



catalogue

formwork accessories 2021



**H.M.R.-Técnica de Plásticos
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Systems for Economic Construction

Formwork Accessories Catalogue 2021

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COMPANY PROFIL

H.M.R. is a quality leading manufacturer of formwork accessories and other customized plastic products located in Castelo Branco in the center of Portugal, near the Spanish border.

The company was founded in 1991, employs around 25 people and is specialized in the production of precision plastic products, formwork accessories and extrusion profiles.

Our products are used in several branches as the automotive industries, electronic devices, vertical blinds, and measuring instruments. We are also a leading producer of formwork plastic accessories for the construction industry on the Iberian peninsula.

INJECTION MOULDING PLASTICS

H.M.R. produces moulds for different industries. For example the automotive industry but also for the use in blinds, for point-of-sale-displays, for electronic products or for office furniture. All those products are produced on German machines made by Arburg with high quality brand material to assure a constant quality. We also produce products for the construction sector that are made of recycled plastic materials.

We are equipped with machines ranging from 35 tons to 160 tons of clamping power and we can produce parts up to approximately 300 gramms. We can also inject around cord or metal according to the customers demands. We can use most types of thermoplastic materials also reinforced types with carbon or glass fibre.

We can also support you in just-in-time logistic and label all delivered products with barcode for a smooth flow of the materials from the manufacturer to the end-user. Our aim is to support you in any possible way to improve your business. From the single part up to the complete assembly to a unit.

MOLDING DEPARTMENT

H.M.R. can also produce molds for different applications. We are equipped with several machines to make drilling, erosion and other works on moulds or other products that need accuracy and exactness. We can change, repair or build complete moulds.

We are operating one milling center „Hermle“ and a spark erosion machine by GF Charmilles and also a Fanuc wire erosion machine. Molds can be designed in 3D and the corresponding data generated by CAM Software.

EXTRUSION DEPARTMENT

H.M.R. is one of Portugals leading extrusion companies. We are producing many million meters or 1.500 tons of PVC profiles per year. We have seven lines of extrusion working 24 hours on five days per week. This allows us to produce even huge quantities on time. The profiles are extruded of PVC and we have a lot of experience with recycled materials - for the benefit of nature and your costs. We use high quality German machines to ensure a smooth and reliable process of production.

H.M.R. has optimized machinery for the production even in big quantities and with our own trucks and a large storage area for finished products and raw material the optimal logistics for successful operation.



Distance Strip with lateral gaps Type 111B / Track Spacer

Abstandleiste mit seitlicher Aussparung Typ 111B

Perfil distanciador Tipo 111B

Profilé Distanceur Type 111B (Cale horizontale)



Perfil separador tipo 111B



The economical kind of large distance holder. Put on the formwork in adequate distance, add the steel mats – ready! Available in 2,00 m, 2,50 m and 3,00 m.



Die wirtschaftlichste Art der großflächigen Abstandhalter. Auf der Schalung in entsprechendem Abstand auflegen. Stahlmatten drauf – fertig. Lieferbar in 2,00 m, 2,50 m und 3,00 m.



Suporte PVC para a distância e o nivelamento da armadura na placa de betão. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Support PVC pour écarter et niveler les armatures dans la dalle de béton. Disponible en longueur 2,00 m, 2,50 m e 3,00 m.



Soporte PVC para la distancia y nivelación de armadura en la placa de hormigón. Disponible en longitudes 2,00 m, 2,50 m y 3,00 m.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-811-XX-33	15 mm / 0,59"	100 m	12,5 kg	6.000 m	750,0 kg
1-812-XX-33	20 mm / 0,79"	100 m	14,5 kg	00 = 5.400 m 01 = 5.600 m	783,0 kg 812,0 kg
1-813-XX-33	25 mm / 0,98"	100 m	16,5 kg	00 = 5.400 m 01 = 4.900 m	891,0 kg 808,5 kg
1-814-XX-33	30 mm / 1,18"	100 m	18,0 kg	4.200 m	756,0 kg
1-815-XX-33	35 mm / 1,38"	40 m / 50m*	14,5 kg	3.000 m	870,0 kg
1-816-XX-33	40 mm / 1,57"	40 m / 50m*	14,0 kg	3.000 m	1.050,0 kg
1-817-XX-33	45 mm / 1,77"	40 m	15,0 kg	2.000 m	750,0 kg

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m / * = for 2,50 m length

Distance Strip with lateral gaps H-shape Type 111B / Track Spacer

Abstandleiste mit seitlicher Aussparung H-Form Typ 111B

Perfil distanciador H-formato Tipo 111B

Profilé Distanceur format-H type 111B (Cale horizontale)

Perfil separador, forma H, tipo 111B



The economical kind of large distance holder. Put on the formwork in adequate distance, add the steel mats – ready! Available in 2,00 m, 2,50 m and 3,00 m.



Die wirtschaftlichste Art der großflächigen Abstandhalter. Auf der Schalung in entsprechendem Abstand auflegen. Stahlmatten drauf – fertig. Lieferbar in 2,00 m, 2,50 m und 3,00 m.



Suporte PVC para a distância e o nivelamento da armadura na placa de betão. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Support PVC pour écarter et niveler les armatures dans la dalle de béton. Disponible en longueur 2,00m, 2,50 m e 3,00 m.



Soporte PVC para la distancia y nivelación de armadura en la placa de hormigón. Disponible en longitudes 2,00 m, 2,50 m y 3,00 m.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-832-XX-33	35 mm / 1,38"	50 m	12,9 kg	3.000 m	774,0 kg
1-833-XX-33	40 mm / 1,57"	50 m	13,5 kg	3.000 m	810,0 kg
1-835-XX-33	50 mm / 1,97"	40 m	12,8 kg	2.000 m	640,0 kg
1-836-XX-33	60 mm / 2,36"	40 m	14,0 kg	1.600 m	490,0 kg
1-837-XX-33	70 mm / 2,76"	40 m	15,2 kg	1.400 m	532,0 kg



XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m

Distance Strip with lateral holes U-shape type Iso for Styrofoam

Abstandleiste mit seitlicher Lochung U-Form Typ Iso

Perfil distanciador com furos laterais U-formato tipo Iso

Profilé Distanceur avec trous latéraux format U type Iso (Cale horizontale)

Perfil separador con agujeros laterales, forma U, tipo Iso



Extensive distance holder for insulation material. Available in 2,00 m, 2,50 m and 3,00 m.



Großflächiger Abstandhalter auf Dämmstoffplatten. Lieferbar in 2,00 m, 2,50 m und 3,00 m.



Suporte PVC para a distância e o nivelamento da armaduras sobre material isolante. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Support PVC pour écarter et niveler les armatures dans la pose sur isolant. Disponible en longueur 2,00 m, 2,50 m e 3,00 m.



Soporte de PVC para la distancia y nivelación de armadura sobre material aislante. Disponible en longitudes 2,00 m, 2.50 m. y 3,00 m.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-828-XX-33	15 mm / 0,59"	100 m	12,5kg	6.000 m	840,0 kg
1-805-XX-33	20 mm / 0,79"	100 m	14m5 kg	5.400 m	864,0 kg
1-823-XX-33	25 mm / 0,98"	100 m	18,0 kg	5.400 m	972,0 kg
1-824-XX-33	30 mm / 1,18"	100 m	23,0 kg	4.200 m	966,0 kg
1-825-XX-33	35 mm / 1,38"	50 m	15,0 kg	3.000 m	900,0 kg
1-826-XX-33	40 mm / 1,57"	40 m / 50 m*	16,5 kg	3.000 m	1.237,5 kg
1-827-XX-33	50 mm / 1,97"	40 m / 50 m*	26,0 kg	2.000 m	1.300,0 kg

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m / * = for 2,50 m length

Please note that heights 15 and 20 mm are delivered without lateral holes.

**Distance Strip without lateral gaps
Type II / Track Spacer**

**Abstandleiste ohne seitlicher
Aussparung Typ II**

**Perfil distanciador sem furos laterais
Tipo II**

**Profilé Distanceur Type II
(Cale horizontale)**

**Perfil separador sin agujeros laterales
Tipo II**



Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-828-XX-33	15 mm / 0,59"	100 m	12,5 kg	6.000 m	750,0 kg
1-805-XX-33	20 mm / 0,79"	100 m	14,5 kg	00 = 5.400 m 01 = 5.600 m	783,0 kg 812,0 kg
1-806-XX-33	25 mm / 0,98"	100 m	14,5 kg	00 = 5.400 m 01 = 4.900 m	783,0 kg 710,5 kg
1-807-XX-33	30 mm / 1,18"	100 m	20,0 kg	4.200 m	840,0 kg
1-808-XX-33	35 mm / 1,38"	40 m / 50m*	13,0 kg	3.000 m	975,0 kg
1-809-XX-33	40 mm / 1,57"	40 m / 50m*	14,0 kg	3.000 m	1.050,0 kg
1-810-XX-33	45 mm / 1,77"	40 m	15,0 kg	2.000 m	750,0 kg

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m / * = for 2,50 m length

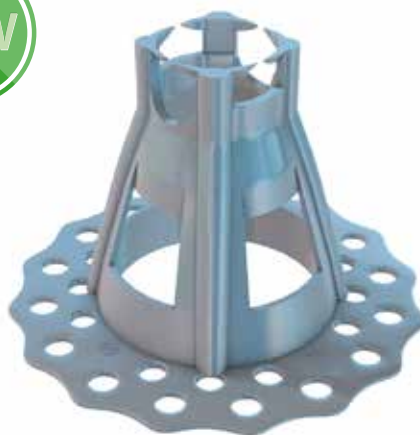
Styrofix Extra Distance Holder

Styrofix Extra Abstandhalter

Distanciador Styrofix Extra

Distanceur Styrofix Extra

Separador Styrofix Extra



Specially designed spacer for soft surface. Very sturdy and suitable and big surface contact for diameters up to 16mm.



