EMERA®

FORMWORK ACCESSORIES
ACCESORIOS PARA ENCOFRADOAS

A Division of
Una división de BATZ CORPORATION

Your Hardware Source

VER: 1-2017

COMPANY HISTORY

Emera Formwork Accessories

Emera® is a division of Batz Corporation, a family owned business established in 1872, serving the United States market since 1975. Since being introduced in the United States, Emera® has become a major manufacturer and supplier in the formwork accessories Industry.

Emera® is part of an international group of associated companies with warehouses, production facilities and offices in Asia, Europe, and the United States. This alliance gives us the advantage in design development, quality control and first class engineering. Emera® continues to invest in product development to ensure that we maintain our competitive edge.

Emera® wants to become your working partner - so that we may grow and prosper together. Our exceptional customer support team is eager to assist you with all of your formwork accessory needs.

Distribution & Sales:

EMERA® Formwork Accessories - div. of Batz Corp.

1524 Hwy. 291 North · Prattsville, AR 72129 USA

Ph: (501) 760-5200 · Fax: (501) 760-5201

www.emerausa.com · emera@batzusa.com

Production possibilities

Your powerful partner for
> casted
> drop forged
> turned or milled
> injection moulded

Shaped parts of
> Grey cast Iron (EN-GJL)
> SG Iron (EN-GJL)
> Malleable cast iron (EN-GJMW, EN-GJMB)
> Steel casting, carbon or alloyed

Moulding by
> Sand casting
> Investment casting
> Precision casting
> Gravity Die casting
> Pressure Die casting

Finish
> raw
> heat treated
> machined
> galvanized (Chrome, Gold, Copper, Nickel, Zinc)
> hot dip galvanized
> prime coating or lacquered

We produce as per your Drawings, Sketches or Samples!

Ofrecemos

Ser su proveedor ideal para piezas
> fundidas
> forjadas
> mecanizadas
> inyectadas

Piezas fundidas en calidades de
> hierro gris (EN-GJL)
> fundición de grafito esferoidal (EN-GJS)
> fundición maleable (EN-GJMW, EN-GJMB)
> acero aleado y sin alleación

Mediante fabricación en
> moldeo en arena
> microfusión
> moldeo de alta precisión
> moldeo en coquilla
> moldeo por inyección

Con los siguientes acabados
> de fundición
> con tratamiento térmico
> mecanizado
> recubrimiento electrolítico (cromo, oro, cobre, niquel, zinc)
> Zincado al fuego
> imprimación ó pintura

Dejamos fabricar conforme a sus planos, croquís ó muestras!

Formwork Accessories according to DIN 18216 for thread Ø 15mm (.59")
Accessories para encofrados conforme DIN 18216 para rosca Ø 15mm (.59")

Ø - Denotes Diameter
kN = 102 kgs.
kN = 225 lbs.

Combi Plate, Zinc Plated, thread Ø 15 mm (.59"), working load 90 kN (20,232 lbs)

Tuerca con placa articulada, zincada, rosca Ø 15 mm (.59"), carga de trabajo 90 kN (20,232 lbs)

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)	Tilting grade inclinación en grados
N23025-S	100 mm x 140 mm (3.94" x 5.52")	1,10 kg (2.43 lbs)	10°
23024	130 mm x 220 mm (5.12" x 8.66")	2.17 kg (4.78 lbs)	10°

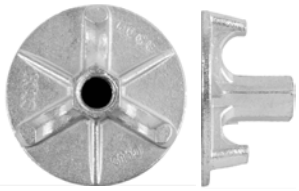
Combi Plate, Zinc Plated, thread Ø 15 mm (.59"), working load 90 kN (20,232 lbs)

Tuerca con placa articulada, Zincada, rosca Ø 15 mm (.59"), carga de trabajo 90 kN (20,232 lbs)

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)	Tilting grade inclinación en grados
N23023-S	Ø 120 mm (4.73")	0,89 kg (1.96 lbs)	20°
N23015-S	Ø 150 mm (5.91")	1,13 kg (2.49 lbs)	20°

Flange nut, Zinc Plated, thread Ø 15 mm (.59"), working load 90 kN (20,232 lbs.)

Tuerca con placa, zincada, rosca Ø 15 mm (.59"), carga de trabajo 90 kN (20,232 lbs.)



Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23107-S	Ø 70 mm (Ø 2.75")	0,55 kg (1.21 lbs)
N23110-S	Ø 100 mm (Ø 3.94")	0,65 kg (1.43 lbs)
N23113-S	Ø 130 mm (Ø 5.12")	0,92 kg (2.02 lbs)

Wing nut, Zinc Plated, thread Ø 15 mm (.59"), working load 90 kN (20,232 lbs.)

Tuerca mariposa, zincada, rosca Ø 15 mm (.59"), carga de trabajo 90 kN (20,232 lbs.)

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N22001-S	L = 55mm x 90mm (2.17" x 3.55")	0,31 kg (0.68 lbs)

Hexagon nut (1) / Hexagon connection nut with pin (2) Raw Steel, thread Ø 15 mm (.59")

Tuerca hexagonal (1) / tuerca de unión con pasador (2), Acero Puro, rosca Ø 15 mm (.59")

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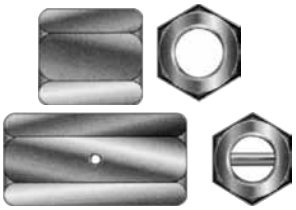


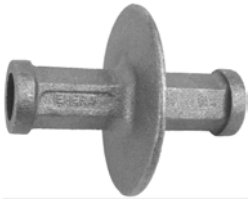
Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23054	SW 30 mm x 30 mm (SW 1.18" x 1.18") Working Load 60kN (13,500 lbs.)	0,13 kg (0.29 lbs)
N23059	SW 30 mm x 90 mm (SW 1.18" x 3.55") Working Load 90kN (22,232 lbs.)	0,38 kg (0.84 lbs)

Formwork Accessories according to DIN 18216 for thread Ø 15mm (.59")
Accessories para encofrados conforme DIN 18216 para rosca Ø 15mm (.59")

Ø - Denotes Diameter
kN = 102 kgs.
kN = 225 lbs.

Waterstop, thread Ø 15 mm (.59"), Raw Steel, working load 90 kN (20,232 lbs.)

Unión estanca, rosca Ø 15 mm (.59"), Acero Puro, carga de trabajo 90 kN (20,232 lbs.)



Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23027-S	L = 130 / Ø 110 / Ø 26mm (L = 5.12" / Ø 4.33" / Ø 1.02"	1,00 kg (2.20 lbs)

Reduction for Waterstop

Reducción para unión estanca

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N22017	For N23027S	0,004 kg (0.01 lbs)

Waterstop Profiled Plate, Raw Steel
Waterstop placa perfilada, Acero Puro

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
7339-07	120 mm x 120 mm x 2 mm (4.73" x 4.73" x .08")	0,2 kg (0.44 lbs)

Steel-Plastic-Cone, thread Ø 15 mm (.59"), Steel = Zinc Plated

Cono plástico-acero, rosca Ø 15 mm (.59"), Acero = Zincada

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23572	L = 101mm / Ø 60mm / Ø 40mm (L = 3.98" / Ø 2.36" / Ø 1.58" Concrete Covering 50mm (2")	0,52 kg (1.14 lbs)

Covering Cap SSK 15, for Steel-Plastic-Cone N23085

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23582-15mm	For N23085 & N23085CT	0,005 kg (0.01 lbs)

Formwork Accessories according to DIN 18216 for thread Ø 15mm (.59")
Accessories para encofrados conforme DIN 18216 para rosca Ø 15mm (.59")

Ø - Denotes Diameter
kN = 102 kgs.
kN = 225 lbs.

