIXADOR DE PRESSÃO
(Para perfilado de 19x38)
COLUMN MONT SUPPORT
(For 19x38 channel)



Parafusos (Screws) Ø3/8" x 1"

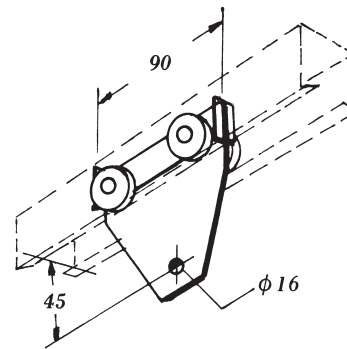
REF.: H.E.1.385

RODÍZIO SIMPLES (Para perfilado de 38x38)
SINGLE TROLLEY WHEEL (For 38x38 channel)



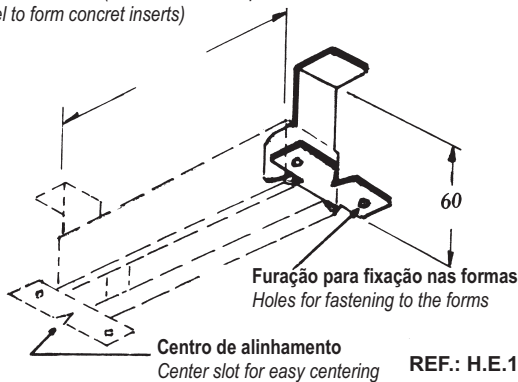
REF.: H.E.1.392

RODÍZIO DUPLO (Para perfilado de 38x38)
DOUBLE TROLLEY WHEEL (For 38x38 channel)



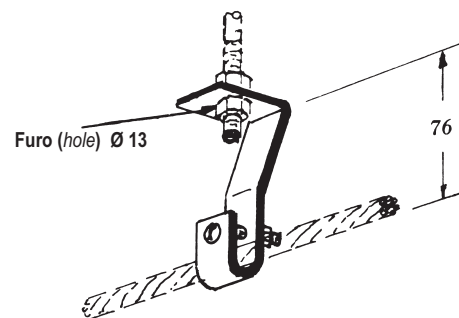
REF.: H.E.1.393

CHUMBADOR TAPÃO (Para aproveitamento de pedaços de perfilado de 38x38 para embutir em concreto)
END CAP ANCHOR (For use with short pieces of 38x38 channel to form concret inserts)



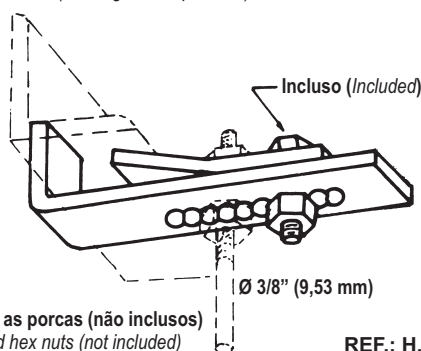
REF.: H.E.1.395

SUPORE P/ CABO DE AÇO (até 3/8)
FOUR HOLE LOWER BASE - EXTERNAL FASTENING



REF.: H.E.1.394

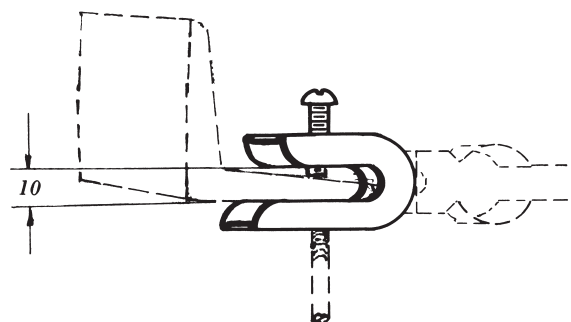
FIXADOR REGULÁVEL (Para cantoneiras até 2 1/2")
ADJUSTABLE CLAMP (For angle iron up to 2 1/2")



O vergalhão e as porcas (não inclusos)
Hanger rod and hex nuts (not included)

REF.: H.E.1.405

FIXADOR PEQUENO COM ROSCA DE Ø 1/4"
SMALL BEAM CLAMP WITH Ø 1/4" THREAD



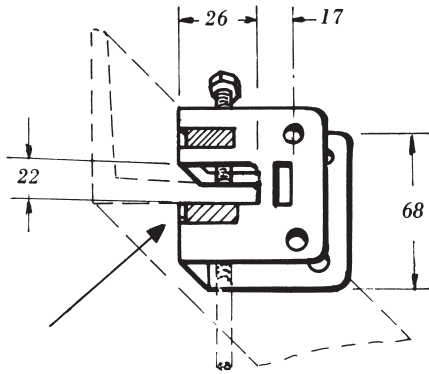
REF.: H.E.1.410

NOTA (NOTE) : Parafuso (Screw) Ø3/8" x 1" = 9,53 x 25,4 mm Ø 1/4" = 6,35 mm Ø 3/8" = 9,53 mm 2 1/2" = 63,50 mm



FIXADORES, BALANCINS E PRESILHAS BEAM CLAMPS, SWING CONNECTORS AND ANCHOR CLIPS

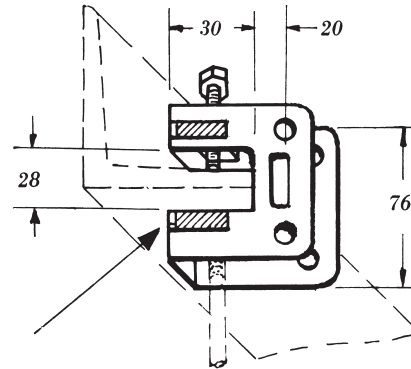
FIXADOR MÉDIO PARA VERGALHÃO DE Ø 3/8"
MEDIUM TYPE BEAM CLAMP FOR Ø 3/8" HANGER ROD



PORCA RETANGULAR
INFERIOR NÃO INCLUSO

REF.: H.E.1.407

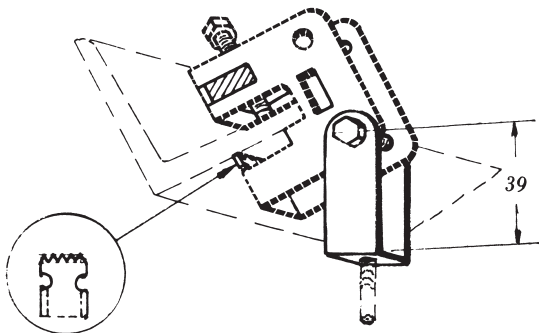
FIXADOR GRANDE PARA VERGALHÃO DE Ø 3/8" E Ø 1/2"
HEAVY TYPE BEAM CLAMP FOR Ø 3/8" AND Ø 1/2" HANGER ROD



PORCA RETANGULAR
INFERIOR NÃO INCLUSO

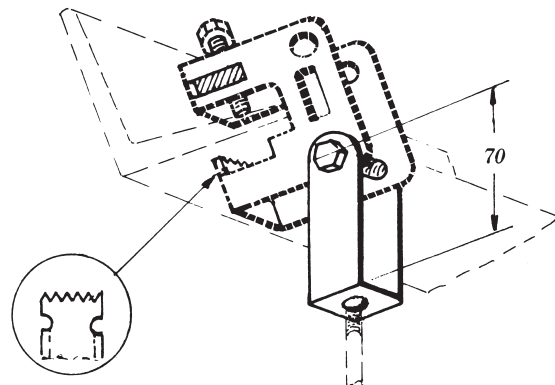
REF.: H.E.1.411

BALANCIM PARA FIXADOR MÉDIO
SWING CONNECTOR FOR MEDIUM TYPE BEAM CLAMP



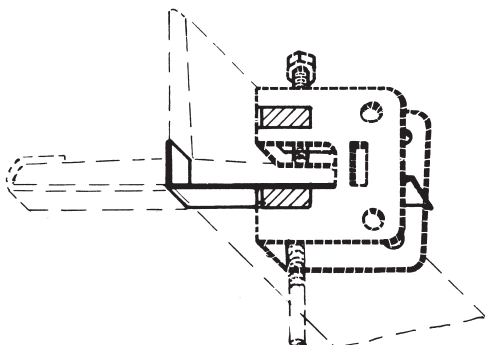
REF.: H.E.1.408

BALANCIM PARA FIXADOR GRANDE
SWING CONNECTOR FOR HEAVY TYPE BEAM CLAMP



REF.: H.E.1.412

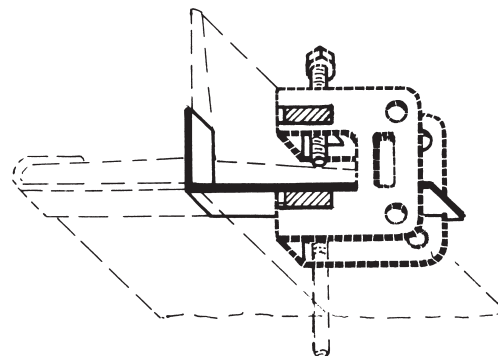
PRESILHA PARA FIXADOR MÉDIO
ANCHOR CLIP FOR MEDIUM TYPE BEAM CLAMP



Comprimento útil (useful length): 220 mm

REF.: H.E.1.406

PRESILHA PARA FIXADOR GRANDE
ANCHOR CLIP FOR HEAVY TYPE BEAM CLAMP



Comprimento útil (useful length): 220 mm

REF.: H.E.1.409

Ø3/8" = 9,53 mm Ø1/2" = 12,70 mm

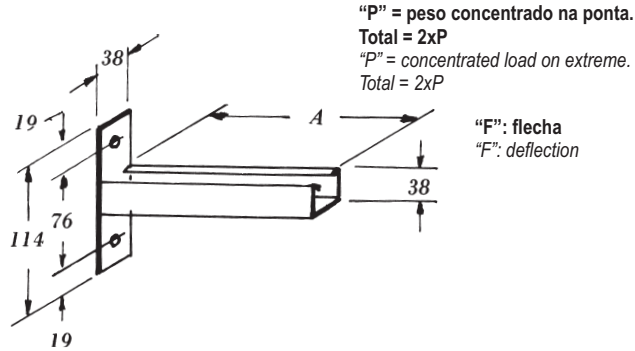


MÃOS FRANCESAS BRACKETS

MÃO FRANCESA SIMPLES

SINGLE BRACKETS

REF.: Ver tabela/See table



REF.: H.E.	A	P	F
45	300	60	1
46	400	45	1.7
47	500	35	2.5
48	600	30	3.7

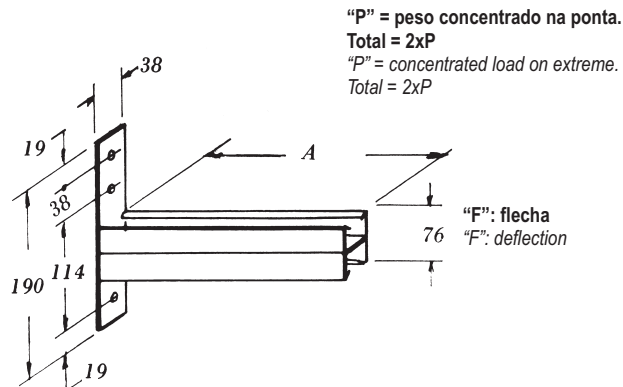
FIXAÇÃO (FASTENING)

2 x Ø 3/8" (9,53 mm)

MÃO FRANCESA DUPLA

DOUBLE BRACKET

REF.: Ver tabela/See table



REF.: H.E.	A	P	F
55	300	255	0,5
56	400	170	1
57	500	135	1.5
58	600	115	2.2
59	700	100	3
60	800	85	4
61	900	75	5

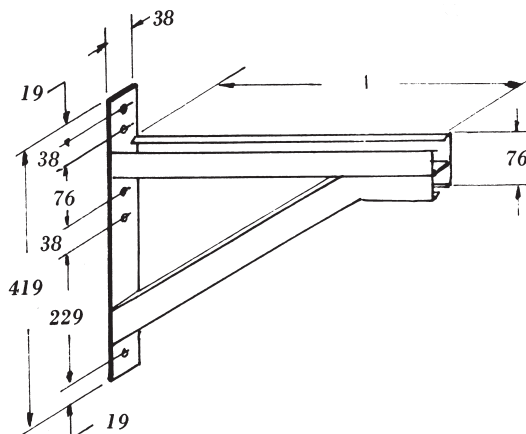
FIXAÇÃO (FASTENING)

3 x Ø 3/8" (9,53 mm)

MÃO FRANCESA REFORÇADA

REINFORCED BRACKETS

REF.: Ver tabela/See table



REF.: H.E.	A	P	Carga Admissível Allowable Load Kg
65	900	405	800
66	1150	320	650
67	1400	260	550
68	1650	220	480

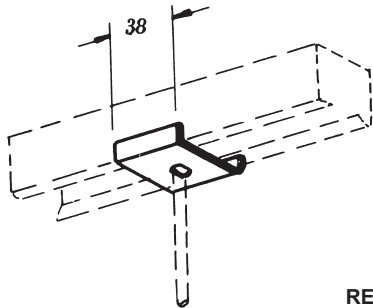
FIXAÇÃO (FASTENING)

5 x Ø 3/8" (9,53 mm)



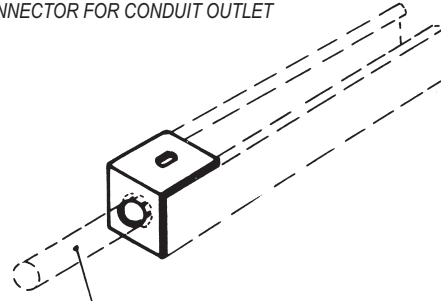
ADAPTADOR, DERIVAÇÕES E SUPORTES PARA LUMINÁRIAS SADDLE TYPE WASHER, CONDUIT CONNECTORS AND FIXTURE HANGUERS

ADAPTADOR DE SEGURANÇA
SADDLE TYPE WASHER



REF.: 1.229

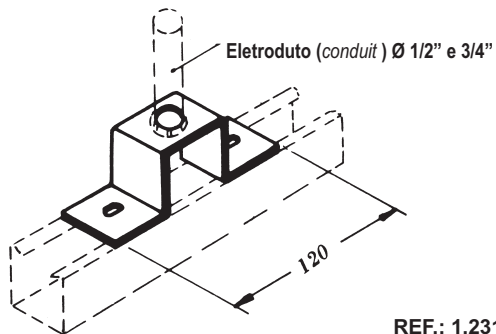
DERIVAÇÃO FINAL PARA ELETRODUTO
END CONNECTOR FOR CONDUIT OUTLET



Eletroduto (conduit) Ø 1/2" e 3/4"

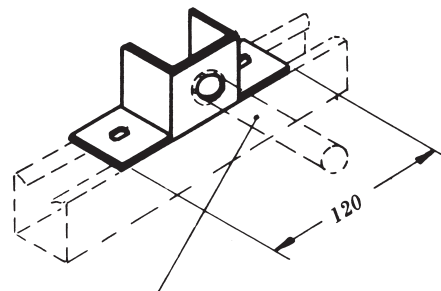
REF.: 1.230

DERIVAÇÃO SUPERIOR PARA ELETRODUTO
UPPER CONNECTOR FOR CONDUIT OUTLET



REF.: 1.231

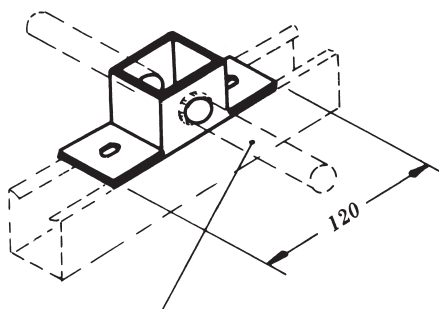
DERIVAÇÃO LATERAL PARA ELETRODUTO
SINGLE LATERAL CONNECTOR FOR CONDUIT OUTLET



Eletroduto (conduit) Ø 1/2" e 3/4"

REF.: 1.235

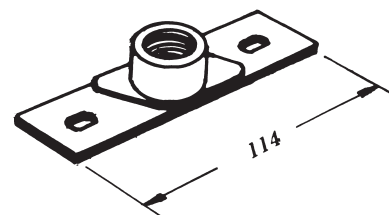
DERIVAÇÃO DUPLA LATERAL PARA ELETRODUTO
DOUBLE LATERAL CONNECTOR FOR CONDUIT OUTLET



Eletroduto (conduit) Ø 1/2" e 3/4"

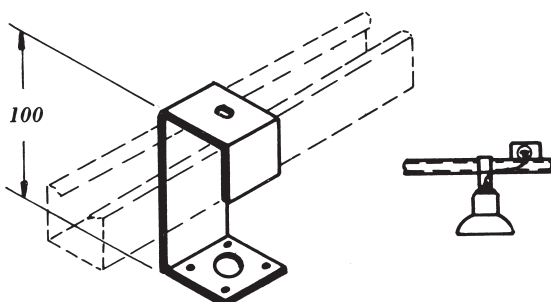
REF.: 1.239

DERIVAÇÃO SUPERIOR PARA ELETRODUTO COM LUVA DE Ø 3/4"
UPPER CONNECTOR WITH Ø 3/4" THREADED CONDUIT OUTLET



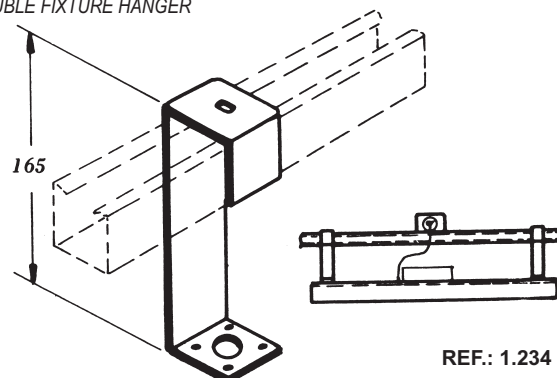
REF.: 1.232

SUPORTE CURTO PARA LUMINÁRIA
SINGLE FIXTURE HANGER



REF.: 1.233

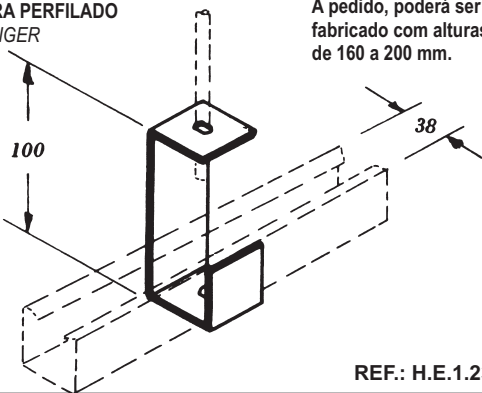
SUPORTE LONGO PARA LUMINÁRIA
DOUBLE FIXTURE HANGER



REF.: 1.234

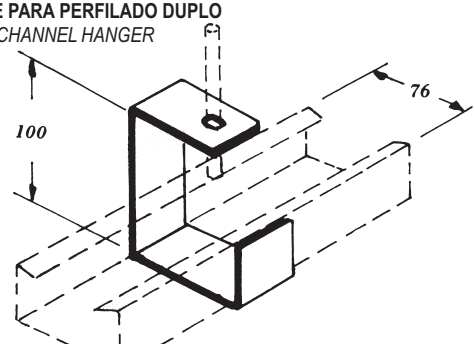
SUPORTES E EMENDAS PARA PERFILADOS CHANNELS HANGERS AND JOINERS

SUPORTE PARA PERFILADO
CHANNEL HANGER



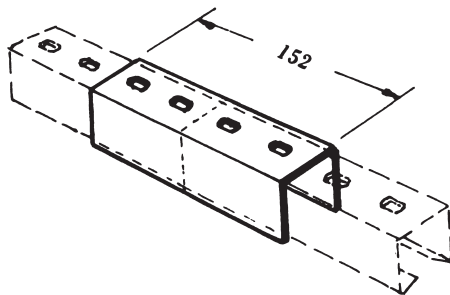
REF.: H.E.1.236

SUPORTE PARA PERFILADO DUPLO
DOUBLE CHANNEL HANGER



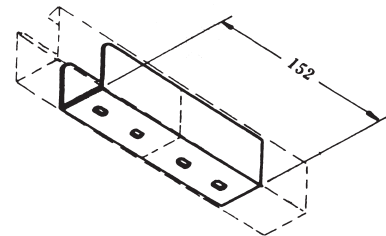
REF.: H.E.1.237

EMENDA EXTERNA
EXTERNAL CHANNEL JOINER



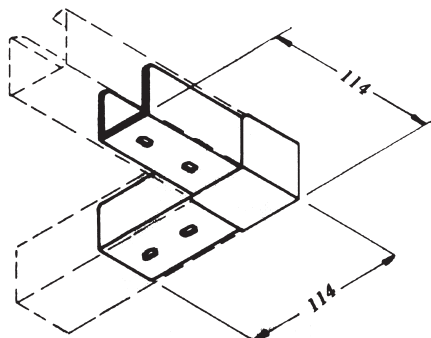
REF.: H.E.1.244

EMENDA INTERNA "I"
"I" INTERNAL CHANNEL JOINER



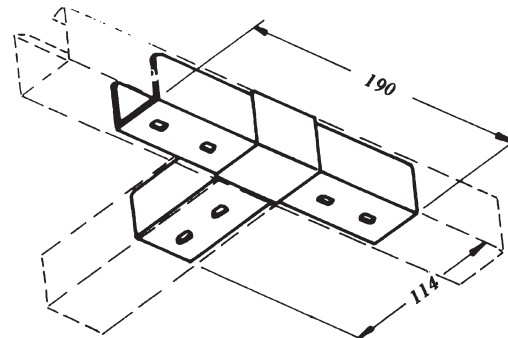
REF.: H.E.1.240

EMENDA INTERNA "L"
"L" INTERNAL CHANNEL JOINER



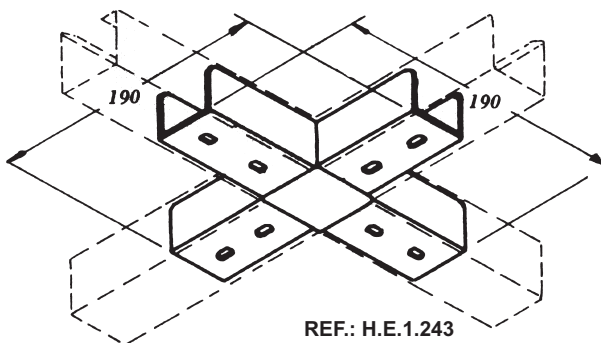
REF.: H.E.1.241
REF.: H.E.1.254 - PERFIL 38x76

EMENDA INTERNA "T"
"T" INTERNAL CHANNEL JOINER



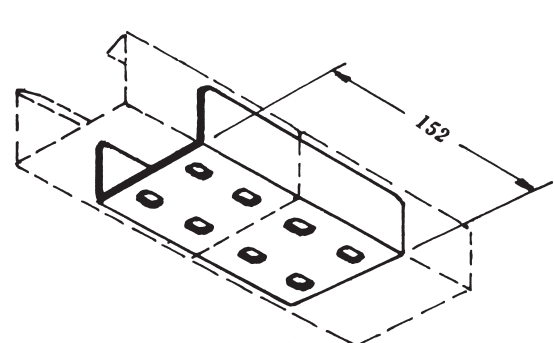
REF.: H.E.1.242
REF.: H.E.1.255 - PERFIL 38x76

EMENDA INTERNA "X"
"X" INTERNAL CHANNEL JOINER



REF.: H.E.1.243
REF.: H.E.1.256 - PERFIL 38x76

EMENDA INTERNA "I"
"I" INTERNAL CHANNEL JOINER

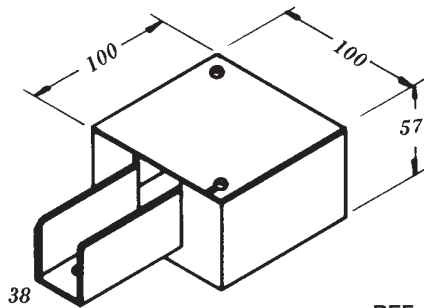


REF.: H.E.1.238



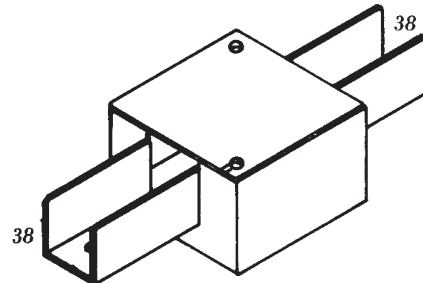
CAIXAS DE DERIVAÇÃO E BASE PARA PAINEL JUNCTION BOXES AND PANEL ADAPTER

CAIXA DE DERIVAÇÃO "I"
"I" JUNCTION BOX



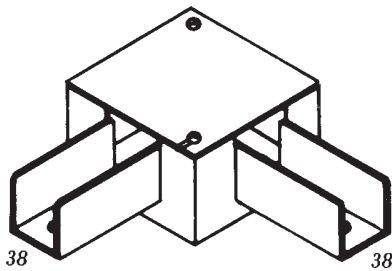
REF.: H.E. 2.004

CAIXA DE DERIVAÇÃO "C"
"C" JUNCTION BOX



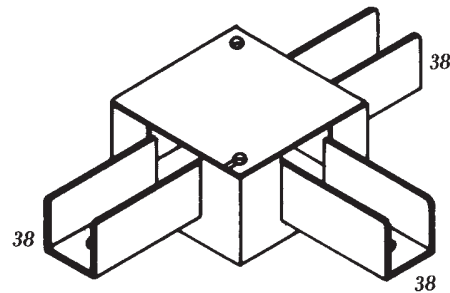
REF.: H.E.2.003

CAIXA DE DERIVAÇÃO "L"
"L" JUNCTION BOX



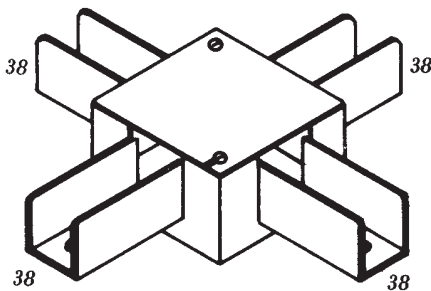
REF.: H.E.2.005

CAIXA DE DERIVAÇÃO "T"
"T" JUNCTION BOX



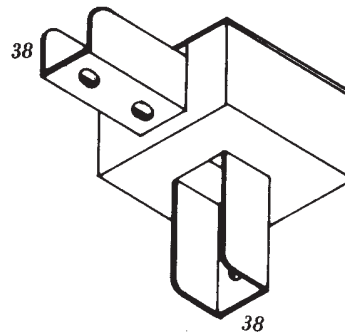
REF.: H.E.2.002

CAIXA DE DERIVAÇÃO "X"
"X" JUNCTION BOX



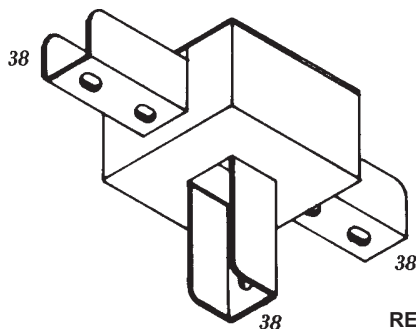
REF.: H.E.2.001

CAIXA DE DERIVAÇÃO "I" COM SAÍDA INFERIOR
"I" JUNCTION BOX WITH BOTTOM OUTLET



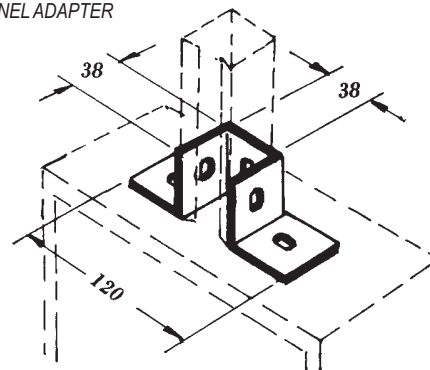
REF.: H.E.2.006

CAIXA DE DERIVAÇÃO "C" COM SAÍDA INFERIOR
"C" JUNCTION BOX WITH BOTTOM OUTLET



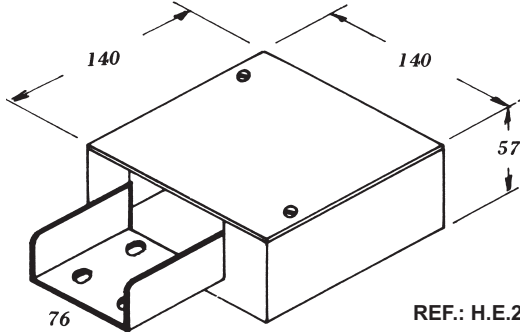
REF.: H.E.2.007

BASE PARA LIGAÇÃO EM PAINEL
PANEL ADAPTER



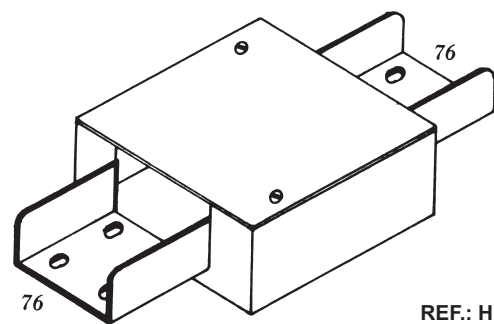
REF.: H.E.2.010

CAIXA DE DERIVAÇÃO "I" PARA PERFILADO DUPLO
"I" JUNCTION BOX FOR DOUBLE CHANNEL



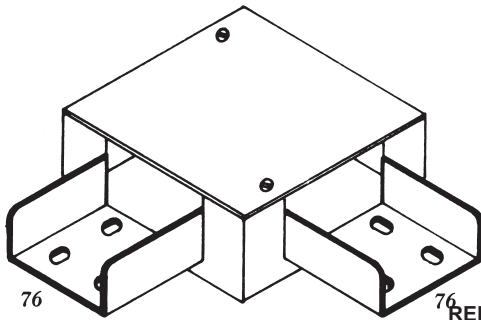
REF.: H.E.2.040

CAIXA DE DERIVAÇÃO "C" PARA PERFILADO DUPLO
"C" JUNCTION BOX FOR DOUBLE CHANNEL



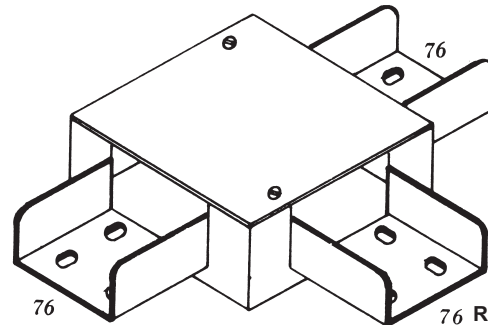
REF.: H.E.2.041

CAIXA DE DERIVAÇÃO "L" PARA PERFILADO DUPLO
"L" JUNCTION BOX FOR DOUBLE CHANNEL



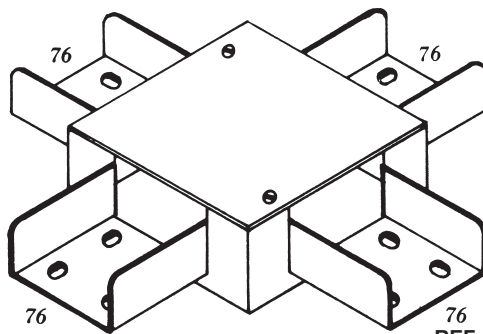
REF.: H.E.2.042

CAIXA DE DERIVAÇÃO "T" PARA PERFILADO DUPLO
"T" JUNCTION BOX FOR DOUBLE CHANNEL



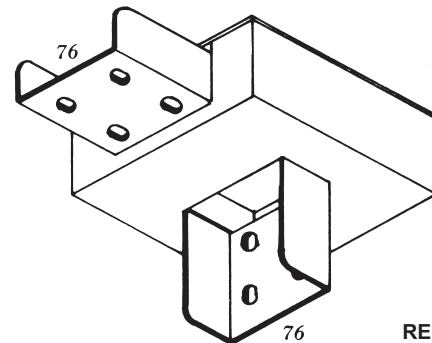
REF.: H.E.2.043

CAIXA DE DERIVAÇÃO "X" PARA PERFILADO DUPLO
"X" JUNCTION BOX FOR DOUBLE CHANNEL



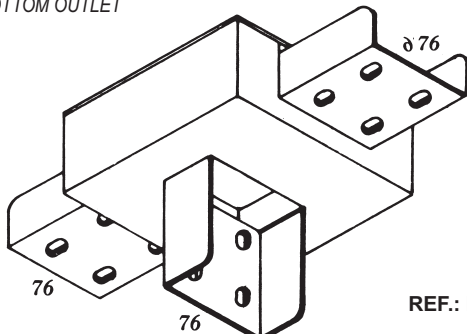
REF.: H.E.2.044

CAIXA DE DERIVAÇÃO "I" PARA PERFILADO DUPLO COM
1 SAÍDA INFERIOR
"I" JUNCTION BOX FOR DOUBLE CHANNEL WITH
ONE BOTTOM OUTLET



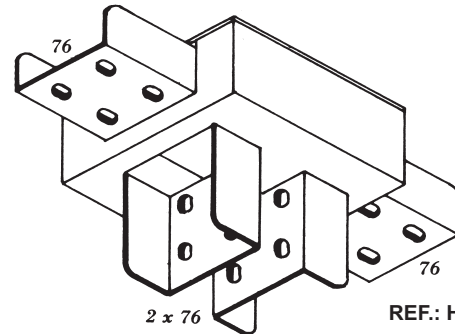
REF.: H.E.2.045

CAIXA DE DERIVAÇÃO "C" PARA PERFILADO DUPLO COM
1 SAÍDA INFERIOR
"C" JUNCTION BOX FOR DOUBLE CHANNEL WITH
ONE BOTTOM OUTLET



REF.: H.E.2.046

CAIXA DE DERIVAÇÃO "C" PARA PERFILADO DUPLO COM 2 SAÍDAS
INFERIORES
"C" JUNCTION BOX FOR DOUBLE CHANNEL WITH TWO BOTTOM
OUTLET