Spezialabstandshalter für den Einsatz auf weichem Untergrund. Besonders stabile Ausführung mit Eisenaufnahme bis 16mm Durchmesser. Geprüft gem. DBV-Merkblatt Abstandhalter DBV-L2



Espaçador especialmente projetado para superfícies macias. Muito resistente e adequado para diâmetros de até 16mm.



Espaceur spécialement conçu pour les surfaces molles. Très robuste et adapté aux diamètres jusqu'à 16 mm.



Separador especialmente diseñado para superficies blandas. Muy resistente y adecuado para diámetros de hasta 16 mm.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-183-11-33	25 / 30 mm	500 pcs.		500	
1-184-11-33	40 / 50 mm	200 pcs.		200	
1-185-11-33	50 / 60 mm	100 pcs.		100	
1-186-11-33	60 / 70 mm	100 pcs.		100	
1-187-11-33	70 / 80 mm	100 pcs.		100	
1-188-11-33	90 / 100mm	100 pcs.		100	

XX = colour code: 33 = grey (standard); 11 = white

Clamping jaws 6-16mm

Dranfix / Klemmböckchen 6-16mm

Cavaletes 6-16mm

Chevalets (Cale) 6-16mm

Caballete 6-16 mm.



Distance holder made of plastic used at the cross point of the reinforcement for high stability. Available in grey and white.



Abstandhalter aus Plastik mit großer Stabilität zur Klemmung an den Kreuzungen der Baustahlmatte. Lieferbar in grau und weiss.



Suporte para a distância e o nivelamento da armadura. Usa-se na transposição da armadura para alta estabilidade. Disponível nas cores cinza e branco.



Support pour écarter et niveler les armatures dans la dalle de béton. Est utilisé dans la transposition des armatures avec une haute stabilité. Disponible en couleur grise e blanche.



Soporte para la distancia y nivelación de la armadura. Se utiliza en los puntos de cruce de armadura para una alta estabilidad. Disponible en gris y blanco

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-100-11-XX	10 mm / 0,39"	1.000 pcs.	2,5 kg	5.000 pcs.	12,5 kg
1-101-11-XX	15 mm / 0,59"	1.000 pcs.	3,3 kg	5.000 pcs.	16,5 kg
1-102-11-XX	20 mm / 0,79"	500 pcs.	2,2 kg	2.500 pcs.	11,0 kg
1-178-25-XX	25 mm / 0,98"	500 pcs.	2,7 kg	2.500 pcs.	13,5 kg
1-178-30-XX	30 mm / 1,18"	500 pcs.	3,1 kg	2.000 pcs.	12,4 kg
1-179-35-XX	35 mm / 1,38"	250 pcs.	2,2 kg	1.500 pcs.	13,2 kg
1-179-40-XX	40 mm / 1,57"	250 pcs.	2,5 kg	1.250 pcs.	12,5 kg
1-179-45-XX	45 mm / 1,77"	125 pcs	1,5 kg	1.000 pcs	12,0 kg
1-179-50-XX	50 mm / 1,97"	125 pcs.	1,7 kg	1.000 pcs.	13,6 kg

XX = colour code: 33 = grey; 11 = white



Chair Spacer

Abstandshalter offen

Distanciador banco

Distanceur siège

Separador Taburete



Easy to use distance holder for various steel diameters for horizontal reinforcement.



Einfacher Abstandshalter für eine Vielzahl von Stahldurchmessern für horizontale Bewehrung.



Suporte para a distância e o nivelamento da armadura na cofragem do piso.



Support pour écarter et niveler les armatures dans la dalle de béton.



Soporte para la distancia y nivelación de armadura horizontal.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-103-11-XX	10 mm / 0,39"	1.000 pcs.	2,12 kg	5.000 pcs.	10,6 kg
1-104-11-XX	15 mm / 0,59"	1.000 pcs.	3,10 kg	2.500 pcs.	7,75 kg
1-105-11-XX	20 mm / 0,79"	500 pcs.	2,05 kg	2.500 pcs.	10,25 kg
1-106-11-XX	25 mm / 0,98"	500 pcs.	2,84 kg	2.500 pcs.	14,2 kg
1-107-11-XX	30 mm / 1,18"	500 pcs.	3,60 kg	2.500 pcs.	18,0 kg

XX = colour code: 33 = grey (standard); 11 = white

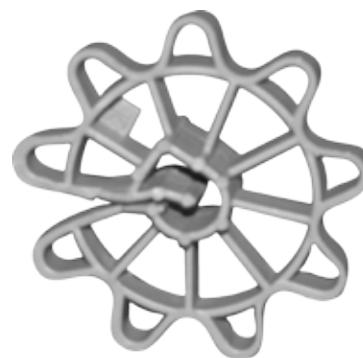
Distance holder type Z

Abstandhalter Typ Z

Distanciador Estrella Tipo Z

Distanceur étoile Tipe Z (Cale ronde)

Separador Estrella Tipo Z



Universal distance holder for standing and lying reinforcement.



Der vielseitige Abstandhalter für stehende oder liegende Bewehrung. Je nach gewünschter Betonüberdeckung.



Distanciador para armaduras verticais ou horizontais (Piso e paredes).



Support pour écarter et niveler les armatures verticales ou horizontales (Dalles et murs).



Separador de armadura vertical o horizontal (piso y paredes)

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
For Diameter 6 – 12 mm					
1-701-00-XX	15 mm / 0,59"	1.000 pcs.	3,4 kg	5.000 pcs.	17,0 kg
1-702-00-XX	20 mm / 0,79"	500 pcs.	1,7 kg	5.000 pcs.	17,0 kg
1-135-11-33	25 mm / 0,98"	500 pcs.	2,8 kg	4.000 pcs.	22,4 kg
1-129-11-33	30 mm / 1,18"	500 pcs.	3,9 kg	2.000 pcs.	15,6 kg
1-705-00-XX	35 mm / 1,38"	200 pcs.	2,2 kg	1.000 pcs.	11,0 kg
1-706-00-XX	40 mm / 1,57"	125 pcs.	2,0 kg	1.000 pcs.	16,0 kg
For Diameter 8 – 16 mm					
1-180-11-XX	50 mm / 1,97"	100 pcs.	2,2 kg	500 pcs.	11,0 kg
For Diameter 8 – 20 mm					
1-703-20-XX	25 mm / 0,98"	250 pcs.	2,0 kg	1.000 pcs.	8,0 kg
1-704-20-XX	30 mm / 1,18"	125 pcs.	1,4 kg	1.000 pcs.	11,2 kg
1-705-20-XX	35 mm / 1,38"	125 pcs.	2,8 kg	1.000 pcs.	22,4 kg
1-706-20-XX	40 mm / 1,57"	125 pcs.	3,8 kg	500 pcs.	15,2 kg
1-707-20-XX	50 mm / 1,97"	50 pcs.	2,0 kg	250 pcs.	10,0 kg



XX = colour code: 33 = grey; 11 = white

Star-Spacer

Abstandshalter „Stern“

Distanciador Estrela

Distanceur étoile (Cale ronde)

Separador Estrella



Universal distance holder for standing and lying reinforcement. Steel diameter from 4 to 10 mm.



Der vielseitige Abstandhalter für stehende oder liegende Bewehrung. Je nach gewünschter Betonüberdeckung. Stahldurchmesser von 4 bis 10 mm.



Distanciador para armaduras verticais ou horizontais (Piso e paredes). Diâmetro de 4 à 10 mm.



Support pour écarter et niveler les armatures verticales ou horizontales (Dalles et murs). Diamètre de 4 à 10 mm.



Separador de armadura vertical o horizontal (piso y paredes). Diámetro 4 hasta 10 mm.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-099-11-XX	15 mm / 0,59"	1.000 pcs.	2,7 kg	5.000 pcs.	13,5 kg

XX = colour code: 33 = grey; 11 = white

Rectangle distance holder

Rechteckabstandhalter

Distanciador rectangular

Distanceur rectanglar (Cale)

Separador rectangular



Large area distance holder made of plastic with good stability.



Grossflächiger Abstandhalter aus Kunststoff mit guter Stabilität.



Distanciador rectangular para boa estabilidade da armadura sobre superfícies grandes. Reforça o piso.



Distanceur rectangulaire- support adapté pour les armatures des dalles avec grandes surfaces. Renforce la dalle avec haute stabilité.