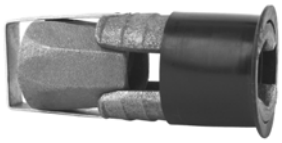
Steel-Plastic-Cone, Coil Thread Ø 3/4"
Cono plástico-acero, Coil Thread Ø 3/4"

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23085CT	L = 101mm / Ø 60mm / Ø 40mm (L = 3.98" / Ø 2.36" / Ø 1.58") Concrete Covering 50mm (2")	0,47 kg (1.02 lbs)

Expansion Anchor, thread Ø 15 mm (.59"), Raw Steel / Aluminum
Anclaje para piedra, rosca Ø 15 mm (.59"), Acero Puro / Aluminio

Item - No referencia	Borehole taladdro	Weight [kg] peso (kg)
N23080	Ø 34 mm -37 mm (1.34" - 1.46")	0,26 kg (0.57 lbs)

Expansion Anchor, thread Ø 15 mm (.59"), Raw Steel / Plastic
Tacos de expansión, rosca Ø 15 mm (.59"), Acero Puro / Plastico



Item - No referencia	Borehole taladdro	Weight [kg] peso (kg)
N23082	Ø 33 mm - 36 mm (Ø 1.30" - 1.42")	0,22 kg (0.49 lbs)

Fix Anchor, thread Ø 15 mm (.59"), Raw Steel
Ancla para montaje, rosca Ø 15 mm (.59"), Acero Puro

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N22016-S	100 mm x 70 mm (3.94" x 2.76")	0,50 kg (1.10 lbs)

Hammer Head Bolt, Zinc Plated, thread Ø 15 mm (.59")
Perno de cabeza de martillo, Zincada, rosca Ø 15 mm (.59")

Item - No referencia	Length longitud	Weight [kg] peso (kg)
6338/02	300 mm (11.82")	0,56 kg (1.23 lbs)

Suitable for DOKA Framax & Quickform

Formwork Accessories according to DIN 18216 for thread Ø 20 mm (.79")
Accesorios para encofrados conforme DIN 18216 para rosca Ø 20 mm (.79")

Ø - Denotes Diameter
kN = 102 kgs.
kN = 225 lbs.

Combi Plate, Zinc Plated, thread Ø 20 mm (.79"), working load 160 kN (36,000 lbs.)

Tuerca con placa, articulada, zincada, rosca Ø 20 mm (.79"), carga de trabajo 160 kN (36,000 lbs.)

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23034-S	Ø 130 mm (Ø 5.12")	1,19 kg (2.62 lbs)

Waterstop, thread Ø 20 mm (.79"), Raw Steel, working load 160 kN (36,000 lbs.)

Unión estanca, rosca Ø 20 mm (.79"), Aceo Puro, carga de trabajo 160 kN (36,000 lbs.)

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23045-S	L = 150mm / Ø 90mm / Ø 31mm (L = 5.91" / Ø 3.55" / Ø 1.22")	1,32 kg (2.91 lbs)

Fix anchor, thread Ø 20 mm (.79"), Raw Steel, working load 160 kN (36,000 lbs.)

Anclaje perdido, rosca Ø 20 mm (.79"), Acero Puro, carga de trabajo 160 kN (36,000 lbs.)

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23072-S	L = 85mm / Ø 90mm (L = 3.35" / Ø 3.55")	0,78 kg (1.72 lbs)

Wing nut, galvanized, Zinc Plated, thread Ø 20 mm (.79"), working load 160 kN (36,000 lbs.)

Tuerca mariposa, zincada, rosca Ø 20 mm (.79"), carga de trabajo 160 kN (36,000 lbs.)

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23033-S	L = 64mm x 110mm, SW 36mm (L = 2.52" x 4.33"), SW 1.42"	0,53 kg (1.17 lbs)

Hexagon nut(1) / Hexagon connection nut with pin (2) Raw Steel, thread Ø 20 mm (.79")

Tuerca hexagonal (1) / tuerca de unión con pasador (2), Acero Puro, rosca Ø 20 mm (.79")

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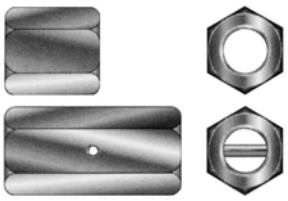


Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23046	SW 36 mm x 30 mm (SW 1.42" x 1.18") Working Load 70kN (15,700 lbs.)	0,17 kg (0.38 lbs)
N23050	SW 36 mm x 110 mm (SW 1.42" x 4.33") Working Load 160kN (36,000 lbs.)	0,76 kg (1.68 lbs)

Formwork Accessories according to DIN 18216 for thread Ø 20 mm (.79")
Accesorios para encofrados conforme DIN 18216 para rosca Ø 20 mm (.79")

Ø - Denotes Diameter
kN = 102 kgs.
kN = 225 lbs.

Steel-Plastic-Cone, thread Ø 20 mm (.79"), Steel = Zinc Plated
Cono plástico-acero, rosca Ø 20 mm (.79"), Acero = Zincada

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23086	L = 127mm / Ø 71mm / Ø 43mm (L = 5" / Ø 2.80" - 1.70") Concrete Covering 65mm (2.56")	0,76 kg (1.68 lbs)

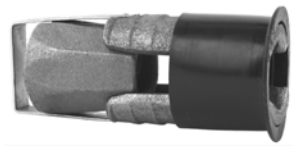
Covering Cap SKK 20, for Steel-Plastic-Cone N23086

Tapa SKK 20 para cono plástico-acero N23086

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23582-20mm	Ø 68mm (2.68")	0,006 kg (0.013 lbs)

Expansion anchor thread Ø 20 mm (.79"), Raw Steel / Plastic

Tacos de expansión, rosca Ø 20 mm (.79"), Acero Puro / Plastico



Item - No referencia	Borehole taladdro	Weight [kg] peso (kg)
N23084	Ø 50 mm - 55 mm (Ø 1.97" - 2.17")	0,72 kg (1.59 lbs)

Steel-Cone, Zinc Plated, Thread 15mm (.59")

Cono-Acero, Zincada, rosca 15mm (.59")

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23097	L = 95mm / Ø 61mm / 37mm / M24 (L = 3.74" / Ø 2.4" / 1.46" / M24 Concrete Cover 50mm (2")	1,12 kg (2.47 lbs)
N23098	L = 95mm / Ø 61mm / 37mm / M30 (L = 3.74" / Ø 2.4" / 1.46" / M30 Concrete Cover 50mm (2")	1,11 kg (2.45 lbs.)

Emera® Concrete Screw, Zinc Plated, Thread 20mm (3/4")

Emera® Concrete Tornillo, Zincada, rosca 20mm (3/4")

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23102	Ø 20mm (3/4") L = 130mm (5")	0,35 kg (0.78 lbs)

Formwork Accessories according to DIN 18216 for thread Ø 26.5 mm (1.05")
Accesorios para encofrados conforme DIN 18216 para rosca Ø 26.5 mm (1.05")

Wing Nut, Zinc Plated, thread Ø 26.5 mm (1.05"), working load 300 kN (67,440 lbs.)

Tuerca mariposa, zincada, rosca Ø 26.5 mm (1.05"), carga de trabajo 300 kN (67,440 lbs.)

Ø - Denotes Diameter
kN = 102 kgs.
kN = 225 lbs.

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
23123	L = 80mm x 150mm (3.15" x 3.9") SW 46mm	1,64 kg (3.60 lbs)

Hexagon Nut, Raw Steel, thread Ø 26.5 mm (1.05"), working load see table below

Tuerca Hexagonal, Acero Puro, rosca Ø 26.5mm (1.05"), carga de trabajo ver tabla de abajo

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23040	SW 46mm x 30mm (SW 1.81" x 1.18") Working Load 90 kN (20,232 lbs.)	0,25 kg (0.55 lbs)
N23041	SW 46mm x 60mm (SW 1.81" x 2.36") Working Load 200kN (44,960 lbs.)	0,54 kg (1.12 lbs)

Hexagon connection nut with pin, Raw Steel, thread Ø 26.5 mm (1.05"), working load see table below

Tuerca de unión con pasador, Acero Puro, rosca Ø 26.5 mm (1.05"), carga de trabajo ver tabla de abajo

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23042	SW 46mm x 120mm (SW 1.81" x 4.72") Working Load 200 kN (44.960 lbs.)	1,05 kg (2.31 lbs)
N23044	SW 46mm x 150mm (SW 1.81" x 5.90") Working Load 300 kN (67.442 lbs.)	1,50 kg (3.30 lbs.)

Formwork Alignment Clamps + Formwork Accessories
Mordazas de cierre y alineamiento + accesorios para encofrados

EMERA® Universal Formwork Clamp
EMERA® mordaza universal
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

DOKA Framax / Frameco
MEVA Mammut / Imperial
NOE Top
Universal Quick Form
RINGER Master

Steel Casting for Maximum Strength!

Item - no. / referencia :
59681

Weight / peso:
3,10 kg (6.84 lbs.)