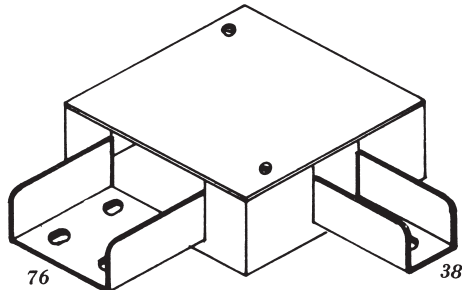


REF.: H.E.2.047



CAIXAS DE DERIVAÇÃO, REDUÇÃO E BASE PARA PAINEL JUNCTION BOXES, REDUCER AND PANEL ADAPTER

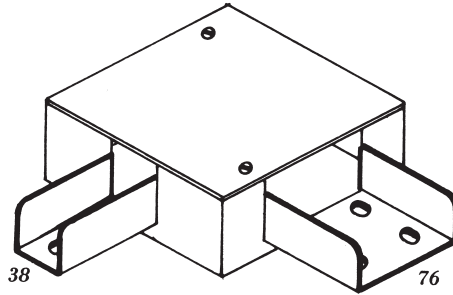
CAIXA DE DERIVAÇÃO "L" DIREITA PARA PERFILADOS DE 38 E 76
"L" RIGHT JUNCTION BOX FOR 38 AND 76 CHANNELS



140x140

REF.: 2.048

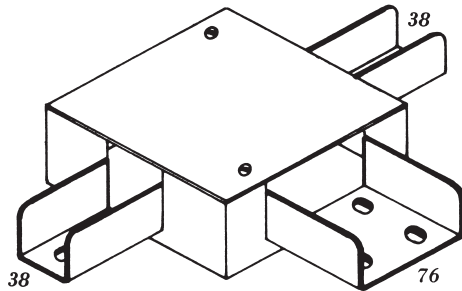
CAIXA DE DERIVAÇÃO "L" ESQUERDA PARA PERFILADOS DE 38 E 76
"L" LEFT JUNCTION BOX FOR 38 AND 76 CHANNELS



140x140

REF.: 2.049

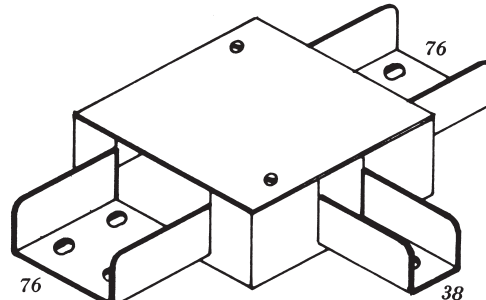
CAIXA DE DERIVAÇÃO "T" PARA 2 PERFILADOS DE 38 E 1 DE 76
"T" JUNCTION BOX FOR 2x38 AND 1x76 CHANNELS



140x140

REF.: 2.050

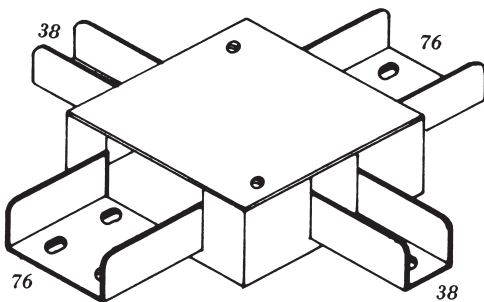
CAIXA DE DERIVAÇÃO "T" PARA 1 PERFILADO DE 38 E 2 DE 76
"T" JUNCTION BOX FOR 1x38 AND 2x76 CHANNELS



140x140

REF.: 2.051

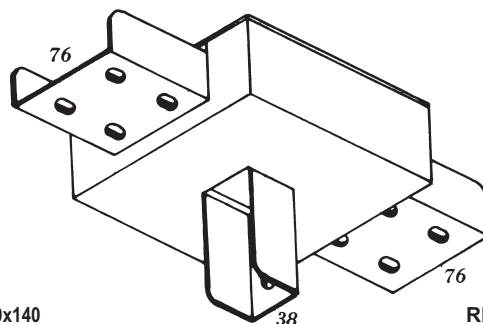
CAIXA DE DERIVAÇÃO "X" PARA 2 PERFILADOS DE 38 E 2 DE 76
"X" JUNCTION BOX FOR 2x38 AND 2x76 CHANNELS



140x140

REF.: 2.052

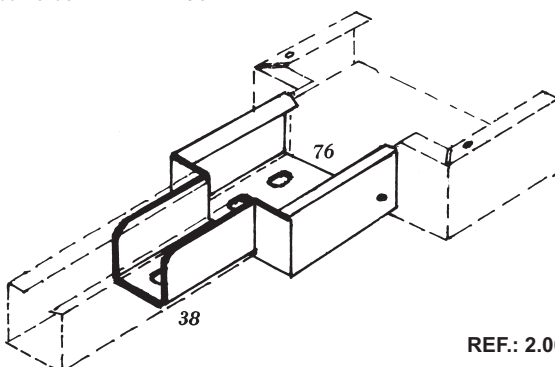
CAIXA DE DERIVAÇÃO "C" PARA 2 PERFILADOS DE 76 COM SAÍDA INFERIOR PARA 38
"C" JUNCTION BOX FOR 2x76 AND BOTTOM OUTLET FOR 38 CHANNELS



140x140

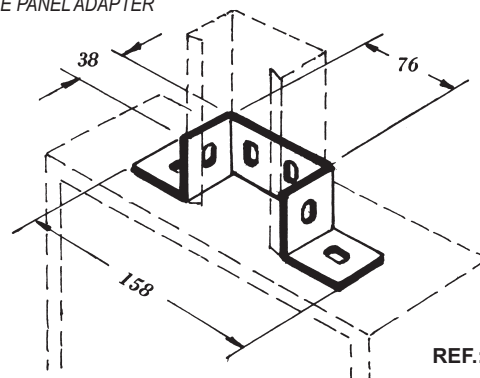
REF.: 2.053

REDUÇÃO DA CAIXA PARA PERFILADO - 76x38
76x38 BOX/CHANNEL REDUCER



REF.: 2.061

BASE DUPLA PARA LIGAÇÃO EM PAINEL
DOUBLE PANEL ADAPTER

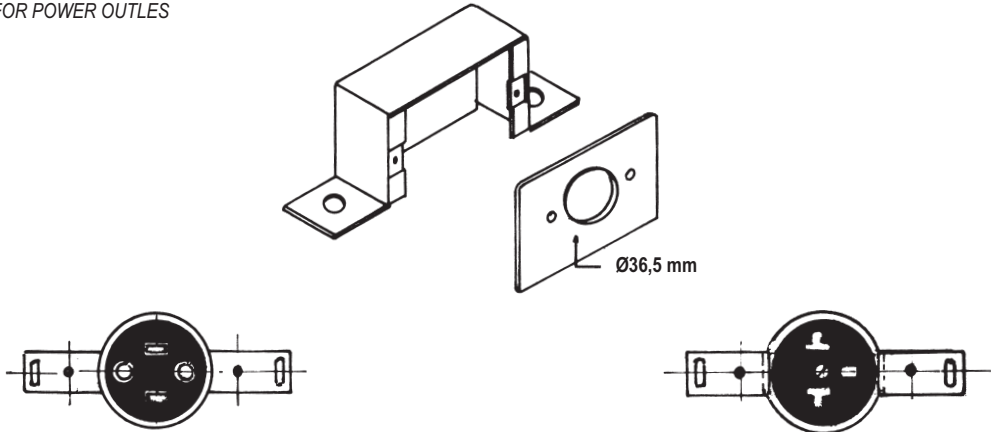


REF.: 2.060



CAIXA PARA TOMADAS FIXO PERFIL CHANNEL BOXES FOR POWER OUTLETS

CAIXA PARA TOMADA FIXO PERFIL
CHANNEL BOX FOR POWER OUTLETS

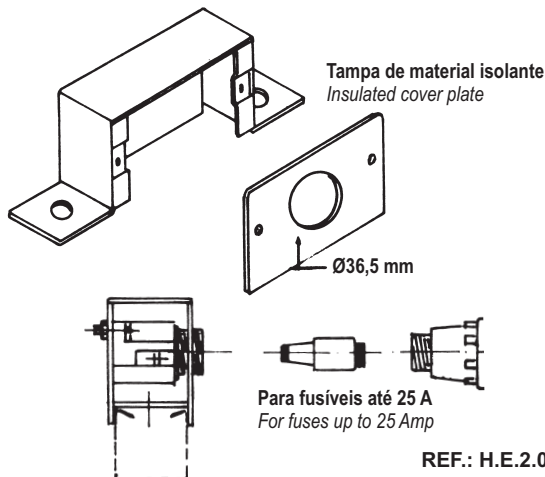


(REF.: H.E.2.031) Tomada universal (Standard single phase) 10 Amp/125/250V

(REF.: H.E.2.032) Tomada universal + terra (Single phase + grounding) 25 Amp/250V

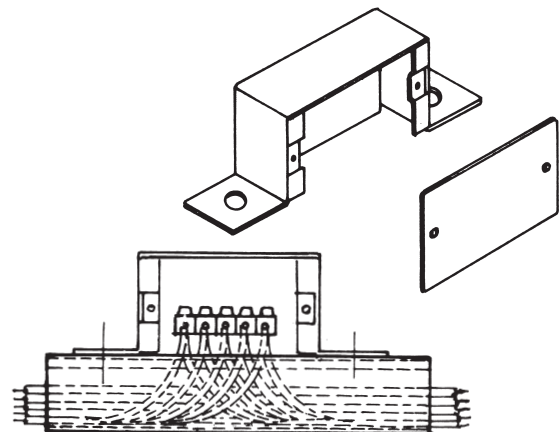
REF.: H.E.2.011

CAIXA PARA FUSÍVEIS FIXO PERFIL
CHANNEL BOX FOR FUSE FASTENNING



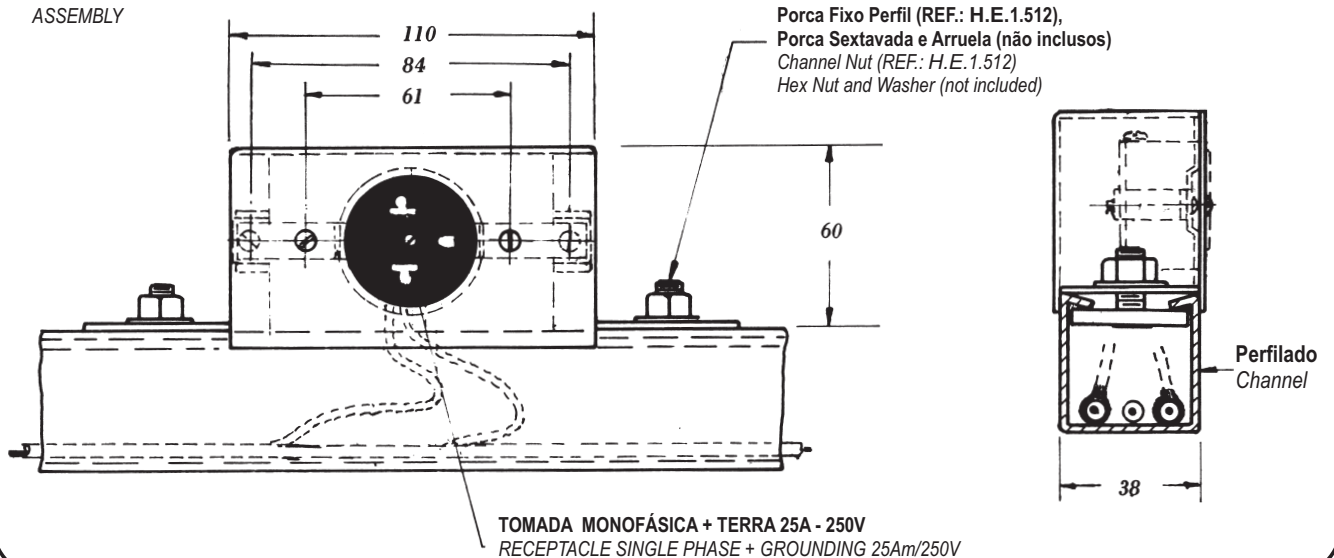
REF.: H.E.2.012

CAIXA PARA LIGAÇÃO FIXO PERFIL
CHANNEL BOX FOR CABLE COUPLING TERMINALS



REF.: H.E.2.013

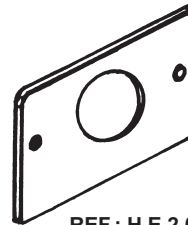
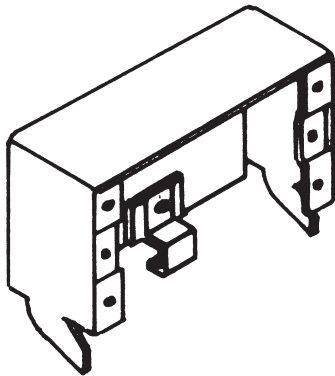
MONTAGEM
ASSEMBLY



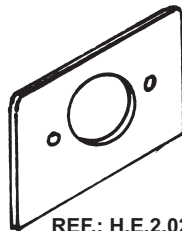


CAIXAS PARA TOMADAS FIXO PERFIL CHANNEL BOXES FOR POWER OUTLETS

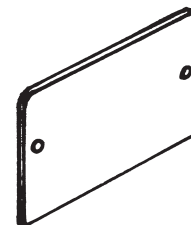
CAIXAS PARA TOMADAS FIXO PERFIL DE "ENCAIXE RÁPIDO"
CHANNEL BOXES FOR POWER OUTLETS - "QUICK FASTENING" TYPE



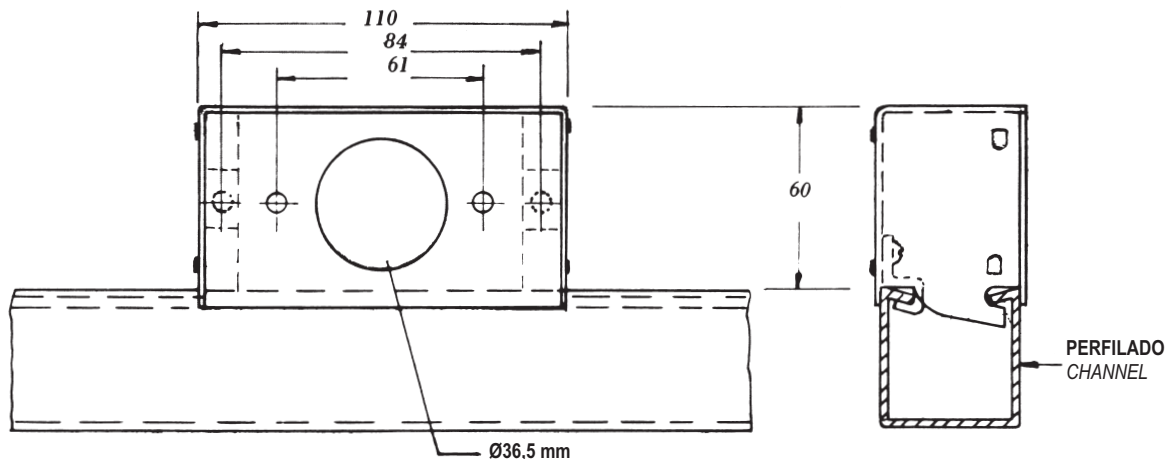
REF.: H.E.2.022
PARA FUSÍVEL
FOR FUSE FASTENING



REF.: H.E.2.021
PARA TOMADA UNIVERSAL
FOR STANDARD RECEPTACLES



REF.: H.E.2.023
PARA LIGAÇÃO
FOR CABLE COUPLING TERMINALS



NOTA: A diferença entre as caixas acima e as da página anterior, está no sistema de construção e na fixação sobre o perfilado; as caixas tipo "ENCAIXE RÁPIDO", não necessitam de porcas, parafusos, etc, para a sua fixação: são simplesmente encaixadas sobre o perfil, facilitando a sua instalação. O remanejamento das luminárias, também fica bastante facilitado. Este fatores resultam num menor custo na instalação inicial e no de manutenção.

Os números de referência, são apenas para as caixas e as respectivas tampas; para as tomadas, mencionadas à parte o tipo desejado.

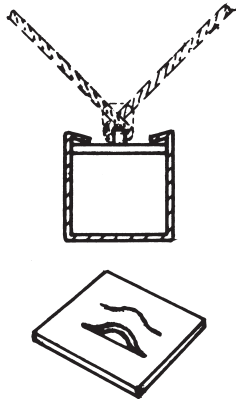
NOTE: The difference between the above boxes and those of the previous sheet implies on the construction system and the fastening on the channels. "Quick fastening" type boxes do not require nuts, screws, etc. for fastening; they are simply fastened on the channel facilitating their installation. Fixture relocation is easy as well. Such factors result in lower cost in the initial installation and maintenance.

Reference number are for the boxes and pertinent covers only; for receptables, mention separately the desired type.



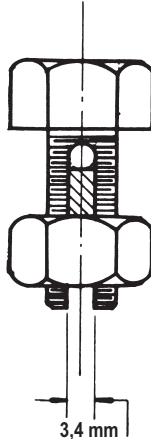
PRESILHA, CONECTOR DE PRESSÃO, PARAFUSO OLHAL, VERGALHÕES, BUCHA E PARAFUSOS HANGER CLAMP, BINDIG SCREW, EYELET SCREW, RODS, CINCH ANCHOR AND SCREWS

PRESILHA PARA SUSPENSÃO EM CABO DE AÇO Ø 1/8"
HANGER CLAMP FOR STEEL CABLE Ø 1/8"



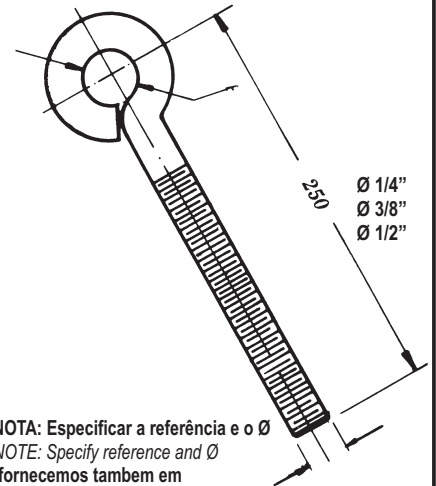
REF.: H.E.1.414

CONECTOR DE PRESSÃO PARA CABO DE AÇO Ø 1/8"
BINDING SCREW FOR STEEL CABLE Ø 1/8"



REF.: H.E.1.413

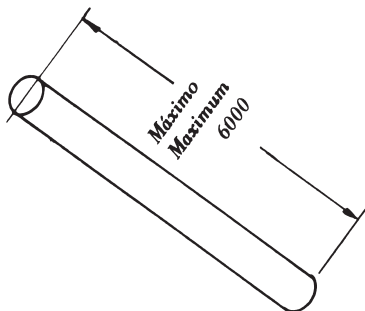
PARAFUSO OLHAL EYELET SCREW



NOTA: Especificar a referência e o Ø
NOTE: Specify reference and Ø (fornecemos também em outros comprimentos)

REF.: H.E.2.415

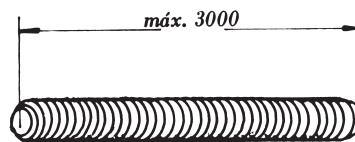
VERGALHÃO LISO (Ø 1/4" - Ø 3/8" - Ø 1/2")
PLAIN ROD (Ø 1/4" - Ø 3/8" - Ø 1/2")



NOTA: Especificar a referência, o comprimento e o Ø
NOTE: Specify reference, length and Ø

REF.: H.E.1.432

VERGALHÃO COM ROSCA TOTAL (Ø 1/4" - Ø 3/8" - Ø 1/2")
CONTINUOUS THREADED ROD (Ø 1/4" - Ø 3/8" - Ø 1/2")

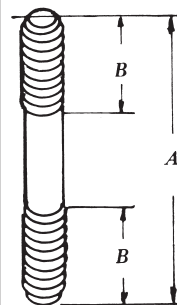


NOTA: Especificar a referência e o Ø
NOTE: Specify reference and Ø

REF.: H.E.1.431

VERGALHÃO COM ROSCA NAS PONTAS (Ø 1/4" - Ø 3/8" - Ø 1/2")
RODS WITH THREADS AT ENDS (Ø 1/4" - Ø 3/8" - Ø 1/2")

REF.: Ver tabela/See table



NOTA: Especificar a referência e o Ø
NOTE: Specify reference and Ø

REF.:H.E.	A	B
1416	100	40
1417	200	40
1418	300	100
1419	400	100
1420	500	100
1421	600	100
1422	700	100
1423	800	100
1424	900	100
1425	1000	100
1426	1100	100
1427	1200	100

BUCHA DE NYLON NYLON CINCH ANCHOR FOR CONCRETE INSERT

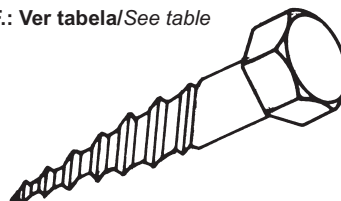
REF.: Ver tabela/See table



REF.:H.E.	TIPO TYPE	Ø	BROCA BORING BIT Ø mm
2711	S-6	1/4"	6
2712	S-8	5/16"	8
2713	S-10	3/8"	10
2714	S-12	1/2"	12

PARAFUSO CABEÇA SEXTAVADA ROSCA SOBERBA HEX HEAD SCREW WITH CONICAL THREAD

REF.: Ver tabela/See table



REF.: H.E.	TAMANHO - SIZE		PARA BUCHAS FOR NYLON CINCH ANCHOR
	POLEGADA INCH	MM	
2704	1/4"x1 3/4"	6,35x44,95	S-8 e S-10
2707	5/16"x2"	7,94x50,80	S-10
2708	3/8"x2 1/2"	9,52x63,50	S-12

PARAFUSO CABEÇA REDONDA ROSCA SOBERBA ROUND HEAD SCREW WITH CONICAL THREAD

REF.: Ver tabela/See table



REF.: H.E.	TAMANHO - SIZE		PARA BUCHAS FOR NYLON CINCH ANCHOR
	POLEGADA INCH	MM	
2700	10x1 1/4"	10x31,75	S-6
2701	10x1 3/4"	10x44,45	S-6 e S-8
2702	12x1 3/4"	12x44,45	S-8
2703	14x2"	14x50,80	S-10

Ø 1/8" = 3,18 mm Ø 1/4" = 6,35 mm Ø 3/8" = 9,53 mm Ø 1/2" = 12,70 mm

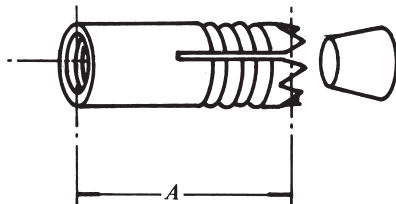


CHUMBADORES

CINCH ANCHORS AND ANCHOR BOLT FOR CONCRETE INSERTS

CHUMBADOR "UR"
COM ROSCA INTERNA
 IRON CINCH ANCHOR FOR CONCRETE INSERT -
 "UR" TYPE WITH INTERNAL THREAD

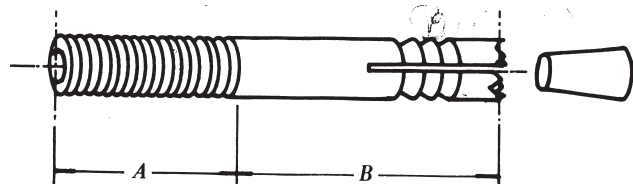
REF.: Ver tabela/See table



REF.: H.E.	Ø da Rosca Thread Ø		A	Comprimento da rosca Thread Length	BROCA BORING BIT Ø MM
	POLEGADA INCH	MM			
2.721	1/4"	6,35	35	12	11
2.722	3/8"	9,53	40	18	14
2.723	1/2"	12,70	52	20	18

CHUMBADOR "URX" COM ROSCA EXTERNA
 IRON CINCH ANCHOR FOR CONCRETE INSERT -
 "URX" TYPE WITH EXTERNAL THREAD

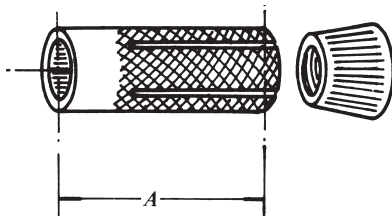
REF.: Ver tabela/See table



REF.: H.E.	Ø da Rosca Thread Ø		B	A	BROCA BORING BIT Ø MM
	POLEGADA INCH	MM			
2.731	3/8"	9,53	30	45	9,5
2.732	1/2"	12,70	35	55	12,7

CHUMBADOR "DP"
COM ROSCA INTERNA
 IRON CINCH ANCHOR FOR CONCRETE INSERT -
 "CB" TYPE WITH INTERNAL THREAD

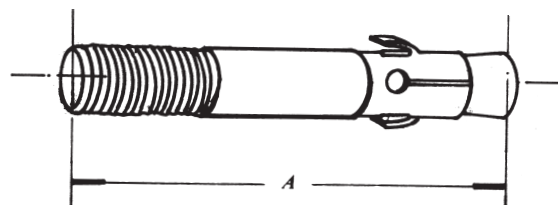
REF.: Ver tabela/See table



REF.: H.E.	Ø da Rosca Thread Ø		A	BROCA BORING BIT Ø MM	Parafuso Recomendado Recommended Screw	
	POLEGADA INCH	MM			POLEGADA INCH	MM
2.741	1/4"	6,35	35	10	1/4" x 1 1/2"	6,35 x 38,1
2.742	3/8"	9,53	40	14	3/8" x 2"	9,53 x 50,8
2.743	1/2"	12,70	50	19	1/2" x 2 1/2"	12,7 x 63,5

CHUMBADOR "TB" COM ROSCA EXTERNA
 IRON CINCH ANCHOR FOR CONCRETE INSERT -
 "PB" TYPE WITH EXTERNAL THREAD

REF.: Ver tabela/See table



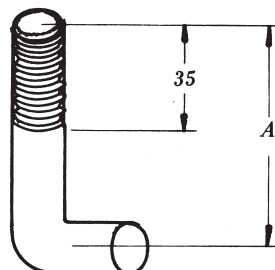
REF.: H.E.	Ø da Rosca Thread Ø		A	BROCA BORING BIT Ø MM
	POLEGADA INCH	MM		
2.751	1/4"	6,35	57	6,4
2.752	3/8"	9,53	76	9,5
2.753	1/2"	12,70	101	12,7

CHUMBADOR SIMPLES
 SINGLE ANCHOR BOLT

REF.: H.E.2.715

Fornecemos outros comprimentos sob consulta
 Others dimensions under consultation

NOTA: Especificar a referência e o Ø
 NOTE: Specify reference and Ø

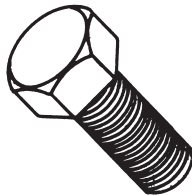


A	DIÂMETRO DIAMETER	
	POLEGADA INCH	MM
100	1/4"	6,35
125	3/8"	9,53
150	1/2"	12,70

PARAFUSOS, PORCAS E ARRUELAS SCREWS, NUTS AND WASHERS

PARAFUSO CABEÇA SEXTAVADA HEX SCREW

REF.: Ver tabela/See table



COMPRIMENTO LENGTH		Ø 1/4" (6,35 mm)	Ø 3/8" (9,53 mm)	Ø 1/2" (12,7 mm)
POLEGADA INCH	MM	REF.: H.E.	REF.: H.E.	REF.: H.E.
1/2"	12,70	2600	2611	-
5/8"	15,87	2601	2612	-
3/4"	19,05	2602	2613	2622
7/8"	22,22	2603	2614	2623
1"	25,40	2604	2615	2624
1 1/4"	31,75	2605	2616	2625
1 1/2"	38,10	2606	2617	2626
1 3/4"	44,45	2607	2618	2627
2"	50,80	2608	2619	2628

PARAFUSO CABEÇA REDONDA ROUND HEAD SCREW

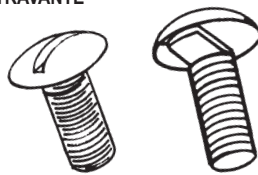
REF.: Ver tabela/See table



COMPRIMENTO LENGTH		Ø 5/32" (3,96 mm)	Ø 3/16" (4,76 mm)	Ø 1/4" (6,35 mm)
POLEGADA INCH	MM	REF.: H.E.	REF.: H.E.	REF.: H.E.
1/4"	6,35	2641	2651	-
3/8"	9,53	2642	2652	2671
1/2"	12,70	2643	2653	2672
5/8"	15,87	2644	2654	2673
3/4"	19,05	2645	2655	2674
7/8"	22,22	2646	2656	2675
1"	25,40	2647	2657	2676
1 1/4"	31,75	-	2658	2677
1 1/2"	38,10	-	2659	2678
1 3/4"	44,45	-	2660	2679
2"	50,80	-	2661	2680

PARAFUSO CABEÇA LENTILHA AUTO TRAVANTE "LENTIL" TYPE HEAD SCREW

REF.: Ver tabela/See table



REF. H.E.	DIÂMETRO DIAMETER		COMPRIMENTO LENGTH		
	POLEGADA INCH	MM	POLEGADA INCH	MM	
C/ TRAVA	C/ FENDA				
2685	2681	1/4"	6,35	1/2"	12,70
2683	2686	5/16"	7,94	3/4"	19,05
2684	2682	3/8"	9,53	3/4"	19,05

PORCA SEXTAVADA HEX NUT

REF.: Ver tabela/See table



REF. H.E.	DIÂMETRO DA ROSCA THREAD DIAMETER	
	POLEGADA INCH	MM
2500	5/32"	3,96
2501	3/16"	4,76
2502	1/4"	6,35
2505	5/16"	7,96
2503	3/8"	9,53
2509	1/2"	12,70

ARRUELA LISA PLAIN WASHER

REF.: Ver tabela/See table



REF. H.E.	DIÂMETRO INTERNO INTERNAL DIAMETER	
	POLEGADA INCH	MM
2520	5/32"	3,96
2521	3/16"	4,76
2522	1/4"	6,35
2525	5/16"	7,94
2523	3/8"	9,53
2524	1/2"	12,70

ARRUELA DE PRESSÃO LOCK WASHER

REF.: Ver tabela/See table



REF. H.E.	DIÂMETRO INTERNO INTERNAL DIAMETER	
	POLEGADA INCH	MM
2540	5/32"	3,96
2541	3/16"	4,76
2542	1/4"	6,35
2545	5/16"	7,94
2543	3/8"	9,53
2544	1/2"	12,70

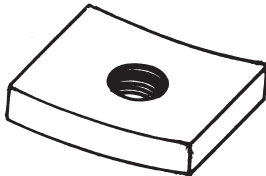
Ø 1/8" = 3,18 mm Ø 1/4" = 6,35 mm Ø 3/8" = 9,53 mm Ø 1/2" = 12,70 mm



PORCA PERFIL CHANNEL NUTS

PORCA PERFIL SEM MOLA CHANNEL NUT

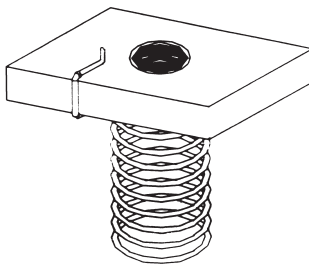
REF.: Ver tabela/See table



REF. H.E.	DIMENSÕES - DIMENSIONS		
	DIÂMETRO DA ROSCA THREAD DIAMETER		ESPESSURA THICKNESS MM
	POLEGADA INCH	MM	
1500	5/32"	3,96	3
1501	3/16"	4,75	3
1502	1/4"	6,35	3
1503	3/8"	9,53	6,3
1504	1/2"	12,70	6,3

PORCA PERFIL COM MOLA CHANNEL SPRING NUT

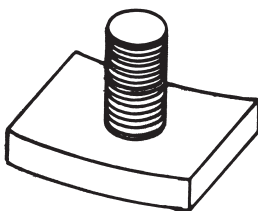
REF.: Ver tabela/See table



REF. H.E.	DIMENSÕES - DIMENSIONS		
	DIÂMETRO DA ROSCA THREAD DIAMETER		ESPESSURA THICKNESS MM
	POLEGADA INCH	MM	
1505	5/32"	3,96	3
1506	3/16"	4,75	3
1507	1/4"	6,35	3
1508	3/8"	9,53	6,3
1509	1/2"	12,70	6,3

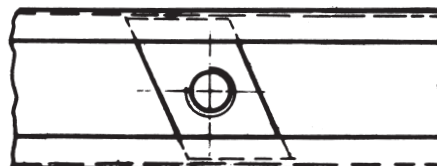
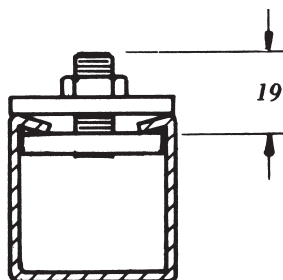
PORCA PERFIL COM PINO CHANNEL STUD NUT

REF.: Ver tabela/See table



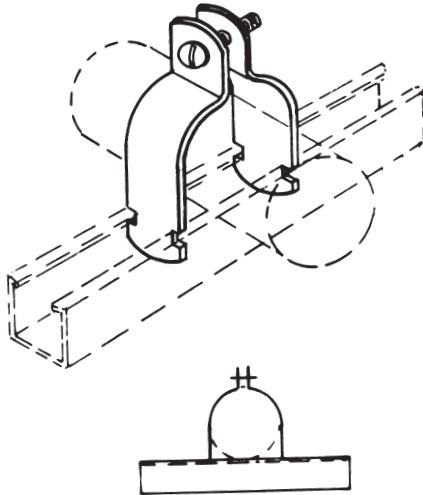
REF. H.E.	DIMENSÕES - DIMENSIONS		
	DIÂMETRO DA ROSCA THREAD DIAMETER		ESPESSURA THICKNESS MM
	POLEGADA INCH	MM	
1510	5/32"	3,96	3
1511	3/16"	4,75	3
1512	1/4"	6,35	3
1513	3/8"	9,53	6,3
1514	1/2"	12,70	6,3