Separador rectangular para una buena estabilidad de armadura en grandes superficies horizontales.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-791-00-XX	15 mm / 0,59"	250 pcs.	6,6 kg	10.000 pcs.	264,0 kg
1-792-00-XX	20 mm / 0,79"	125 pcs.	3,5 kg	10.000 pcs.	280,0 kg
1-793-00-XX	25 mm / 0,98"	125 pcs.	4,0 kg	7.500 pcs.	240,0 kg
1-794-00-XX	30 mm / 1,18"	125 pcs.	4,2 kg	6.250 pcs.	210,0 kg
1-795-00-XX	35 mm / 1,38"	125 pcs.	4,5 kg	5.000 pcs.	180,0 kg

XX = colour code: 33 = grey; 11 = white

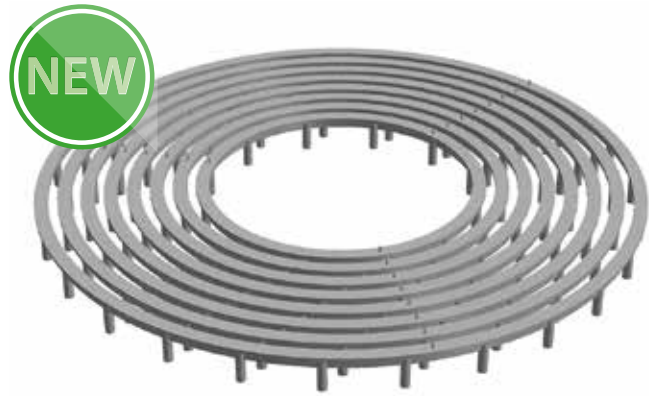
Ring distance holder

Ring-Abstandhalter

Distanciador circular

Distancer circulaire (Cale)

Separador Circular



Round large area spacer for the lower reinforcement. One set consists of 8 rings that can be divided easily and distributed over the formwork. Outside diameter 33 cm to inside diameter 14,5 cm.



Runder, grossflächiger Abstandhalter für die untere Bewehrung. Ein Set besteht aus 8 Ringen die einfach getrennt und auf der Schalung verteilt werden können. Aussendurchmesser von 33 cm bis 14,5 cm.



Distanciador circular para as armaduras em superfícies grandes. Reforça e estabiliza o piso. É um conjunto de 8 anéis que podem ser facilmente divididos e distribuídos ao longo da cofragem.



Distanceur circulaire- support adaptée pour les armatures des dalles avec grandes surfaces. L'ensemble est constitué par 8 bagues détachables e facilement distribués sur la surface. Renforce et stabilise la dalle.



Separador circular para armadura en grandes superficies. Refuerza y estabiliza el piso. Es un conjunto de 8 anillos que se pueden dividir y distribuir fácilmente a lo largo del encofrado.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-189-15-XX	15 mm / 0,59"	50 x 8 pcs.	12,0 kg	48 bags	576,0 kg
1-189-20-XX	20 mm / 0,79"	50 x 8 pcs.	12,5 kg	36 bags	450,0 kg
1-189-25-XX	25 mm / 0,98"	50 x 8 pcs.	13,0 kg	28 bags	364,0 kg
1-189-30-XX	30 mm / 1,18"	50 x 8 pcs.	13,5 kg	24 bags	324,0 kg

XX = colour code: 33 = grey; 11 = white

Primafix Distance Holder

Primafix Abstandshalter

Distanciador de Fixação Primafix

Distanceur avec Fixation Multi anguler (Cale) Primafix

Separador de fijación Primafix



Larger area spacer that can be sequentially snapped together. Very easy to use and to apply and little contact to the surface. The spacers can be connected in different angels to avoid straight lines.



Großflächiger Abstandshalter die reihenweise verbunden werden können. Sehr einfach zu verwenden mit sehr geringem Oberflächenkontakt. Die Abstandshalter können in verschiedenen Winkeln verbunden werden um gerade Linien zu verhindern.



Distanciador multi angular usado em superfícies grandes para reforçar e estabilizar o piso. Permite as fixações sob diferentes ângulos.



Distanceur multi anguler- support pour les armatures des dalles avec grandes surfaces. Peut être fixer sous plusieurs angles.



Separador multiángulo utilizado en grandes superficies para reforzar y estabilizar el piso. Permite fijaciones en diferentes ángulos.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-176-20-33	20 mm / 0,79"	100 m	8,3 kg	3.600 m	298,8 kg
1-176-25-33	25 mm / 0,98"	100 m	10,0 kg	3.000 m	300,0 kg
1-176-30-33	30 mm / 1,18"	100 m	11,4 kg	2.400 m	342,0 kg
1-176-35-33	35 mm / 1,38"	80 m	12,8 kg	2.400 m	384,0 kg
1-176-40-33	40 mm / 1,57"	80 m			
1-176-50-33	50mm / 1,97"	80 m			

Snap-in Distance Holder

Steckbare Abstandsleiste

Distanciador de Fixação Sequencial

Distanceur pour Fixation Séquentiel (Cale)

Separador de fijación secuencial



Larger area spacer that can be sequentially snapped together with a grid distance of 50 cm and little minimum surface contact.



Großflächiger Abstandshalter die in 50 cm Abständen ohne Hilfsmittel verbunden werden können. Optimaler Betondurchfluss und minimale Auflagefläche.



Distanciador sequencial usado em superfícies grandes para reforçar e estabilizar o piso. Permite as fixações sequenciais.



Distanceur séquentiel support pour les armatures des dalles avec grandes surfaces. On peut les fixer séquentiellement.



Separador secuencial utilizado en grandes superficies para reforzar y estabilizar pisos. Permite fijaciones secuenciales.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-660-00-XX	15 mm / 0,59"	100 m	7,0 kg	5.200 m	364,0 kg
1-661-00-XX	20 mm / 0,79"	100 m	9,8 kg	6.000 m	588,0 kg
1-662-00-XX	25 mm / 0,98"	100 m	10,2 kg	6.000 m	612,0 kg
1-663-00-XX	30 mm / 1,18"	100 m	10,6 kg	3.600 m	381,6 kg
1-664-00-XX	35 mm / 1,38"	100 m	11,0 kg	3.000 m	330,0 kg
1-665-00-33	40 mm / 1,57"	80 m	9,6 kg	2.400 m	288,0 kg
1-666-00-33	50 mm / 1,97"	80 m	10,8 kg	1.920 m	259,2 kg

XX = colour code: 33 = grey; 11 = white

Piling Wheel

PFahlgründungsring

Distanciador Pilar Redondo

Distanceur Pilier Rond

Separador Pilar Redondo



A clip-on pile cage spacer to provide a quick, reliable method of spacing for bored piling and diaphragm walling.



Aufsteckbarer Abstandshalter für die schnelle und verlässliche Anwendung.



Distanciador para armaduras verticais (pilares com grande espessura).



Support pour écarter et niveler les armatures verticales (Piliers ou murs avec grande épaisseur).



Separador de armadura vertical (pilares de gran espesor)

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-181-11-33	50 mm / 8–16 mm 1,97" / 0,31"–0,63"	50 pcs.		3.000 pcs.	
1-114-11-33	75 mm / 8–16 mm 2,95" / 0,31"–0,63"	50 pcs.		3.000 pcs.	



Colour code: 33 = grey (standard)

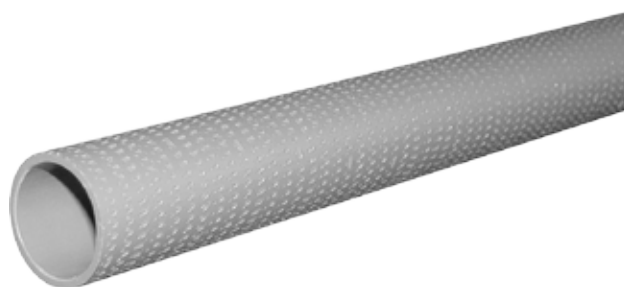
Distance tube

Distanzrohr

Tubo distanciador

Tube distanceur (entretoise)

Tubo distanciador



For all commercial tie rods the convenient PVC – plastic tube. With roughened or plain surface. Available in 2,00 m, 2,50 m and 3,00 m.



Für jeden handelsüblichen Schalungsanker das passende Kunststoffrohr. Glatt oder aufgerauhte Oberfläche. Lieferbar in 2,00 m, 2,50 m und 3,00 m.



Tubo distanciador, com superfície lisa ou áspera, para cortar. Para apertar a cofragem vertical. Determina a largura das paredes. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Tube distanceur à découper ; existe en surface lisse ou strié. Pour fixer les planches du coffrage vertical (murs).Détermine la largeur du mur. Disponible en longueur 2,00 m, 2,50 m e 3,00 m.