Max. Opening - 270mm (10.64")
Max. Apertura - 270mm (10.64")

EMERA® Alignment and Adjustment Clamp
EMERA® mordaza de alineamiento y compensación
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

DOKA Framax / Frameco
MEVA Mammut / Imperial
MEVA Lite
NOEtop
Universal Quick Form
RINGER Master

Steel Casting for Maximum Strength!

Item - no. / referencia :
59675

Weight / peso:
3,6 kg (7.94 lbs)

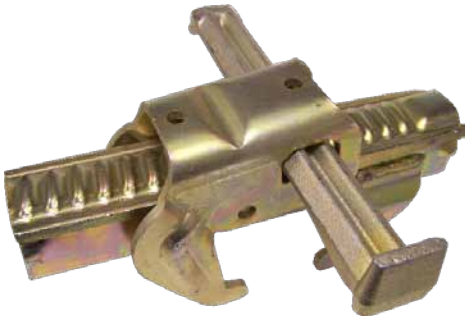
EMERA® Alignment and Adjustment Clamp
EMERA® Mordaza de alineamiento y compensation
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

PERI Trio
PERI Maximo
Alsina Allisply

Item - no. / referencia:
59723

Weight/peso:
4,4 kg (9.68 lbs.)



EMERA® Alignment Clamp
EMERA® Mordaza de alineamiento
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

PERI Domino

Item - no. / referencia:
59729

Weight/peso:
4,2 kg (9.24 lbs.)

Formwork Alignment Clamps + Formwork Accessories
Mordazas de cierre y alineamiento + accesorios para encofrados

Emera® Smart Clamp

Aluminum - Aluminio

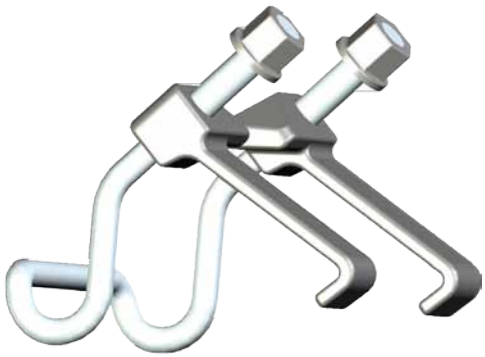
Connects H20 Girders to H20 girders

Connects H20 Girders to Aluminum / Steel beams

Se conect H20 vigas a H20 vigas
se conect H20 vigas a Aluminio / de acero

Item - no. / referencia:
8044

Weight/peso:
0.50 kg (1.1 lbs)



Emera® H20 Easy Clamp

Steel, zinc plated - Acero, zincada

Connects H20 Girders to Steel Beams

Se conecta H20 Vigas a acero Vigas

Item - no. / referencia:
8080

Weight/peso:
1,50 kg (3.30 lbs)

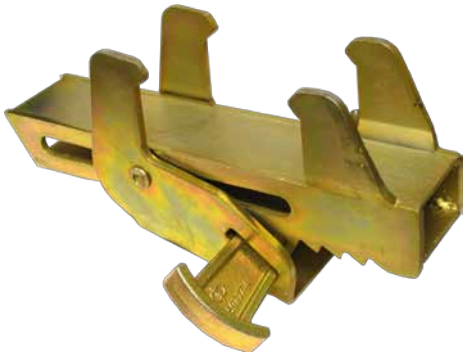
EMERA® Wedge Clamp
EMERA® Mordaza
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

Paschal LOGO

Item - no. / referencia:
59715

Weight / peso:
1,6 kg (3.5 lbs.)



EMERA® Multi Clamp Long
EMERA® Mordaza Multi Largo
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

Paschal Logo

Item - no. / referencia:
59717

Weight / peso:
5,2 kg (11.46 lbs.)

Formwork Alignment Clamps + Formwork Accessories
Mordazas de cierre y alineamiento + accesorios para encofrados

EMERA® Formwork Clamp EAS
EMERA® Mordaza EAS
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

Meva Star Tec
Meva Eco AS

Steel Casting for Maximum Strength!

Item - no. / referencia:
59684

Weight / peso:
1,90 kg (4.19 lbs.)

Max. Opening - 270mm (10.64")
Max. Apertura - 270mm (10.64")

EMERA® Universal Adjustment Clamp
EMERA® Mordaza Compensation Universal
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

MEVA Lite
Meva Star Tec
Meva Eco AS

Steel Casting for Maximum Strength!

Item - no. / referencia:
59689

Weight / peso:
3,6 kg (7.94 lbs.)

EMERA® Formwork Clamp
EMERA® Mordaza
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

MEVA Lite
MEVA Eco AS

Steel Casting for Maximum Strength!

Item - no. / referencia:
59685

Weight / peso:
1,4 kg (3.10 lbs.)

Formwork Alignment Clamps + Formwork Accessories
Mordazas de cierre y alineamiento + accesorios para encofrados

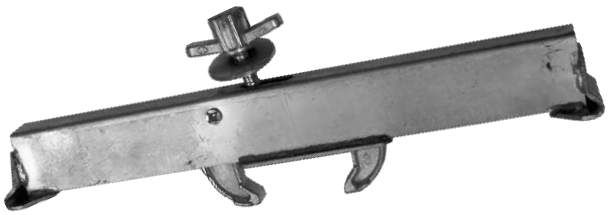
EMERA® Formwork Clamp Type RA
EMERA® Mordaza Type RA
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

Hünnebeck Rasto

Item - no. / referencia:
59688

Weight / peso:
2,82 kg (6.22 lbs.)



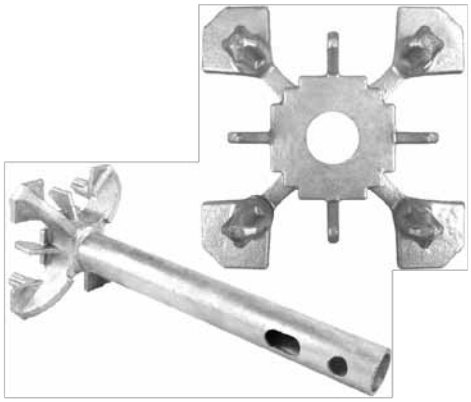
EMERA® Straightening Clamp Type MA
EMERA® Enderezamiento Mordaza Type MA
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

Hünnebeck Manto

Item - no. / referencia:
59693

Weight / peso:
5,14 kg (11.33 lbs.)



EMERA® Bracket
EMERA® Soporte
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

Hünnebeck Topec

Item - no. / referencia:
7711

Weight / peso:
2,23 kg (4.92 lbs.)

Socket Wrench for Steel Plastic Cone. Arm Length L=350mm (13.79") Zinc Plated

Llave de tubo para Cono Plastico - Acero, Longitue L = 350mm (13.79"), Zincada

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)	For use on Steel-Plastic-Cone Para Cono Plastico - Acero
N23105	SW 27 mm (SW 1.06")	1,14 kg (2.51 lbs)	N23085 CT
N23108	SW 32 mm (SW 1.26")	1,26 kg (2.78 lbs)	N23085 + N23086

Emera® Releasing Tool
Emera® Herramienta de Liberación
zinc plated - zincada

For/Para: Steel Cone N23097 & N23098

Item - no. / referencia: N23104

Weight / peso: 0,42 kg (0.92 lbs)

Emera® Universal Forming Hammer „GS"
Emera® Encofrado Martillo Universal „GS"

Type TH 8012

Item - no. / referencia: 66684

Weight / peso: 0,89 kg (1.96 lbs)

EMERA® Combo Tool (Wrench)
zinc plated - zincada
Tie rod key for hot-rolled Euro tie rod DW15 & DW20
For use on Coarse Thread