ILUSTRAÇÃO DE MONTAGEM DA PORCA PERFIL COM PINO ASSEMBLY ILLUSTRATION OF CHANNEL STUD NUT



BRAÇADEIRAS PERFIL "CHANNEL" TYPE STRAP

REF.: Ver tabela/See table

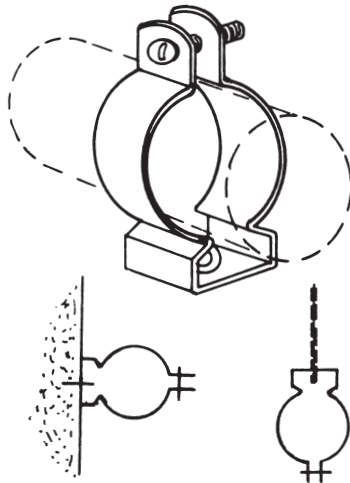


* Parafuso e porca inclusos
* Screw and nut included

REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER	CARGA ESPESSURA DA CHAPA STEEL PLATE THICKNESS M.S.G.	PARAFUSO RECOMENDADO RECOMMENDED SCREW
1.700	3/8" (16,8 mm)	18	3/16" x 3/4" (4,76 x 19,05 mm)
1.701	1/2" (21,3 mm)	18	3/16" x 3/4" (4,76 x 19,05 mm)
1.702	3/4" (26,7 mm)	18	3/16" x 3/4" (4,76 x 19,05 mm)
1.703	1" (33,5mm)	18	3/16" x 3/4" (4,76 x 19,05 mm)
1.704	1 1/4" (42,3 mm)	18	1/4" x 1" (6,35 x 25,4 mm)
1.705	1 1/2" (48,3 mm)	18	1/4" x 1" (6,35 x 25,4 mm)
1.706	2" (60,3 mm)	16	1/4" x 1" (6,35 x 25,4 mm)
1.707	2 1/2" (75,5 mm)	16	1/4" x 1 1/2" (6,35 x 38,10 mm)
1.708	3" (88,3 mm)	16	1/4" x 1 1/2" (6,35 x 38,10 mm)
1.709	3 1/2" (101,6 mm)	14	1/4" x 1 1/2" (6,35 x 38,10 mm)
1.710	4" (114,3 mm)	14	1/4" x 1 1/2" (6,35 x 38,10 mm)

BRAÇADEIRA CIRCULAR "CIRCULAR" TYPE HANGER

REF.: Ver tabela/See table

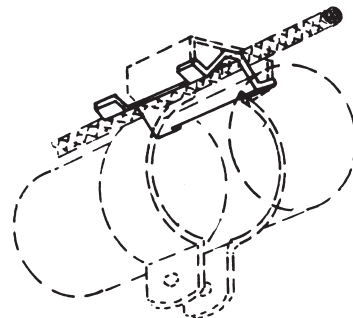


* Parafuso e porca inclusos
* Screw and nut included

REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER	CARGA ESPESSURA DA CHAPA STEEL PLATE THICKNESS M.S.G.	PARAFUSO RECOMENDADO RECOMMENDED SCREW
1.800	3/8" (16,8 mm)	18	1/4" x 3/4" (6,35 x 19,05 mm)
1.801	1/2" (21,3 mm)	18	1/4" x 3/4" (6,35 x 19,05 mm)
1.802	3/4" (26,7 mm)	18	1/4" x 3/4" (6,35 x 19,05 mm)
1.803	1" (33,5mm)	18	1/4" x 3/4" (6,35 x 19,05 mm)
1.804	1 1/4" (42,3 mm)	18	1/4" x 3/4" (6,35 x 19,05 mm)
1.805	1 1/2" (48,3 mm)	16	1/4" x 1" (6,35 x 25,4 mm)
1.806	2" (60,3 mm)	16	1/4" x 1" (6,35 x 25,4 mm)
1.807	2 1/2" (75,5 mm)	14	1/4" x 1" (6,35 x 25,4 mm)
1.808	3" (88,3 mm)	14	1/4" x 1" (6,35 x 25,4 mm)
1.809	4" (114,3 mm)	14	1/4" x 1" (6,35 x 25,4 mm)

GUIA PARA CABO DE AÇO - Até Ø 3/8" (9,53 mm) STEEL CABLE GUIDE - Up to Ø 3/8" (9,53 mm)

REF.: Ver tabela/See table



Para uso em Braçadeira Circular
For use with "Circular" Type Hanger

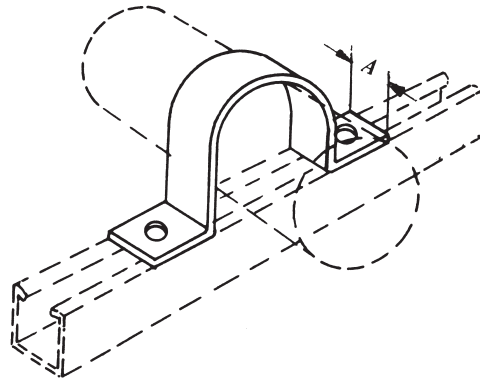
REF. H.E.	Para Braçadeiras For Hangers
1.810	REF. 1.800 - 1.802
1.811	REF. 1.803 - 1.808



BRAÇADEIRA PARA TUBOS E CABOS PIPING AND CABLE SUPPORTS

BRAÇADEIRA OMEGA "OMEGA" TYPE STRAP

REF.: Ver tabela/See table



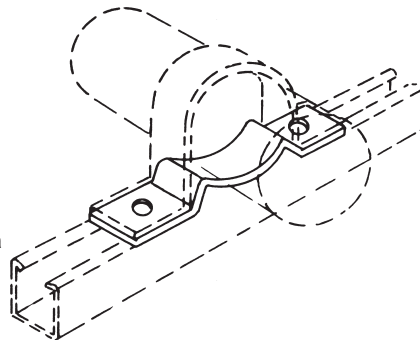
- NOTA: 1 - Para Ø 1/2" a 3/4" Cota A = 19 mm
Para Ø 1" a 10" Cota A = 38 mm
2 - Chapa 12 (2,66 mm) (REF.: H.E. 1.813 a 1.819)
3 - Chapa 11 (3,18 mm) (REF.: H.E. 1.820 a 1.826)
4 - Usar Parafuso REF.: H.E. 2.613 e porca REF.: H.E.1.503 ou 1.508
REF.: H.E. 1.815 a 1.826

- NOTE: 1 - For Ø 1/2" to 3/4" measure A = 19 mm
For Ø 1" a 10" measure A = 38 mm
2 - Steel plate thickness 12 (2,66 mm) (REF.: H.E.1.813 to 1.819)
3 - Steel plate thickness 11/8" (3,18 mm) (REF.: H.E.1.820 to 1.826)
4 - Use screw REF.: H.E.2.613 and nut REF.: H.E.1.503 or 1.508
REF.: H.E.1.815 to 1.826

REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER	
	1.813	1/2"
1.814	3/4"	(26,7 mm)
1.815	1"	(33,5mm)
1.816	1 1/4"	(42,3 mm)
1.817	1 1/2"	(48,3 mm)
1.818	2"	(60,3 mm)
1.819	2 1/2"	(75,5 mm)
1.820	3"	(88,3 mm)
1.821	3 1/2"	(101,6 mm)
1.822	4"	(114,3 mm)
1.823	5"	(141,3 mm)
1.824	6"	(168,3 mm)
1.825	8"	(219,1 mm)
1.826	10"	(273,0 mm)

SELA PARA BRAÇADEIRA OMEGA SADDLE FOR "OMEGA" TYPE STRAP

REF.: Ver tabela/See table



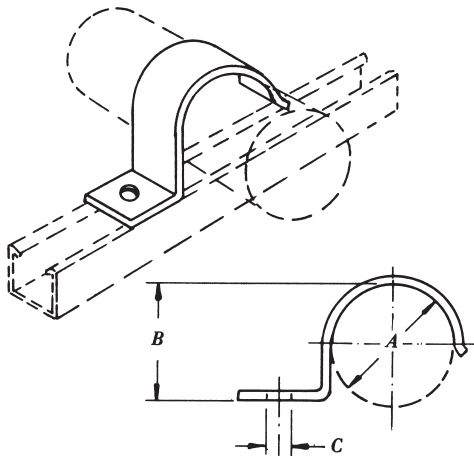
- NOTA: 1 - Chapa 11 (3,18 mm)
2 - Usar Parafusos REF.: H.E.2.615 e porca
REF.: H.E.1.503 ou 1.508

- NOTE: 1 - Steel plate thickness 11 (3,18 mm)
2 - Use screw REF.: H.E.2.615 and nut
REF.: H.E.1.503 or 1.508

REF. H.E.	PARA USO COM A BRAÇADEIRA OMEGA FOR USE WITH "OMEGA" TYPE STRAP
1.830	REF. 1820
1.831	REF. 1821
1.832	REF. 1822
1.833	REF. 1823
1.834	REF. 1824
1.835	REF. 1825
1.836	REF. 1826

BRAÇADEIRA UNHA "SNAP" TYPE STRAP

REF.: Ver tabela/See table

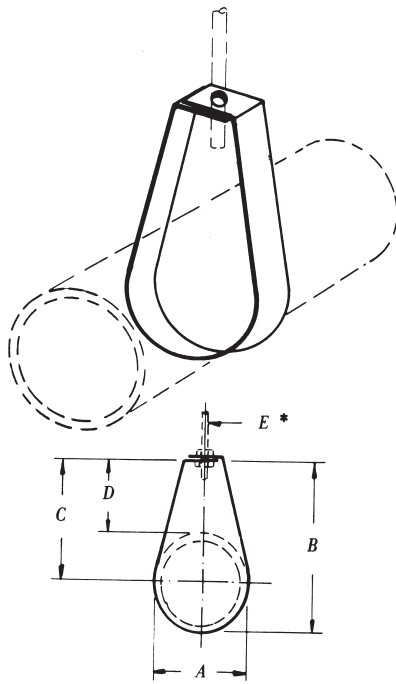


REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER	A	B	C	CARGA ESPESSURA DA CHAPA STEEL PLATE THICKNESS M.S.G.
1.868	1/8" (10 mm)	10,2	9	10	16
1.869	1/4" (13,3 mm)	13,5	13	10	16
1.870	3/8" (16,8 mm)	17	16	11,5	16
1.871	1/2" (21,3 mm)	21,5	21	11,5	16
1.872	3/4" (26,7 mm)	27	26	11,5	16
1.873	1" (33,5mm)	34	33	11,5	14
1.874	1 1/4" (42,3 mm)	42,5	42	11,5	14
1.875	1 1/2" (48,3 mm)	48,5	47	11,5	14
1.876	2" (60,3 mm)	60,5	59	11,5	14
1.877	2 1/2" (75,5 mm)	76	75	11,5	8
1.878	3" (88,3 mm)	89	88	11,5	11
1.879	3 1/2" (101,6 mm)	102	100	14,5	3/16"
1.880	4" (114,3 mm)	114,5	112	14,5	3/16"

BRAÇADEIRA TIPO "A" BAND HANGER - TYPE "A"

REF.: Ver tabela/See table

* Vergalhão não incluso
* Hanger rod not included

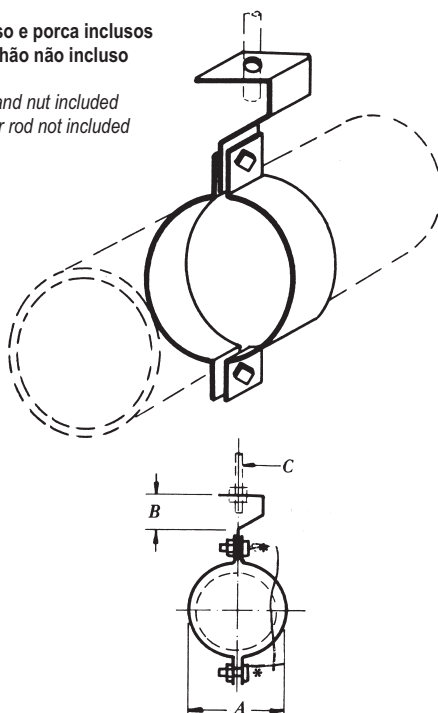


REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER	A	B	C	D	E	CARGA LOAD Kg
1.850	1/2" (21,3 mm)	21,3	53	42	32	3/8" (9,53 mm)	250
1.851	3/4" (26,7 mm)	26,7	56	42	29	3/8" (9,53 mm)	250
1.852	1" (33,5mm)	33,5	57	50	33	3/8" (9,53 mm)	250
1.853	1 1/4" (42,3 mm)	42,3	76	55	34	3/8" (9,53 mm)	250
1.854	1 1/2" (48,3 mm)	48,3	87	63	39	3/8" (9,53 mm)	250
1.855	2" (60,3 mm)	60,3	105	75	45	3/8" (9,53 mm)	250
1.856	2 1/2" (75,5 mm)	75,5	114	77	39	3/8" (9,53 mm)	250
1.857	3" (88,3 mm)	88,3	127	83	38	1/2" (12,70 mm)	420
1.858	3 1/2" (101,6 mm)	101,6	141	91	40	1/2" (12,70 mm)	420
1.859	4" (114,3 mm)	114,3	153	96	39	1/2" (12,70 mm)	420
1.860	5" (141,3 mm)	141,3	197	127	56	1/2" (12,70 mm)	420
1.861	6" (168,3 mm)	168,3	229	145	61	5/8" (15,88 mm)	540
1.862	8" (219,1 mm)	219,1	280	170	61	3/4" (19,05 mm)	780

BRAÇADEIRA TIPO "B" AJUSTABLE HANGER - TYPE "B"

REF.: Ver tabela/See table

* Parafuso e porca inclusos
** Vergalhão não incluso
* Screw and nut included
** Hanger rod not included



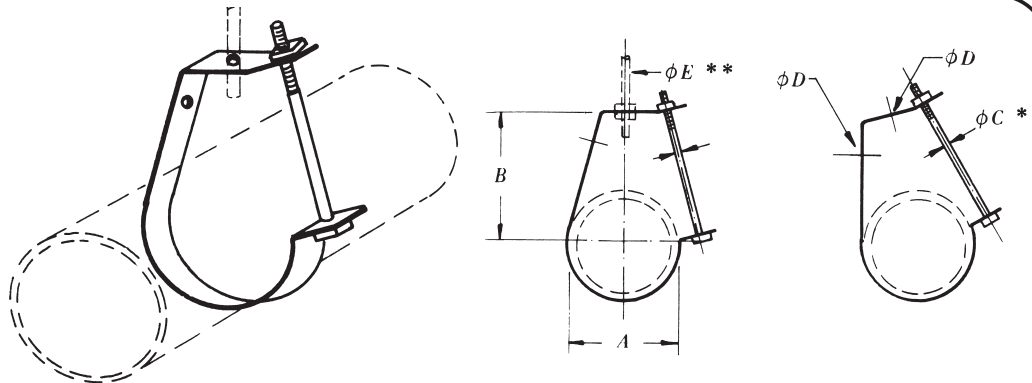
REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER	A	B	C	CARGA LOAD Kg
1.720	1/2" (21,3 mm)	21,3	38	3/8" (9,53 mm)	150
1.721	3/4" (26,7 mm)	26,7	38	3/8" (9,53 mm)	150
1.722	1" (33,5mm)	33,5	38	3/8" (9,53 mm)	150
1.723	1 1/4" (42,3 mm)	42,3	38	3/8" (9,53 mm)	250
1.724	1 1/2" (48,3 mm)	48,3	38	3/8" (9,53 mm)	250
1.725	2" (60,3 mm)	60,3	38	3/8" (9,53 mm)	250
1.726	2 1/2" (75,5 mm)	75,5	38	1/2" (12,70 mm)	350
1.727	3" (88,3 mm)	88,3	38	1/2" (12,70 mm)	350
1.728	3 1/2" (101,6 mm)	101,6	38	1/2" (12,70 mm)	450
1.729	4" (114,3 mm)	114,3	50	5/8" (15,88 mm)	450
1.730	5" (141,3 mm)	141,3	50	5/8" (15,88 mm)	550
1.731	6" (168,3 mm)	168,3	50	3/4" (19,05 mm)	550
1.732	8" (219,1 mm)	219,1	50	3/4" (19,05 mm)	750
1.733	10" (273,0 mm)	273	50	7/8" (22,23 mm)	900
1.734	12" (324,0 mm)	324	50	7/8" (22,23 mm)	1.100

BRAÇADEIRAS PARA TUBOS E CABOS PIPING AND CABLE SUPPORTS

BRAÇADEIRA TIPO "C" LAY-IN HANGER - TYPE "C"

REF.: Ver tabela/See table

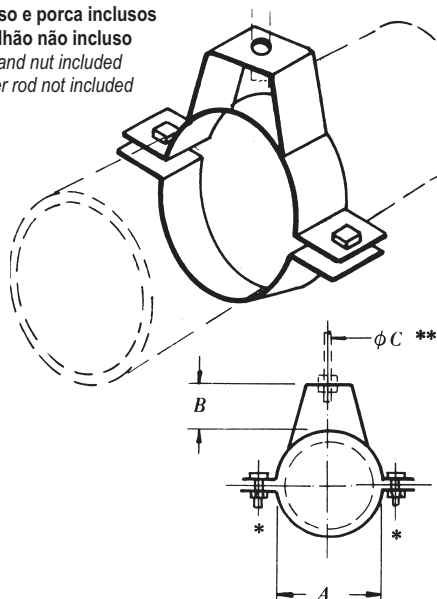
- * Parafuso e porca inclusos
- ** Vergalhão não incluso
- * Screw and nut included
- ** Hanger rod not included



REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER	A	B	C	D	E	CARGA LOAD Kg
1.660	1/2" (21,3 mm)	21,3	44	1/4" x 2 1/4" (6,35 x 57,10 mm)	10	3/8" (9,53 mm)	180
1.661	3/4" (26,7 mm)	26,7	48	1/4" x 2 1/4" (6,35 x 57,10 mm)	10	3/8" (9,53 mm)	180
1.662	1" (33,5mm)	33,5	57	1/4" x 2 1/2" (6,35 x 69,8 mm)	10	3/8" (9,53 mm)	180
1.663	1 1/4" (42,3 mm)	42,3	70	1/4" x 3 1/2" (6,35 x 88,9 mm)	10	3/8" (9,53 mm)	180
1.664	1 1/2" (48,3 mm)	48,3	76	1/4" x 3 1/2" (6,35 x 88,9 mm)	10	3/8" (9,53 mm)	180
1.665	2" (60,3 mm)	60,3	85	1/4" x 4" (6,35 x 101,6 mm)	10	3/8" (9,53 mm)	180
1.666	2 1/2" (75,5 mm)	75,5	101	3/8" x 5" (9,53 x 127,0 mm)	14	1/2" (12,70 mm)	220
1.667	3" (88,3 mm)	88,3	108	3/8" x 5" (9,53 x 127,0 mm)	14	1/2" (12,70 mm)	220
1.668	3 1/2" (101,6 mm)	101,6	121	3/8" x 5 1/2" (9,53 x 139,7 mm)	14	1/2" (12,70 mm)	220
1.669	4" (114,3 mm)	114,3	140	3/8" x 6 1/2" (9,53 x 152,4 mm)	17	5/8" (15,88 mm)	350
1.670	5" (141,3 mm)	141,3	152	3/8" x 7" (9,53 x 177,8 mm)	17	5/8" (15,88 mm)	350
1.671	6" (168,3 mm)	168,3	178	3/8" x 8" (9,53 x 203,2 mm)	17	5/8" (15,88 mm)	350
1.672	8" (219,1 mm)	219,3	254	3/8" x 11 1/2" (9,53 x 292,1 mm)	20	3/4" (19,05 mm)	450

BRAÇADEIRA TIPO "D" AJUSTABLE HANGER - TYPE "D"

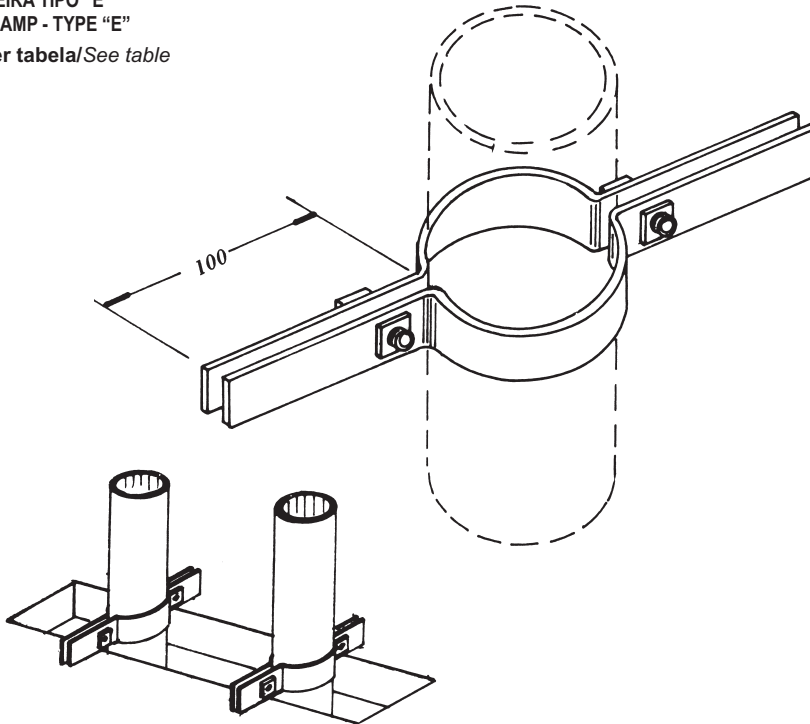
- * Parafuso e porca inclusos
- ** Vergalhão não incluso
- * Screw and nut included
- ** Hanger rod not included



REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER	A	B	C	CARGA LOAD Kg
1.680	1/2" (21,3 mm)	21,3	25	3/8" (9,53 mm)	150
1.681	3/4" (26,7 mm)	26,7	25	3/8" (9,53 mm)	150
1.682	1" (33,5mm)	33,5	25	3/8" (9,53 mm)	150
1.683	1 1/4" (42,3 mm)	42,3	25	3/8" (9,53 mm)	250
1.684	1 1/2" (48,3 mm)	48,3	25	3/8" (9,53 mm)	250
1.685	2" (60,3 mm)	60,3	45	3/8" (9,53 mm)	250
1.686	2 1/2" (75,5 mm)	75,5	45	1/2" (12,70 mm)	350
1.687	3" (88,3 mm)	88,3	45	1/2" (12,70 mm)	350
1.688	3 1/2" (101,6 mm)	101,6	50	1/2" (12,70 mm)	450
1.689	4" (114,3 mm)	114,3	50	5/8" (15,88 mm)	450
1.690	5" (141,3 mm)	141,3	55	5/8" (15,88 mm)	550
1.691	6" (168,3 mm)	168,3	55	3/4" (19,05 mm)	550
1.692	8" (219,1 mm)	219,1	60	3/4" (19,05 mm)	750
1.693	10" (273,0 mm)	273	60	7/8" (22,23 mm)	900
1.694	12" (324,0 mm)	324	60	7/8" (22,23 mm)	1.100

BRAÇADEIRA TIPO "E"
RISER CLAMP - TYPE "E"

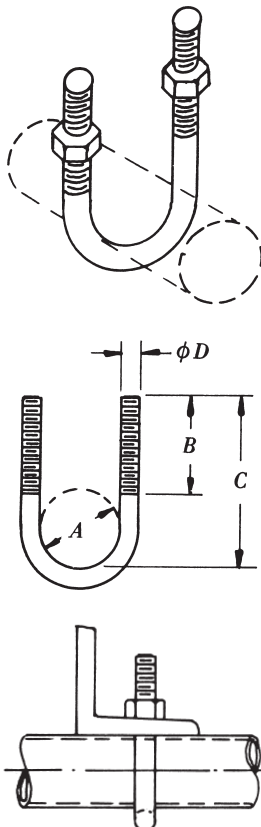
REF.: Ver tabela/See table



REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER
1.643	1/2" (21,3 mm)
1.644	3/4" (26,7 mm)
1.645	1" (33,5mm)
1.646	1 1/4" (42,3 mm)
1.647	1 1/2" (48,3 mm)
1.648	2" (60,3 mm)
1.649	2 1/2" (75,5 mm)
1.650	3" (88,3 mm)
1.651	3 1/2" (101,6 mm)
1.652	4" (114,3 mm)
1.653	5" (141,3 mm)
1.654	6" (168,3 mm)
1.655	8" (219,1 mm)
1.656	10" (273,0 mm)
1.657	12" (324,0 mm)

BRAÇADEIRA ESTRUTURAL
"U" BOLT SUPPORT

REF.: Ver tabela/See table



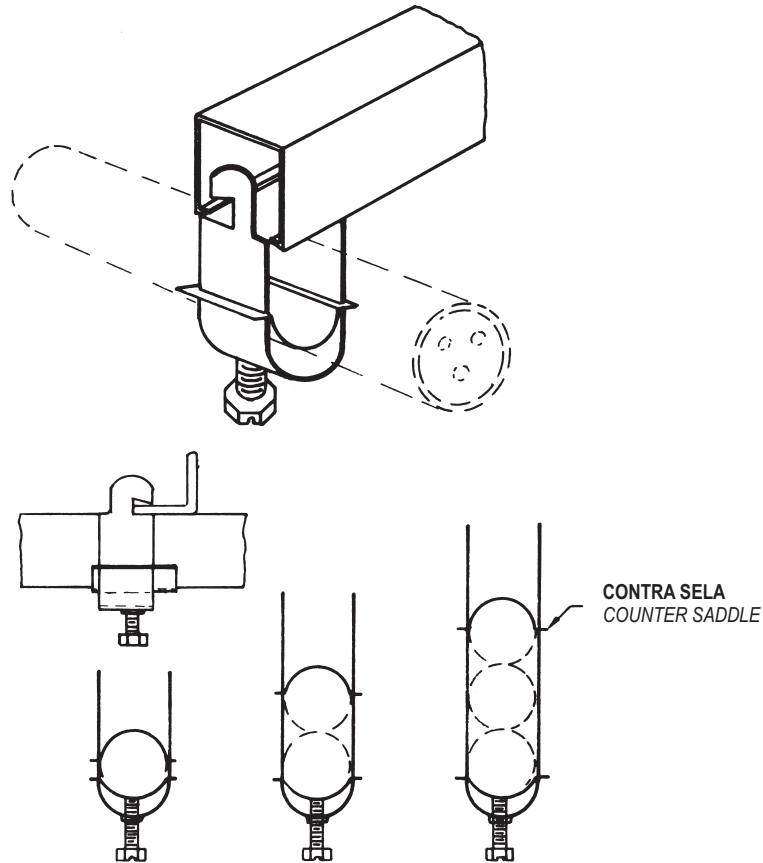
REF. H.E.	DIÂMETRO NOMINAL NOM. DIAMETER	A	B	C	D	CARGA LOAD Kg
1.750	3/8" (16,9 mm)	19	51	68	1/4" (6,35 mm)	200
1.751	1/2" (21,3 mm)	24	55	76	3/8" (9,53 mm)	350
1.752	3/4" (26,7 mm)	29	55	82	3/8" (9,53 mm)	350
1.753	1" (33,5mm)	35	55	89	3/8" (9,53 mm)	350
1.754	1 1/4" (42,3 mm)	44	55	97	3/8" (9,53 mm)	350
1.755	1 1/2" (48,3 mm)	51	55	103	3/8" (9,53 mm)	350
1.756	2" (60,3 mm)	62	70	130	3/8" (9,53 mm)	500
1.757	2 1/2" (75,5 mm)	75	70	146	3/8" (9,53 mm)	500
1.758	3" (88,3 mm)	91	70	159	3/8" (9,53 mm)	500
1.759	3 1/2" (101,6 mm)	104	70	172	3/8" (9,53 mm)	500
1.760	4" (114,3 mm)	117	70	185	3/8" (9,53 mm)	500
1.761	5" (141,3 mm)	143	99	240	1/2" (12,70 mm)	900
1.762	6" (168,3 mm)	172	102	270	5/8" (15,88 mm)	1.500
1.763	8" (219,1 mm)	223	102	320	5/8" (15,88 mm)	1.500
1.764	10" (273,0 mm)	277	105	377	3/4" (19,05 mm)	2.300
1.765	12" (324,0 mm)	328	107	430	7/8" (22,23 mm)	3.200



BRAÇADEIRAS PARA TUBOS E CABOS PIPING AND CABLE SUPPORTS

BRAÇADEIRA GARRA CURTA
"SHORT GRIP" CABLE CLAMP

REF.: Ver tabela/See table



REF. H.E.			DIÂMETROS DIAMETERS	
PARA 1 CABO FOR 1 CABLE	PARA 2 CABO FOR 2 CABLE	PARA 3 CABO FOR 3 CABLE	MÍNIMO MINIMUM	MÁXIMO MAXIMUM
1770/1	1770/2	1770/3	8	10
1771/1	1771/2	1771/3	11	14
1772/1	1772/2	1772/3	15	18
1773/1	1773/2	1773/3	19	22
1774/1	1774/2	1774/3	23	26
1775/1	1775/2	1775/3	27	30
1776/1	1776/2	-	31	34
1777/1	1777/2	-	35	38
1778/1	1778/2	-	39	42
1779/1	1779/2	-	43	46
1780/1	-	-	47	50
1781/1	-	-	51	54
1782/1	-	-	55	58
1783/1	-	-	59	62

NOTA:

Disponíveis em chapa de aço, carbono, inox 304 ou latão.

Para ser usada em perfilados e em cantoneiras com espessura máxima de 1/4" (6,3 mm).

Acomoda de 1 a 3 cabos do mesmo diâmetro.

Sendo desejável o uso de contra-sela, mencionar no pedido.

A sela e contra-sela, possuem proteção especial para não danificar a isolamento do cabo.

NOTE:

Available in steel plate or brass.

For use with channels and angle shapes having maximum thickness of 1/4" (6,3 mm).

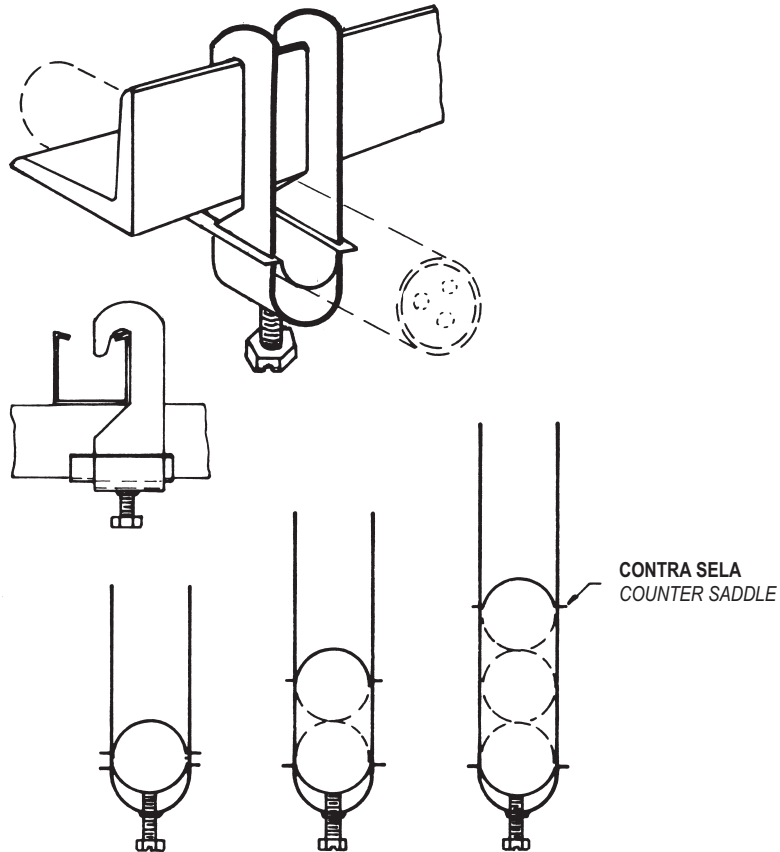
For placing 1 to 3 cables of similar diameter.

State in the order if the use of counter-saddle is desirable.

Saddle and counter-saddle are provided with special

BRAÇADEIRA DE GARRA LONGA
"LONG GRIP" CABLE CLAMP

REF.: Ver tabela/See table



REF. H.E.			DIÂMETROS DIAMETERS	
PARA 1 CABO FOR 1 CABLE	PARA 2 CABO FOR 2 CABLE	PARA 3 CABO FOR 3 CABLE	MÍNIMO MINIMUM	MÁXIMO MAXIMUM
1600/1	1600/2	1600/3	8	10
1601/1	1601/2	1601/3	11	14
1602/1	1602/2	1602/3	15	18
1603/1	1603/2	1603/3	19	22
1604/1	1604/2	1604/3	23	26
1605/1	1605/2	1605/3	27	30
1606/1	1606/2	-	31	34
1607/1	1607/2	-	35	38
1608/1	1608/2	-	39	42
1609/1	1609/2	-	43	46
1610/1	-	-	47	50
1611/1	-	-	51	54
1612/1	-	-	55	58
1613/1	-	-	59	62

NOTA:

Disponíveis em chapa de aço, carbono, inox 304 ou latão.

Para ser usada em perfilados e em cantoneiras com altura da aba no máximo de 1½" (38,1 mm). Acomoda de 1 a 3 cabos do mesmo diâmetro. Sendo desejável o uso de contra-sela, mencionar no pedido.

A sela e contra-sela, possuem proteção especial para não danificar a isolamento do cabo.

NOTE:

Available in steel plate or brass.

For use with channels and angle shapes having maximum height of 1½" (38,1 mm).

For placing 1 to 3 cables of similar diameter.

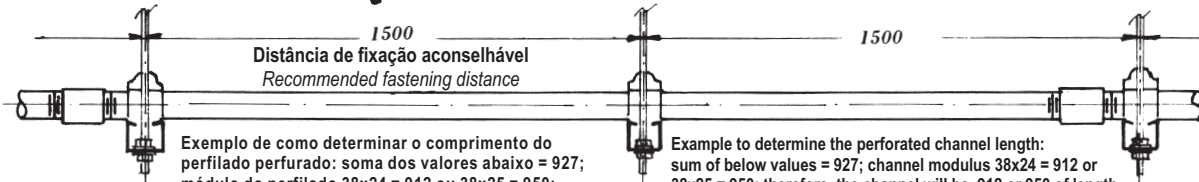
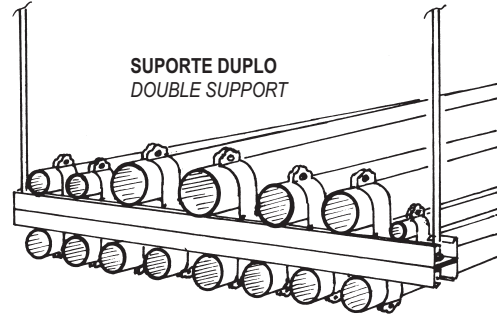
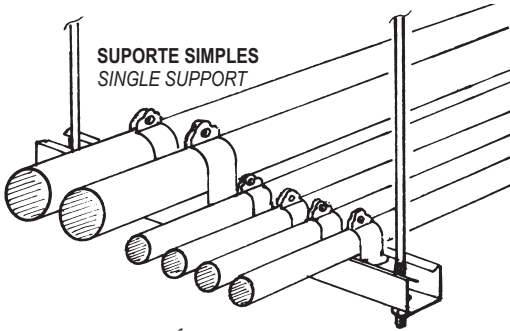
State in the order if the use of counter-saddle is desirable.