Tubo distanciador, con superficie lisa o rugosa, para cortar. Para encofrados verticales. Determina el espesor de las paredes. Disponible en longitudes 2,00 m, 2,50 m e 3,00 m.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-840-XX-33	14 x 19 mm	50 m	8,0 kg	3.000 m	480,0 kg
1-841-XX-33	20 x 24 mm	50 m	8,5 kg	2.500 m	425,0 kg
1-842-XX-33	20 x 25 mm	50 m	10,0 kg	2.500 m	500,0 kg
1-843-XX-33	20 x 26 mm	50 m	10,5 kg	2.500 m	525,0 kg
1-844-XX-33	22 x 25 mm	50 m	10,0 kg	3.200 m	640,0 kg
1-845-XX-33	22 x 26 mm	50 m	10,9 kg	2.450 m	536,0 kg
1-846-XX-33	22 x 28 mm	50 m	13,7 kg	2.450 m	688,0 kg
1-847-XX-33	26 x 30 mm	50 m	12,5 kg	2.100 m	525,0 kg
1-848-XX-33	26 x 32 mm	50 m	18,0 kg	2.500 m	900,0 kg
1-849-XX-33	30 x 36 mm	30 m	13,0 kg	1.500 m	650,0 kg
1-850-XX-33	32 x 36 mm	30 m	8,0 kg	1.500 m	350,0 kg
1-851-XX-33	32 x 38 mm	30 m	13,0 kg	1.500 m	550,0 kg
1-852-XX-33	34 x 40 mm	30 m	14,0 kg	1.500 m	575,0 kg
1-853-XX-33	49 x 54 mm	30 m	16,0 kg	900 m	465,0 kg

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m

Fixed cones

Aufsteckkonen

Cone de inserção

Cone d'insertion

Cono de inserción



Higher pressure receiving the stretching point possible. Seal at the same time the stretching point with the formwork. Repeated utilization. 10 mm of overlapping.



Höhere Druckaufnahme der Spannstelle möglich. Gleichzeitig wird die Spannstelle mit der Schalung abgedichtet. Mehrfach wiederverwendbar. 10 mm Überdeckung.



Cone de inserção para o tubo distanciador. Suporta mais pressão na zona de aperto. Efeito vedante contra a cofragem. Estende o tubo de 10 mm de cada lado.



Embout pour le tube distanceur. Cône d'étanchéité pour protéger et supporter plus de pression dans la zone de fermeture. Extension du tube de 10mm de chaque côté.



Cono de inserción para tubo distanciador. Resiste más a la presión en la zona de sujeción. Efecto de sellado contra el encofrado. Extiende el tubo de 10 mm. en cada lado.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-696-00-33	14 mm / 0,55"	500 pcs.	2,0 kg		
1-697-00-33	20 mm / 0,79"	500 pcs.	2,5 kg	3.000 pcs.	15,0 kg
1-006-11-33	22 mm / 0,87"	500 pcs.	2,5 kg	3.000 pcs.	15,0 kg
1-698-00-33	26 mm / 1,02"	500 pcs.	4,0 kg		
1-699-00-33	32 mm / 1,26"	500 pcs.	4,2 kg	2.500 pcs.	21,0 kg

Lock pins

Verschlusszapfen

Tampão-PE

Bouchons pour la finition

Tapón PE



Put them in the distance tube – ready. PE-material is resistant to exposure. For all interior diameter the adequate lock pin.



In das Distanzrohr eindrücken – fertig. Witterungsbeständiges PE-Material. Wir führen für jeden Innendurchmesser den passenden Verschlusszapfen.



Tampão para fechar o tubo distanciador, depois da descofragem. Existe em vários diâmetros.



Bouchon pour fermer le tube distanceur, après le décoffrage. Existe en plusieurs diamètres.



Tapón para cerrar el tubo distanciador después de desencofrar. Varios diámetros disponibles.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-740-00-33	9 mm / 0,35"	1.000 pcs.	1,0 kg		
1-741-00-33	10 mm / 0,39"	1.000 pcs.	1,0 kg		
1-742-00-33	13 mm / 0,51"	1.000 pcs.	1,2 kg		
1-743-00-33	14 mm / 0,55"	1.000 pcs.	1,4 kg		
1-744-00-33	18 mm / 0,71"	1.000 pcs.	1,6 kg		
1-745-00-33	20 mm / 0,79"	1.000 pcs.	2,4 kg	5.000 pcs.	12,0 kg
1-023-11-33	22 mm / 0,87"	500 pcs.	1,4 kg	5.000 pcs.	14,0 kg
1-746-00-33	26 mm / 1,02"	1.000 pcs.	4,8 kg	5.000 pcs.	24,0 kg
1-747-00-33	30 mm / 1,18"	500 pcs.	3,2 kg	3.000 pcs.	19,2 kg
1-748-00-33	32 mm / 1,26"	500 pcs.	4,0 kg	3.000 pcs.	24,0 kg

Soft-Sealing-Plug (PVC)

Weich-PVC-Dichtstopfen

Tampão maleável de PVC

Bouchon souple en PVC

Tapón maleable en PVC



Easy to use flexible sealing plug made of PVC.



Einfach zu verwendender Dichtstopfen aus PVC.



Tampão maleável e impermeável para fechar o tubo distanciador.



Bouchon imperméable et souple pour fermer le tube distanceur.



Tapón maleable e impermeable para cerrar el tubo distanciador.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-658-00-33	20 mm / 0,79"	500 pcs.	1,7 kg	2.500 pcs.	8,5 kg
1-659-00-33	22 mm / 0,87"	500 pcs.	1,8 kg	2.500 pcs.	9,0 kg

Soft-Sealing-Plug (TPE)

Weicher-Dichstopfen aus TPE

Tampão maleável de TPE

Bouchon imperméable TPE

Tapón maleable en TPE



Easy to use flexible sealing plug made of TPE.



Einfach zu verwendender Dichtstopfen aus TPE.



Tampão maleável TPE para fechar o tubo distanciador.



Bouchon imperméable et souple pour fermer le tube distanceur.



Tapón maleable TPE para cerrar el tubo distanciador.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-654-00-33	22 mm / 0,87"	500 pcs.	2,0 kg	2.500 pcs.	10,0 kg

Opti-Cone

Opti-Konen

Opti-Cone

Embout Opti -cone

Opti-Cono



Opti cones for the distance tube. They have a plain surface to conserve the mould. They continue in the formwork and are closed with a lock pin to be water resistant.



Opti-Konen für Distanzrohre mit grosser schalungsseitiger Oberfläche. In Verbindung mit Opti-Stopfen.



Opti-cone para acrescentar ao tubo distanciador no lado de cofragem.



Embout pour tube distanceur PVC. Protection imperméable.



Opti-cono para tubo distanciador de PVC. Protección a prueba de agua.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Pallet / Palette	Weight Pallet / Palette
1-686-00-33	K 22, 22 x 26 mm K 22, 0,87" x 1,02"	500 pcs.	5,0 kg	24.000 pcs.	240,0 kg
1-177-11-33	K 22, 22 x 28 mm K 22, 0,87" x 1,10"	500 pcs.	5,5 kg	24.000 pcs.	264,0 kg
1-688-00-33	K 26, 26 x 30 mm K 26, 1,02" x 1,18"	500 pcs.	6,5 kg	20.000 pcs.	260,0 kg
1-689-00-33	K 32, 32 x 36 mm K 32, 1,26" x 1,42"	500 pcs.	9,0 kg	10.000 pcs.	180,0 kg

Opti-Stoppers

Opti-Stopfen

Opti-Tampão

Bouchon pour embout Opti cone

Opti-Tapón



To close the Opti-Cone. Put in with a hammer and so it becomes closed and water resistant.



Um den Opti-Konus zu verschliessen. Einfach mit einem Hammer in den Konus befestigen um ihn zu schliessen und das Eindringen von Wasser zu verhindern.



Para fechar o Opti-Cone.



Bouchon pour embout Opti-cone. Application facile et protection imperméable.



Para cerrar el Opti-Cono

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag/ Sack	Weight Outs. Bag/ Sack
1-028-11-33	22 mm / 0,87"	500 pcs.	1,7 kg	2.500 pcs.	8,5 kg
1-693-00-33	26 mm / 1,02"	500 pcs.	2,6 kg	2.500 pcs.	13,0 kg
1-694-00-33	32 mm / 1,26"	500 pcs.	3,0 kg	2.000 pcs.	12,0 kg

Opti Distance Holder 22 x 26

Opti Mauerstärken 22 x 26

Distanciador de Cofragem „Opti“ 22 x 26

Tube Distanceur avec embout Opti cone 22 x 26

Tubo distanciador de encofrado “Opti” 22 x 26



An extended tube already mounted with two Opti-Cones. Tube Diameter 22 x 26 mm. Special lengths on request.



Distanzrohre abgelängt und mit je zwei Opti-Konen fertig montiert. Durchmesser 22 x 26 mm. Sonderlängen auf Anfrage.



Distanciador cortado sob medida, incluindo dois Opti-Cones em cada extremidade. Para apertar a cofragem vertical(paredes). Determina a largura das paredes.



Tube distanceur coupé sur mesure avec embouts Opti cone sur les extrémités. Pour fixer les planches du coffrage vertical (murs).Détermine la largeur du mur.