Llave para Euro tie rod DW 15 & DW 20
Solo usar con rosca gruesa

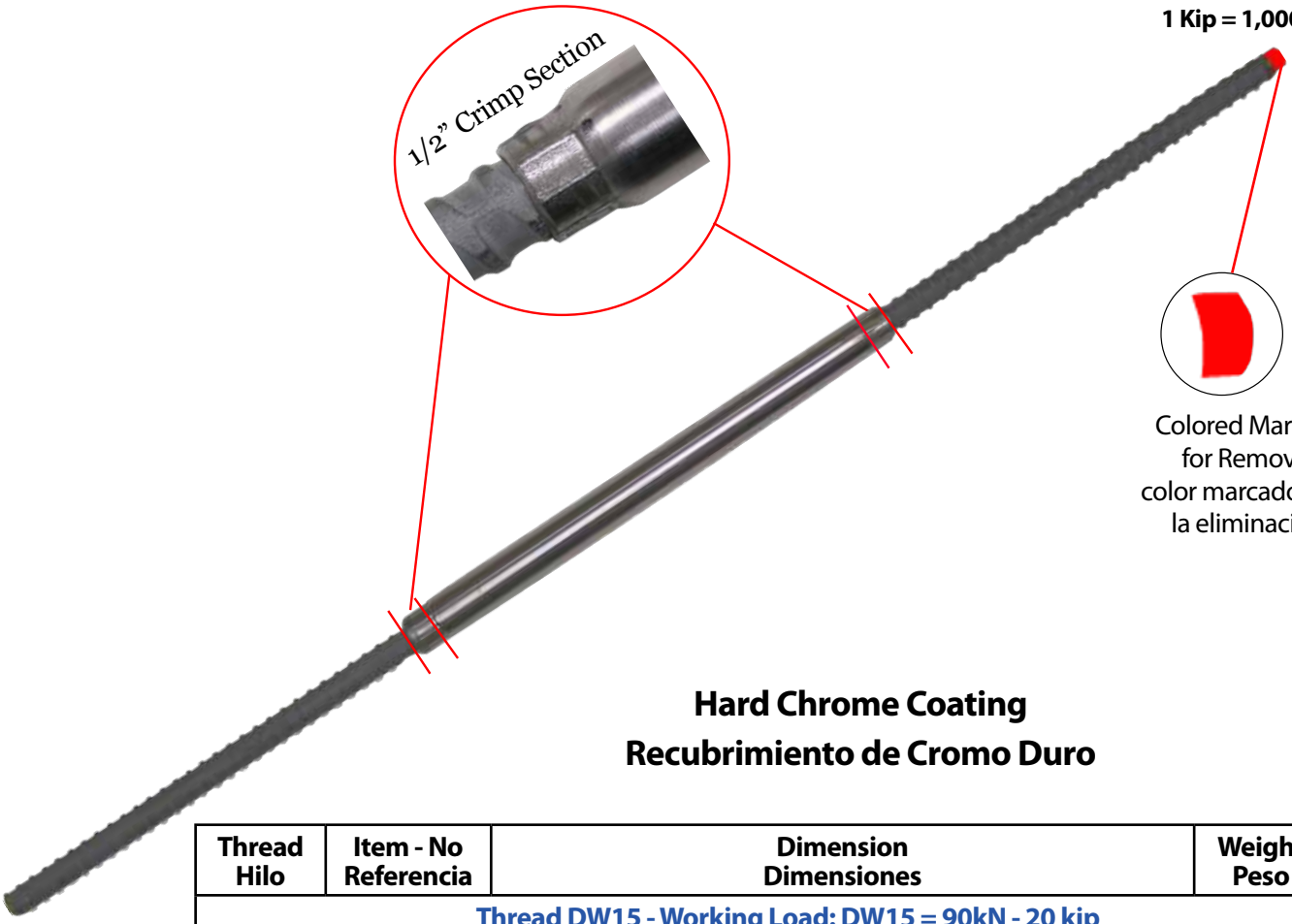
Item - no. / referencia: N23107

Weight/peso: 1,07 kg (2.36 lbs)

Emera® Smart Taper Tie - DW15 & DW20

Patent Pending

Ø - Denotes Diameter
1 kN = 102 kgs.
1 kN = 225 lbs.
1 Kip = 1,000 lbs. of force



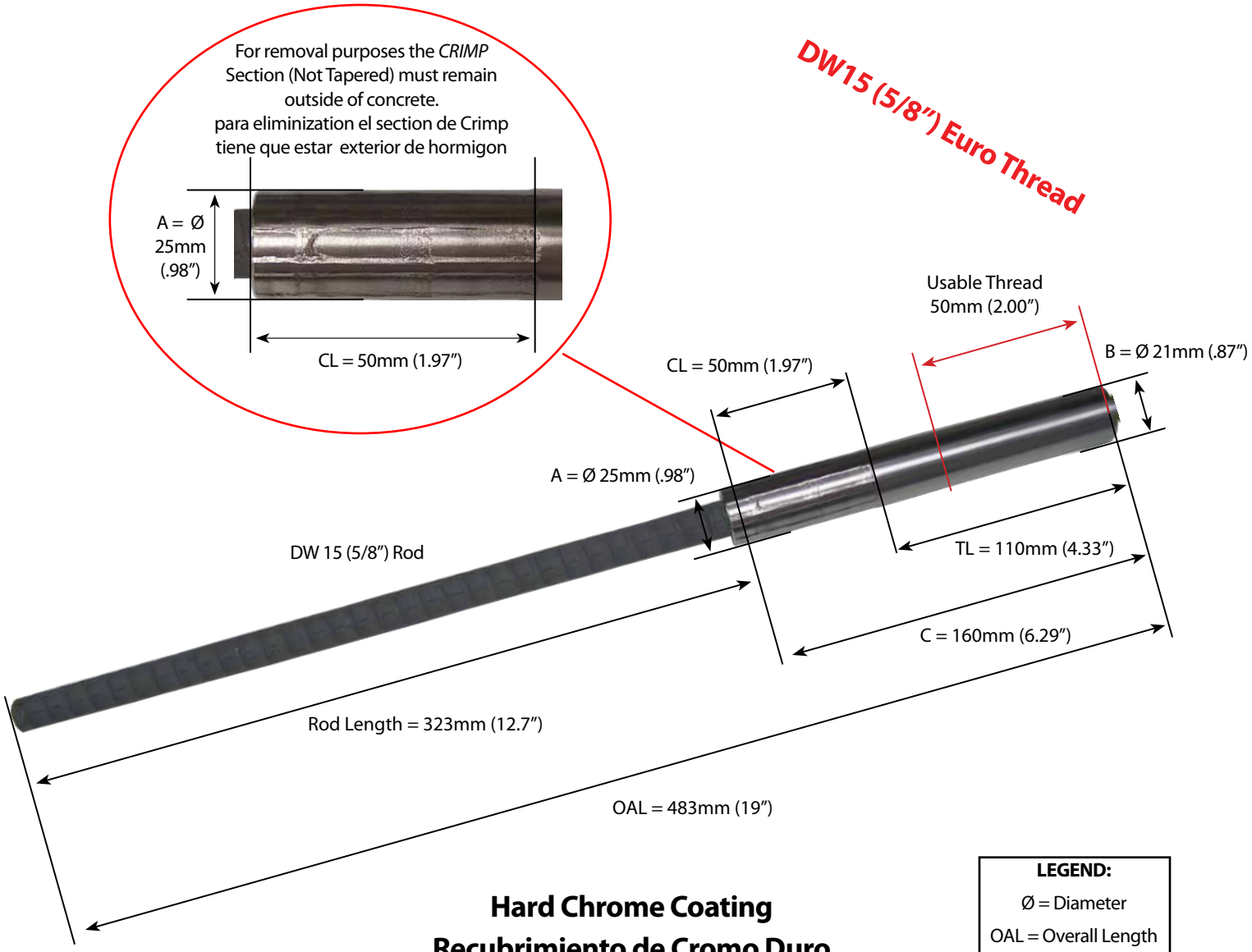
Hard Chrome Coating
Recubrimiento de Cromo Duro

Thread Hilo	Item - No Referencia	Dimension Dimensiones	Weight [kg] Peso [kg]
Thread DW15 - Working Load: DW15 = 90kN - 20 kip			
DW15	8113 TT	OAL = 39" - 12" usable Taper, DW15 - Tapered Ø 23,5 - 27,55 mm	1,93 kg (4.25 lbs.)
DW15	8119 TT	OAL = 45" - 18" usable Taper, DW15 - Tapered Ø 23,5 - 27,55 mm	2,38 kg (5.25 lbs.)
DW15	8125 TT	OAL =51" - 24" usable Taper, DW15 - Tapered Ø 23,5 - 27,55 mm	2,80 kg (6.15 lbs)
DW15	8131 TT	OAL = 57" - 30" usable Taper, DW15 - Tapered Ø 23,5 - 27,55 mm	3,25 kg (7.15 lbs)
Thread DW20 - Working Load: DW20 = 160 kN - 36 kip			
DW20	8217TT	OAL = 43" - 16" usable Taper, DW20 - Tapered Ø 28 - 34 mm	3,8 kg (8.5 lbs)
DW20	8225TT	OAL = 51" - 24" usable Taper, DW20 - Tapered Ø 28 - 34 mm	4,75 kg (10.5 lbs)
DW20	8233TT	OAL = 58" - 32" usable Taper, DW20 - Tapered Ø 28 - 34 mm	5,40 kg (11.9 lbs)
DW20	8241TT	OAL = 66" - 40" usable Taper, DW20 - Tapered Ø 28 - 34 mm	6,15 kg (13.5 lbs)