Saddle and counter-saddle are provided with special protection in order to not damage the cable insulation.



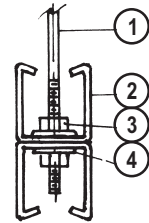
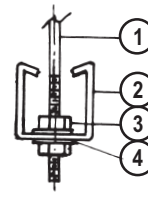
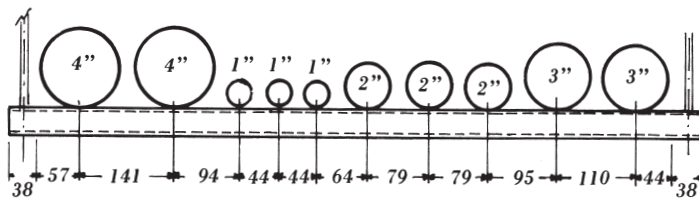
APLICAÇÕES TÍPICAS TYPICAL APPLICATIONS

TABELA PARA DETERMINAR O COMPRIMENTO DO PERFILADO E A DISTÂNCIA ENTRE OS TUBOS
TABLE TO DETERMINE THE CHANNEL LENGTH AND DISTANCE BETWEEN PIPING

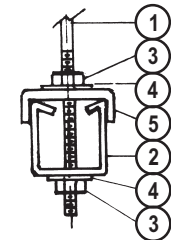
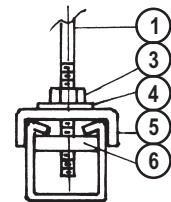


Exemplo de como determinar o comprimento do perfilado perfurado: soma dos valores abaixo = 927; módulo do perfilado 38x24 = 912 ou 38x25 = 950; portanto, o perfilado será de 912 ou 950. O corte deverá ser entre os furos.

Example to determine the perforated channel length: sum of below values = 927; channel modulus 38x24 = 912 or 38x25 = 950; therefore, the channel will be 912 or 950 of length. Cutting shall be between the holes.



Ø Nominal	Pol Inch	MM	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	Comprimento do Perfilado Channel Length	
			21,2	26,7	33,5	42,2	48,2	60,0	75,5	88,2	101,6	113,5	139,5	164,5	Mínimo Minimum	Normal
1/2"	21,2	30 35													*	*
3/4"	26,7	33 38	37												*	*
1"	33,5	38 44	41	44											*	*
1 1/4"	42,2	44 51	48	51	57										*	*
1 1/2"	48,2	49 54	52	56	62	65									*	*
2"	60,0	56 60	59	64	70	73	79								*	*
2 1/2"	75,5	62 67	65	70	76	79	86	92							*	*
3"	88,2	71 76	75	78	84	87	95	102	110						*	*
3 1/2"	101,6	79 86	83	86	92	95	103	110	117	125					*	*
4"	113,5	87 95	90	94	100	103	111	117	125	133	141				*	*
5"	139,5	105 111	108	111	117	121	127	133	141	149	157	173			*	*
6"	164,5	121 127	124	127	133	137	143	149	157	165	173	189	206		*	*
			130	133	140	143	152	158	168	178	184	203	219		*	*

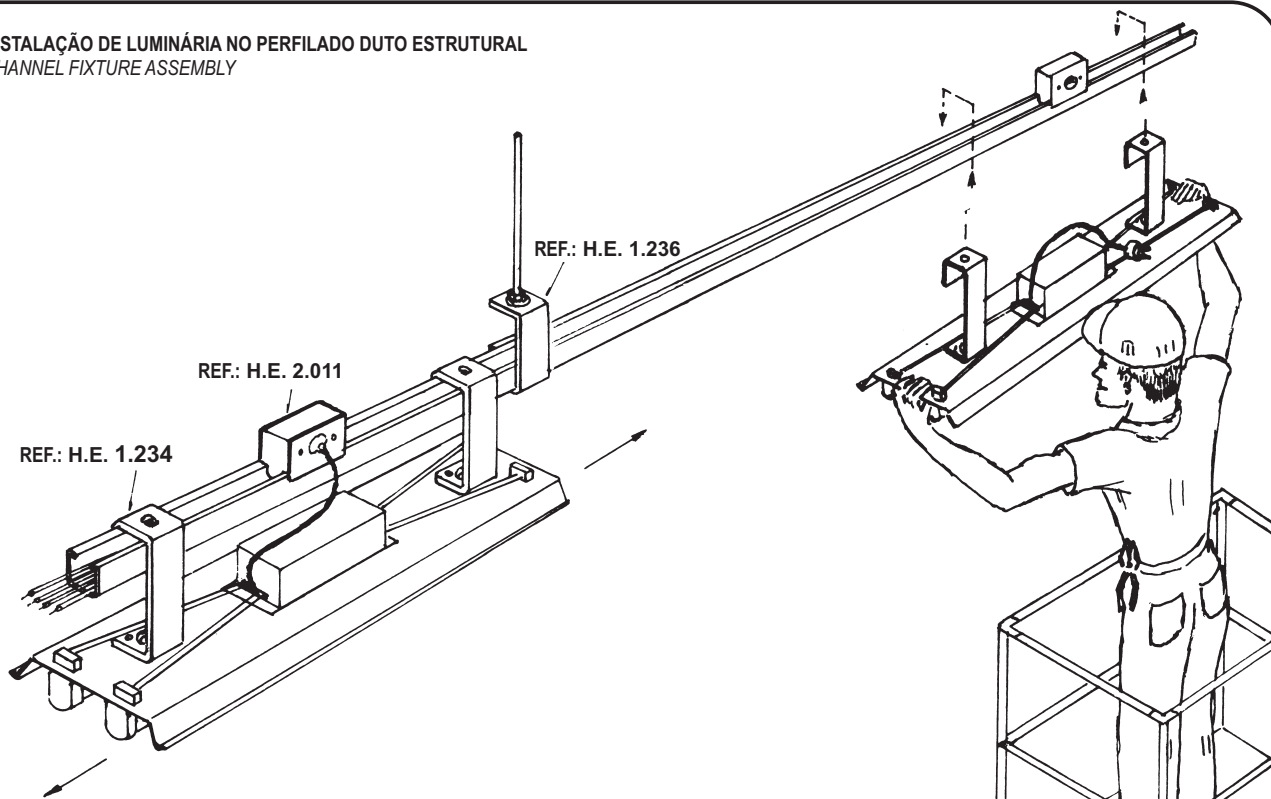


- 1 Vergalhão
Hanger rod
- 2 Perfilado perfurado
Channel with perforations
- 3 Porca sextavada
Hex nut
- 4 Arruela lisa
Plain washer
- 5 Adaptador de segurança
Saddle type washer
- 6 Porca perfil
Channel nut



APLICAÇÕES TÍPICAS TYPICAL APPLICATIONS

INSTALAÇÃO DE LUMINÁRIA NO PERFILADO DUTO ESTRUTURAL CHANNEL FIXTURE ASSEMBLY



VANTAGENS DO SISTEMA.

VERSATILIDADE - As caixas de tomada são colocadas com distância em módulos pré-determinados, o que possibilita a qualquer tempo, alterações nas posições das luminárias. Pelo fato das luminárias estarem simplesmente apoiadas sobre o perfilado, é possível também, a deslocação à direita e à esquerda, dependendo do comprimento do fio.

PRATICIDADE - Redução substancial da "mão de obra" de instalação e manutenção, pela extrema facilidade da colocação da luminária.

O serviço de reparos fica muito facilitado, pois o eletricista fará a simples reposição da luminária defeituosa por uma boa, que deverá ter em estoque e, efetuará o conserto na seção de manutenção, sem interferir portanto no trabalho da área industrial.

ECONOMIA - As características de versatilidade e praticidade do sistema, redundam em substancial economia da instalação global.

ADVANTAGES OF THE SYSTEM

VERSATILITY - The outlet boxes are placed with distance in predetermined modulus, enabling at any time, changes in the fixture positions. As the fixtures are simply supported on the channel, it is also possible to deviate them to left or right, pending on the wire length.

PRATICABILITY - Substantial saving of installation and maintenance labor, by easy placement of the fixtures.

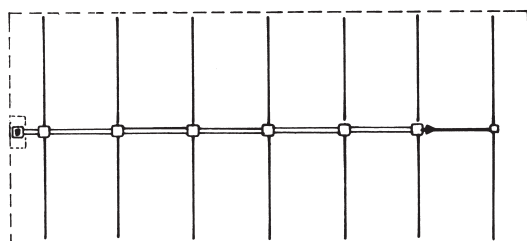
Repair work becomes easy as the electrician will only replace the defective fixture by a spare unit, and perform the repair work in the maintenance area, without interfering in the industrial area.

SAVING - The versatility and practicability characteristics of the system result in substantial saving of the entire installation.

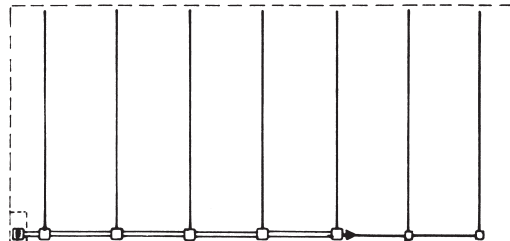
Subida do quadro de luz usar perfilado
REF.: H.E. 1.008, tampa REF.: H.E. 1.051
e base REF.: H.E. 2.060.

For upgoing of power panel use channel
REF.: H.E. 1.008, closure strip REF.: H.E. 1.051
and panel adapter REF.: H.E. 2.060.

ESQUEMA DE DISTRIBUIÇÃO COM ALIMENTAÇÃO PELO CENTRO DISTRIBUTION SCHEME WITH CENTRAL POWER SUPPLY



ESQUEMA DE DISTRIBUIÇÃO COM ALIMENTAÇÃO PELA LATERAL DISTRIBUTION SCHEME WITH LATERAL POWER SUPPLY

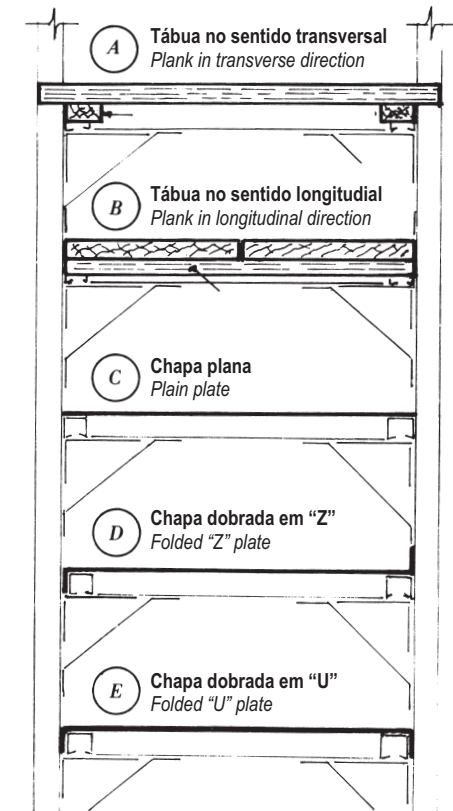
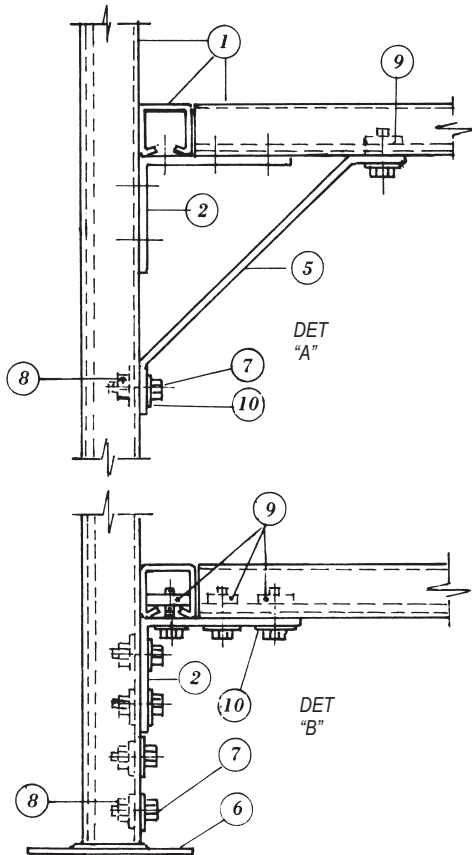


LEGENDA LEGEND

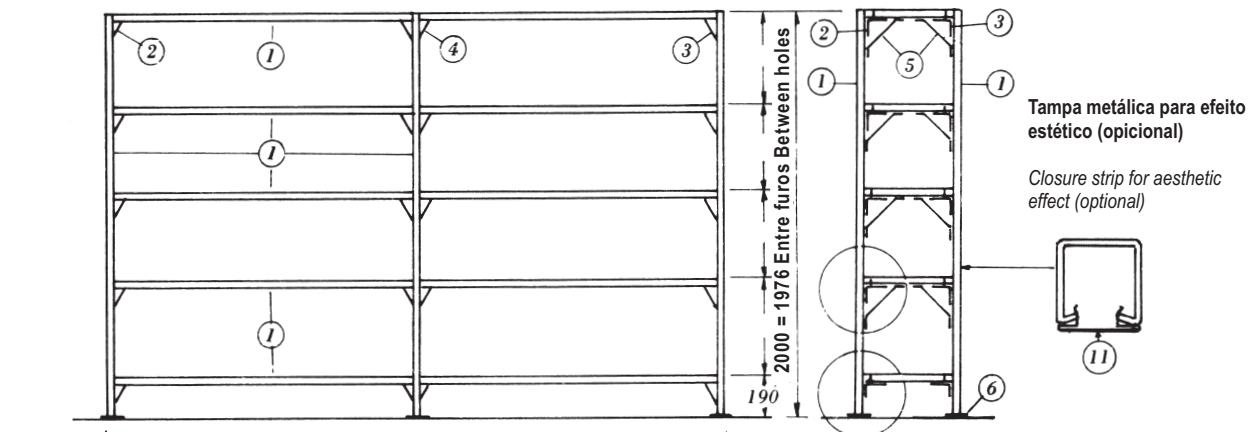
- REF.: H.E.1002
- REF.: H.E.1008
- REF.: H.E.2045
- ⊕ REF.: H.E.2052
- ⊖ REF.: H.E.2051
- ⊙ REF.: H.E.2002
- ⊙ REF.: H.E.2005
- REF.: H.E.2061

APLICAÇÕES TÍPICAS TYPICAL APPLICATIONS

PRATELEIRA COM USO DE PERFILADO DUTO-ESTRUTURAL CHANNEL FOR SHELVES ASSEMBLY

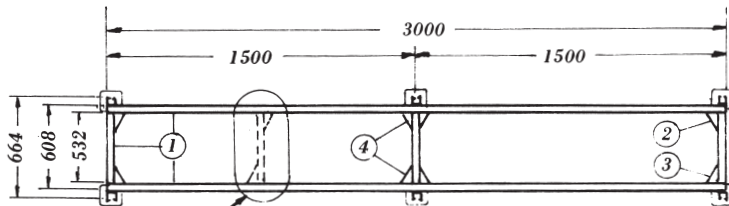
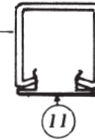


Os tipos C, D, e E, poderão ser fornecidos em chapas nº 20 a 12 M.S.G.
Type C, D and E can be furnished in plate no. 20 to 12 M.S.G.



Tampa metálica para efeito estético (opcional)

Closure strip for aesthetic effect (optional)



Travessa de reforço
Reinforce Crossbar

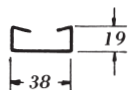
REF.: H.E.	1001	1 pç x 532
"	1111	2"
"	2613	8"
"	1503	8"
"	2523	8"

ITEM	QUANT.	REF.: H.E.
1	51 m	1001
2	10 pç	1214
3	10 pç	1215
4	10 pç	1216
5	24 pç	1207
6	6 pç	1301
7	250 pç	2613
8	60 pç	2503
9	190 pç	1503
10	310 pç	2523
11	12 m	1050

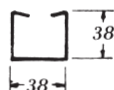
Relação de material de uma estrutura de 3000 x 2000 x 600mm, com 5 prateleiras

List of material of a structure having 3000 x 2000 x 600mm with 5 shelves

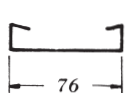
TABELA DE CARGA DO PERFILADO DUTO ESTRUTURAL CHANNEL LOAD TABLES



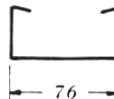
REF.:
H.E.1003
H.E.1004
H.E.1005



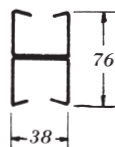
REF.:
H.E.1000
1001
1002



REF.:
H.E.1008
H.E.1009

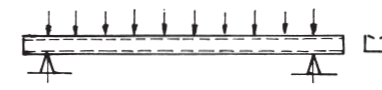


REF.:
H.E.1006
H.E.1007

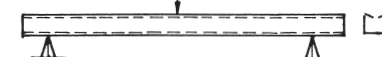


TIPO 1
REF.: H.E.1020

Carga uniformemente distribuída em Kg
Uniformly distributed load in Kg



Carga concentrada em Kg
Concentrated load in Kg



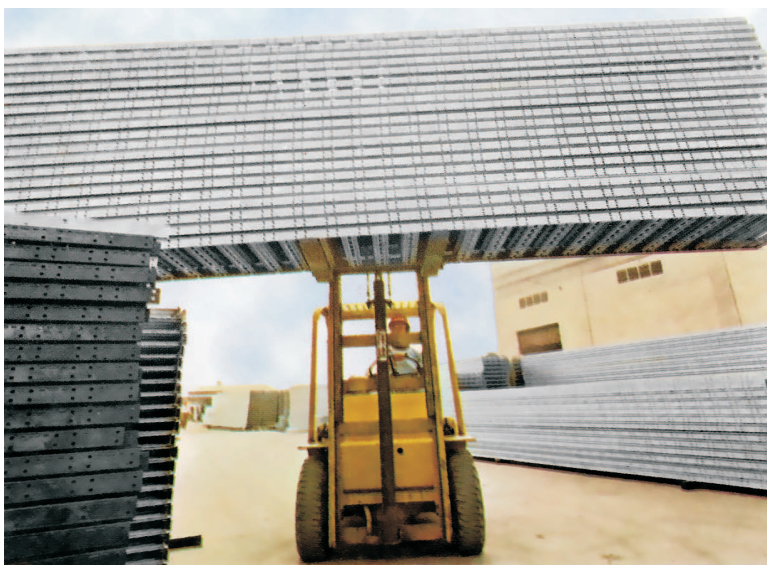
CARGAS UNIFORMEMENTE DISTRIBUÍDAS (Kg) ATÉ UM MÁXIMO DE FLECHA DE 1/360 ENTRE APOIOS UNIFORMLY DISTRIBUTED LOADS (Kg) UP TO A MAXIMUM DEFLECTION OF 1/360 SPAN

DISTÂNCIA ENTRE APOIOS SPAN DISTANCE mm	CHAPA (STEEL PLATE) M.S.G. 14				CHAPA (STEEL PLATE) M.S.G. 12			
	REF.:H.E. 1003, 1004 1005, 1008, 1009		REF.:H.E. 1000, 1001 1002, 1006, 1007		REF.:H.E. 1000, 1001 1002, 1006, 1007		TIPO 1 REF.:H.E. 1020	
	CARGA LOAD Kg	FLECHA DEFL. mm	CARGA LOAD Kg	FLECHA DEFL. mm	CARGA LOAD Kg	FLECHA DEFL. mm	CARGA LOAD Kg	FLECHA DEFL. mm
300	320	0,7	845	0,3	1326	0,3	-	-
450	180	1,3	560	0,8	885	0,8	2450	0,4
600	100	1,7	420	1,4	665	1,4	1840	0,8
750	65	2,1	320	2,1	615	2,1	1470	1,3
900	45	2,5	225	2,5	355	2,5	1225	1,8
1050	35	2,9	165	2,9	260	2,9	1050	2,5
1200	25	3,4	125	3,3	200	3,3	920	3,2
1350	-	-	100	3,8	160	3,8	755	3,8
1500	-	-	80	4,2	130	4,2	610	4,2
1650	-	-	65	4,6	105	4,6	505	4,6
1800	-	-	55	5,0	90	5,0	420	5,0
2100	-	-	-	-	65	5,7	310	5,7
2400	-	-	-	-	50	6,4	240	6,4
2700	-	-	-	-	-	-	185	7,3
3000	-	-	-	-	-	-	150	8,3

CARGAS CONCENTRADAS (Kg) ATÉ UM MÁXIMO DE FLECHA DE 1/360 ENTRE APOIOS CONCENTRATED LOADS (Kg) UP TO A MAXIMUM DEFLECTION OF 1/360 SPAN

DISTÂNCIA ENTRE APOIOS SPAN DISTANCE mm	CHAPA (STEEL PLATE) M.S.G. 14				CHAPA (STEEL PLATE) M.S.G. 12			
	REF.:H.E. 1003, 1004 1005, 1008, 1009		REF.:H.E. 1000, 1001 1002, 1006, 1007		REF.:H.E. 1000, 1001 1002, 1006, 1007		TIPO 1 REF.:H.E. 1020	
	CARGA LOAD Kg	FLECHA DEFL. mm	CARGA LOAD Kg	FLECHA DEFL. mm	CARGA LOAD Kg	FLECHA DEFL. mm	CARGA LOAD Kg	FLECHA DEFL. mm
300	160	0,5	420	0,3	665	0,3	-	-
450	105	1,1	285	0,6	445	0,6	1225	0,3
600	65	1,6	210	1,1	330	1,1	920	0,6
750	40	2,1	170	1,8	265	1,7	735	1,0
900	30	2,5	145	2,5	220	2,5	615	1,4
1050	20	2,9	105	2,9	165	2,9	525	2,0
1200	15	3,3	80	3,3	125	3,3	460	2,6
1350	-	-	65	3,8	100	3,8	410	3,3
1500	-	-	50	4,2	80	4,2	370	4,0
1650	-	-	40	4,6	65	4,6	315	4,6
1800	-	-	35	5,0	60	5,0	265	5,0
2100	-	-	-	-	40	5,7	195	5,7
2400	-	-	-	-	30	6,4	150	6,4
2700	-	-	-	-	-	-	115	7,3
3000	-	-	-	-	-	-	95	8,3

LEITOS PARA CABOS



COMO ESPECIFICAR
HOW TO SPECIFY

DESCRIÇÃO DE PADRÃO DESCRIPTION OF PATTERN	DESCRIÇÃO DE PEÇAS DESCRIPTION OF PARTS	CÓDIGO/CODE					COMO ESPECIFICAR HOW TO SPECIFY
		DIMENSÕES EM MM / DIMENSIONS IN MM					
		REFERÊNCIA REFERENCE	LARGURA WIDTH	ABA BEAM	COMPR LENGHT	RAIO RADIUS	
LEITO ECONÔMICO PARA CABOS ECONOMICAL TYPE CABLE TRAY	TRECHO RETO STRAIGHT SECTION	3.400	500	60	3.000	-	3.400/500/60/3.000
	CURVA HORIZONTAL 90° 90° HORIZONTAL BEND	3.406	400	60	-	300	3.406/400/60/300
	REDUÇÃO CONCÊNTRICA CONCENTRIC REDUCER	3.434	400/200	60	-	-	3.435/400/200/60
LEITO LEVE PARA CABOS LIGHT TYPE CABLE TRAY	TRECHO RETO STRAIGHT SECTION	3.500	400	100	3000	-	3.500/400/100/3000
	TÊ RETO STRAIGHT TEE	3.520	300	75	-	500	3.520/300/75/500
	COTOVELO RETO 90° 90° ELBOW	3.531	200	100	-	-	3.531/200/100
LEITO MÉDIO PARA CABOS MEDIUM TYPE CABLE TRAY	TRECHO RETO STRAIGHT SECTION	3.600	800	100	5000	-	3.600/800/100/5000
	CRUZETA RETA 90° STRAIGHT CROSS	3.621	700	75	-	320	3.621/700/75/320
	TERMINAL END PLATE	3.639	-	75	-	-	3.639/75
LEITO SEMI-PESADO PARA CABOS SEMI HEAVY TYPE CABLE TRAY	TRECHO RETO STRAIGHT SECTION	3.700	700	75	4000	-	3.700/700/75/4000
	CURVA VER. EXT. 45° 45° VERT. OUTSIDE BEND	3.709	800	100	-	320	3.709/800/100/320
	TÊ RETO STRAIGHT TEE	3.732	500	75	-	-	3.732/500/75
LEITO PESADO PARA CABOS HEAVY HEAVY TYPE CABLE TRAY	TRECHO RETO STRAIGHT SECTION	3.800	1000	100	3000	-	3.800/1000/100/3000
	JUNÇÃO DIREITA 90° 90° RIGHT-HAND Y-BRANCH	3.823	750	100	-	645	3.823/750/100/645
	CURVA DE INVERSÃO 90° 90° TRANSITIONAL BEND	3.819	1250	100	-	895	3.819/1250/100/895

As medidas indicadas no presente capítulo, são expressas em milímetros. Quando se referem à medidas de tubos (expressas em polegadas), deve-se entendê-las como medidas nominais.

The measurements indicated herein this chapter are in millimeter.

When referring to tubing (indicated in inches),

they should be understood as nominal measurements.

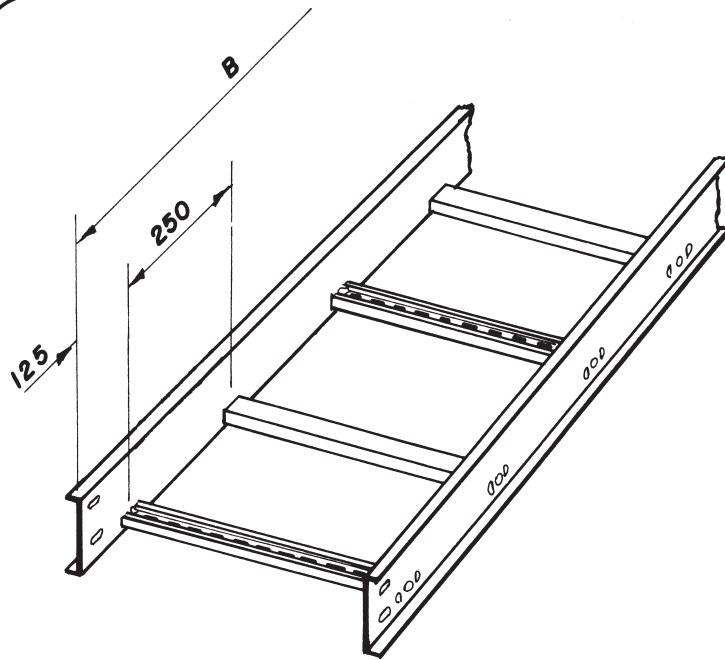
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LEITO MÉDIO PARA CABOS

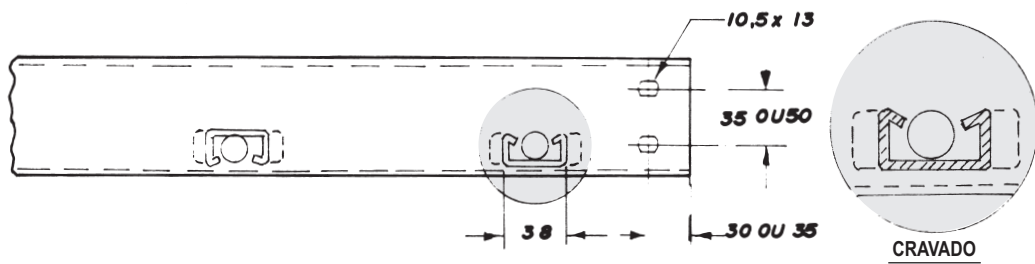
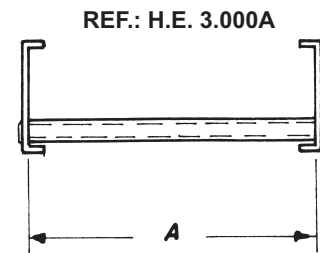
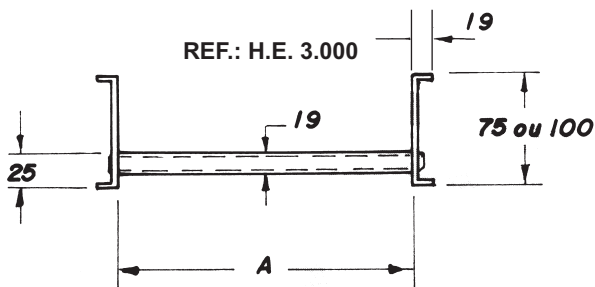
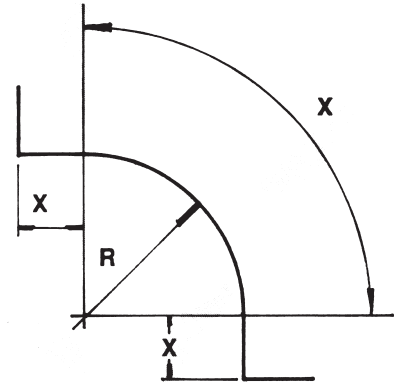
MEDYUM TYPE CABLE TRAY

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LEITO PARA CABOS
TYPE CABLE TRAY



DEMONSTRATIVO DE DIMENSÕES
PARA CURVAS HORIZONTAIS E VERTICAIS
DIAGRAM OF DIMENSIONS FOR
HORIZONTAL AND VERTICAL BENDS



DIMENSÕES EM MM/DIMENSIONS IN MM									
A	200	300	400	500	600	700	800	1000	1200
B	1000	2000	3000	4000	5000	6000			

TIPOS DE RAIOS DE CURVATURA CURVAS, TES E COTOVELOS
RADIUS TYPY - BENDS, TEES AND ELBOW

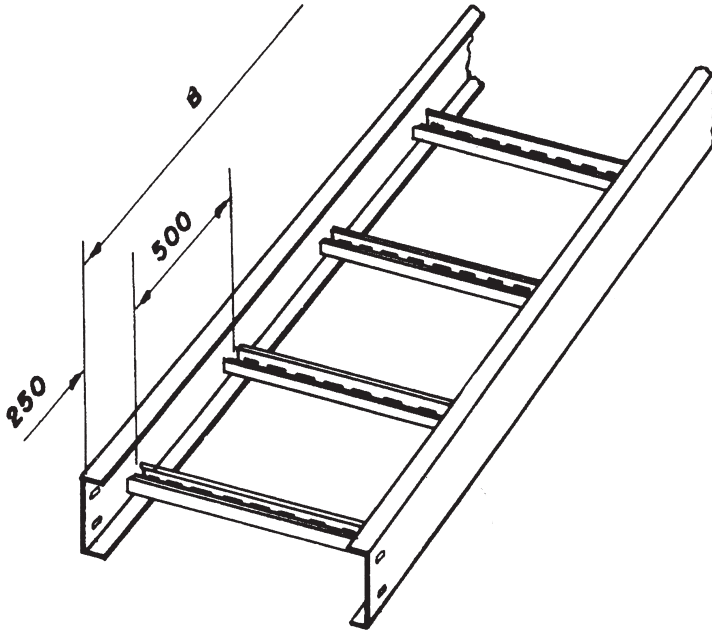
R	X
320	60
520	60
645	60
895	60

LEITO MÉDIO PARA CABOS

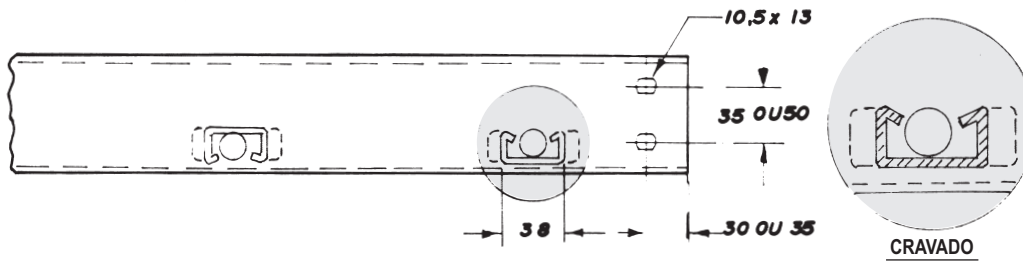
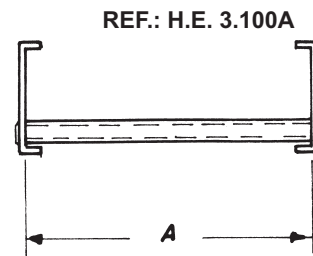
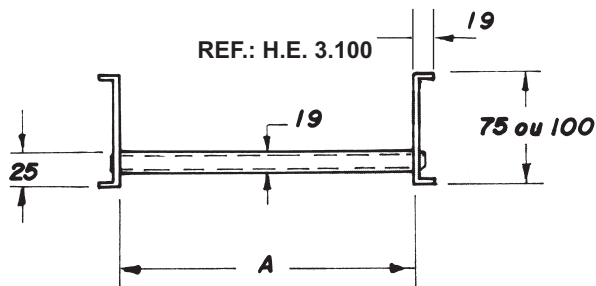
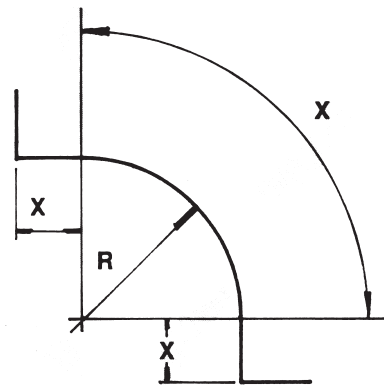
MEDYUM TYPE CABLE TRAY