Tubo distanciador cortado a medida, incluyendo Opti-Conos en cada extremo. Para apretar el encofrado vertical (paredes). Determina el ancho de las paredes.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
2-845-15-33	15,0 cm / 5,91"	100 pcs.	3,5 kg		
2-845-17-33	17,5 cm / 6,89"	100 pcs.	4,0 kg		
2-845-18-33	18,0 cm / 7,09"	100 pcs.	4,0 kg		
2-845-20-33	20,0 cm / 7,87"	100 pcs.	4,2 kg		
2-845-24-33	24,0 cm / 9,45"	100 pcs.	5,0 kg		
2-845-25-33	25,0 cm / 9,84"	100 pcs.	5,0 kg		
2-845-30-33	30,0 cm / 11,81"	100 pcs.	6,0 kg		
2-845-35-33	35,0 cm / 13,78"	75 pcs.	6,5 kg		
2-845-36-33	36,5 cm / 14,37"	75 pcs.	6,5 kg		
2-845-40-33	40,0 cm / 15,75"	75 pcs.	7,0 kg		
2-845-45-33	45,0 cm / 17,72"	50 pcs.	7,5 kg		
2-845-50-33	50,0 cm / 19,69"	50 pcs.	8,0 kg		
2-845-60-33	60,0 cm / 23,62"	50 pcs.	9,0 kg		

Opti Distance Holder 26 x 30

Opti Mauerstärken 26 x 30

Distanciador de Cofragem „Opti“ 26 x 30

Tube Distanceur avec embout Opti cone 26 x 30

Tubo distanciador de encofrado „Opti“ 26 x 30



An extended tube already mounted with two Opti-Cones. Tube Diameter 22 x 26 mm. Special lengths on request.



Distanzrohre abgelängt und mit je zwei Opti-Konen fertig montiert. Durchmesser 22 x 26 mm. Sonderlängen auf Anfrage.



Distanciador cortado sob medida, incluindo dois Opti-Cones em cada extremidade. Para apertar a cofragem vertical(paredes). Determina a largura das paredes.



Tube distanceur coupé sur mesure avec embouts Opti cone sur les extrémités. Pour fixer les planches du coffrage vertical (murs).Déterminez la largeur du mur.



Tubo distanciador cortado a medida, incluyendo Opti-Conos en cada extremo. Para apretar el encofrado vertical (paredes). Determina el ancho de las paredes.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
2-847-15-33	15,0 cm / 5,91"	100 pcs.	4,0 kg		
2-847-17-33	17,5 cm / 6,89"	100 pcs.	4,0 kg		
2-847-18-33	18,0 cm / 7,09"	100 pcs.	4,5 kg		
2-847-20-33	20,0 cm / 7,87"	100 pcs.	4,5 kg		
2-847-24-33	24,0 cm / 9,45"	100 pcs.	5,0 kg		
2-847-25-33	25,0 cm / 9,84"	100 pcs.	5,0 kg		
2-847-30-33	30,0 cm / 11,81"	100 pcs.	5,0 kg		
2-847-35-33	35,0 cm / 13,78"	75 pcs.	6,0 kg		
2-847-36-33	36,5 cm / 14,37"	75 pcs.	6,0 kg		
2-847-40-33	40,0 cm / 15,75"	75 pcs.	7,0 kg		
2-847-45-33	45,0 cm / 17,72"	50 pcs.	6,0 kg		
2-847-50-33	50,0 cm / 19,69"	50 pcs.	6,5 kg		

Opti Distance Holder PE 22 x 26

Opti Mauerstärken PE 22 x 26

Distanciador de Cofragem „Opti“ PE 22 x 26

Tube distanceur monobloc PE avec Opti 22 x 26

Tubo distanciador de encofrado “Opti” PE 22 x 26



Like a tube 22 x 26 mm with two Opti-Cones – but manufactured as one single part made of polyethylene.



Wie ein Distanzrohr 22 x 26 mm mit je zwei Opti-Konen – aber als einteiliges Produkt aus Polyethylen hergestellt.



Peça única com dois Opti-Cones nas extremidades. Para apertar a cofragem vertical (paredes). Determina a largura das paredes.



Tube distanceur monobloc avec embouts sur les extrémités. Pour fixer les planches du coffrage vertical (murs). Détermine la largeur du mur. Celui est produit par injection en polyéthylène.



Pieza única con dos Opti-conos en los extremos. Para apretar el encofrado vertical (paredes). Determina el ancho de las paredes.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
2-675-00-33	18,0 cm / 7,09"	100 pcs.	4,0 kg		
2-676-00-33	20,0 cm / 7,87"	100 pcs.	4,2 kg		
2-677-00-33	24,0 cm / 9,45"	100 pcs.	5,0 kg		
2-678-00-33	25,0 cm / 9,84"	100 pcs.	5,0 kg		
2-679-00-33	30,0 cm / 11,81"	100 pcs.	6,0 kg		
2-680-00-33	35,0 cm / 13,78"	75 pcs.	7,0 kg		
2-681-00-33	40,0 cm / 15,75"	75 pcs.	8,0 kg		

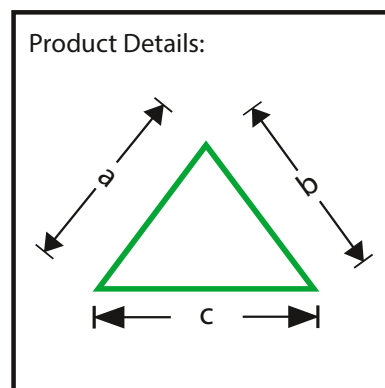
Triangle Strip Hollow – Chamfers

Dreikantleiste hohl

Perfil Triangular oco

Profilé Trianguler (Liteaux)

Perfil triangular hueco



Resistant chamfer made of special PVC mixtures for angle breaking support. Prepared with nail holes for quick fastening and can be utilised repeatedly. Available in 2,00 m, 2,50 m and 3,00 m.



Stabile Dreikantleiste aus besonderm PVC für Kantenbrüche. Vorbereitet mit Löchern für Nägel für schnelle Befestigung. Kann mehrfach verwendet werden. Lieferbar in 2,00 m, 2,50 m und 3,00 m.



Perfil triangular para fazer os ângulos. Tem furos para pregos; para uma fixação rápida. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Profilé triangulaire pour chanfreiner les angles. Fixation facile avec les trous pour les clous. Peut être réutilisé. Disponible en longueur 2,00 m, 2,50 m e 3,00 m



Perfil triangular para hacer los ángulos. Tiene agujeros para clavos; Para una fijación rápida. Disponible en longitudes de 2.00 m, 2,50 m e 3,00 m.

Article No. Artikel Nr.	Dimensions a/b/c Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-870-XX-33	10 / 10 / 15 mm 0,39" / 0,39" / 0,6"	100 m	5,2 kg	16.000 m	832,0 kg
1-871-XX-33	15 / 15 / 21 mm 0,59" / 0,59" / 0,86"	50 m	8,0 kg	11.000 m	1.760,0 kg
1-872-XX-33	20 / 20 / 28 mm 0,79" / 0,79" / 1,10"	50 m	12,0 kg	9.000 m	2.160,0 kg
1-873-XX-33	25 / 25 / 35 mm 0,98" / 0,98" / 1,4"	50 m	14,0 kg	2.450 m	686 kg
1-874-XX-33	30 / 30 / 42 mm 1,18" / 1,18" / 1,65"	50 m	15,5 kg	3.000 m	990,0 kg

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m
Standard length 2,50 m

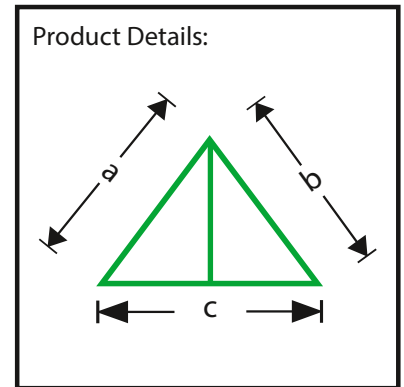
Triangle strip with beam - Chamfers

Dreikantleiste hohl mit Steg

Perfil triangular com reforço

Profilé triangulaire renforcé (Liteaux)

Perfil triangular com refuerzo



Hollow with beam. For edge breaking support. Repeated utilization. Available in 2,00 m, 2,50 m and 3,00 m.



Hohle Dreikantleiste für Kantenbruch mit Verstärkung in der Mitte. Mehrfach verwendbar. Lieferbar in 2,00 m, 2,50 m und 3,00 m.



Perfil triangular oco com reforço central. Para fazer os ângulos. Pode ser reutilizado. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Profilé triangulaire renforcé, pour chanfreiner les angles. Fixation facile avec les trous pour les clous. Peut être réutilisé.



Perfil triangular hueco con refuerzo central. Para hacer los ángulos. Puede ser reutilizado. Disponible en longitudes de 2,00 m, 2,50 m e 3,00 m.