Custom Size Lengths Available upon Request
Tamano personalizado Longitudes disponibles a perticion

7792 CR - Emera® She-Bolt - DW15

Patent Pending



LEGEND:

Ø = Diameter

OAL = Overall Length

TL = Tapered Length

CL = Crimp Length

Hard Chrome Coating
Recubrimiento de Cromo Duro

Item - No Referencia	Dimension Dimensiones	Weight [kg] Peso [kg]
7792CR	(A) 25 mm / (B) 21 mm / (C) 160 mm (.98" / .91" / 6.25")	0,59 kg (1.30 lbs)

Custom Size Lengths Available upon Request
Tamano personalizado Longtidudes disponibles a peticion

Emera Combo Tool

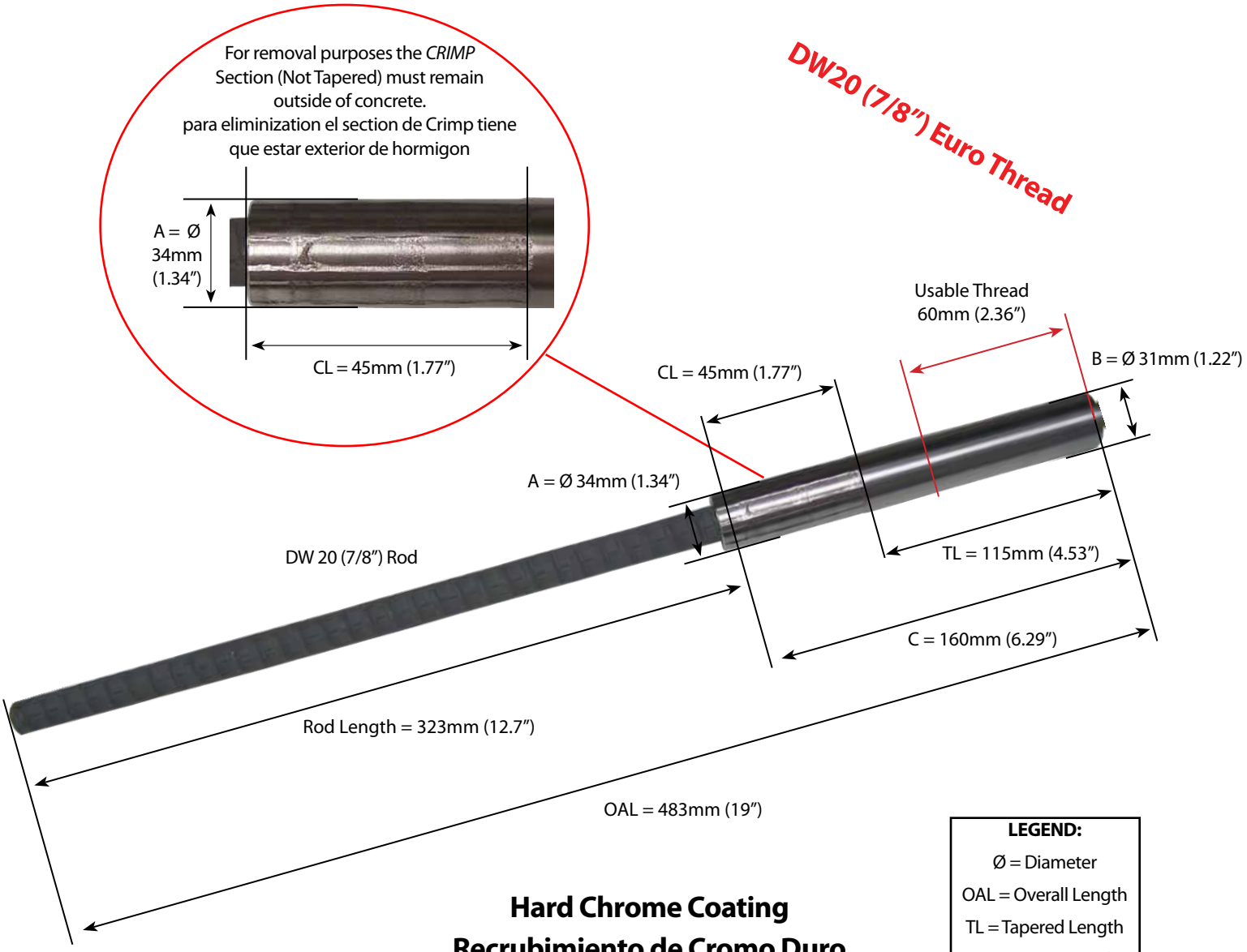
Used for removal of 15mm & 20mm She-Bolt

para eliminication de 15mm & 20mm She-Bolt

See page 13 - mira pagina 13

7982 - Emera® She-Bolt - DW20

Patent Pending



LEGEND:

Ø = Diameter

OAL = Overall Length

TL = Tapered Length

CL = Crimp Length

Hard Chrome Coating
Recrubimiento de Cromo Duro

Item - No Referencia	Dimension Dimensiones	Weight [kg] Peso [kg]
7982	(A) 34 mm / (B) 31 mm / (C) 160 mm (1.34" / 1.22" / 6.25")	1,2 kg (2.64 lbs)

Custom Size Lengths Available upon Request
Tamano personalizado Longitueds disponibles a peticion

Emera Combo Tool

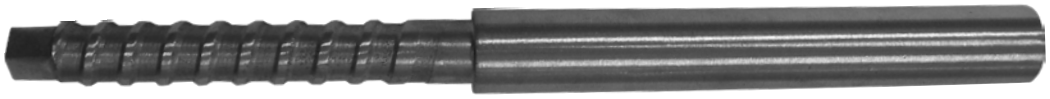
Used for removal of 15mm & 20mm She-Bolt

para eliminication de 15mm & 20mm She-Bolt

See page 13 - mira pagina 13

Custom Emera ® She-Bolts

She-Bolt - DW 15 - 1/2" Coil Inner Thread



Hard Chrome Coating
Recubrimiento de Cromo Duro

Machined From Solid Steel,
Dimensions according to your requirements
mecandizado a partir de acero sólido
dimensiones de acuerdo a sus necesidades

Coil She-Bolts - 3/4" Coil - 1/2" Coil Inner Thread

Hard Chrome Coating
Recubrimiento de Cromo Duro

Machined from Solid Steel,
Dimensions according to your requirements
mecanizado a partir de acero sólido
dimensiones de acuerdo a sus necesidades

Ø - Denotes Diameter
kN = 102 kgs.
kN = 225 lbs.

PE - Foot for Fix anchor

PE - base para ancla de montaje

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N22018	For N22016S	0,10 kg (0.22 lbs)
suitable for Fix anchor 15, incl. plug and stainless steel nails		
apto para ancla de montaje 15, incluído tapón y clavos de inoxidable		

Wedge clamp, round bar 8-10 mm (.32" - .39"), zinc plated

Cerrojo de cuña para varilla 8 – 10 mm (.32" - .39"), zincada

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23030	105 mm x 45 mm (4.14" x 1.77")	0,47 kg (1.04 lbs)

Tensioner for wedge clamp N23030, zinc plated

Llave de husillo para N23030, zincada

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23032	Ø 40 mm x 190 mm x 210 mm (Ø 1.58" x 7.49" x 8.27")	1,55 kg (3.42 lbs)

Spring clamp, round bar 5-10 mm (.20" - .39"), zinc plated

Tensor, varilla de 5 – 10 mm (.20" - .39"), zincado

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23031	110 mm x 75 mm (4.33" x 2.96")	0,46 kg (1.01 lbs)

Clamping Device for Spring Clamp N23031, Painted

Llave de cierre para tensor N23031, pintada

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
N23035	510 mm x 180 mm (20.09" x 7.09")	3,50 kg (7.72 lbs)

Formwork Alignment Clamps + Formwork Accessories
Mordazas de cierre y alineamiento + accesorios para encofrados

Max Opening - 200 mm (8")
Max Apertura - 200mm (8")

Steel Casting for Maximum Strength!