LEITO PARA CABOS
TYPE CABLE TRAY



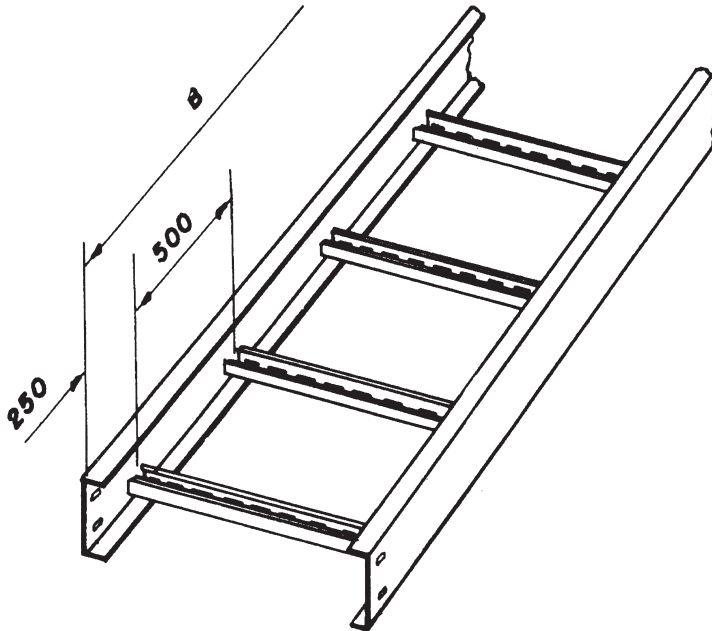
DEMONSTRATIVO DE DIMENSÕES PARA
CURVAS HORIZONTAIS E VERTICAIS
DIAGRAM OF DIMENSIONS FOR
HORIZONTAL AND VERTICAL BENDS



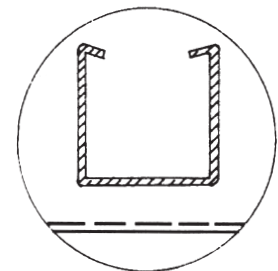
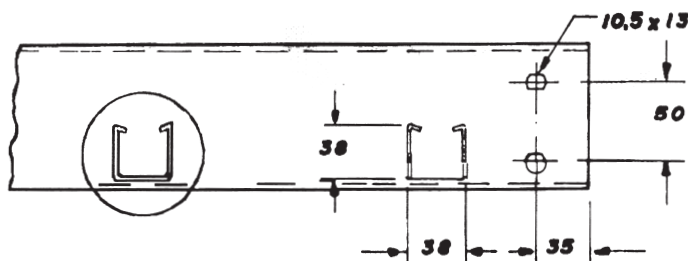
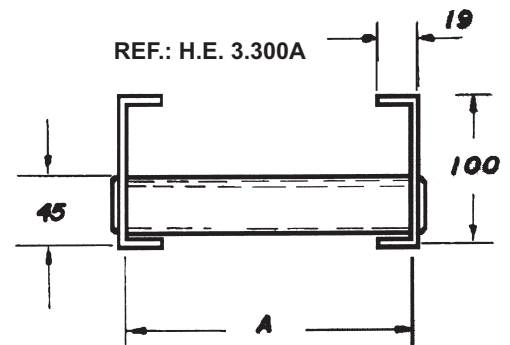
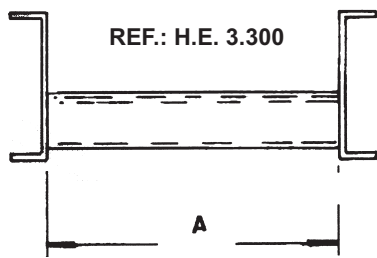
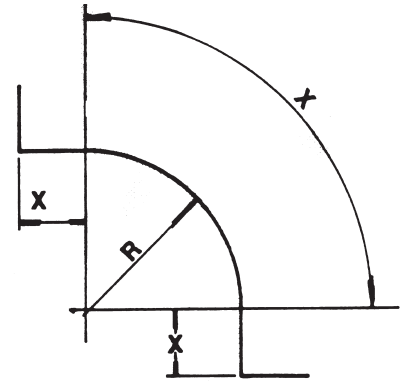
DIMENSÕES EM MM / DIMENSIONS IN MM	
A	200 300 400 500 600 700 800 1000 1200
B	1000 2000 3000 4000 5000 6000

TIPOS DE RAIOS DE CURVATURA CURVAS, TES E COTOVELO
RADIUS TYPY - BENDS, TEES AND ELBOW

R	X
320	60
520	60
645	60
895	60



DEMONSTRATIVO DE DIMENSÕES PARA CURVAS HORIZONTAIS E VERTICAIS
DIAGRAM OF DIMENSIONS FOR HORIZONTAL AND VERTICAL BENDS



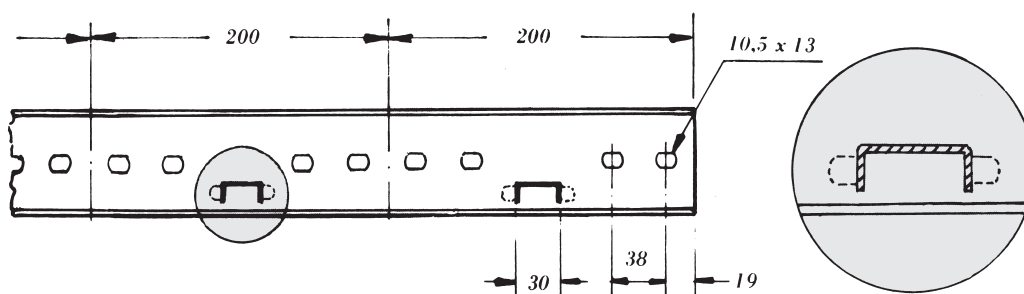
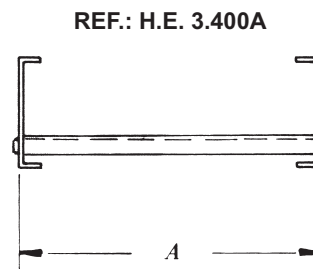
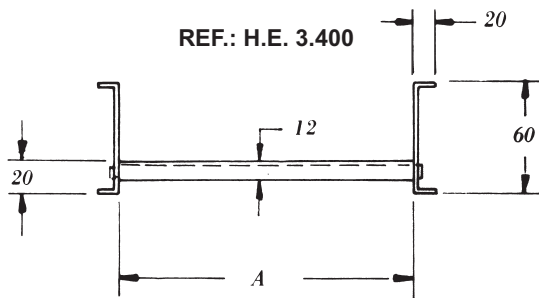
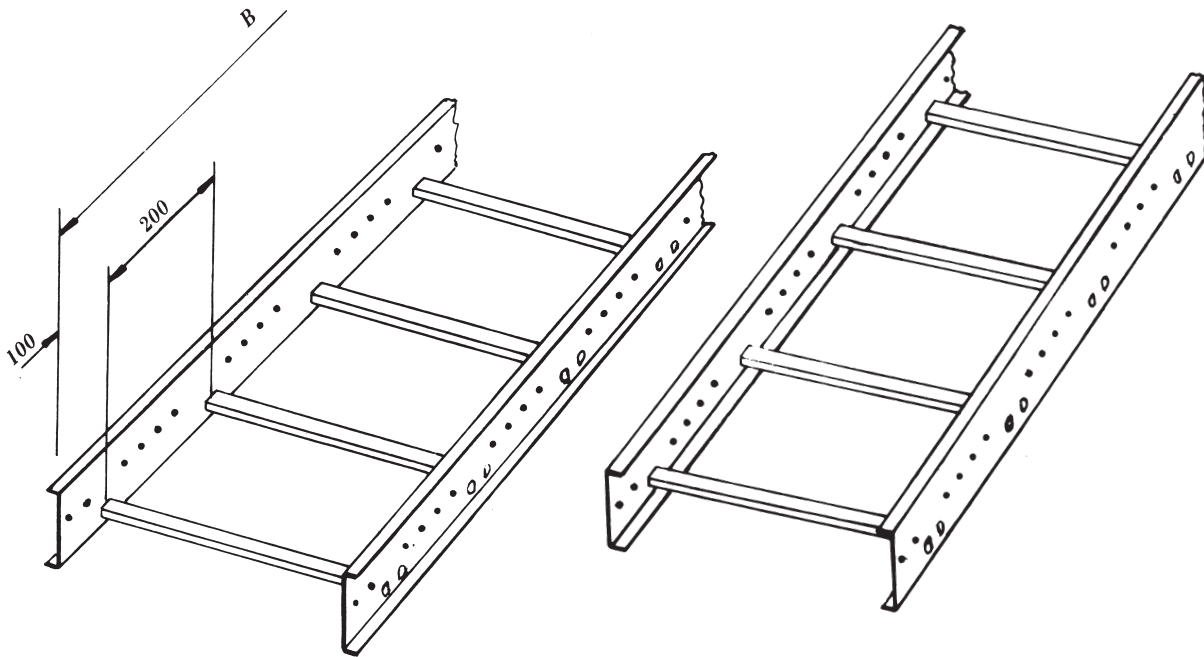
DIMENSÕES EM MM / DIMENSIONS IN MM												
A	200	250	300	400	500	600	700	750	800	1000	1250	1500
B	1000			2000			3000			4000	5000	6000

TIPOS DE RAIOS DE CURVATURA CURVAS, TES E COTOVELOS
RADIUS TYPY - BENDS, TEES AND ELBOW

LEITO ECONÔMICO PARA CABOS

ECONOMICAL TYPE CABLE TRAY

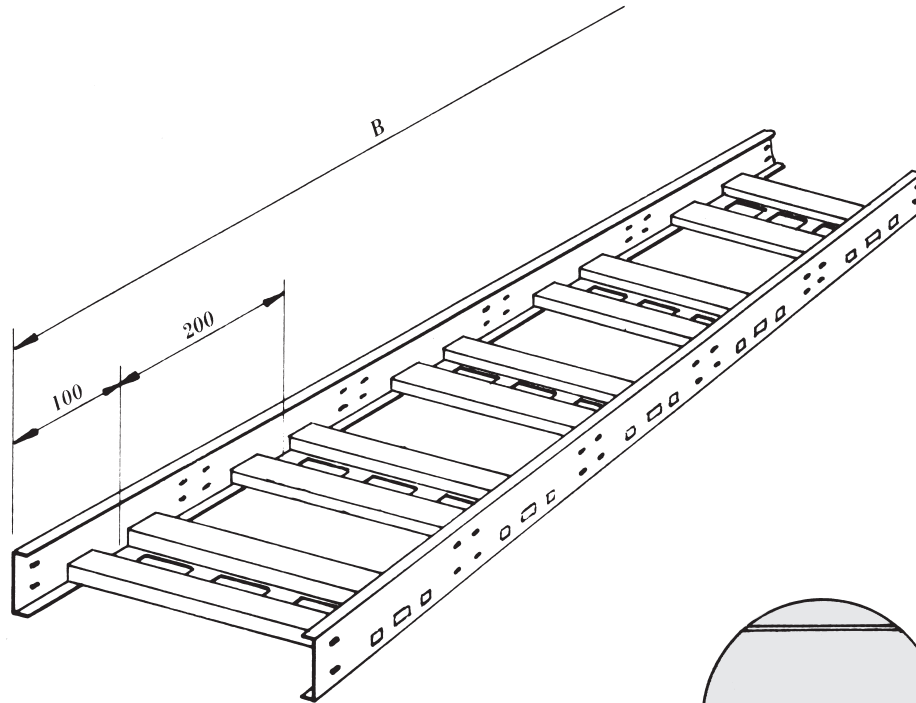
TRECHOS RETOS
STRAIGHT SECTIONS



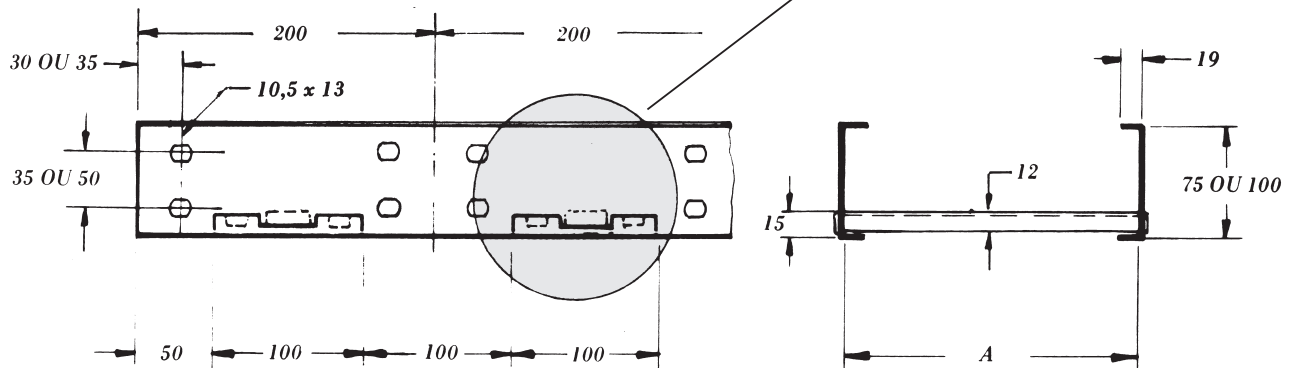
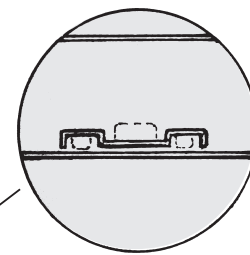
DIMENSÕES EM MM/DIMENSIONS IN MM							
A	200	300	400	500	600	700	800
B	1000		2000		3000		

NOTA: A furação intermediária entre travessas permite o seccionamento da peça em módulos de 200 mm, caso seja necessário proceder a ajustes de medidas na obra, com perfeito acoplamento a outras peças através das junções normais. Possibilita também a fixação de diversos tipos de acessórios, bornes de aterramento, suportes para saída de eletrodutos, etc.
A pedido, poderemos fornecer somente com furação nas extremidades.

NOTE: The intermediate holes between crossbars allows the part sectioning in 200 mm moduli, if it is necessary to proceed measure adjustments in the field, in perfect connection with other parts by means of normal splice plate. It also allows the fastening of different types of accessories, grounding connectors, conduits outlets supports, etc.
When ordered, we will be able to supply only with holes on the extremes.



REF.: H.E. 3.500A



DIMENSÕES EM MM/DIMENSIONS IN MM							
A	200	300	400	500	600	700	800
B	1000	2000	3000	4000	5000	6000	

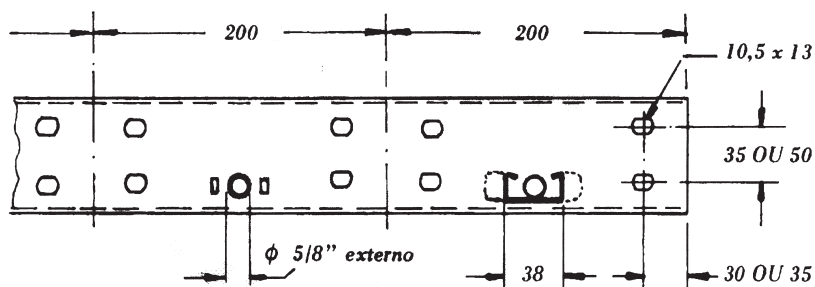
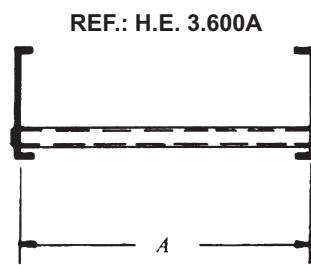
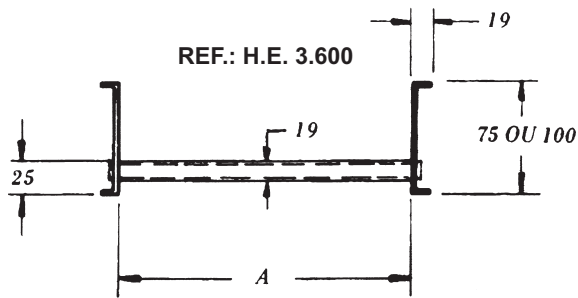
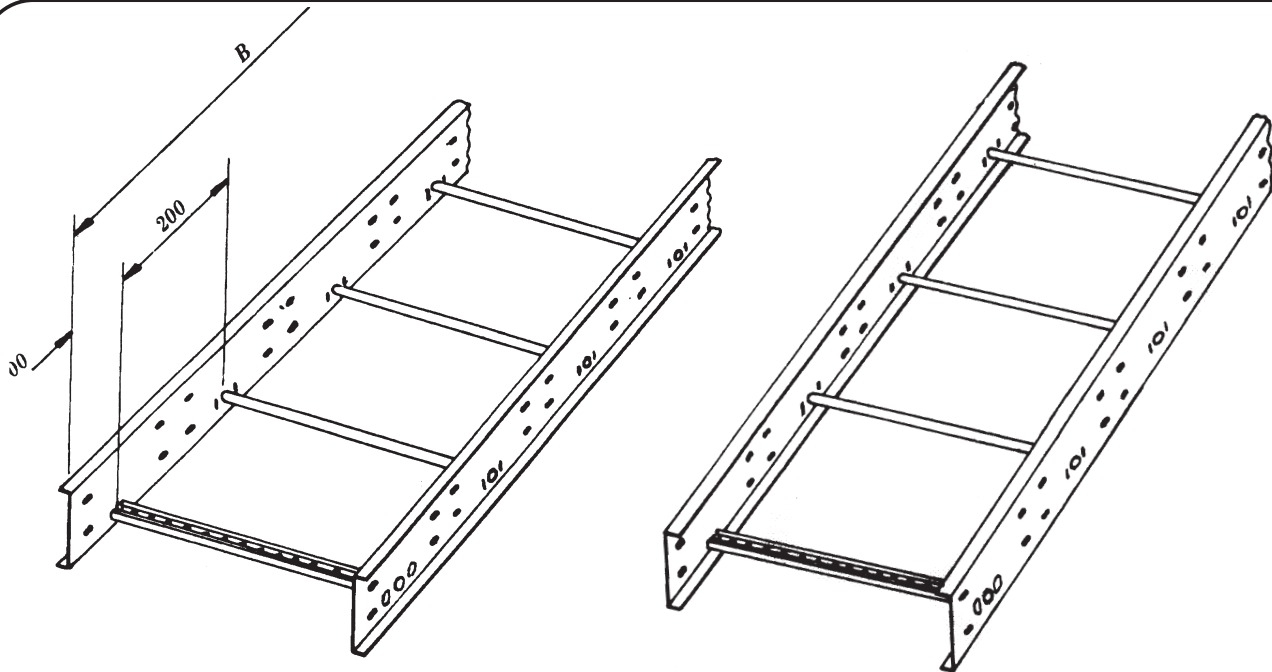
NOTA: A furação intermediária entre travessas permite o sectionamento da peça em módulos de 200 mm, caso seja necessário proceder a ajustes de medidas na obra, com perfeito acoplamento a outras peças através das junções normais. Possibilita também a fixação de diversos tipos de acessórios, bornes de aterramento, suportes para saída de eletrodutos, etc.
A pedido, poderemos fornecer somente com furação nas extremidades.

NOTE: The intermediate holes between crossbars allows the part sectioning in 200 mm moduli, if it is necessary to proceed measure, adjustments in the field, imperfect connection with other parts by means of normal splice plate. It also allows the fastening of different types of accessories, grounding connectors, conduits outlets supports, etc.
When ordered, we will be able to supply only with holes on the extremes.

LEITO MÉDIO PARA CABOS

MEDIUM TYPE CABLE TRAY

TRECHOS RETOS STRAIGHT SECTIONS



DIMENSÕES EM MM / DIMENSIONS IN MM	
A	200 300 400 500 600 700 800 1000 1200
B	1000 2000 3000 4000 5000 6000

NOTA: A furação intermediária entre travessas permite o seccionamento da peça em módulos de 200 mm, caso seja necessário proceder a ajustes de medidas na obra, com perfeito acoplamento a outras peças através das junções normais. Possibilita também a fixação de diversos tipos de acessórios, bornes de aterramento, suportes para saída de eletrodutos, etc.
A pedido, poderemos fornecer somente com furação nas extremidades.

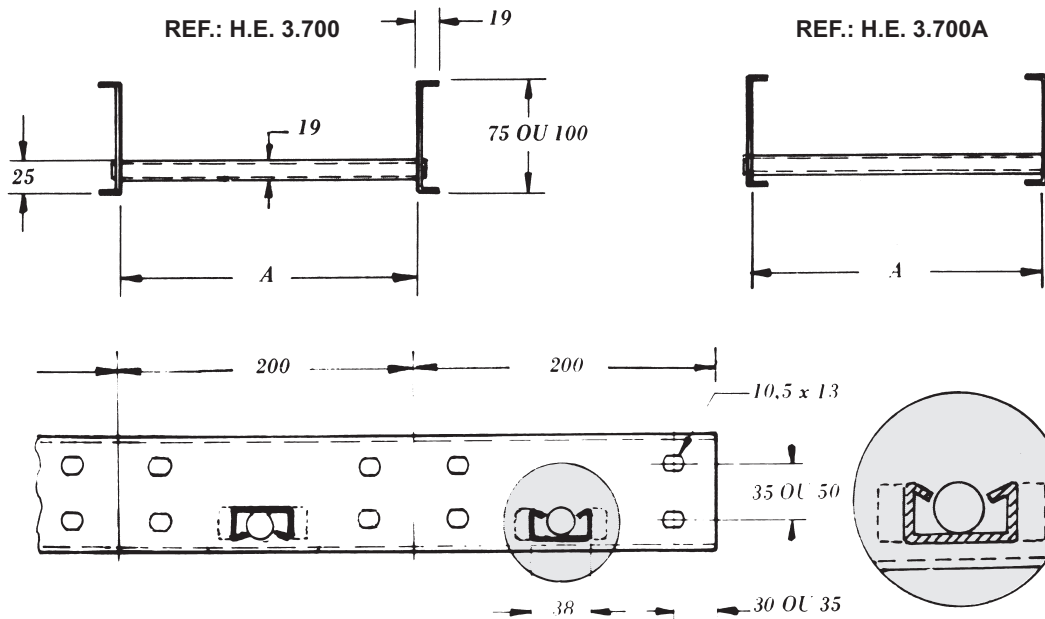
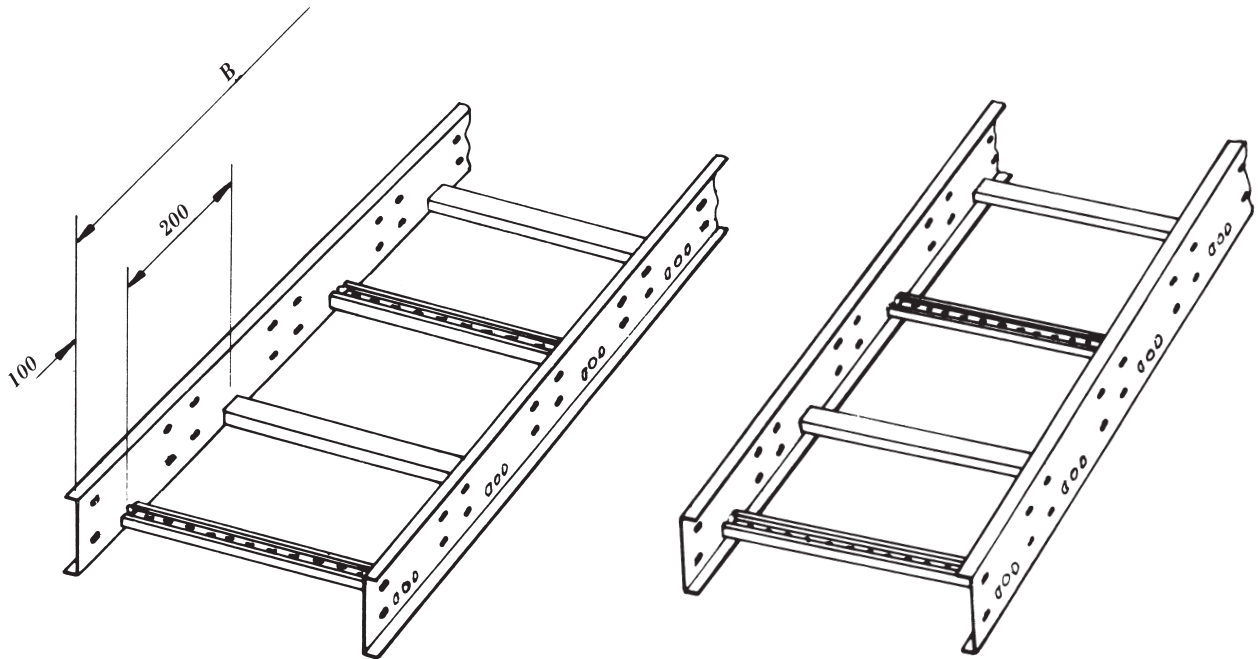
NOTE: The intermediate holes between crossbars allows the part sectioning in 200 mm moduli, if it is necessary to proceed measure, adjustments in the field, imperfect connection with other parts by means of normal splice plate. It also allows the fastening of different types of accessories, grounding connectors, conduits outlets supports, etc.
When ordered, we will be able to supply only with holes on the extremities.

LEITO SEMI-PESADO PARA CABOS

SEMI HEAVY TYPE CABLE TRAY

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TRECHOS RETOS
STRAIGHT SECTIONS



DIMENSÕES EM MM/DIMENSIONS IN MM									
A	200	300	400	500	600	700	800	1000	1200
B	1000	2000	3000	4000	5000	6000			

NOTA: A furação intermediária entre travessas permite o sectionamento da peça em módulos de 200 mm, caso seja necessário proceder a ajustes de medidas na obra, com perfeito acoplamento a outras peças através das junções normais. Possibilita também a fixação de diversos tipos de acessórios, bornes de aterramento, suportes para saída de eletrodutos, etc.

A pedido, poderemos fornecer somente com furação nas extremidades.

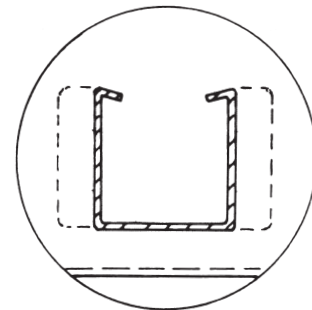
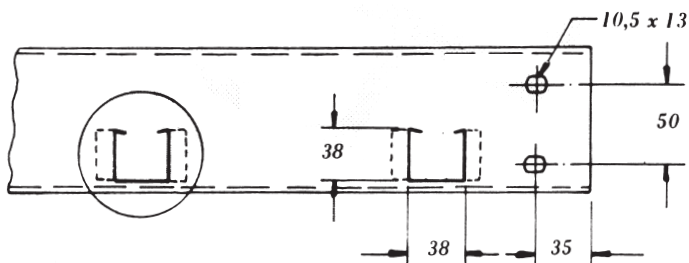
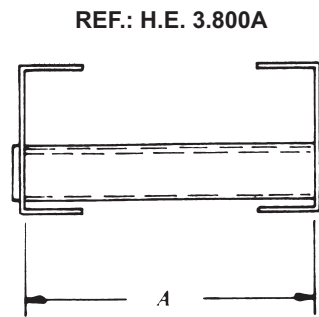
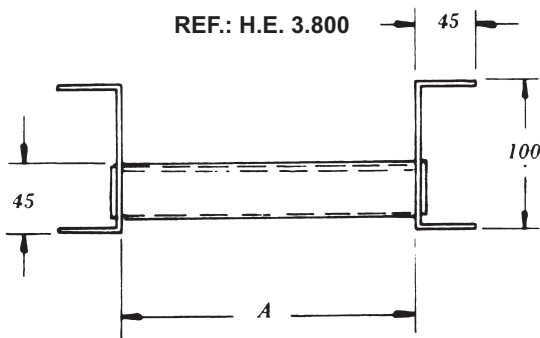
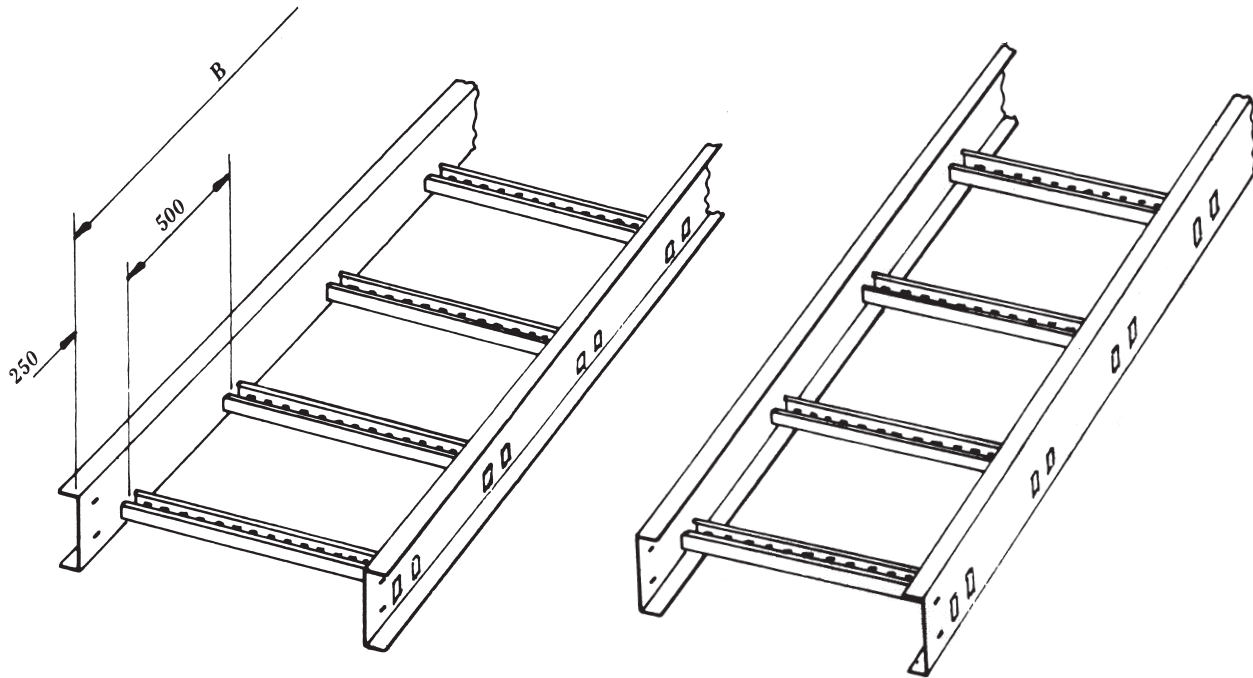
NOTE: The intermediate holes between crossbars allows the part sectioning in 200 mm moduli, if it is necessary to proceed measure, adjustments in the field, imperfect connection with other parts by means of normal splice plate. It also allows the fastening of different types of accessories, grounding connectors, conduits outlets supports, etc.

When ordered, we will be able to supply only with holes on the extremes.