Article No. Artikel Nr.	Dimensions a/b/c Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-880-XX-33	15 / 15 / 21 mm 0,59" / 0,59" / 0,86"	100 m	11,0 kg	11.000 m	1.210,0 kg
1-881-XX-33	20 / 20 / 28 mm 0,79" / 0,79" / 1,10"	100 m	14,5 kg	9.000 m	1.305,0 kg
1-882-XX-33	25 / 25 / 35 mm 0,98" / 0,98" / 1,4"	50 m	10,0 kg	5.200 m	1.040,0 kg
1-883-XX-33	30 / 30 / 42 mm 1,18" / 1,18"	50 m	14,0 kg	5.000 m	1.400,0 kg
1-884-XX-33	40 / 40 / 56 mm 1,57" / 1,57" / 2,2"	50 m	23,0 kg		

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m
Standard length 2,50m

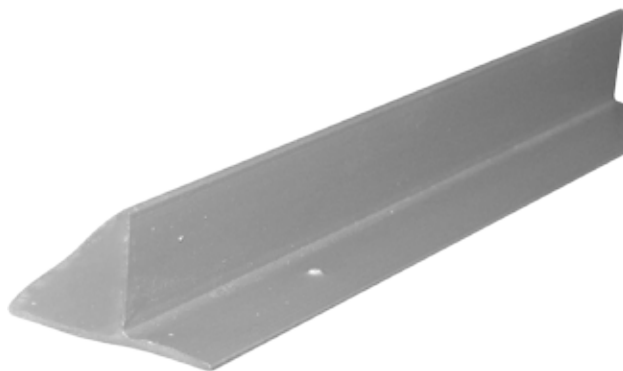
Triangle strip with nail flange – Chamfers

Dreikantleiste voll mit Fahne

Perfil triangular maciço com banda para fixação

Profilé triangulaire massif avec bande pour fixation

Perfil triangular macizo con aleta para fijación



Triangle strip fully made of PVC for edge breaking support with nail strickles. Repeated utilization. Available in 2,00 m, 2,50 m and 3,00 m.



Dreikantleiste aus Vollmaterial für Kantenbruch mit Nagelfahne. Mehrfach verwendbar. Lieferbar in 2,00 m, 2,50 m und 3,00 m.



Perfil triangular maciço com banda para fixação. Para fazer os ângulos. Pode ser reutilizado. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Profilé triangulaire massif avec bande pour fixation. Pour chanfreiner les angles. Peut être réutilisé. Disponible en longueur 2,00 m, 2,50 m et 3,00 m



Perfil triangular macizo con aleta de fijación. Para hacer los ángulos. Puede ser reutilizado. Disponible en longitudes de 2,00 m, 2,50 m e 3,00 m.

Article No. Artikel Nr.	Dimensions a/b/c Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-890-XX-33	6 / 9,5 / 23 mm 0,24" / 0,4" / 0,91"	100 m	6,0 kg	6.500 m	390,0 kg
1-891-XX-33	7 / 11 / 23 mm 0,28" / 0,43" / 0,91"	100 m	7,0 kg	6.000 m	420,0 kg
1-892-XX-33	9,5 / 14 / 24 mm (2) 0,37" / 0,55 / 0,94"	100 m	10,0 kg	5.400 m	540,0 kg
1-893-XX-33	11 / 15 / 27 mm (3) 0,39" / 0,59" / 1,06"	100 m	12,0 kg	5.400 m	648,0 kg
1-894-XX-33	11 / 16 / 24 mm (4) 0,43" / 0,63" / 0,94"	100 m	14,0 kg		
1-895-XX-33	15 / 23 / 33 mm 0,59" / 0,91" / 1,3"	100 m	18,0 kg	4.900 m	882,0 kg

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m
Standard length 2,50 m

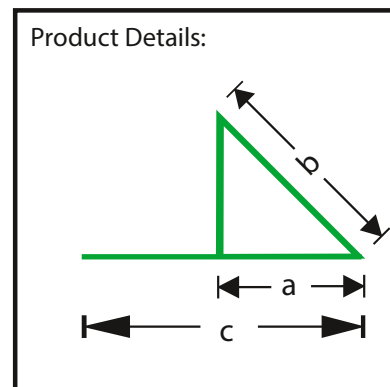
Triangle strip with nail strickles, hollow – Chamfers

Dreikantleiste hohl mit Fahne

Perfil triangular oco com banda para fixação

Profilé triangulaire creux avec bande pour fixation

Perfil triangular oco con aleta de fijación.



Triangle strip hollow made of PVC for edge breaking support with nail strickles. Repeated utilization. Available in 2,00 m, 2,50 m and 3,00 m.



Dreikantleiste, hohl, für Kantenbruch mit Nagelfahne. Mehrfach verwendbar. Lieferbar in 2,00 m, 2,50 m und 3,00 m.



Perfil triangular oco com banda para fixação. Para fazer os ângulos. Pode ser reutilizado. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Profilé triangulaire creux avec bande pour fixation. Pour chanfreiner les angles. Peut être réutilisé. Disponible en longueur 2,00 m, 2,50 m et 3,00 m



Perfil triangular hueco con aleta de fijación. Para hacer los ángulos. Puede ser reutilizado. Disponible en longitudes de 2,00 m, 2,50 m e 3,00 m.

Article No. Artikel Nr.	Dimensions a/b/c Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-900-XX-33	11 / 15 / 23 mm 0,43" / 0,59" / 0,91"	100 m	8,0 kg	5.000 m	400,0 kg
1-901-XX-33	15 / 22 / 29 mm 0,59" / 0,87" / 1,14"	100 m	11,7 kg	4.900 m	573,3 kg
1-902-XX-33	20 / 27 / 35 mm 0,79" / 1,06" / 1,38"	50 m	5,0 kg	5.500 m	550,0 kg
1-903-XX-33	25 / 36 / 42 mm 0,98" / 1,41" / 1,65"	50 m	14,9 kg	2.400 m	715,2 kg

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m
Standard length 2,50 m

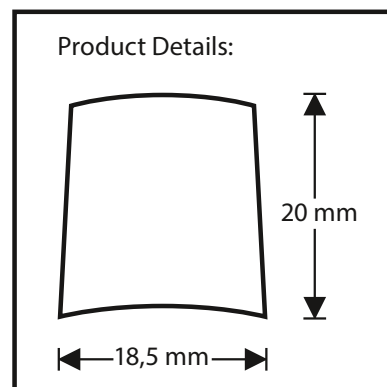
Waterdrip and Void Former 20 mm

Trapezprofil 20 mm

Perfil trapezio 20 mm

Profilé Trapèze 20 mm

Perfil trapécio 20 mm



Universal waterdrip and void former – very stable.



Sehr stabile Wassernase.



Perfil com furos para fixação de pregos. Para evitar as infiltrações de água na parte de baixo das placas de exterior. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Profilé carré- se fixe dans l'intérieur du coffrage. Donne une forme de rigole sous la dalle extérieur pour éviter le passage de l'eau. Disponible en longueur 2,00 m, 2,50 m et 3,00 m



Perfil con agujeros para la fijación de clavos. Para evitar la infiltración de agua en la parte inferior de los paneles exteriores. Disponible en longitudes de 2,00 m, 2,50 m y 3,00 m.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-930-XX-33	20 mm / 0,79"	100 m	6,6 kg	8000 m	528 kg

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m
Standard length 2,50m

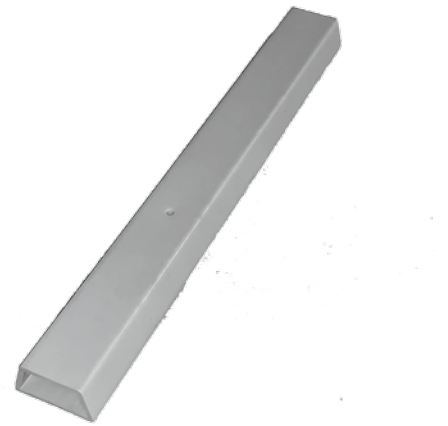
Waterdrip and Void Former

Trapezprofil

Perfil trapezio

Profilé Trapèze

Perfil trapéicio



The trapezium profile is an universal profile that can be used to make water drips as well as for structural concrete. Prepunched holes for nails make it quick and easy to affix. Available in 2,00 m, 2,50 m and 3,00 m.



Das Trapezprofil ist ein Universalprofil und kann sowohl zum Betonieren von Wassernasen als auch für Strukturbeton eingesetzt werden. Vorgestanzte Nagellöcher ermöglichen ein problemloses Befestigen. Mehrmals verwendbar. Lieferbar in 2,00 m, 2,50 m und 3,00 m.



Perfil com furos para fixação de pregos. Para evitar as infiltrações de água na parte de baixo das placas no exterior. Disponível nos comprimentos 2,00 m, 2,50 m e 3,00 m.



Profilé carré- se fixe dans l'intérieur du coffrage. Donne une forme de rigole sous la dalle extérieur pour éviter le passage de l'eau. Disponible en longueur 2,00 m, 2,50 m et 3,00 m



Perfil con agujeros para la fijación de clavos. Para evitar la infiltración de agua en la parte inferior de los paneles exteriores. Disponible en longitudes de 2,00 m, 2,50 m y 3,00 m.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bunch / Bund	Weight Bunch / Bund	Sales unit Pallet / Palette	Weight Pallet / Palette
1-940-XX-33	20 x 10 x 10 mm 0," x 0,39"x 0,39"	100 m	9,0 kg	5.400 m	486 kg
1-941-XX-33	20 x 15 x 10 mm 0,79" x 0,59"x 0,39"	100 m	9,5 kg	5600 m	532 kg
1-942-XX-33	30 x 20 x 15 mm 1,18" x 0,79"x 0,59"	100 m	17,0 kg	4.200 m	714 kg
1-943-XX-33	35 x 20 x 35 mm 1,38" x 0,79"x 1,38"	50 m	11,0 kg	2.100 m	462 kg

Variant: Corner trapezium profile / Ecktrapezprofil / Perfil trapezio para cantos / Profilé Trapèze pour les angles

1-920-XX-33	20 x 15 x 10 mm 0,8" x 0,6"x 0,4"	100 m	9,0 kg
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XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m
Standard length 2,50 m

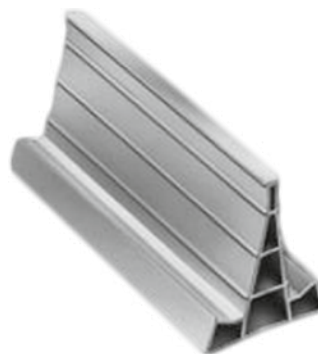
Delta Profile (Crack Inducer)

Delta Profil

Profil Delta PVC

Profilé Delta PVC

Perfil Delta PVC



Plastic profile to induce a controlled crack in continuously laid concrete.