EMERA® Adjustable Clamp
EMERA® Mordaza Compensation
zinc plated - zincada

Suitable for Harris 1500
apta para Harris 1500

Designed & Produced by Emera a div. of Batz Corp.
Exclusively for A.H. Harris
Deseñado y Producido de Emera a dive. of Batz Corp.
Exclusivamente para A.H. Harris

Item - no. / referencia:
59728-AH

Weight / peso:
2.90 kg (6.4 lbs)

Steel Casting for Maximum Strength!

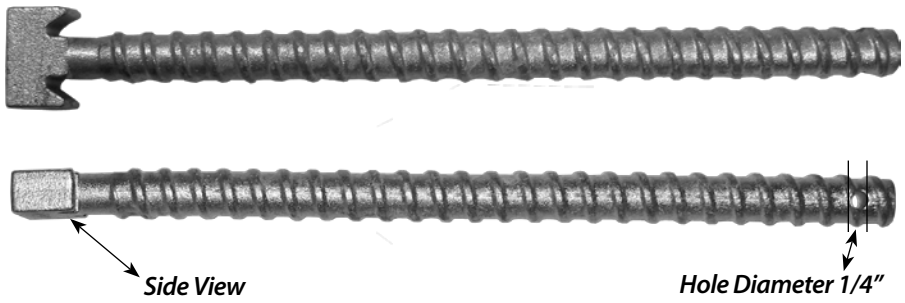
EMERA® Quickform Clamp
EMERA® Mordaza Quickform
zinc plated - zincada

Suitable for Harris 1500
apta para Harris 1500

Designed & Produced by Emera a div. of Batz Corp.
Exclusively for A.H. Harris
Deseñado y Producido de Emera a dive. of Batz Corp.
Exclusivamente para A.H. Harris

Item - no. / referencia:
59692-AH

Weight / peso
1,39 kg (3.04 lbs)



Suitable for Harris 1500 in Combination with the Combi Plate
Para Harris 1500 en combination con Tuerca

Designed & Produced by Emera a div. of Batz Corp.
Exclusively for A.H. Harris
Deseñado y Producido de Emera a dive. of Batz Corp.
Exclusivamente para A.H. Harris

Hammer Head Bolt
DW 15 Euro Thread
zinc plated - zincada

Length - 292.1mm (11.5")
Longitudo - 291.1mm (11.5")
Hole Diameter - 6mm (0.25")
Agujero diámetro (0.25")

Item - no. :
7873-AH

Weight / peso:
0,46 kg (1.02 lbs)

Corner Block - 1500
for Forming Profile

Designed & Produced by Emera a div. of Batz Corp.
Exclusively for A.H. Harris

Deseñado y Producido de Emera a dive. of Batz Corp.
Exclusivamente para A.H. Harris

Item - no. / referencia: 59790 - AH
Weight / peso 0,34 kg (0.75 lbs)

Clips, Brace Braket and Walkway Bracket

Designed & Produced by Emera a div. of Batz Corp.
Exclusively for A.H. Harris
Deseñado y Producido de Emera a dive. of Batz Corp.
Exclusivamente para A.H. Harris

Top Clip
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

Harris 1500
NOE Light
Quickform Light

Item - no. / referencia:
7975-AH

Weight / peso:
1,1 kg (2.42 lbs.)

Designed & Produced by Emera a div. of Batz Corp.
Exclusively for A.H. Harris
Deseñado y Producido de Emera a dive. of Batz Corp.
Exclusivamente para A.H. Harris

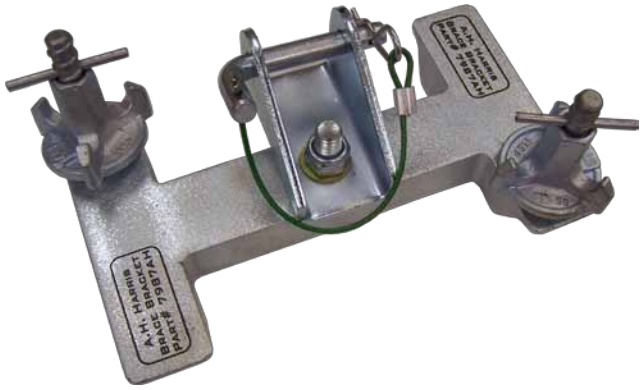
Foot Clip
zinc plated - zincada

suitable for the following formworks
apto para los siguientes encofrados

Harris 1500
NOE Light
Quickform Light

Item - no. / referencia:
7976-AH

Weight / peso:
1,1 kg (2.42 lbs.)



Harris 1500 Brace Bracket
zinc plated - zincada

Item - no. / referencia:
7987-AH

Weight / peso:
5,1 kg (11.3 lbs.)

Designed & Produced by Emera a div. of Batz Corp.
Exclusively for A.H. Harris
Deseñado y Producido de Emera a dive. of Batz Corp.
Exclusivamente para A.H. Harris

Harris 1500 Walkway Bracket
zinc plated - zincada

Item - no. / referencia:
8102

Weight / peso:
11,2 kg (24.5 lbs.)

Harris 1500 Guard Rail Post
zinc plated - zincada

Item - no. / referencia:
8103

Weight / peso:
4.55 kg (10.0 lbs.)

Designed & Produced by Emera a div. of Batz Corp.
Exclusively for A.H. Harris
Deseñado y Producido de Emera a dive. of Batz Corp.
Exclusivamente para A.H. Harris

Pipe Brace & Casted Foot Plate
Abrazadera de Tubería & Fundido Foot Plate

EMERA® Pipe Brace - Threaded on Both Ends
EMERA® Abrazadera de Tubería - roscada en extremos

Custom Size Lengths Available upon Request

Tamano personalizado Longitudes disponibles a peticion

Custom Color or Zinc Plated Available by order

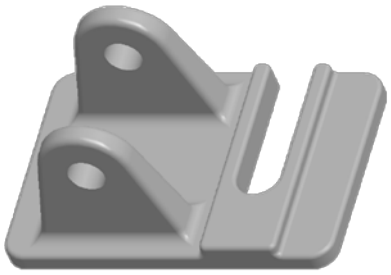
Color personalizado o zincada disponible por pedido

Item - No Referencia	Dimension Dimensiones	Weight [kg] Peso [kg]
7984-AH	Pipe Brace, including on pin L = 4 ft 10" to 9 ft 6" Threaded on both ends Powder Coated or Zinc Plated	20,0 kg (44 lbs)
7985-AH	Pipe Brace, including one pin L = 7 ft 8" to 13 ft 6" Threaded on both ends Powder Coated or Zinc Plated	26,0 kg (57.2 lbs)
7986-AH	Pipe Brace, including one pin L = 13 ft 5" to 25 ft 4" Threaded on both ends Painted or Zinc Plated	42,0 kg (92.4 lbs)

Outer Tube dia. 63.5mm (2.5") - Inner Tube dia. 51mm (2")

EMERA® Casted Foot Plate for Pipe Brace
EMERA® Fundido Foot Plate

zinc plated - zincada



Item - No Referencia	Dimension Dimensiones	Weight [kg] Peso [kg]
7987-AH5	150mm x 100mm (5.9" x 3.93")	1,44 kg (3.2 lbs.)

EMERA® L-Pin for Pipe Brace
EMERA® L-Pin para Abrzadera de Tubería

zinc plated - zincada

Item - No Referencia	Dimension Dimensiones	Weight [kg] Peso [kg]
7987-AH3	113mm x 53mm (4.4" x 2.08") Dia. 16mm (0.63") Wire + Cotter Pin Included	0.24 kg (0.54 lbs.)