LEITO PESADO PARA CABOS

HEAVY TYPE CABLE TRAY

TRECHOS RETOS
STRAIGHT SECTIONS



A pedido poderá ser fornecido com travessas a 250 mm

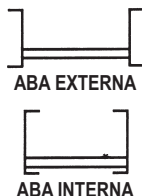
DIMENSÕES EM MM/DIMENSIONS IN MM

A	200	250	300	400	500	600	700	750	800	1000	1250	1500
B	1000			2000			3000			4000	5000	6000



CONEXÃO: OS MODELOS ABAIXO SERVEM PARA TODOS OS TIPOS DE LEITO.
 COMO ESPECIFICAR: EX: CURVA HORIZONTAL 90° P/ LEITO 3700
 ABA EXTERNA LARG. = 500 ABA = 100 RAIOS = 520

REF.: H.E.	TRECHO RETO PARA "X"
3000-3100-3300	60
3400-3500-3600-3700	100
3800	125



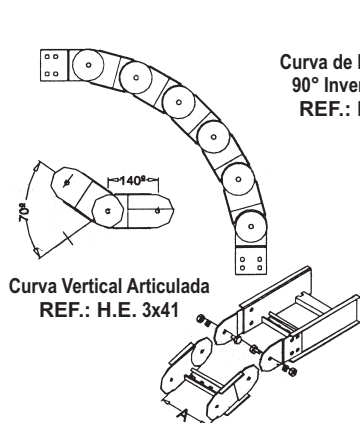
REF.: H.E. 3706 / 500 / 100 / 520



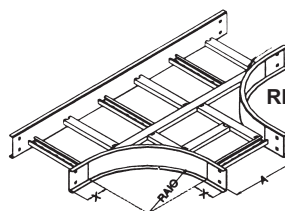
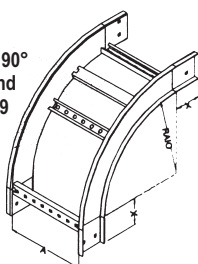
EXECUTAMOS RAIOS DE: 320-520-645-895
 PARA QUALQUER TIPO DE LEITO

DERIVAÇÕES: Se necessário utilizar leitos com abas voltadas p/ parte interna, acrescentar às referências a letra "A".
 Para especificar, substituir o "X" pelo segundo algarismo das referências de trecho reto. Ex: 3706 curva horiz. 90°

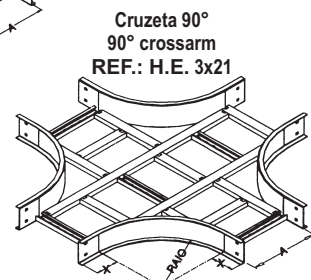
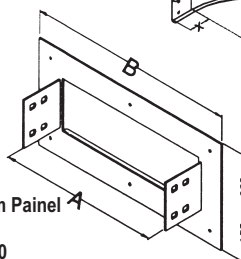
<p>Curva Horizontal Horizontal Bend</p>	FIGURAS FIGURES						
	Ângulo Angles	15°	30°	45°	60°	75°	90°
	Referências References	3x01	3x02	3x03	3x04	3x05	3x06
<p>Curva Vertical Externa External Vertical Bend</p>	FIGURAS FIGURES						
	Ângulo Angles	15°	30°	45°	60°	75°	90°
	Referências References	3x07	3x08	3x09	3x10	3x11	3x12
<p>Curva Vertical Interna Internal Vertical Bend</p>	FIGURAS FIGURES						
	Ângulo Angles	15°	30°	45°	60°	75°	90°
	Referências References	3x13	3x14	3x15	3x16	3x17	3x18



Curva de Inversão 90°
90° Inversion Bend
REF.: H.E. 3x19



Flange para Ligação em Painel
Box Conector
REF.: H.E. 3x40

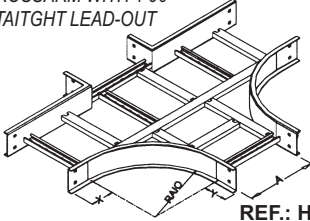


DERIVAÇÕES DE LEITO PARA CABOS

CABLE TRAY DERIVATIONS

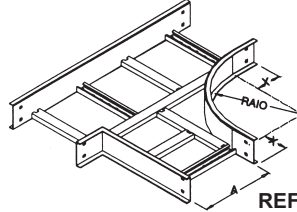


CRUZETA COM 1 SAÍDA RETA 90°
CROSSARM WITH 1 90°
STRAIGHT LEAD-OUT



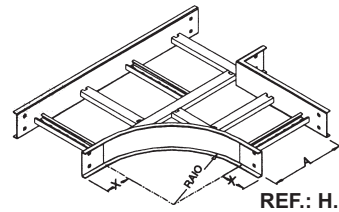
REF.: H.E. 3x22

JUNÇÃO À ESQUERDA 90°
90° LEFT-HAND JUNCTION



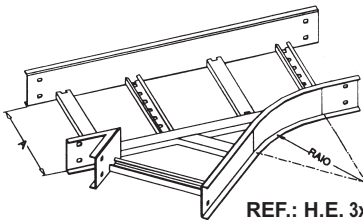
REF.: H.E. 3x24

JUNÇÃO À DIREITA 90°
90° RIGHT-HAND JUNCTION



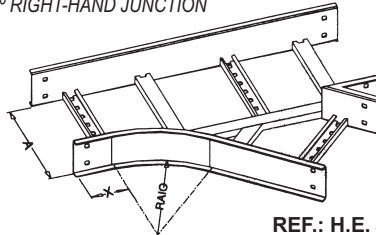
REF.: H.E. 3x23

JUNÇÃO À ESQUERDA 45°
45° LEFT-HAND JUNCTION



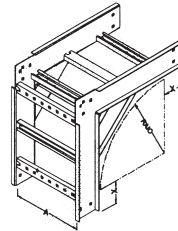
REF.: H.E. 3x26

JUNÇÃO À DIREITA 45°
45° RIGHT-HAND JUNCTION



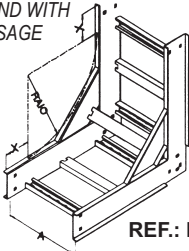
REF.: H.E. 3x25

CURVA 90° COM PASSAGEM RETA DESCIDA
90° DESCENT BEND WITH STRAIGHT PASSAGE



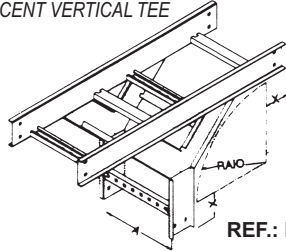
REF.: H.E. 3x28

CURVA 90° COM PASSAGEM RETA SUBIDA
90° ASCENT BEND WITH
STRAIGHT PASSAGE



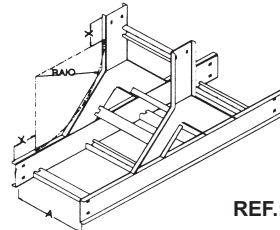
REF.: H.E. 3x27

TÊ VERTICAL DESCIDA 90°
90° DESCENT VERTICAL TEE



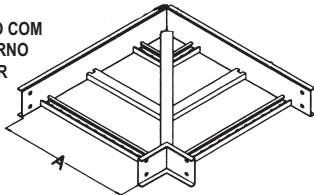
REF.: H.E. 3x30

TÊ VERTICAL SUBIDA 90°
90° ASCENT VERTICAL TEE



REF.: H.E. 3x29

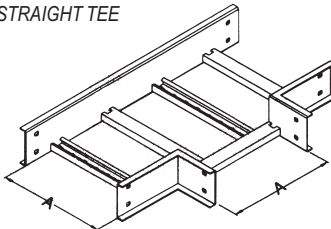
COTOVELO RETO 90°
90° STRAIGHT ELBOW



REF.: H.E. 3x31

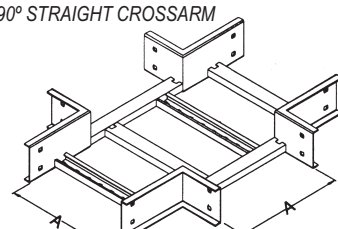
**COTOVELO COM
RAIO INTERNO**
REF.: 3X31R

TÊ RETO 90°
90° STRAIGHT TEE



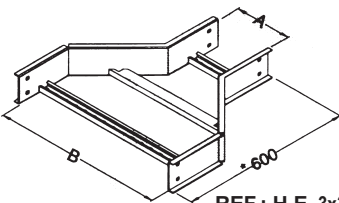
REF.: H.E. 3x32

CRUZETA RETA 90°
90° STRAIGHT CROSSARM



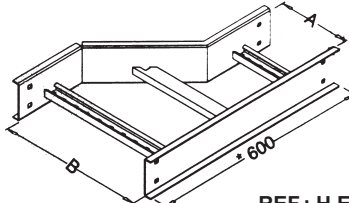
REF.: H.E. 3x33

REDUÇÃO CONCÊNTRICA
ECCENTRIC REDUCTION



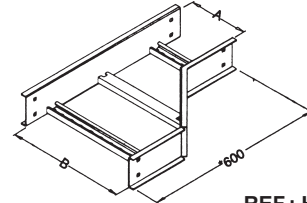
REF.: H.E. 3x34

REDUÇÃO À DIREITA
RIGHT-HAND REDUCER



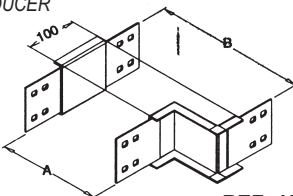
REF.: H.E. 3x36

REDUÇÃO À ESQUERDA
LEFT-HAND REDUCER



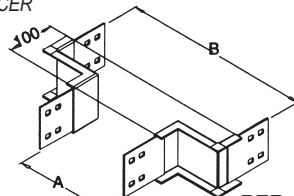
REF.: H.E. 3x35

REDUÇÃO RETA EXCÊNTRICA
ECCENTRIC STRAIGHT
REDUCER



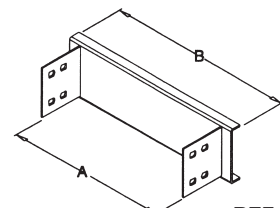
REF.: H.E. 3x37

REDUÇÃO RETA CONCÊNTRICA
CONCENTRIC STRAIGHT
REDUCER



REF.: H.E. 3x38

TERMINAL
END PLATE

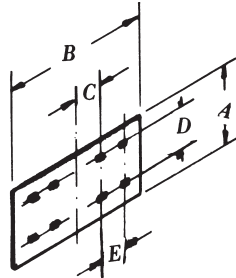


REF.: H.E. 3x39



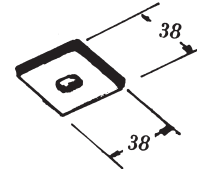
JUNÇÕES SPLICE PLATES

JUNÇÃO SIMPLES
SINGLE SPLICE PLATE



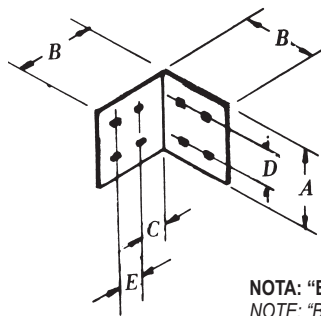
ABA/BEAM 75					ABA/BEAM 100				
REF.: H.E. 01					REF.: H.E. 02				
A	B	C	D	E	A	B	C	D	E
67	150	30	35	25	90	160	35	50	25

JUNÇÃO PLANA 1 FURO
ONE HOLE PLATE CONNECTOR



REF.: H.E. 1.101

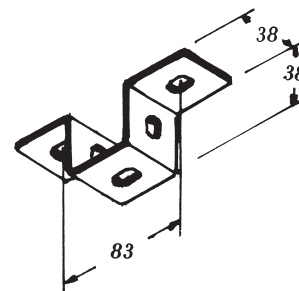
JUNÇÃO RETA
DIRECTIONAL CHANGE SPLICE PLATE



NOTA: "B" medida interna
NOTE: "B" internal measure

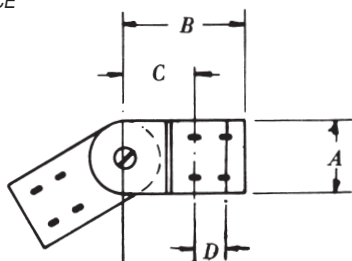
ABA/BEAM 75					ABA/BEAM 100				
REF.: H.E. 05					REF.: H.E. 06				
A	B	C	D	E	A	B	C	D	E
67	75	30	35	25	90	80	35	50	25

JUNÇÃO ANGULAR DUPLA ALTA
U-SUPPORT FOR 38 DEEP CHANNEL



REF.: H.E. 1.224

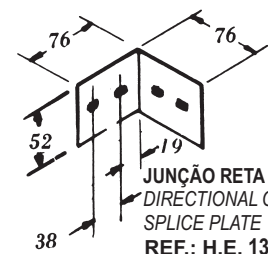
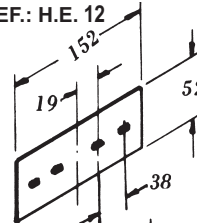
JUNÇÃO ARTICULADA
FLEXIBLE SPLICE



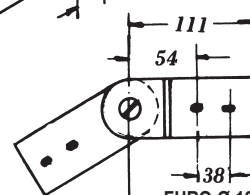
FURO Ø 13 mm (parafuso, porca e arruela inclusos)
HOLE Ø 13 mm (screw, nut and washer included)

ABA/BEAM 75				ABA/BEAM 100			
REF.: H.E. 10				REF.: H.E. 11			
A	B	C	D	A	B	C	D
67	120	75	25	90	140	95	25

JUNÇÃO SIMPLES
SINGLE SPLICE PLATE
REF.: H.E. 12



JUNÇÃO RETA
DIRECTIONAL CHANGE
SPLICE PLATE
REF.: H.E. 13



JUNÇÃO ARTICULADA
FLEXIBLE SPLICE
REF.: H.E. 14

FURO Ø 10 mm (parafuso, porca e arruela inclusos)
HOLE Ø 10 mm (screw, nut and washer included)

NOTA: Junções para Leito REF.: H.E. 3400
NOTE: REF.: H.E. Cable Tray Splice Plate

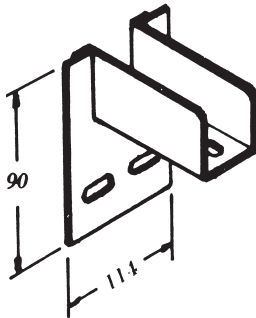
acessórios DE LEITOS PARA CABOS

CABLE TRAY ACCESSORIES



SAÍDAS OUTLEST

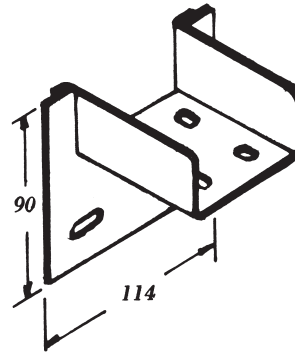
**SAIDA SUPERIOR DE LEITO PARA
PERFILADO 38x38**
UPPER OUTLET - CABLE TRAY FOR
38x38 CHANNEL



Para Todos os Tipos de Leito
For All Types of Cable Tray

REF.: H.E. 36

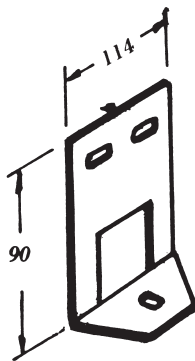
**SAIDA SUPERIOR DE LEITO PARA
PERFILADO 38x76**
UPPER OUTLET - CABLE TRAY FOR
38x76 CHANNEL



Para Todos os Tipos de Leito
For All Types of Cable Tray

REF.: H.E. 37

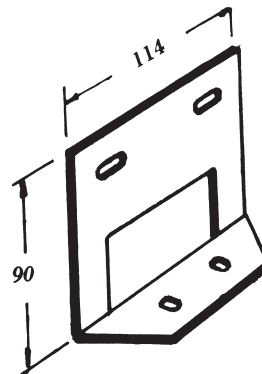
**SAIDA INFERIOR DE LEITO PARA
PERFILADO 38x38**
LOWER OUTLET - CABLE TRAY FOR
38x38 CHANNEL



Para Todos os Tipos de Leito
For All Types of Cable Tray

REF.: H.E. 38

**SAIDA INFERIOR DE LEITO PARA
PERFILADO 38x76**
LOWER OUTLET - CABLE TRAY FOR
38x76 CHANNEL

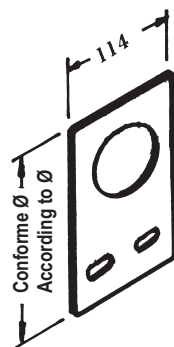


Para Todos os Tipos de Leito
For All Types of Cable Tray

REF.: H.E. 39

**SAIDA HORIZONTAL SUPERIOR OU
INFERIOR DE LEITO PARA ELETRODUTO
DE Ø 3/4" A Ø 1 1/2"**

UPPER OR LOWER HORIZONTAL
OUTLET-CABLE TRAY FOR
Ø 3/4" A Ø 1 1/2" CONDUITS

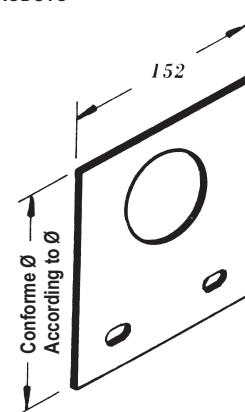


Para todos os tipos de Leito
For all types of Cable Tray
Especificar a Referência com o Ø
Specify the Reference with the Ø

REF.: H.E. 40

**SAIDA HORIZONTAL SUPERIOR OU
INFERIOR DE LEITO PARA ELETRODUTO
DE Ø 2" A Ø 4"**

UPPER OR LOWER HORIZONTAL
OUTLET-CABLE TRAY FOR
Ø 2" A Ø 4" CONDUITS



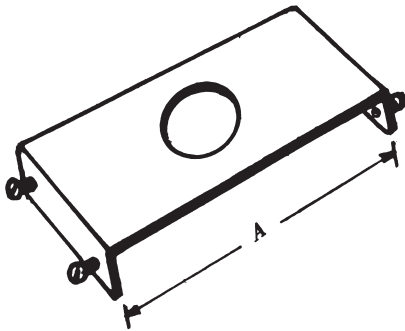
Para todos os tipos de Leito
For all types of Cable Tray
Especificar a Referência com o Ø
Specify the Reference with the Ø

REF.: H.E. 41



SAÍDAS
OUTLEST

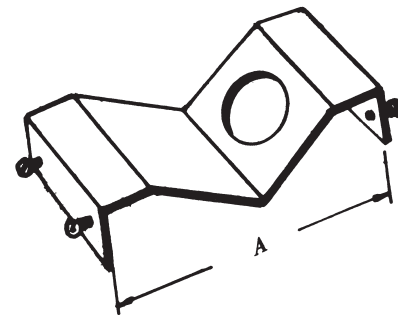
SAÍDA DE FUNDO DE LEITO PARA ELETRODUTO DE Ø 1½" A Ø 4"
BOTTOM OUTLET - CABLE TRAY FOR Ø 1½" TO Ø 4" CONDUITS



REF. H.E.	LEITO CABLE TRAY REF.	A
49	3400	232
50	3700	240
51	3800	540

Especificar a Referencia com o Ø
Specify the Reference with the Ø

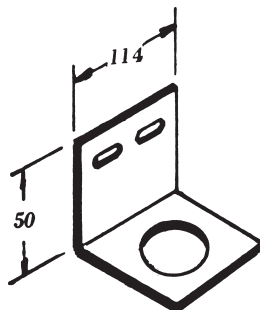
SAÍDA EM 45° DE FUNDO DE LEITO PARA ELETRODUTO DE Ø 1½" A Ø 2½"
PARA REF. 52 E 53, E DE Ø 1½" A Ø 4" PARA REF. 54.
45° BOTTOM OUTLET - CABLE TRAY FOR Ø 1½" TO Ø 2½" FOR REF. 52 AND 53, AND Ø 1½" TO Ø 4" FOR REF. 54.



REF. H.E.	LEITO CABLE TRAY REF.	A
52	3400	232
53	3700	240
54	3800	540

Especificar a Referencia com o Ø
Specify the Reference with the Ø

SAÍDA VERTICAL INFERIOR OU SUPERIOR DE LEITO PARA ELETRODUTO DE Ø ¾" A Ø 1½"
UPPER OR LOWER VERTICAL OUTLET - CABLE TRAY FOR Ø ¾" TO Ø 1½" CONDUITS

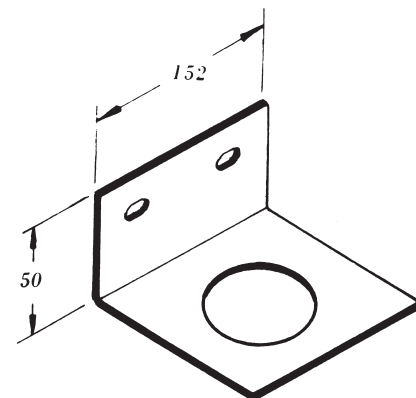


Para todos os tipos de Leito
For all types of Cable Tray

Especificar a Referencia com o Ø
Specify the Reference with the Ø

REF.: H.E. 42

SAÍDA VERTICAL INFERIOR OU SUPERIOR DE LEITO PARA ELETRODUTO DE Ø 2" A Ø 4"
UPPER OR LOWER VERTICAL OUTLET - CABLE TRAY FOR Ø 2" TO Ø 4" CONDUITS



Para todos os tipos de Leito
For all types of Cable Tray

Especificar a Referencia com o Ø
Specify the Reference with the Ø

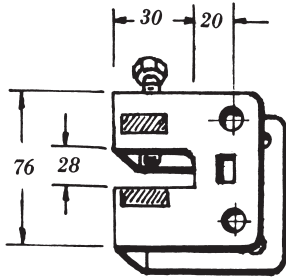
REF.: H.E. 43

NOTA: (NOTE:) Ø ¾" NOMINAL = Ø 26,75 mm Ø 1½" NOMINAL = Ø 48,25 mm Ø 2" NOMINAL = Ø 60,00 mm Ø 2½" NOMINAL = Ø 75,50 mm Ø 4" NOMINAL = Ø 113,50 mm



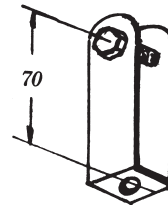
TAMPAS E FIXADORES COVER PLATES AND BEAM CLAMPS

FIXADOR GRANDE
LARGE BEAM CLAMP



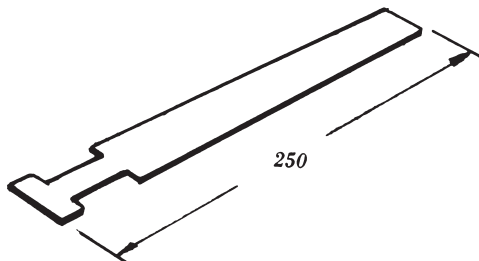
REF.: H.E. 1411

BALANCE PARA FIXADOR GRANDE
SWING CONNECTOR FOR LARGE BEAM CLAMP



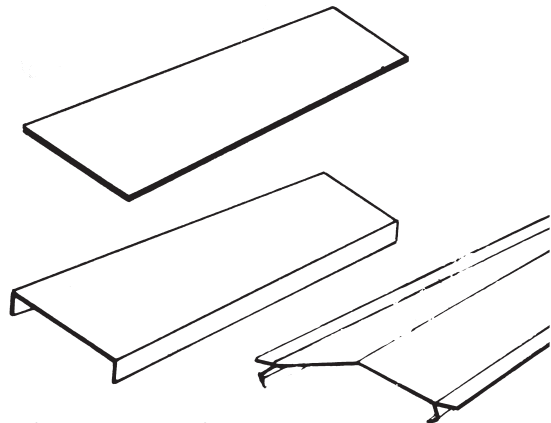
REF.: H.E. 1412

PRESILHA PARA FIXADOR GRANDE
ANCHOR CLIP FOR LARGE BEAM CLAMP



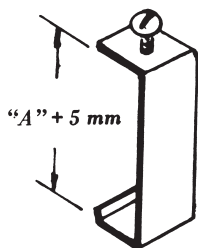
REF.: H.E. 1409

TAMPA PARA LEITO PLANA LISA
COVER PLATE FOR CABLE TRAY



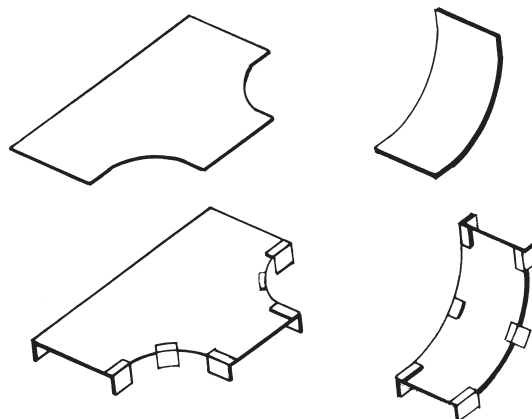
Para especificar mencionar a Ref. completa do leito
vide detalhe de montagem na pag. 66
To specify mention the complete Cable Tray Ref.
See assembly details page 66

PREDENDOR DE TAMPA
COVER PLATE BEAM CLAMP



REF. H.E.	"A" ABA BEAM	LEITO CABLE TRAY REF. H.E.
69	60	3400
70	75	3500
		3600
		3700
71	100	3500
		3600
		3700
72	100	3800

TAMPA PARA DERIVAÇÕES DE LEITO
COVER PLATE FOR CABLE TRAY BRANCHES

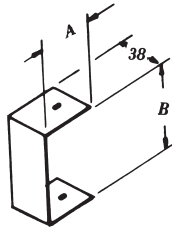


Para especificar mencionar a Ref. completa do leito
To specify mention the complete Cable Tray Ref.



SUPORTES, GRAPAS E PROLONGADOR SUPPORT, SADDLE-TYPE WASHERS AND HANGER ROD EXTENSION

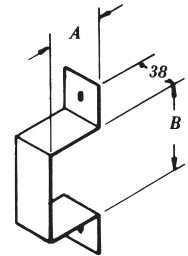
SUPORTE PARA SUSPENSÃO HANGER CLIP



Nota: medidas internas
Note: internal measures

ABA/BEAM							
60 x 20		75 x 19		100 x 19		100 x 45	
REF.: H.E. 15	REF.: H.E. 16	REF.: H.E. 17	REF.: H.E. 18				
A	B	A	B	A	B	A	B
45	61	44	77	44	102	69	102

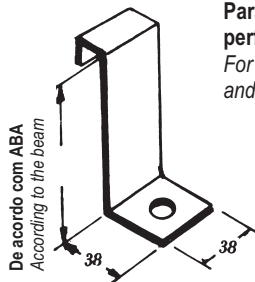
SUPORTE FIXADOR LATERAL SIDE FASTENING SUPPORT



Nota: medidas internas
Note: internal measures

ABA/BEAM							
60 x 20		75 x 19		100 x 19		100 x 45	
REF.: H.E. 19	REF.: H.E. 20	REF.: H.E. 21	REF.: H.E. 22				
A	B	A	B	A	B	A	B
19	61	18	77	18	102	44	102

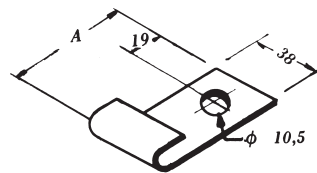
SUPORTE SIMPLES SINGLE HANGER CLIP



Para leitos com aba interna e fixação com perfilados.
For use with internal beams cable tray, and with channel fastening.

REF. H.E.	ABA BEAM
26	60 x 20
27	75 x 19
28	100 x 19
29	100 x 45

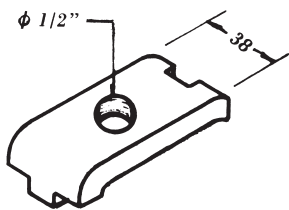
GRAPA GUIA GUIDE SADDLE-TYPE WASHER



Nota: mantém o leito para cabos alinhado, permitindo o movimento de dilatação
Note: Keeps the cable tray in line, permitting the elongation longitudinal movement.

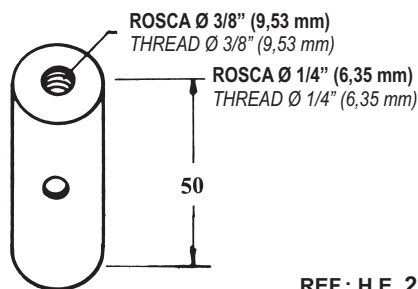
LEITO CABLE TRAY REF. H.E.	A	Usar REF. Use
3400	60	31
3500		
3600		
3700	85	32
3800		

GRAPA FIXA SINGLE BEAM CLAMP



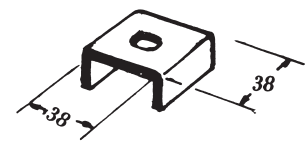
REF.: H.E. 35

PROLONGADOR DE SUSPENSÃO HANGER ROD EXTENSION



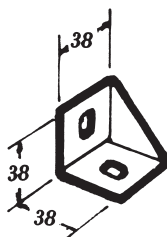
REF.: H.E. 25

ADAPTADOR DE SEGURANÇA SADDLE TYPE WASHER



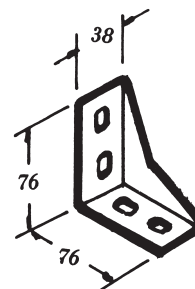
REF.: H.E. 1.229

CANTONEIRA REFORÇADA COM 2 FUROS REINFORCED TWO HOLE ANGLE CONNECTOR



REF.: H.E. 1.220

CANTONEIRA REFORÇADA COM 4 FUROS REINFORCED FOUR HOLE ANGLE CONNECTOR



REF.: H.E. 1.203

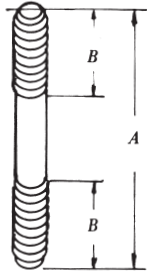
acessórios DE LEITOS PARA CABOS

CABLE TRAY ACCESSORIES

VERGALHÕES, CANTONEIRAS E ADAPTADOR ROUND IRON BARS, ANGLE CONNECTORS AND SADDLE WASHER



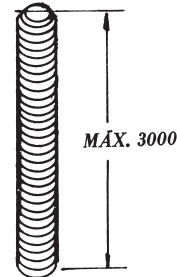
VERGALHÃO COM ROSCA NAS PONTAS (Ø 1/4" - Ø 3/8" - Ø 1/2")
RODS WITH THREADS AT ENDS
(Ø 1/4" - Ø 3/8" - Ø 1/2")
REF.: Ver table/See table



REF.: H.E.	A	B
1416	100	40
1417	200	40
1418	300	100
1419	400	100
1420	500	100
1421	600	100
1422	700	100
1423	800	100
1424	900	100
1425	1000	100
1426	1100	100
1427	1200	100

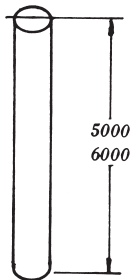
NOTA: Especificar a referência e o Ø
NOTE: Specify the reference and Ø
Disponíveis em outros comprimentos
Other lengths available

VERGALHÃO COM ROSCA TOTAL Ø 3/8" (9,53 mm)
Ø 3/8" (9,53 mm) CONTINUOUS THREADED ROD



REF.: H.E. 1.431

VERGALHÃO SEM ROSCA Ø 3/8" (9,53 mm)
Ø 3/8" (9,53 mm) PAIN ROD



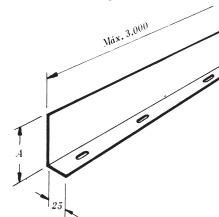
REF.: H.E. 1.432

BUCHA DE NYLON
NYLON CINCH ANCHOR
FOR CONCRETE INSERT



S-6 - REF. 2711
S-8 - REF. 2712
S-10 - REF. 2713
S-12 - REF. 2714

SEPTO DIVISOR
BARRIER STRIP



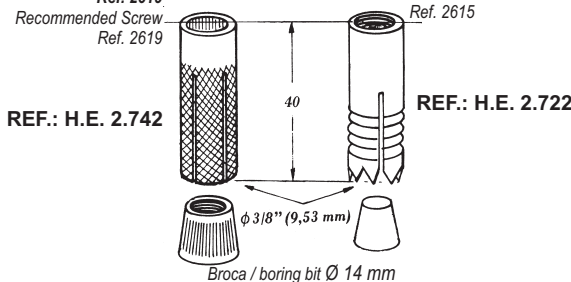
Especificar Ref. com "A"
Specify Ref. with "A"

REF. H.E.	A	ABA BEAM	LEITO TRAY
75	40	60	3400
	60	75	3500
	85	100	3600
	50	75	3700
75	75	100	3600
	55	100	3700
55	75	100	3700
	55	100	3800

CHUMBADOR COM ROSCA INTERNA
IRON CINCH ANCHOR FOR CONCRETE INSERT WITH
INTERNAL THREAD

Parafuso Recomendado
Ref. 2619
Recommended Screw
Ref. 2619

Parafuso Recomendado
Ref. 2615
Recommended Screw
Ref. 2615

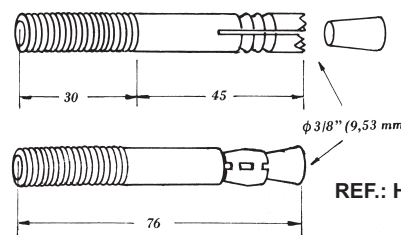


REF.: H.E. 2.742

REF.: H.E. 2.722

Broca / boring bit Ø 14 mm

CHUMBADOR COM ROSCA EXTERNA
IRON CINCH ANCHOR FOR CONCRETE INSERT WITH
EXTERNAL THREAD

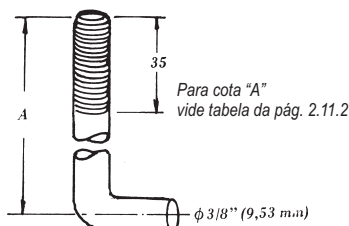


REF.: H.E. 2.731

REF.: H.E. 2.752

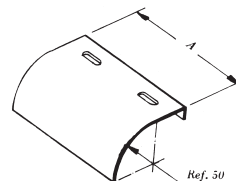
Broca / boring bit Ø 9,53 mm

CHUMBADOR SIMPLES - Ø 3/8" (9,53 mm)
SINGLE ANCHOR BOLT Ø 3/8" (9,53 mm)



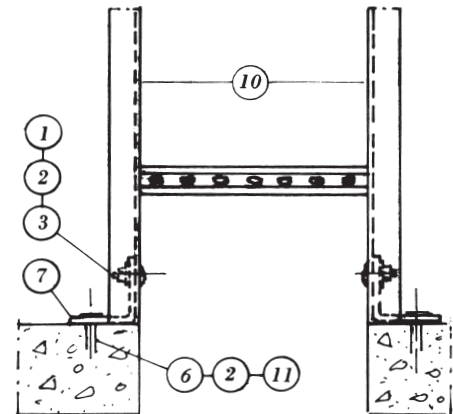
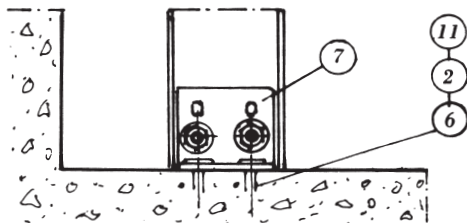
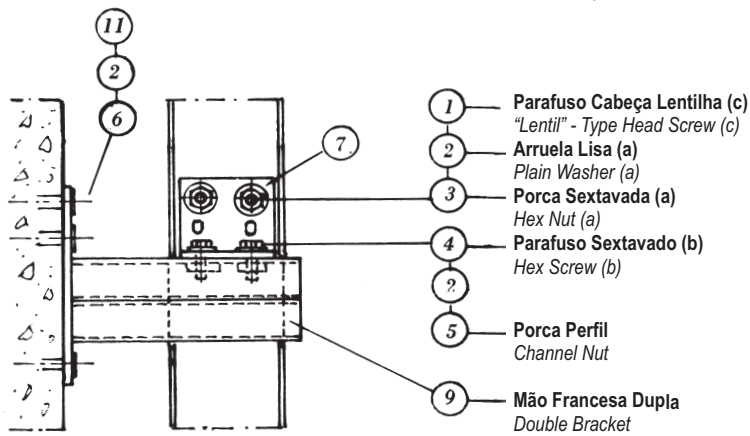
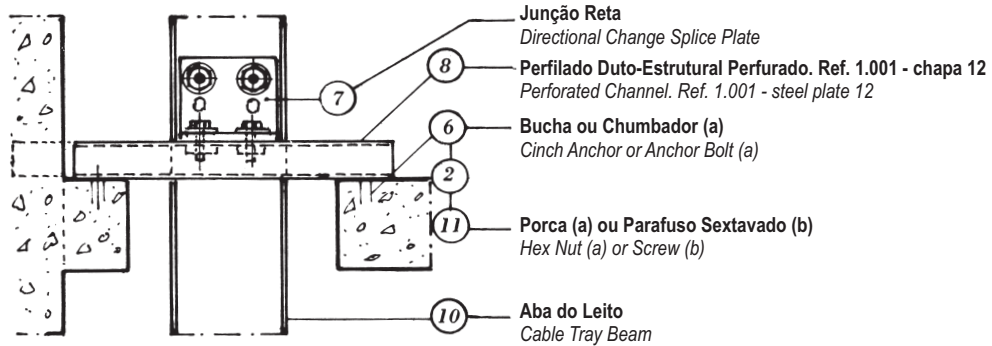
REF.: H.E. 2715

CHUMBADOR SIMPLES - Ø 3/8" (9,53 mm)
SINGLE ANCHOR BOLT Ø 3/8" (9,53 mm)

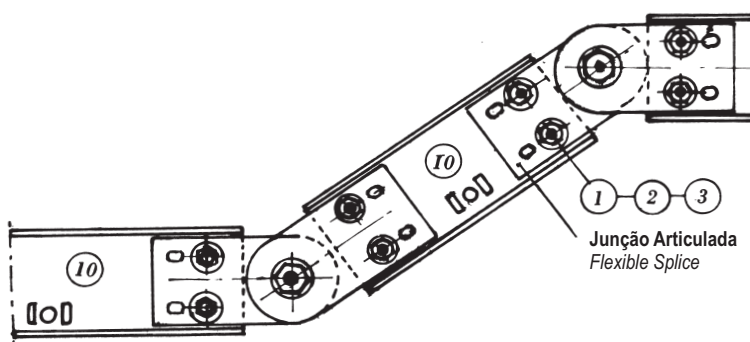


Especificar Ref. com "A" mencionando
a posição da aba do leito
Specify Ref. with "A" mentioning
the position of cable tray beam.