Kunststoffprofil zur Verhinderung von Rissbildung in Betonböden.



Junta de dilatação, coloca-se na cofragem da placa .Faz linhas de separação no betão para o piso não estalar.



Joint de dilatation pour le coffrage de la dalle. Fait des lignes de séparation dans le béton pour éviter les fissures.



Junta de dilatación, colocada en el encofrado de la placa. Hace líneas de separación en el concreto para que el piso no se agriete.

Article No.	Dimensions	Sales unit	Weight	Sales unit	Weight
Artikel Nr.	Abmessungen	Bunch / Bund	Bunch / Bund	Pallet / Palette	Pallet / Palette
1-951-XX-11	40 mm / 1,57"	100 m	22,0 kg		

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m; 03 = 3,50 m; 04 = 4,00 m

Standard length = 2,50 m / Standard colour: white

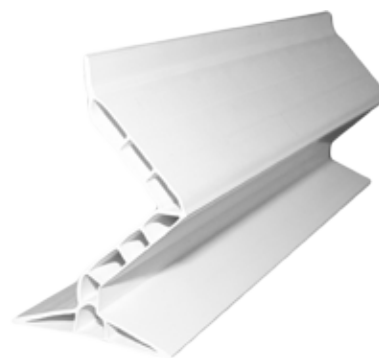
Z-Joint Profile (Crack Inducer)

Z-Verbindungs-Profil

Profil Z

Profilé Z

Perfil Z



An easily applied preformed PVC profile that induces controlled cracking in continuously laid concrete or screed specially suitable for heavy traffic applications. It is specially design to transfer the load from one bay on to the next with the moving load.



Kunststoffprofil zur Verhinderung von Rissbildung insbesondere für stark belastete Betonböden.



Junta de dilatação, coloca-se na cofragem do piso .Faz linhas de separação no betão para não estalar.



Joint de dilatation pour le coffrage de la dalle. Fait des lignes de séparation dans le béton pour éviter les fissures. Enclage parfait dans le béton.



Junta de dilatación, colocada en el encofrado de la placa. Hace líneas de separación en el hormigón para que el piso no se agriete.

Article No.	Dimensions	Sales unit	Weight	Sales unit	Weight
Artikel Nr.	Abmessungen	Bunch / Bund	Bunch / Bund	Pallet / Palette	Pallet / Palette
1-950-XX-33	75 mm / 2,95"	100 m	38,6 kg		

XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m; 03 = 3,50 m; 04 = 4,00 m

Standard length = 2,50 m / Standard colour: grey

Crack Inducer (Double)

Doppel-Verbindungsprofil

Profil

Double Profilé

Perfil doble



An easily applied preformed PVC profile that induces controlled cracking in continuously laid concrete or screed. Profile is applied and top removed afterwards to be filled with sealant.



Kunststoffprofil zur Verhinderung von Rissbildung. Nach Auffüllung wird das obere Ende entfernt und mit entsprechenden Dichtungsmitteln aufgefüllt.



Junta de dilatação, coloca-se na cofragem do piso .Faz linhas de separação no betão para não estalar. A parte inferior fica no betão, e a parte exterior tira-se.



Joint de dilatation pour le coffrage de la dalle. Fait des lignes de séparation dans le béton pour éviter les fissures. La partie inférieure reste dans le béton et la partie supérieure est à enlever.



Junta de dilatación, colocada en el encofrado del suelo. Hace líneas de separación en el hormigón para no agrietarse. La parte inferior está en el hormigón, y la parte exterior se retira para rellenarlo con sellador.

Article No.	Dimensions	Sales unit	Weight	Sales unit	Weight
Artikel Nr.	Abmessungen	Bunch / Bund	Bunch / Bund	Pallet / Palette	Pallet / Palette
1-952-XX-33	50 mm / 2,95"	100 m	38,6 kg		
1-951-XX-33	75 mm / 2,95"	100 m	38,6 kg		



XX = length code: 00 = 2,00 m; 01 = 2,50 m; 02 = 3,00 m; 03 = 3,50 m; 04 = 4,00 m; 05 = 4,50 m; 06 = 5,00 m
Standard length = 2,50m / Standard colour: grey

Formwork Stopper

Schalungsanschlag

Batente de Cofragem

Battant du coffrage

Tope para encofrado



To adjust the formwork at the floor side.



Zum Justieren der Schalung im Fundamentbereich. Paletteneinheit = 10.000 Stück.



Para ajustar a cofragem no piso.



Pour ajuster le coffrage dans la dalle.



Para ajustar el encofrado en el piso

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-024-11-33	48 mm / 1,89"	100 pcs.	3,0 kg	500 pcs.	15,0 kg

Formwork Stopper with Nail

Schalungsanschlag mit Nagel

Batente de Cofragem com Prego

Battant du coffrage avec clou.

Tope para encofrado con clavo



To adjust the formwork at the floor side with nail inserted for quick mounting. Pallet Unit is 10.000 pieces.



Zum Justieren der Schalung im Fundamentbereich mit eingelegtem Nagel für schnelle Montage. Paletteneinheit = 10.000 Stück.



Para ajustar a cofragem no piso. O prego permite uma fixação rápida. Quantidade das peças por palete: 10.000.



Pour ajuster le coffrage dans la dalle. Fixation rapide avec clou. Quantité des pièces pour palette: 10.000.



Para ajustar el encofrado en el piso. El clavo permite una fijación rápida. Número de piezas por palet: 10,000

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
2-024-11-33	48 mm / 1,89"	100 pcs.	3,0 kg	500 pcs.	15,0 kg

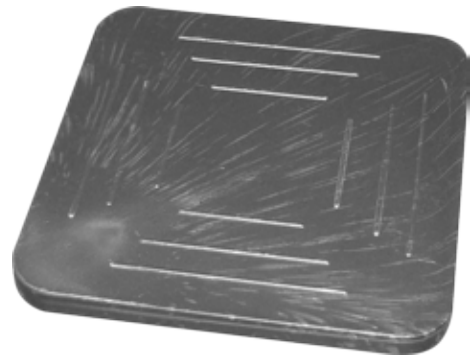
Shim Pads

Unterlagsplättchen ohne Schlitz

Placa Plana para nivelar

Plaquette pour nivellement

Calzo nivelador plano



Stable underlay pad with 70 x 70 mm.



Stabiles Unterlagsplättchen mit 70 x 70 mm.



Placa estável com superfície plana para o nivelamento, 70 x 70 mm.



Plaquette - base de fixation pour le nivellement.



Calzo estable con superficie plana para nivelación, 70 x 70 mm.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag /Sack	Weight Outs. Bag /Sack
1-095-02-30	2 mm / 0,08"	1.000 pcs.	10,0 kg		
1-095-03-30	3 mm / 0,12"	1.000 pcs.	14,0 kg		
1-602-00-33	4 mm / 0,16"	500 pcs.	9,5 kg		
1-095-05-30	5 mm / 0,2"	500 pcs.	12,0 kg		
1-604-00-33	6 mm / 0,24"	500 pcs.	16,2 kg		
1-095-07-30	7 mm / 0,28"	500 pcs.	16,6 kg		
1-606-00-33	8 mm / 0,31"	250 pcs.	10,1 kg		
1-095-09-30	9 mm / 0,35"	250 pcs.	10,8 kg		
1-608-00-33	10 mm / 0,39"	250 pcs.	12,0 kg		
1-609-00-33	15 mm / 0,59"	200 pcs.	14,0 kg		
1-610-00-33	20 mm / 0,79"	150 pcs.	14,0 kg		
1-611-00-33	25 mm / 0,98"	100 pcs.	12,0 kg		
1-612-00-33	30 mm / 1,18"	100 pcs.	14,0 kg		

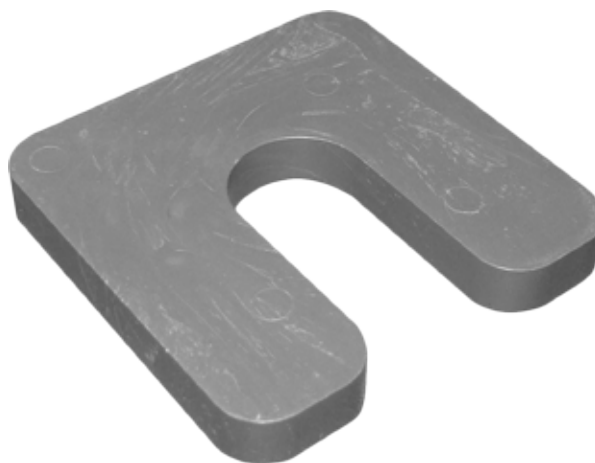
Shim Pads U-Type (Horseshoe)

Unterlagsplättchen mit Schlitz

Placa Plana para nivelar com ranhura

Plaquette pour nivellement calibrée U

Calzo nivelador plano forma U



Stable underlay pad with 70 x 70 mm and 22 mm Slit for adjustment.