Heavy Duty Steel Post Shores
Acero Puesto Orilla

Features:

- Safety Fact 3:1
- Fitted with Quick Release stripping pin for quick assembly and dismantling
- Zinc Plated is standard

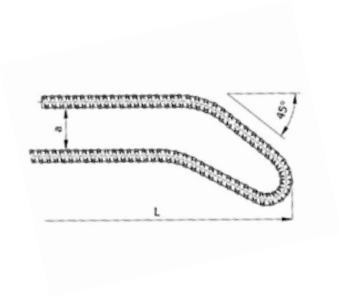
Item - No	Dimension	Weight [kg]
DB 350	Heavy Duty Steel Post Shore From 6 ft 6" to 11 ft Zinc Plated Outer Tube Dia. 76mm (3") Inner Tube Dia. 64mm (2.5")	27,0 kg (59.4 lbs)
DB 550	Heavy Duty Steel Post Shore From 10 ft 6" to 16 ft Zinc Plated Outer Tube Dia. 76mm (3") Inner Tube Dia. 64mm (2.5")	33,7 kg (74 lbs.)

Emera Euro Rods

Emera Euro Rod

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
15FA19-1	Emera Euro Thread DW15, L = 5.80mm (19" - 1") Working Load 90kN (20,232 lbs.)	8,35kg (18.37 lbs)
20FA19-1	Emera Euro Thread DW20, L = 5.80mm (19" - 1") Working Load 160 kN (36,000 lbs.)	15,00 kg (33 lbs)

Emera Loop Anchor Euro Rod



Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
15FA230LOO	Emera Loop Anchor DW15, L = 550mm (21.60") A = 230mm (9.05") Working Load 90kN (20,232 lbs.) each end	1,87 kg kg (4.11 lbs)
20FA300LOO	Emera Loop Anchor DW20, L = 600mm (23.60") A = 300mm (12.00") Working Load 160 kN (36,000 lbs.) each end	3,94 kg (8.70 lbs.)
26FA355LOO	Emera Loop Anchor DE26, L = 840mm (33") A = 355mm (13.75") Working Load 280kN (62.946 lbs.) each end	8,69 kg (19.20 lbs)

Emera Wave Anchor Euro Rod

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
15FA550WAV	Emera Wave Anchor DW15, L = 550mm (21.60") Working Load 90kN (20,232 lbs.)	0,996 kg (2.11 lbs.)
20FA700WAV	Emera Wave Anchor DW20, L = 700mm (27.55") Working Load 160kN (36,000 lbs.)	1,79 kg (3.9 lbs)
26FA800WAV	Emera Wave Anchor DW26, L = 800mm (31.50") Working Load 220kN (49.459 lbs.)	3,58 kg (7.88 lbs)

Emera Hook Anchor Euro Rod

Item - No referencia	Dimension dimensiones	Weight [kg] peso (kg)
15FA250OOK	Emera Hook Anchor DW15, L = 250mm (9.85") D = 120mm (4.72") Working Load 90kN (20,232 lbs.)	0,72 kg (1.59 lbs)
15FA450OOK	Emera Hook Anchor DW15, L = 450mm (17.72") D = 120mm (4.72") Working Load 90kN (20,232 lbs.	1,00 kg (2.20 lbs)
20FA600OOK	Emera Hook Anchor DW20, L = 600mm (23.60") D = 150mm (5.90") Working Load 160kN (36,000 lbs.)	2.23 kg (4.91 lbs.)
026FA800OOK	Emera Hook Anchor DW26, L = 800mm (31.50") D = 260mm (10.24") Working Load 220 kN (49459 lbs.)	6,00 kg (13.20 lbs.)

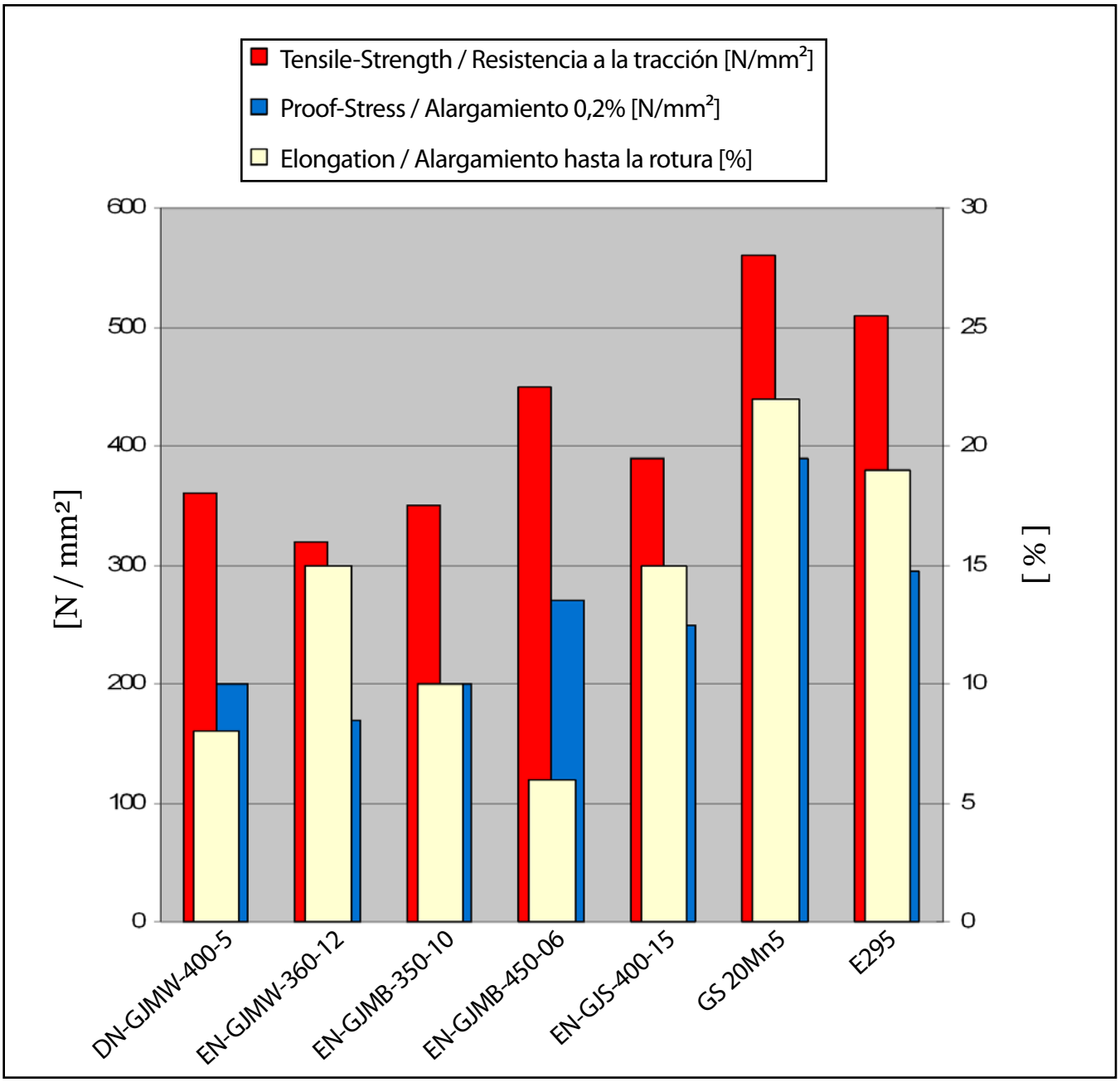
Comparative chart of iron and steel materials in wall thickness up to 15 mm

Tabla comparativa enre hierros y aceros para espesores de pared inferiores a los 15 mm

Material / Material	EN-GJMW-400-5	EN-GJMW-360-12	EN-GJMB-350-10	EN-GJMB-450-06	EN-GJS-400-15	GS 20Mn5	E295
Tensil-strength Resistencia a la tracción (N/mm^2)	360	320	350	450	390	560	510
Proof-stress Alargamiento 0,2% (N/mm^2)	200	170	200	270	250	390	295
Elongation Alargamiento hasta la rotura {%}	8	15	10	6	15	22	19

These mechanical properties are minimum values following DIN standards.

Se indican valores minimos conforme a las correspondientes normas DIN.



High Tensile strenght together with maximum elongation are the advantages of the steel casting. Another positive aspect lies in the weldability.

Las ventajas de la fundición de acero GS20Mn5 están en una elevada resistencia a la tracción y al mismo tiempo un máximo alargamiento antes de la rotura. Además, ests tipo de acero tiene una mejor soldabilidad en comparación a otros aceros.

Cast Iron
The formwork consists mainly of thin-walled casting because important areas – particularly in the screw thread sections – show a wall thickness of less than 5 mm. In this case decarbonised, so-called white malleable iron (EN-GJMW) is best suited of all the numerous iron-carbon based castings because the structure in the thin cross sections does not contain any temper carbon burls (as with EN-GJMB) or nodular developed graphite (as with EN-GJS) that impair the breaking strength and the tenacity.