REF. H.E.	LEITO/TRAY REF.
62	3400
	3600
	3700
63	3500
64	3800



Utilizada para casos especiais de desníveis no plano horizontal dos Leitos, em substituição às curvas verticais.
To be used in cases of horizontal differences of level, in replacement of vertical bends



- (a) - Ø 3/8" (9,53 mm)
(b) - Ø 3/8" x 1 (9,53 x 25,4 mm)
(c) - Ø 3/8" x 3/4" (9,53 x 19,05 mm)

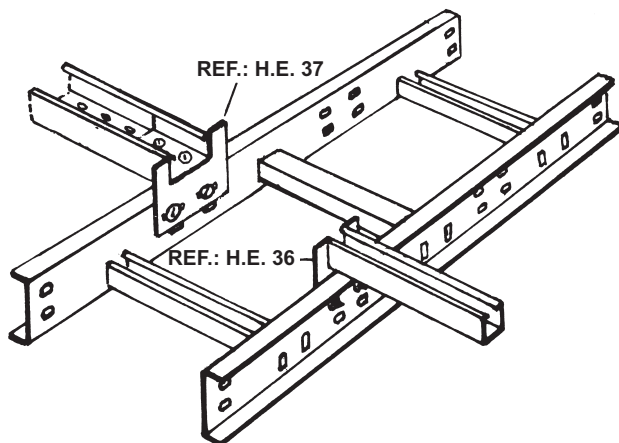
DIAGRAMAS DE MONTAGEM

ASSEMBLY DIAGRAMS

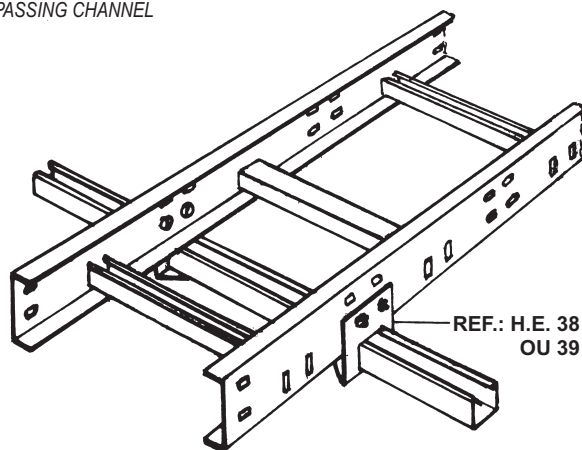


SAÍDAS OUTLEST

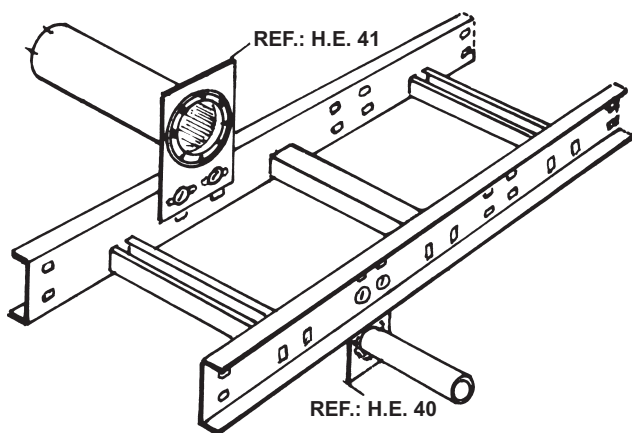
SAIDA SUPERIOR DO LEITO PARA PERFILADO
38 X 38 OU 38 X 76
UPPER OUTLET - CABLE TRAY FOR
38 X 38 OR 38 X 76 CHANNEL



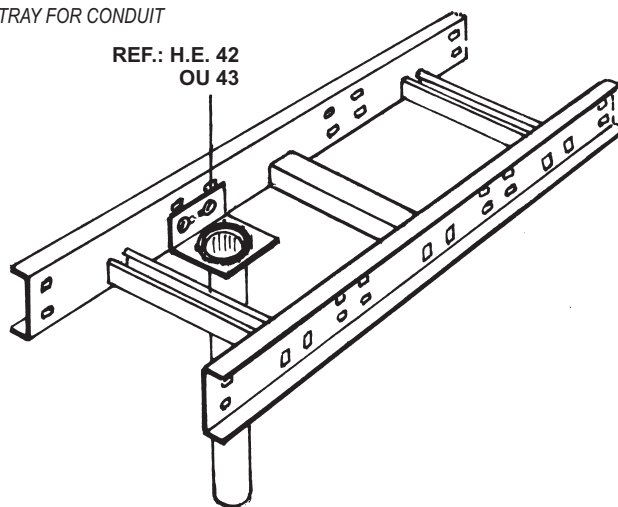
SAIDA INFERIOR DO LEITO PARA
PERFILADO PASSANTE
LOWER OUTLET-CABLE TRAY FOR
PASSING CHANNEL



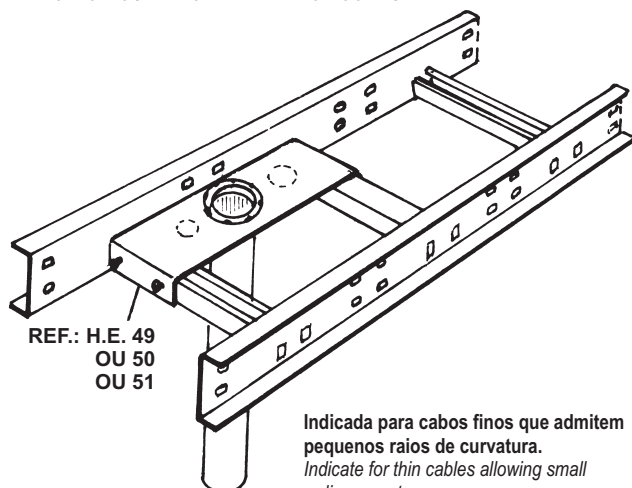
SAIDA HORIZONTAL SUPERIOR OU INFERIOR DO
LEITO PARA ELETRODUTO.
UPPER OR LOWER HORIZONTAL OUTLET-CABLE
TRAY FOR CONDUIT



SAIDA VERTICAL OU SUPERIOR DO LEITO
PARA ELETRODUTO
UPPER OR LOWER VERTICAL OUTLET-CABLE
TRAY FOR CONDUIT

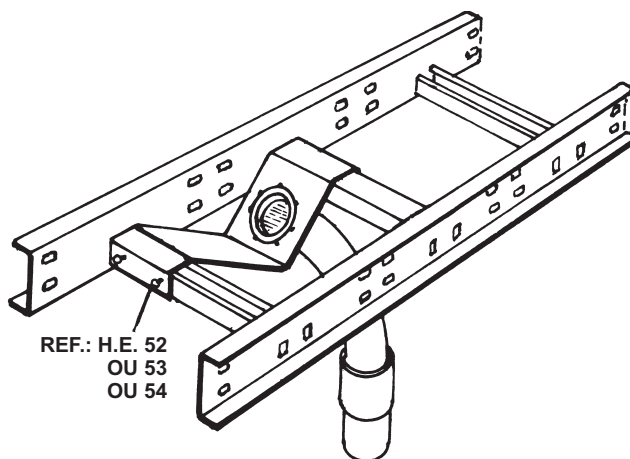


SAIDA DO FUNDO DO LEITO PARA ELETRODUTO
BOTTOM OUTLET-CABLE TRAY FOR CONDUIT



Indicada para cabos finos que admitem
pequenos raios de curvatura.
Indicate for thin cables allowing small
radius curvature.

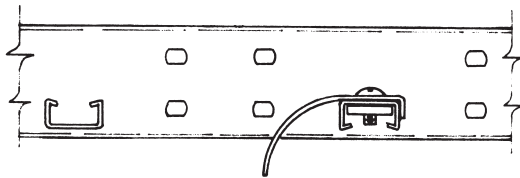
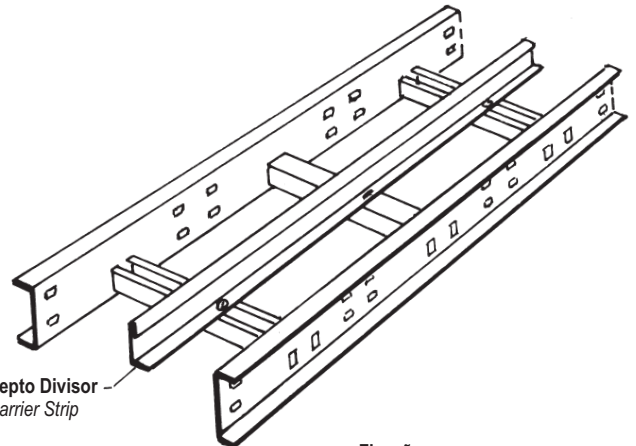
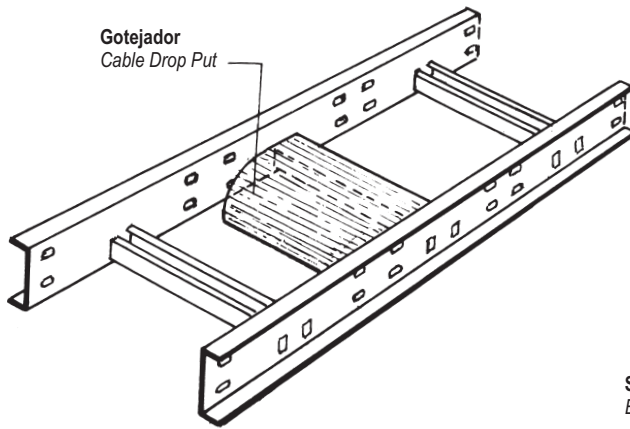
SAIDA EM 45° DE FUNDO DE LEITO PARA ELETRODUTO
45° BOTTOM OUTLET-CABLE TRAY FOR CONDUIT





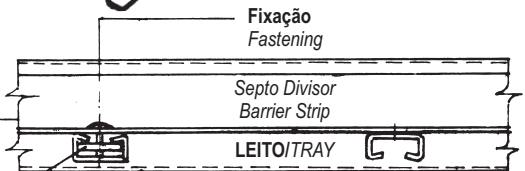
GOTEJADOR, SEPTO E TAMPAS

CABLE DROP OUT BARRIER STRIP AND CLOSURE STRIP

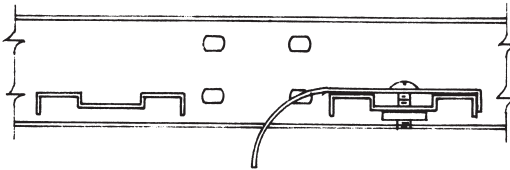


Para Leitões
For Cable Trays

REF.: H.E. 3.400
REF.: H.E. 3.600
REF.: H.E. 3.700
REF.: H.E. 3.800

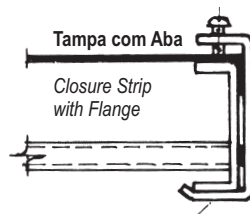
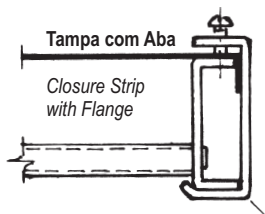
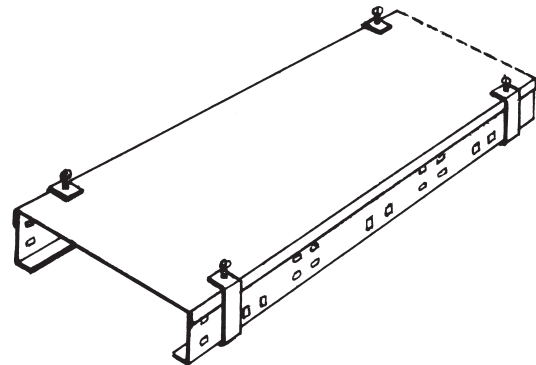
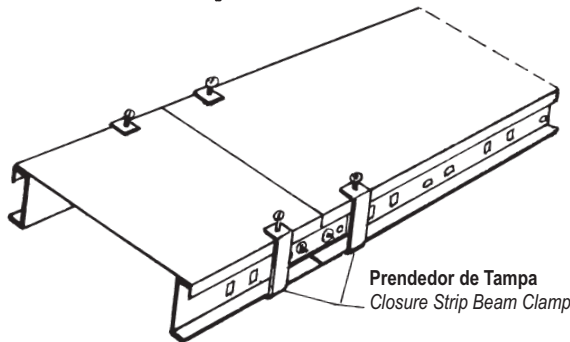


Parafuso Cabeça lenticular Ø 1/4" x 5/8"
(6,35 x 15,9 mm) e Porca perfil de 1/4" (6,35 mm)
Lentil-Type Head Screw and Channel nut Ø 1/4" (6,35 mm)

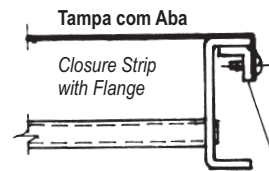


Para Leitões
For Cable Trays

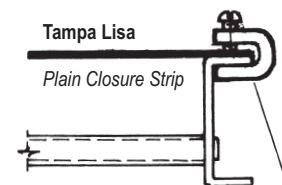
REF.: H.E.: 3.500



Prendedor de Tampa
Closure Strip Beam Clamp
Fixação Normal
Normal Fastening



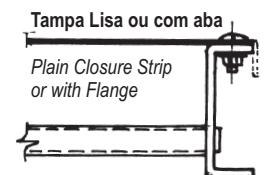
Cantoneira 15 x 15 com furos rosqueados
15 x 15 Angle Frame With Threaded Holes
Fixação Especial 1
Special Fastening 1

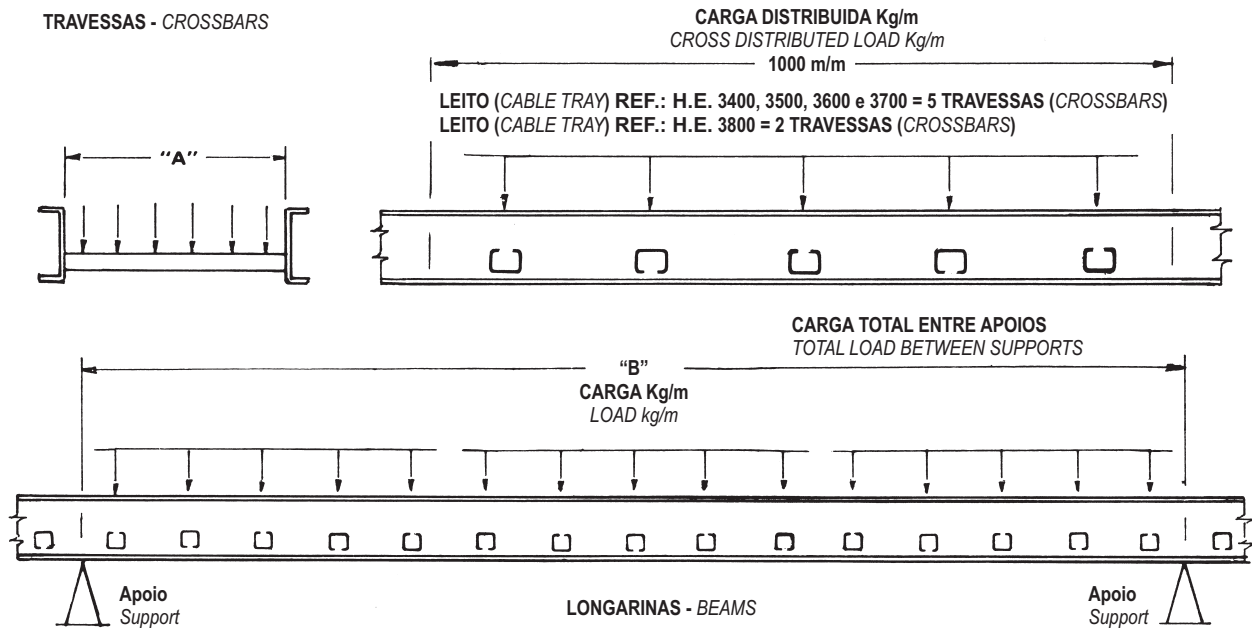


Com grampo
With clamp
REF.: H.E. 1.410
Fixação Especial 2
Special Fastening 2

NOTA: A tampa lisa ou com aba é mais adequada para ambientes internos; para uso externo, sujeito a intempéries, consultar nosso departamento técnico.
NOTE: Closure strip with flange or plain, are indicated for internal use; for external use, consult or technical department.

Fixação Especial 3 - Com a aba do Leito perfurado (Sob Consulta)
Special Fastening 3 - With perforated beam Cable Tray (under consult)





NOTA:-

Na elaboração de nossas tabelas, preocupamo-nos em oferecer ao projetista, dados relativos ao comportamento das travessas e das longarinas dos leitos, em função das distâncias entre apoios e as cargas adicionadas, com leitura direta dos dados em tabelas distintas. Nas tabelas de travessas, os dados referem-se a cargas máximas aconselháveis, distribuídas ao longo das travessas em um trecho de 1000 mm de comprimento.

Nas tabelas de longarina, os dados referem-se a carga máximas aconselháveis, distribuídas ao longo de trechos de 1000 a 6000mm, com variação de 500mm

- a) Largura necessária em função do número e diâmetro dos cabos;
- b) Cargas a serem aplicadas;
- c) Distâncias entre apoios;

Tais dados, variam de distância, de acordo com a necessidade da obra: - a distância entre apoios, poderá ser prioritária, em funções dos pontos disponíveis; a carga, eventualmente, poderá ser também o dado mais importante, como ainda, a largura. Assim, oferecemos as 8 tabelas de cargas seguintes, como todos os tipos de leitos para cabos de nossa linha normal.

Caso sua necessidade não se enquadre em nossos tipos normais, consulte nosso departamento técnico.

NOTE:-

When we elaborate our table, we are worried with ourselves in order to offer to the projector, data concerning the performance of the crossbars and the beams of the cable tray, according to the distance between supports and added loads, with direct reading of the data in distinct table. Concerning the crossbars, the data refer to the recommended maximum loads, distributed along the crossbars in a space of 1.000 mm long.

Concerning the beams, the data refer to the recommended maximum loads, distributed along sections between 1.000 mm to 6.000 mm, with variations equivalent to 500 mm. According to the selection of the cable tray type, the data below should be taken in consideration:

- a) Necessary width according to the number and diameter of the cables;
- b) Loads to be applied
- c) Distance between supports.

The above data change its importance, according to the field requirements: the distance between supports, can be more important, according to the available support points; the load, eventually, can be the most important data, as well as the width. Kind of cable trays included in our standard types.

If your requirements, do not fit to our standard types, please consult our technical department.

ECONÔMICO ECONOMICAL TYPE

REF.: H.E. 3.400
ABA/BEAM 60

Travessas - Crossbars	
"A" Larguras Widths	Cargas Loads Kg/m
200	320
300	220
400	140
500	100
600	70
700	50
800	30

Longarinas - Beams		
"B" Comprim. Length	Cargas Loads Kg/m	Cargas Total Load
1000	580	580
1500	300	450
2000	180	360
2500	95	237
3000	55	165
3500	32	112
4000	15	60
4500	-	-
5000	-	-
5500	-	-
6000	-	-

LEVE LIGHT TYPE

REF.: H.E. 3.500
ABA/BEAM 75

Travessas - Crossbars	
"A" Larguras Widths	Cargas Loads Kg/m
200	383
300	170
400	136
500	111
600	85
700	68
800	51

Longarinas - Beams		
"B" Comprim. Length	Cargas Loads Kg/m	Cargas Total Load
1000	695	695
1500	340	510
2000	205	410
2500	116	290
3000	70	210
3500	52	182
4000	40	160
4500	32	144
5000	25	125
5500	-	-
6000	-	-



GOTEJADOR, SEPTO E TAMPAS CABLE DROP OUT BARRIER STRIP AND CLOSURE STRIP

LEVE
LIGHT TYPE

REF.: H.E. 3500
ABA/BEAM 100

Travessas - Crossbars	
"A" Larguras Widths	Cargas Loads Kg/m
200	383
300	170
400	136
500	111
600	85
700	68
800	55

Longarinas - Beams		
"B" Comprim. Length	Cargas Loads Kg/m	Cargas Total Load
1000	-	-
1500	673	1009
2000	441	882
2500	270	675
3000	189	567
3500	135	472
4000	104	416
4500	81	364
5000	63	315
5500	50	275
6000	36	216

MÉDIO
MEDIUM TYPE

REF.: H.E. 3600
ABA/BEAM 75

Travessas - Crossbars	
"A" Larguras Widths	Cargas Loads Kg/m
200	450
300	200
400	160
500	130
600	100
700	80
800	65

Longarinas - Beams		
"B" Comprim. Length	Cargas Loads Kg/m	Cargas Total Load
1000	-	-
1500	596	894
2000	350	700
2500	225	562
3000	160	480
3500	115	402
4000	85	340
4500	65	292
5000	50	250
5500	40	220
6000	-	-

MÉDIO
MEDIUM TYPE

REF.: H.E. 3600
ABA/BEAM 100

Travessas - Crossbars	
"A" Larguras Widths	Cargas Loads Kg/m
200	450
300	200
400	160
500	130
600	100
700	80
800	65

Longarinas - Beams		
"B" Comprim. Length	Cargas Loads Kg/m	Cargas Total Load
1000	-	-
1500	-	-
2000	735	1470
2500	450	1125
3000	315	945
3500	225	787
4000	173	692
4500	135	607
5000	105	525
5500	83	456
6000	60	360

SEMI PESADO
SEMI HEAVY TYPE

REF.: H.E. 3000 / 3700 /
3100
ABA/BEAM 75

Travessas - Crossbars	
"A" Larguras Widths	Cargas Loads Kg/m
200	1320
300	1115
400	805
500	650
600	500
700	350
800	310
1000	175
1200	125

Longarinas - Beams		
"B" Comprim. Length	Cargas Loads Kg/m	Cargas Total Load
1000	-	-
1500	596	894
2000	350	700
2500	225	562
3000	160	480
3500	115	407
4000	85	340
4500	65	292
5000	50	250
5500	40	220
6000	-	-

SEMI PESADO
SEMI HEAVY TYPE

REF.: H.E. 3000 / 3700 /
3100
ABA/BEAM 75

Travessas - Crossbars	
"A" Larguras Widths	Cargas Loads Kg/m
200	1320
300	1115
400	805
500	650
600	500
700	350
800	310
1000	175
1200	125

Longarinas - Beams		
"B" Comprim. Length	Cargas Loads Kg/m	Cargas Total Load
1000	-	-
1500	-	-
2000	735	1470
2500	450	1125
3000	315	945
3500	225	787
4000	173	692
4500	135	607
5000	105	525
5500	83	456
6000	60	360

PESADO
HEAVY TYPE

REF.: H.E. 3300 / 3800
ABA/BEAM 100

Travessas - Crossbars	
"A" Larguras Widths	Cargas Loads Kg/m
250	1270
500	750
750	490
1000	354
1250	244
1500	195

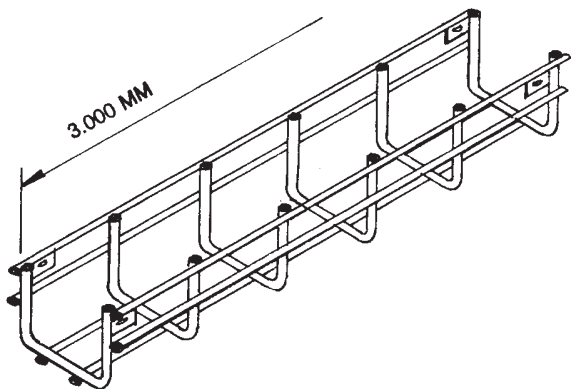
Longarinas - Beams		
"B" Comprim. Length	Cargas Loads Kg/m	Cargas Total Load
1000	-	-
1500	-	-
2000	980	1960
2500	600	1500
3000	420	1260
3500	300	1050
4000	230	920
4500	180	810
5000	140	700
5500	110	605
6000	80	480

leito leve aramado para cabos

CABLE TRAYS (STEEL WIRES)



LEITO PRÁTICO, VERSÁTIL NÃO PROVOCA EXCESSO DE CARGA NAS ESTRUTURAS DE RAPIDA INSTALAÇÃO



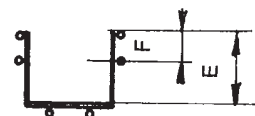
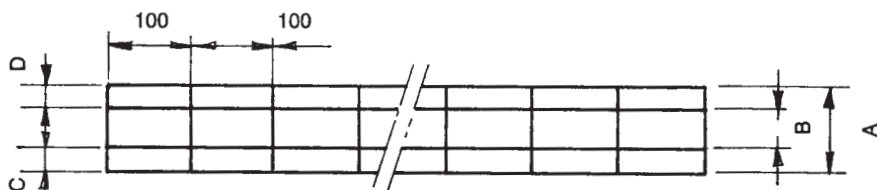
REF.: H.E. 9000

EX: 9000/LARG./ALT.COMPR.

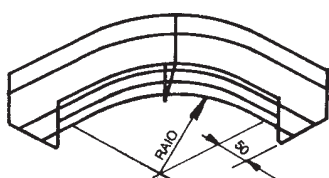
DADOS CONSTRUTIVOS

A	B	C	D	E	F	RAIO	Ø VERGALHÃO LONGITUDINAL	Ø VERGALHÃO TRANSVERSAL
100	50	25	25	50	31	-	6X(1/4")	30X(1/4")
200	60	40	40	100	40	-	8X(3/8")	30X(1/4")
300	60	60	60	100	40	-	8X(3/8")	30X(1/4")
400	80	40	40	100	40	-	9X(3/8")	30X(1/4")
500	80	50	50	100	40	-	10X(3/8")	30X(1/4")

OBS.: CONSTRUÍDO DE TREFILADOS ELETROFUNDIDOS ACABAMENTOS ELETROLÍTICO OU GALV. A FOGO

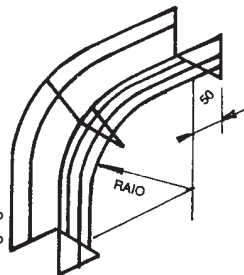


CURVA HORIZ. LA



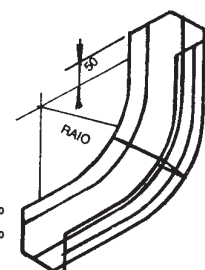
REF.: H.E. 9006 - 90°
REF.: H.E. 9003 - 45°
RAIOS = 100/200/300

CURVA VERT. LA



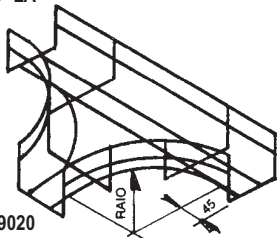
REF.: H.E. 9012 - 90°
REF.: H.E. 9009 - 45°
RAIOS = 100/200/300

CURVA VERT. INT. LA



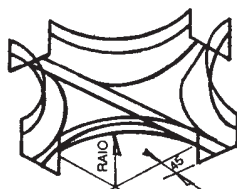
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REF.: H.E. 9015 - 45°
RAIOS = 100/200/300

TE HORIZ. 90° LA



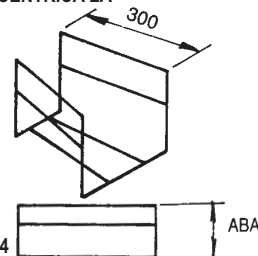
REF.: H.E. 9020
RAIOS = 100/200/300

CRUZETA HORIZ. 90° LA



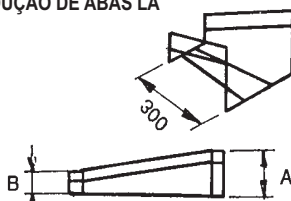
REF.: H.E. 9021
RAIOS = 100/200/300

REDUÇÃO CONCENTRICA LA



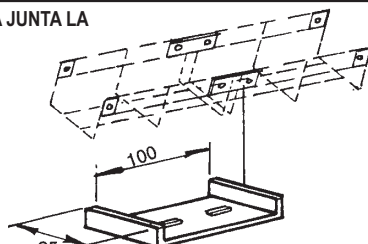
REF.: H.E. 9034

REDUÇÃO DE ABAS LA



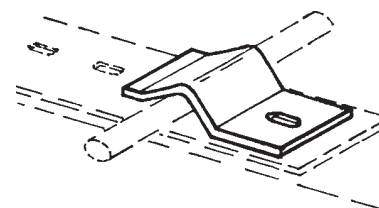
REF.: H.E. 9003 - 45°
ESPECIFICAR=ALT/A/B

TALA JUNTA LA



REF.: H.E. 9040

PRESILHA DE FIXAÇÃO LA



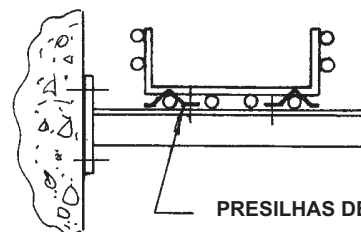
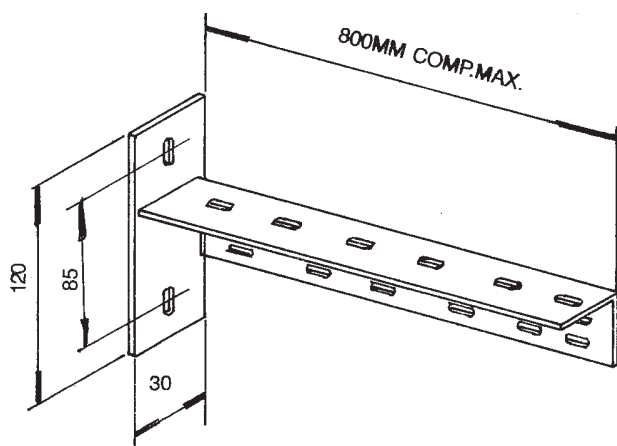
REF.: H.E. 9031

SUPORTES DE SUSPENSÃO PARA LEITOS LEVE ARAMADO

HOME
eletric

INSTALAÇÃO TÍPICA
TYPICAL INSTALLATION

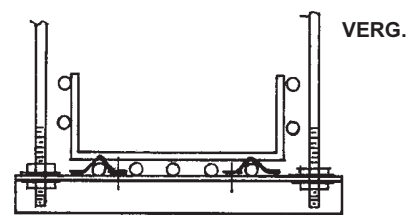
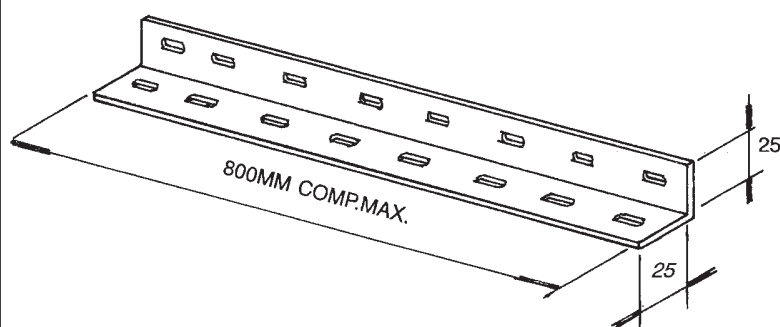
MÃO FRANCESA SIMPLES LA



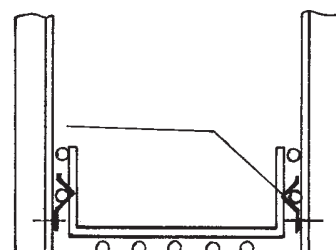
OBS.: ESPECIFICAR O COMPRIMENTO

REF.: H.E. 9032

SUPORTE HORIZONTAL LA



SUPORTE NA HORIZONTAL

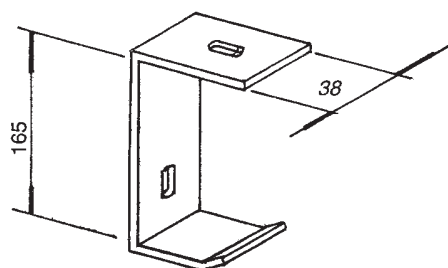


SUPORTE NA VERTICAL

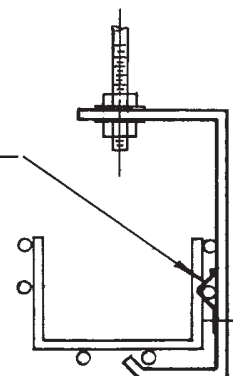
OBS.: ESPECIFICAR O COMPRIMENTO

REF.: H.E. 9033

GANCHO LATERAL LA



PRESILHA DE FIXAÇÃO LA



OBS.: INDICADO P/LEITO ARAMADO LARG. 100 X 100MM NO MÁXIMO

REF.: H.E. 9034

ELETROCALHAS



As medidas indicadas no presente capítulo, são expressas em milímetros.

Quando se referem à medidas de tubos (expressas em polegadas), deve-se entendê-las como medidas nominais.

Para as eletrocalhas, pelas suas características, recomenda-se como acabamento, galvanização eletrolítica.

Em casos especiais, quando sua utilização requerer acabamento mais resistente à corrosão, poderão ser aplicados outros acabamentos, como: galvanização à fogo ou pintura (sob consulta).

O material utilizado na sua fabricação é chapa de aço; outros materiais como, alumínio, latão, aço inoxidável ou chapa pré-galvanizada, poderão ser utilizados (sob consulta)

Para uma rígida fixação das tampas, quando seu uso assim o requerer, estão disponíveis diversos tipos de fixadores, como também, septos divisores, etc.

Consulte nosso departamento técnico para quaisquer esclarecimentos adicionais.

The measurements indicated herein this chapter are in millimeter. When referring to tubing (indicated in inches), they should be understood as nominal measurements.

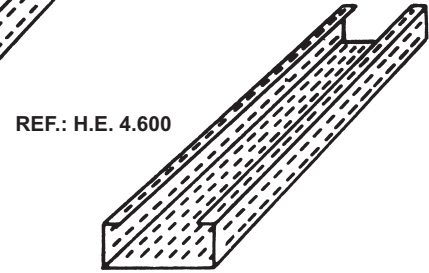
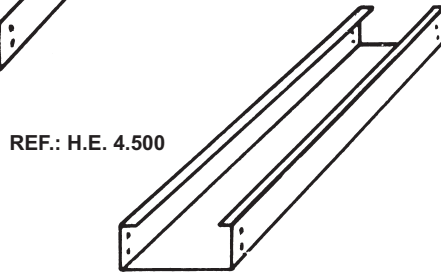
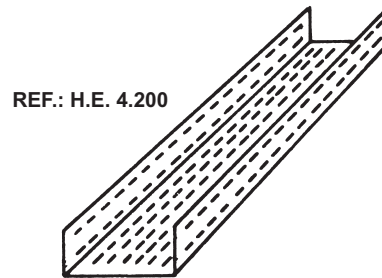
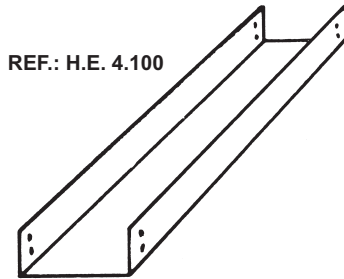
For the cables and tubing channels, according to their characteristics, electrolytic galvanizing finishing is recommended.

In special cases, when more anti-corrosive finishing is required, other finishing can be applied, such as: hot-dip galvanizing or painting (under request).

The material in their manufacture is steel plate; other materials, such as aluminum, brass, stainless steel or pre-galvanized steel plate, can be employed (under request).

For adequate fastening, when required of the cover plates, several types of fasteners are available.

Barrier strips can also be supplied (consult our Technical Department).



NOTA (NOTE): Comprimento máximo (maximum length) = 3.000 mm
Largura máxima (maximum width) = 1.000 mm
Furos oblongos (slots) = 7 x 25 mm

Exemplo de como especificar: 4.500 / 200 / 100 / 3.000 - Trecho reto da eletrocalha tipo 4.500, largura 200 mm, aba 100 mm, comprimento 3.000 mm, sem tampa. Sendo desejável o uso da tampa, acrescentar a referência 001, 002, 003 (ver na página seguinte).
How to specify: 4.500 / 200 / 100 / 3.000 - Straight section, channel type 4.500, 200 mm wide, 100 mm of height, 3.000 mm long, without cover plate. For channels with cover plate, mention the reference 01, 02 03, according to the desirable type (see following page).

OBS.: REF.: H.E. 4.500 Dimensão mínima 75 X 50 mm
REF.: H.E. 4.600 Dimensão mínima 100 X 25 mm
Altura máxima 200 mm - Acima sob consulta
REF. 4.500 Minimum dimensions 75 X 50 mm
REF. 4.600 Minimum dimensions 100 X 25 mm
height maximum 200 mm/m
Widths above - Under consultation

TABELA DE MEDIDAS DAS LARGURAS E DAS ABAS
TABLE OF WIDTH AND FLANGE MEASUREMENTS

CHAPA STEEL PLATE M.S.G	ABA FLANGE LARGURA WIDTH	25	50	75	100	125	150	175	200	250	300	350	400
		16	25	25-25	-	-	-	-	-	-	-	-	-
16	50	50-25	50-50	-	-	-	-	-	-	-	-	-	-
16	75	75-25	75-50	75-75	-	-	-	À PEDIDO, AS CHAPAS MENCIONADAS PODERÃO SER ALTERADAS UNDER REQUEST, PLATE CAN BE CHANGED					-
16	100	100-25	100-50	100-75	100-100	-	-						-
16	125	125-25	125-50	125-75	125-100	125-125	-						-
16	150	150-25	150-50	150-75	150-100	150-125	150-150	-	-	-	-	-	-
16	175	175-25	175-50	175-75	175-100	175-125	175-150	175-175	-	-	-	-	-
16	200	200-25	200-50	200-75	200-100	200-125	200-150	200-175	200-200	-	-	-	-
16	250	250-25	250-50	250-75	250-100	250-125	250-150	250-175	250-200	250-250	-	-	-
16	300	300-25	300-50	300-75	300-100	300-125	300-150	300-175	300-200	300-250	300-300	-	-
14	350	350-25	350-50	350-75	350-100	350-125	350-150	350-175	350-200	350-250	350-300	350-350	-
14	400	400-25	400-50	400-75	400-100	400-125	400-150	400-175	400-200	400-250	400-300	400-350	400-400
14	450	450-25	450-50	450-75	450-100	450-125	450-150	450-175	450-200	450-250	450-300	450-350	-
14	500	500-25	500-50	500-75	500-100	500-125	500-150	500-175	500-200	500-250	500-300	500-350	-
14	600	600-25	600-50	600-75	600-100	600-125	600-150	600-175	600-200	600-250	600-300	-	-
12	700	700-25	700-50	700-75	700-100	700-125	700-150	700-175	700-200	700-250	-	-	-
12	800	800-25	800-50	800-75	800-100	800-125	800-150	800-175	800-200	-	-	-	-
12	900	900-25	900-50	900-75	900-100	900-150	900-150	-	-	-	-	-	-
12	1000	1000-25	1000-50	1000-75	1000-100	-	-	-	-	-	-	-	-

TAMPAS E DETALHES CONSTRUTIVOS COVE, PLATES AND CONSTRUCTIVE DETAILS



TAMPAS COVER PLATES



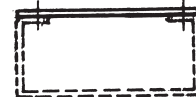
REF.: H.E. 001
De encaixe
Iserting



REF.: H.E. 001
De encaixe
Iserting



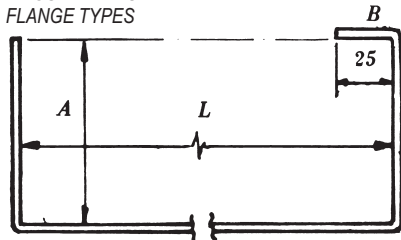
REF.: H.E. 002
De Pressão
Pressure



REF.: H.E. 003
Plana fixação
com parafusos
Plain screw fixing

NOTA : As duas são fornecidas lisas; caso seja desejável o uso de tampas perfuradas, consultar nosso departamento técnico.
NOTE : Cover plates are supplied plain; whenever perforated channels are desired, Ask for our technical department.

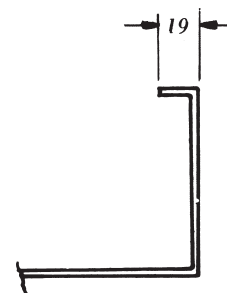
TIPOS DE ABAS FLANGE TYPES



A - Aba: medidas internas
A - Flange: internal measurements

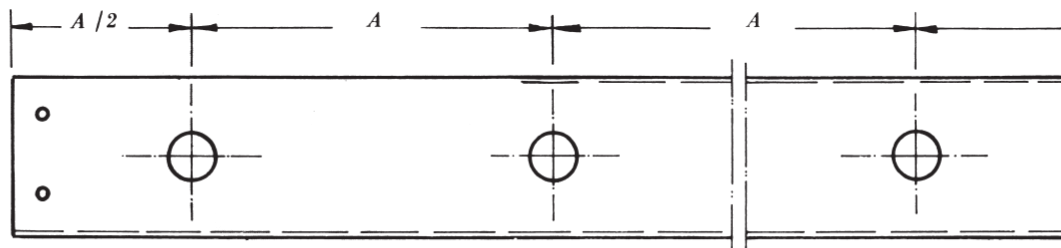
L - Largura: medidas internas
L - Width: internal measurements

B - Aba própria da eletrocalha REF.: H.E. 4.600
B - Proper flange for pressure cover plate and for channel REF.: H.E. 4.600



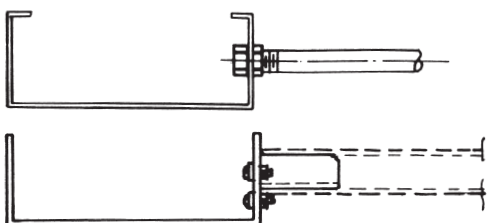
SAÍDAS LATERAIS PARA TUBOS (alternativa para os tipos de eletrocalha REF.: H.E. 4.100, 4.500 - Saídas a cada 500, 750 ou 1.000 mm - Mencionar no pedido).

SAIDE OUTLETS FOR TUBING (alternative for channels REF.: H.E. 4.100, 4.500 outgoing at each 500, 750 or 1.000 mm - mention in the order)

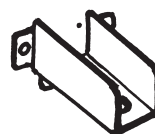


Para tubos Ø 3/4" (26,75 mm) e Ø 1" (33,50 mm)
For tubing Ø 3/4" (26,75 mm) and 1" (33,50 mm)

Para eletrocalhas com aba mínima de 50 mm
For channels having minimum 50 mm flange



REF.: H.E. 005
Acoplamento para perfilado de 38 x 38
Coupling for 38 x 38 channels

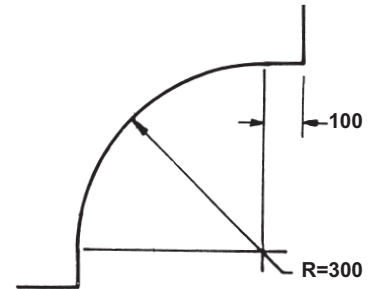
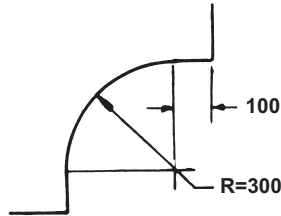
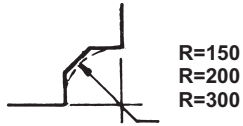


REF.: H.E. 006
Acoplamento para perfilado de 38 x 76
Coupling for 38 x 76 channels

Fixação: 3 parafusos cabeça lentilha de Ø 1/4" x 1/2" (6,35 x 12,7 mm) com porcas e arruelas.
Fastening: 3 "lenty" type head screw Ø 1/4" x 1/2" (6,35 x 12,7 mm) with nuts and washers.

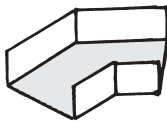
TIPOS DE RAIOS DE CURVATURA - CURVAS, TES E COTOVELO RADIUS TYPE - BENDS, TEES AND ELBOW

RAIO SECCIONADO FORNECIMENTO NORMAL



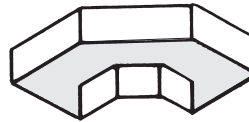
RAIO CURVELINO SOMENTE A PEDIDO

CURVA HORIZONTAL 45°
45° HORIZONTAL BEND



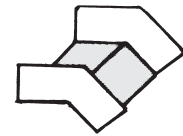
REF.: H.E. 4. x 03*

CURVA HORIZONTAL 90°
90° HORIZONTAL BEND



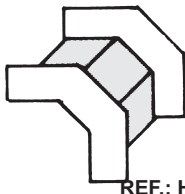
REF.: H.E. 4. x 06*

CURVA VERTICAL EXTERNA 45°
45° VERTICAL OUTSIDE BEND



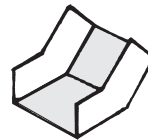
REF.: H.E. 4. x 09*

CURVA VERTICAL EXTERNA 90°
90° VERTICAL OUTSIDE BEND



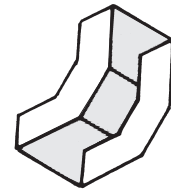
REF.: H.E. 4. x 12*

CURVA VERTICAL INTERNA 45°
45° VERTICAL INSEDE BEND



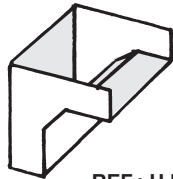
REF.: H.E. 4. x 15*

CURVA VERTICAL INTERNA 90°
90° VERTICAL INSEDE BEND



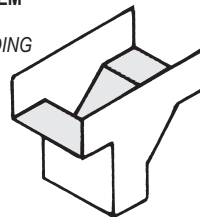
REF.: H.E. 4. x 18*

CURVA DE INVERSÃO 90°
90° TRANSITIONAL BEND



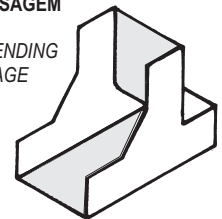
REF.: H.E. 4. x 19*

CURVA COM PASSAGEM
RETA DESCIDA
BEND WITH DESCENDING
STRAIGHT PASSAGE



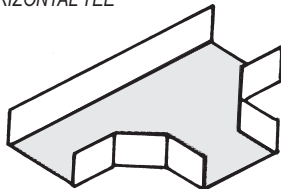
REF.: H.E. 4. x 28*

CURVA COM PASSAGEM
RETA SUBIDA
BEND WITH ASCENDING
STRAIGHT PASSAGE



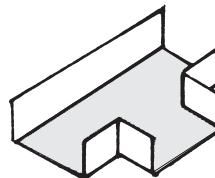
REF.: H.E. 4. x 27*

TE HORIZONTAL
HORIZONTAL TEE



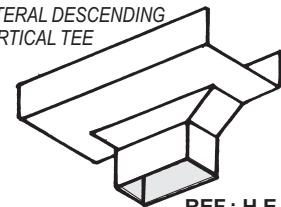
REF.: H.E. 4. x 20*

TE RETO
STRAIGHT TEE



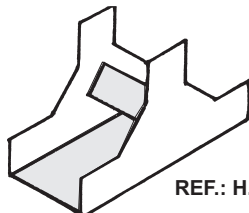
REF.: H.E. 4. x 32*

TE VERTICAL DESCIDA
LATERAL
LATERAL DESCENDING
VERTICAL TEE



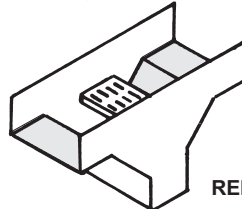
REF.: H.E. 4. x 42*

TE VERTICAL SUBIDA
ASCENDING VERTICAL TEE



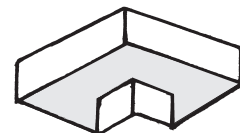
REF.: H.E. 4. x 29*

TE VERTICAL DESCIDA
DESCENDING VERTICAL TEE



REF.: H.E. 4. x 30*

COTOVELO RETO 90°
90° ELBOW



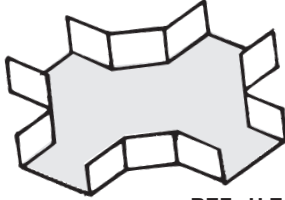
REF.: H.E. 4. x 31*

* Ver página seguinte (see following page)

CRUZETAS, JUNÇÕES REDUÇÕES, FLANGE, GOTEJADORES E TERMINAIS CROSSES, Y-BRANCHES, REDUCERS, BOX CONNECTORS, CABLE DROPOUTS AND END PLATES

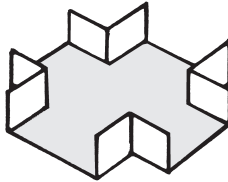


CRUZETA HORIZONTAL
HORIZONTAL CROSS



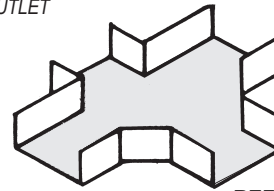
REF.: H.E. 4. x 21*

CRUZETA RETA
STRAIGHT CROSS



REF.: H.E. 4. x 33*

CRUZETA COM SAÍDA RETA
CROSS WITH ONE STRAIGHT
OUTLET



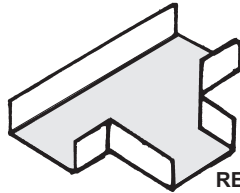
REF.: H.E. 4. x 22*

JUNÇÃO DIREITA 90° E 45°
90° RIGHT-HAND Y-BRANCH



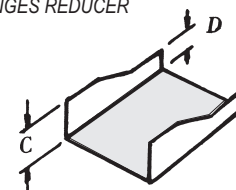
REF.: H.E. 4. x 10* - 45°
REF.: H.E. 4. x 23* - 90°

JUNÇÃO ESQUERDA 90° E 45°
90° LEFT-HAND Y-BRANCH



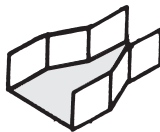
REF.: H.E. 4. x 11* - 45°
REF.: H.E. 4. x 24* - 90°

REDUÇÃO PARA ABAS
FLANGES REDUCER



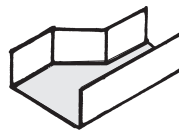
REF.: H.E. 4. x 43*

REDUÇÃO CONCÊNTRICA
CONCENTRIC REDUCER



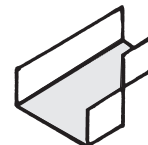
REF.: H.E. 4. x 34*

REDUÇÃO DIREITA
RIGHT-HAND REDUCER



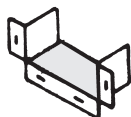
REF.: H.E. 4. x 36*

REDUÇÃO ESQUERDA
LEFT-HAND REDUCER



REF.: H.E. 4. x 35*

**FLANGE PARA LIGAÇÃO
EM PAINEL**
BOX CONNECTOR



REF.: H.E. 4. x 40*

GOTEJADOR FINAL
END CABLE DROPOUT



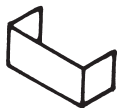
REF.: H.E. 4. x 44*

GOTEJADOR INTERMEDIÁRIO
INTERMEDIATE CABLE DROPOUT



REF.: H.E. 4. x 45*

TERMINAL
END PLATE



REF.: H.E. 4. x 39*

TERMINAL COM SAÍDA PARA TUBO
END PLATE WITH
CONDUIT OUTLET



REF.: H.E. 4. x 46*

**TERMINAL COM SAÍDA
PARA PERFILADO 38 x 38**
END PLATE WITH 38 x 38
CHANNEL OUTLET



REF.: H.E. 4. x 47*

**TERMINAL COM SAÍDA
PARA PERFILADO 38 x 76**
END PLATE WITH 38 x 76
CHANNEL OUTLET



REF.: H.E. 4. x 48*

* Os "x" das referências mencionadas, deverão ser substituídos pelo número de eletrocalha escolhida (1, 2, 5 ou 6).

Exemplos:

1 - 4.506 / 400 / 100 / 300 - indica uma curva horizontal de 90°, de eletrocalha lisa tipo REF.: H.E. 4.500, largura 400 mm, aba de 100 mm e raio de 300 mm, sem tampa.

Sendo desejável o uso da tampa, acrescentar os nºs 001, 002, ou 003, de acordo com a escolha (4.506 / 400 / 100 / 300-002).

2 - 4.534 / 400 / 100 / 200 - redução concêntrica de 400 x 200 mm, de aba de 100 mm, sem tapa.

3 - 4.547 / 400 / 100 - terminal com saída para perfilado de 38 x 38, para eletrocalha de 400 mm de largura e 100 mm de aba.

* Above references marked "x" shall be replaced by the selected channel number (1, 2, 5 or 6)

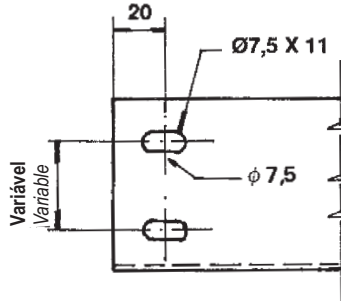
Examples:

1 - 4.506 / 400 / 100 / 300 indicate a 90° horizontal bend, of plain channel REF.: H.E. 4.500, 400 mm width, 100mm height flange and 300 mm radius, without cover plate. If the use of cover plate is desired, add no. 001, 002 or 003, as selected (4.506 / 400 / 100 / 300-002).

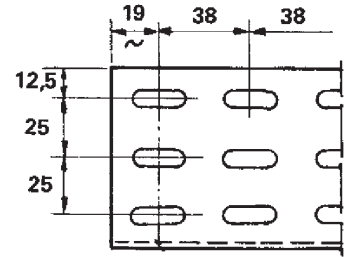
2 - 4.534 / 400 / 100 / 200 - concentric reducer of 400 x 200 mm, 100 height flange, without cover plate.

3 - 4.547 / 400 / 100 - end plate with dropout for 38 x 38 channel, 400 mm, width and 100 mm height flange.

JUNÇÕES, SUPORTES E GANCHOS
SPlice PLANTES, SUPPORTES AND HANGERS



Detalhes de furações das abas das eletrocalhas para a colocação das junções
Channel flange drilling details for splice plates fastenig



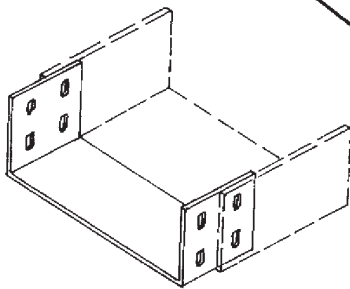
JUNÇÕES
SPlice PLATES

REF.: H.E. 010
Mata junta (opcional)
Joint Protection (optional)

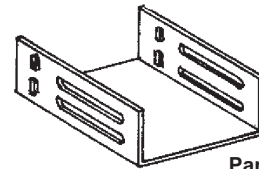
REF.: H.E. 007
Junção Simples com Reforço
Reinforced Single Splice Plates

REF.: H.E. 009
Junção de Fundo (opcional)
Bottom Splice Plates (opcional)

REF.: H.E. 008
Junção de Simples
Single Splice Plates



Emenda Interna "U" p/ Calhas Lisas
REF.: H.E. 018
Calha perf. REF.: H.E. 017
Furos Transversais



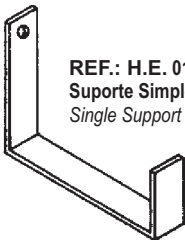
JUNÇÃO
TELESCÓPICA
REF.: H.E. 4x26
Para Calha Lisa

NOTA: Para especificar as junções (007 e 008), mencionar, após a REF. a altura da aba;
Para especificar a junção de fundo (009), mencionar, após a REF. a largura.

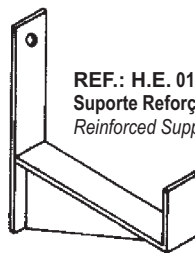
NOTE: To specify splice plates (007 and 008), mention the flange height after REF.
To specify joint protection (010) and bottom splice plate (009), mention the width after the REF.

SUPORTES - GANCHOS
SUPPORTS - HANGERS

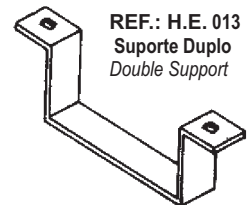
REF.: H.E. 011
Suporte Simples
Single Support



REF.: H.E. 012
Suporte Reforçado
Reinforced Support



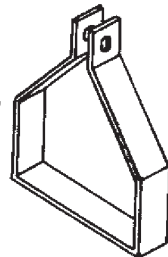
REF.: H.E. 013
Suporte Duplo
Double Support



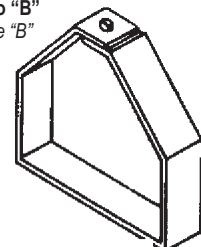
REF.: H.E. 014
Gancho Simples
Single Hanger



REF.: H.E. 015
Gancho Duplo Tipo "A"
Double Hanger Type "A"



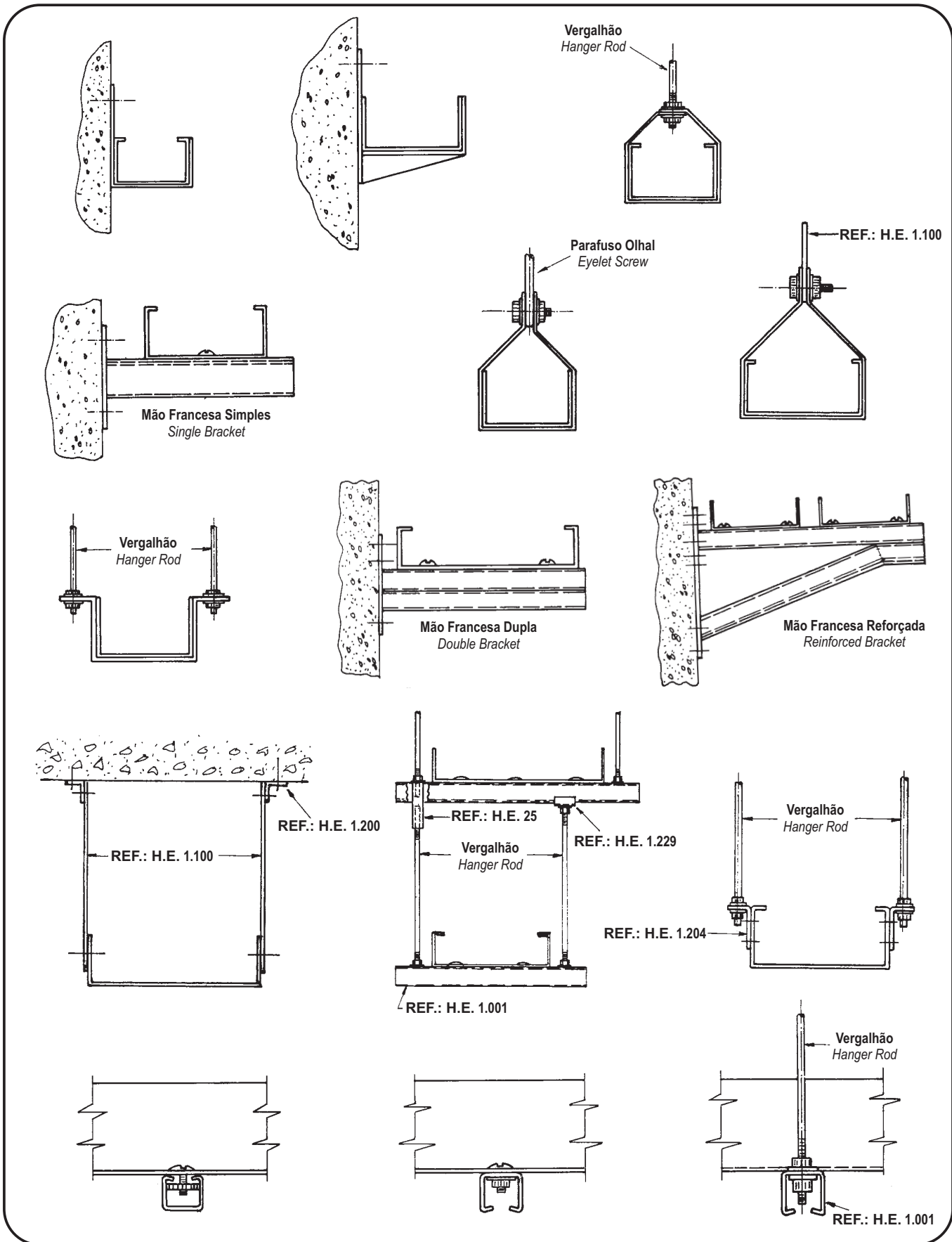
REF.: H.E. 016
Gancho Duplo Tipo "B"
Double Hanger Type "B"



NOTA: Para especificar os suportes e os ganchos, mencionar, após a REF. a largura e a aba;
Para as peças REF.: H.E. 011 e 014 a largura máxima é 150 mm;
Para as peças REF.: H.E. 012, 013, 015 e 016 a largura máxima é 300 mm;
Para largura acima de 300 mm, ver suportes reforçados na página seguinte.

NOTE: To specify the supports and hangers, mention the width and flange after REF.
For parts REF.: H.E. 011 and 014, the maximum length is 150 mm.
For parts REF.: H.E. 012, 013, 015 and 016 the maximum length is 300 mm.
For width exceeding 300 mm, see reinforced supports in the following page.

ILUSTRAÇÕES DE MONTAGEM
ASSEMBLY ILLUSTRATIONS

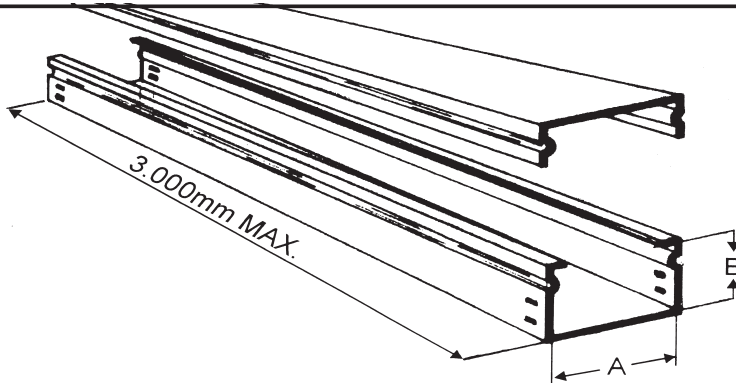


Exemplos de Fixação nos Perfisados 38x38
Examples of Fastening on 38x38 Channels

ELETROCALHA LISA COM REPUXO LONGITUDINAL

CABLE AND TUBING CHANNELS

HOME
eletric



CARACTERÍSTICAS:

INDICADA PARA AMBIENTES CORROSIVOS TOTALMENTE FECHADA COM TAMPA TIPO ENCAIXE POR PRESSÃO. É VERSÁTIL E PERMITE RÁPIDA INSTALAÇÃO.

MATERIAL:

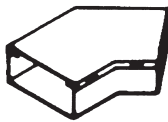
AÇO INOXIDÁVEL OU CHAPA PRÉ ZINCADA

REF.: H.E. 8.100

PARA OUTRAS MEDIDAS CONSULTAR NOSSO DEPTO. TÉCNICO

ABA - B	50	60	75	100	125	150				
LARGURA - A	50	60	75	100	150	200	250	300	400	500

CURVA HORIZONTAL 45°



REF.: H.E. 8.103

CURVA HORIZONTAL 90°



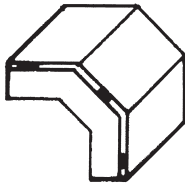
REF.: H.E. 8.106

CURVA VERTICAL EXTERNA 45°



REF.: H.E. 8.109

CURVA VERTICAL EXTERNA 90°



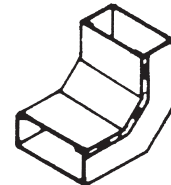
REF.: H.E. 8.112

CURVA VERTICAL INTERNA 45°



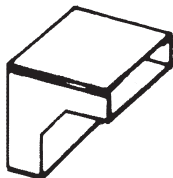
REF.: H.E. 8.115

CURVA VERTICAL INTERNA 90°



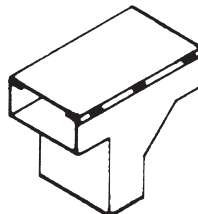
REF.: H.E. 8.118

CURVA DE INVERSÃO 90°



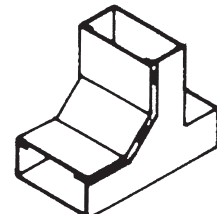
REF.: H.E. 8.119

CURVA COM PASSAGEM RETA DESCIDA



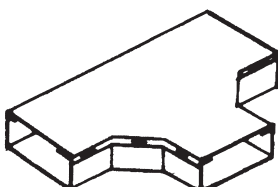
REF.: H.E. 8.128

CURVA COM PASSAGEM RETA SUBIDA



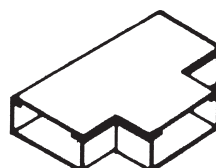
REF.: H.E. 8.127

TE HORIZONTAL 90°



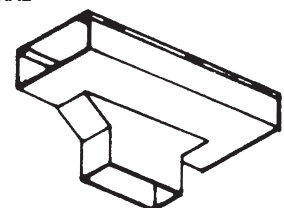
REF.: H.E. 8.120

TE RETO 90°



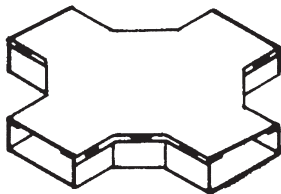
REF.: H.E. 8.132

TE VERTICAL COM DESCIDA LATERAL



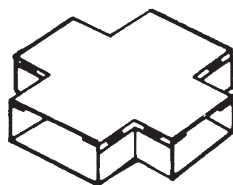
REF.: H.E. 8.142

CRUZETA HORIZONTAL 90°



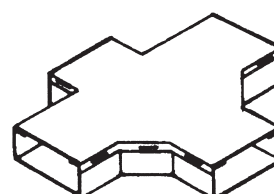
REF.: H.E. 8.121

CRUZETA RETA 90°



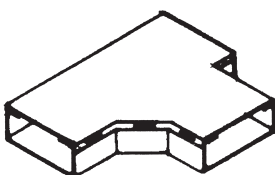
REF.: H.E. 8.133

CRUZETA HORIZONTAL COM SAÍDA RETA 90°



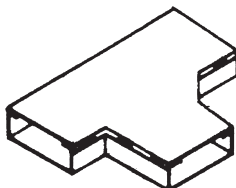
REF.: H.E. 8.122

JUNÇÃO DIRETA 90°



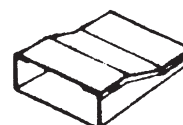
REF.: H.E. 8.123

JUNÇÃO ESQUERDA 90°



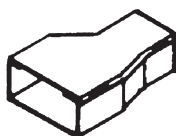
REF.: H.E. 8.124

REDUÇÃO DE ABAS



REF.: H.E. 8.143

REDUÇÃO CONCÊNTRICA



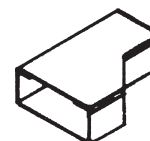
REF.: H.E. 8.134

REDUÇÃO DIRETA



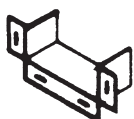
REF.: H.E. 8.136

REDUÇÃO EQUERDA



REF.: H.E. 8.135

FLANGE



REF.: H.E. 8.140

TERMINAL



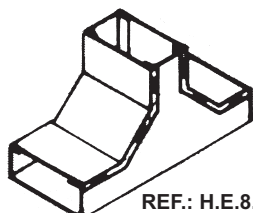
REF.: H.E. 8.139

JUNÇÃO PARA EMENDA



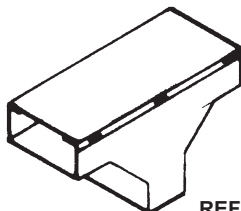
REF.: H.E. 807

TE VERTICAL SUBIDA



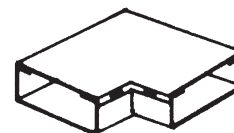
REF.: H.E.8.129

TE VERTICAL DESCIDA



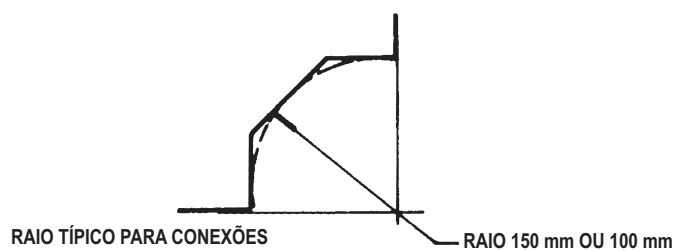
REF.: H.E. 8.130

COTOVELO RETO 90°



REF.: H.E. 8.131

UNIÃO: COM PARAF. CAB. LENTILHA 1/4" x 1/2" COM PORCA SEXT. E ARRUELA





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