Stabile Unterlagsplättchen mit einer Grundfläche von 70 x 70 mm und einem Schlitz von 22 mm für die feinjustierung.



Placa estável com superfície plana para o nivelamento. O tamanho é de 70 x 70 mm e ranhura de 22 mm para ajuste.



Plaquette massive pour le nivellement avec dégagement.



Calzo estable con superficie plana para nivelar. El tamaño es de 70 x 70 mm y ranura de 22 mm para ajuste.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-095-02-31	2 mm / 0,08"	1.000 pcs.	7,5 kg		
1-095-03-31	3 mm / 0,12"	1.000 pcs.	11,0 kg		
1-623-00-33	4 mm / 0,16"	500 pcs.	7,6 kg		
1-095-05-31	5 mm / 0,2"	500 pcs.	9,0 kg		
1-625-00-33	6 mm / 0,24"	500 pcs.	11,4 kg		
1-095-07-31	7 mm / 0,28"	500 pcs.	13,0 kg		
1-627-00-33	8mm / 0,31"	250 pcs.	7,6 kg		
1-095-09-31	9 mm / 0,35"	250 pcs.	8,2 kg		
1-629-00-33	10 mm / 0,39"	250 pcs.	9,0 kg		
1-630-00-33	15 mm / 0,59"	200 pcs.	11,0 kg		
1-631-00-33	20 mm / 0,79"	150 pcs.	11,0 kg		
1-632-00-33	25 mm / 0,98"	100 pcs.	9,5 kg		
1-633-00-33	30 mm / 1,18"	100 pcs.	11,4 kg		

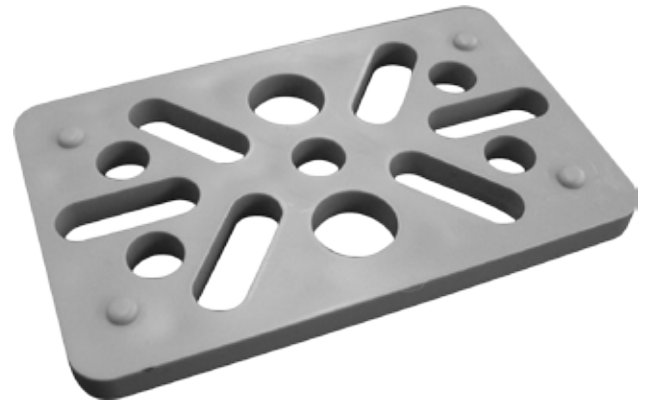
Distance Shims with holes
80 x 50 mm / stackable

Montageplatte mit Löchern
80 x 50 mm / stapelbar

Placa Plana para nivelar

Plaquette pour nivellement

Calzo nivelador plano



Stable distance shims for adjustments with 80 x 50 mm, stackable.



Distanzplatte zum Justieren, stapelbar (ohne seitliches Verrutschen).



Placa estável com superfície plana para o nivelamento, 80 x 50 mm.



Plaquette - base de fixation pour le nivellement. Peut s'empiler.



Calzo estable con superficie plana para nivelar, 80 x 50 mm.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Outs. Bag / Sack	Weight Outs. Bag / Sack
1-096-02-80 (blue)	2 mm / 0,08"	1.000 pcs.		2.000 pcs.	
1-131-02-80 (blue)	2 mm / 0,08"	1.000 pcs.		2.000 pcs.	
1-096-03-33 (grey)	3 mm / 0,12"	1.000 pcs.		1.500 pcs.	
1-096-05-33 (grey)	5 mm / 0,2"	500 pcs.		1.000 pcs.	
1-131-05-33 (grey)	5 mm / 0,2"	500 pcs.		1.000 pcs.	
1-096-10-12 (black)	10 mm / 0,39"	500 pcs.		500 pcs.	
1-131-10-12 (black)	10 mm / 0,39"	500 pcs.		500 pcs.	
1-096-20-33 (grey)	20 mm / 0,79"	500 pcs.		2.500 pcs.	

Standard colour for all versions blue / grey / darkgrey / black.

Safety Protection Caps

Schutzkappe

Cápsula Protectora

Capsule Protection

Tapa de protección



Safety protection caps to cover protrusive iron ends. Colour: Orange.



Schutzkappen um herausstehenden Eisenenden abzudecken. Farbe: Orange.



Cápsula protectora utilizada como meio de segurança para tapar as partes expostas dos ferros.



Capsule pour protéger les parties exposées de l'armature.



Tapa de protección, utilizado como un medio de seguridad para cubrir extremos de hierro.

Article No. Artikel Nr.	Dimensions Abmessungen	Sales unit Bag / Beutel	Weight Bag / Beutel	Sales unit Pallet / Palette	Weight Pallet / Palette
1-788-00-42	6 – 16 mm 0,24 – 0,63"	500	5,5 kg	50.000	550,0 kg
1-789-00-42	16 – 32 mm 0,63 – 1,26"	250	5,5 kg	25.000	550,0 kg

Conditions of Sale and Delivery.

1. Orders are considered accepted by written acknowledgement only. Verbal agreements have to be confirmed in writing in order to become effective.
2. Unless otherwise specified in writing, prices are in Euro, for goods ex works, unpacked. They may be modified if different conditions prevail at the time of shipment caused by price increases for suppliers, increases of wages or otherwise. We may correct obvious errors and mistakes in our quotations, acknowledgements or invoices. We will not accept any legal claims on erroneous specifications obviously incompatible with the rest of our literature.
3. Packaging material will be invoiced at cost price.
4. Payment shall be made as per terms agreed by the parties. In case of default of payment, relative interest will be debited. It is not permissible to retain payment referring to any counterclaims whatsoever not accepted by the supplier, nor offsetting such claims against invoices. If delivery has been made before payment of the whole sum payable under the contract, equipment or products delivered shall, to the extent permitted by the law of the country where the products are situated after delivery, remain the property of the manufacturer until such payment has been effected. If such law does not permit the manufacturer to retain the property in the products, the manufacturer shall be entitled to the benefit of such other rights in respect thereof as such law permits him to retain. The buyer shall give the manufacturer every assistance in taking any measures required to protect the manufacturer's right of property or such other rights as aforesaid. To the extent applicable law permits, the buyer will from the beginning cede claims to the manufacturer which may arise from any resale of the products.
5. Deliveries will be kept as far as possible. Unavoidable delays do not entitle the purchaser to refuse acceptance of the merchandise or to assert any claims.
6. Shipment is on account and risk of purchaser and/or consignee. We cannot supply replacements in case of damage or breakage. Transport insurance is taken out only upon the express instructions of the purchaser. The purchaser carries the risk from f.o.b. factory even if shipment is on a prepaid basis.
7. Drawings, Dimensions and weights given in our drawings are without engagement copyright, patent and useful model patent rights on drawings, literature and products remain our property. Drawings and any other specifications are entrusted to the purchaser for personal use only for the particular quotation. They may not be copied in full or part or made available to third parties without our previous written consent. Please note that weights stated in this catalogue may vary due to different densities in the raw materials received.
8. Warranty. We grant six months warranty from date of invoice for all units we have supplied. All justified complaints due to material or machining faults or poor workmanship or finish will be settled by interchanging defective parts against perfect ones. Title to compensation is excluded in cases of transport damages, improper operation, deliberate destruction and normal wear. Each unit claimed defective has to be returned to us prepaid. Supplier must be given adequate time and opportunity at no charge to do the required changes or to supply parts or units and, if applicable, purchaser has to supply the help required. Supplier is not obliged to remedy defects in case purchaser does not meet his payments obligations. Supplier does not warrant if repair or replacement is made by unauthorised repair work by the purchaser. Claims for damages beyond those on the very unit are nil and void. All claims are limited to the invoice value of the defective goods. All further and sequential claims are excluded, particularly those requesting cancellation, price reduction or compensation for damages of any kind including those which have not occurred on the unit itself.
9. Return shipments for credit are accepted only after customer has obtained our previous consent. If after the acceptance of an order the supplier learns of a deterioration in the financial standing of the purchaser, supplier may ask to be furnished security or cancel the contract debiting the purchaser for expenses incurred. Supplier further is entitled to cancel the contract partially or completely in case unforeseeable events affect the company of the supplier or subsupplier(s) and/or in case supplying the goods becomes impossible. The same applies in case the impossibility to fill the order becomes known subsequently. Customer is not entitled to damages in case of such cancellations. If supplier wishes to cancel the contract he has to advise the purchaser immediately upon gaining knowledge of the incidence of said events. Place of jurisdiction for both parties is P-6000 Castelo Branco.
10. Separate conditions of sale apply for customer specific moulds and subsequent parts. These are available on request or from our homepage at www.hmr-portugal.com.



huegin group

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