The metallic base mass is "steel-like" in these sections and is therefore high-duty, tenacious and mouldable. With an increase in wall thickness (above approximately 8 mm) the strength properties of these materials (EN-GJMW, EN-GJMB and EN-GJS) balance out.

Malleable Cast Iron
can be cast easily into thin cross sections although with nodular cast iron slight problems with "edge strength" can occur in thin-walled sections or edges that can only be avoided by using special, expensive raw materials and exact inoculant methods when casting or eliminated by means of a costly annealing treatment process.

White Heart Malleable Cast Iron (EN-GJMW)
can be melted with a carbon content of approx. 3.1 % because of the subsequent decarbonising annealing treatment process. The cupola melting furnace is mainly used and well suited for this.

Black Heart Malleable Cast Iron (EN-GJMB)
is a material, that because of the non-decarbonising annealing in the liquid state, must have a low carbon content of approximately 2.4 % to guarantee the tensile strength and tenacity properties. This material can therefore not be produced in uniform quality directly from the cupola melting furnace. It is therefore usually melted in induction furnaces. In exceptional cases it was also melted in rotary drum type kilns or through duplex processing (cupola and induction furnace). This is why it is very important to take note of which melting process was used to produce the EN-GJMB and which tolerance limits in the carbon content can be kept.

Steel casting / forged steel
Graphitic inclusion in the structure is a characteristic of all cast iron alloys. In principle they influence the properties of the metallic base mass negatively. Steel alloys are free from such metallic inclusions so that the typical properties of the metal alloy are shown to full effect. Steel alloys are therefore better than iron-carbon cast materials with regards tensile strength and tenacity properties.

The manufacture of single parts can be performed by means of casting or with good hot forming properties by means of forging. Because of the high standards of technology available today, the properties of the parts produced using both these processes vary only minimally. The advantages of forging are improved fibre orientation and finer crystallisation of the steel as opposed to the advantages of casting which are a larger depth in variation of the alloy composition and that the microstructure can be influenced by means of micro-alloys. A point worth mentioning is that steel quality grades with less than 0.35 % C are easy to weld.

Possible feed faults with cast parts and doubling that can occur with forged parts are easily recognised using simple methods of testing. The casting processes have the advantage that inner contours (e.g. thread) and material undercuts can easily be shaped.

Hierro fundido
Los accesorios para encofrados, en su mayoria, son piezas con reducido espesor de paredes. Zonas críticas, como pueden ser las secciones con rosca, tienen espesores inferiores a los 5 mm. Para estas aplicaciones y teniendo en cuenta la gran variedad de aleaciones con base hierro-carbono, se adapta bien la fundición de hierro maleable de corazón blanco (EN-GJMW). En su estructura no hay nucleos de grafito como en la fundición maleable de corazón negro (EN-GJMB) ó la fundición de grafito esferoidal (EN-GJS) y que reducen la resistencia a la tracción y el alargamiento.

La base metálica, en las secciones finas, es tipo acero, de alta resistencia con buen alargamiento y dúctil. Con espesores crecientes (aprox. > 8 mm) las resistencias de estos tipos de fundición (GJMW, GJMB y GJS) son parecidos.

Fundición de hierro maleable
es adecuada para fundir piezas de secciones finas; en el caso de fundicón nodular hay posibilidad de obtener elevadas durezas en secciones finas ó en los cantos, lo cual se podría evitar utilizando materias primas de elevado coste y procesos sofisticados de inoculación durante la colada ó posteriores tratamientos térmicos.

Maleable de corazón blanco (EN-GJMW)
se puede fundir con 3,1 % de carbono ya que posteriormente se realiza un tratamiento térmico en atmósfera oxidante. El cubilote es un horno muy adecuado para la producción de esta fundición.

Maleable de corazón negro (EN-GJMB)
se obtiene con un tratamiento térmico en atmósfera neutra, lo cual, al no retirar carbono de la pieza, obliga a fundir con un porcentaje de carbono de aprox. 2,4 % para obtener las características de resistencia y alargamiento adecuadas. Para la fusión de este metal no se puede utilizar el cubilote, se utilizan hornos de inducción, ó bién sistema duplex (cubilote – horno inducción). En contados casos se funde en hornos rotativos. Todo esto obliga a vigilar mucho todo el proceso de fundición y a verificar las tolerancias del porcentaje de carbono alcanzables.

Acero fundido / acero forjado
Todas las aleaciones de hierro fundido contienen grafito en su estructura, y éste tiene una influencia negativa sobre las características de la base metálica. Las aleaciones de acero están libres de grafito y en consecuencia la resistencia a la tracción y el alargamiento son superiores a los hierros fundidos.

La fabricación de las diversas piezas se puede realizar por fundición del acero ó mediante forjado, gracias a que éste tiene buenas características para ser forjado en caliente. El nivel actual de la técnica permite obtener piezas con características semejantes. Mediante la forja se obtiene una mejora en el sentido de las fibras y células menores en su estructura, mientras que la fundición permite utlizar una mayor gama de aleaciones para mejorar la microestructura. Hay que mencionar que los aceros con contenidos de carbono inferiores al 0.35 % son fácilmente soldables.

En las piezas fundidas pueden aparecer defectos por falta de alimentación y en las forjadas por falsa unión. Estos defectos se pueden detectar con controles sencillos. La ventaja de la fundición es de que se pueden obtener directo de fundición las roscas y zonas sin salida.

TERMS

ORDERS PLACED WITH EMERA CONSTITUTES ACCEPTANCE OF THE FOLLOWING:

1 . TERMS

» Normal terms are Net 30, upon credit approval.
» A finance chare of .8333/month (10% per annum) will be charged on all accounts over 30 days.
» In the event legal action become necessary to collect all or a portion of this account, it is understood that buyers shall be liable for all attorney fees, court costs, and collection fees incurred.
» A $25 service charge will be applied for each returned check!
» New Accounts will be shipped COD or Credit Card until credit is established. We accept VISA, Mastercard, Discover, and American Express as a form of payment.

2 . FREIGHT

» All goods are FOB point of shipment. Unless prior arrangements have been made, routing and method of shipment will be made by EMERA. Truck shipments are shipped on a freight collect basis unless other arrangements are made.

3. MINIMUM ORDERS

» Our minimum orders are set at $50. A $10 fee will be applied to all orders under $50. This does not apply to backorders.

4. BACKORDERS

» All items not shipped will be backordered and shipped when available, unless otherwise instructed. If you do not want backorders, please state on your orders.

5. SHORTAGES & CLAIMS

» All claims for hidden shortages must be made within 10 days after delivery
» We will not accept returned goods without authorization.
» We will not accept merchandise after 60 days from the purchase invoice date.
» All orders that leave our warehouse are sent in a safe and secure manner. We are not responsible for damage en route caused by any mishandling of the packages.
» If, for any reason, shipment is delivered broken, mutilated or incomplete, purchaser should refuse to receive shipment unless carrier acknowledges shipment as being "SHORT" or "IN BAD ORDER" and makes note of claim.
» Since proof of damage or short shipment is in Purchaser's possession, EMERA cannot file claim. Claims must be filed by purchaser.
» Always save the Bill of Lading and paid freight receipt. Carrier will demand these documents when considering a claim.

6. RETURNS

» On items returned to EMERA for any reason other than defect or wrong item shipped, there will be a charge of 10% of the invoice value of the item or items returned to the customer for handling and restocking. Customer will pay the freight cost of the return. In case of wrong items being shipped, EMERA will credit the customer for the return freight cost.

7. SAFETY NOTICE

» EMERA warrants that material delivered to buyer will be as described in our current catalog. EMERA and/or its employees make no warranty that the materials are merchantable or that they are fit for a particular purpose.
» It is the obligation of the user to determine whether or not each item is suited for its intended use.

8. WARRANTIES

» All products sold by EMERA are thoroughly inspected, however, it is not always possible to detect hidden defects. EMERA products are warranted in that we will replace defective items without charge provided both the product and proof of purchase are returned to EMERA with (30) days of purchase.
» This warranty does not include any expense arising from consequential damages or normal wear expected in the use of the product.
» This warranty is the only warranty made and is expressly in lieu of all other warranties expressed or implied including warranties of merchant ability and fitness for a particular purpose.

Notes:

Distribution and Sales: