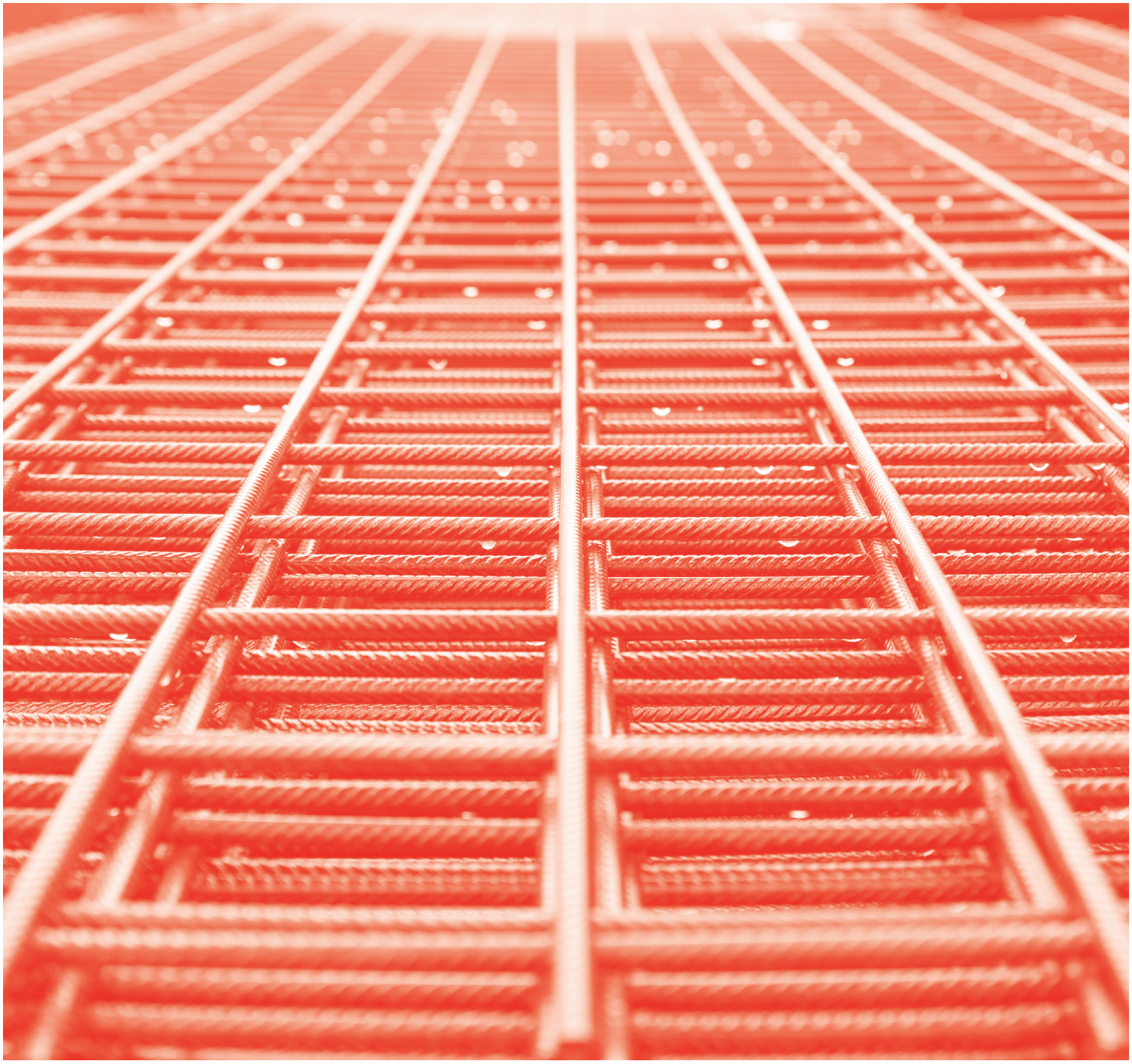
Favre Aciers

# ACIERS D'ARMATURE, TREILLIS & ACCESSOIRES



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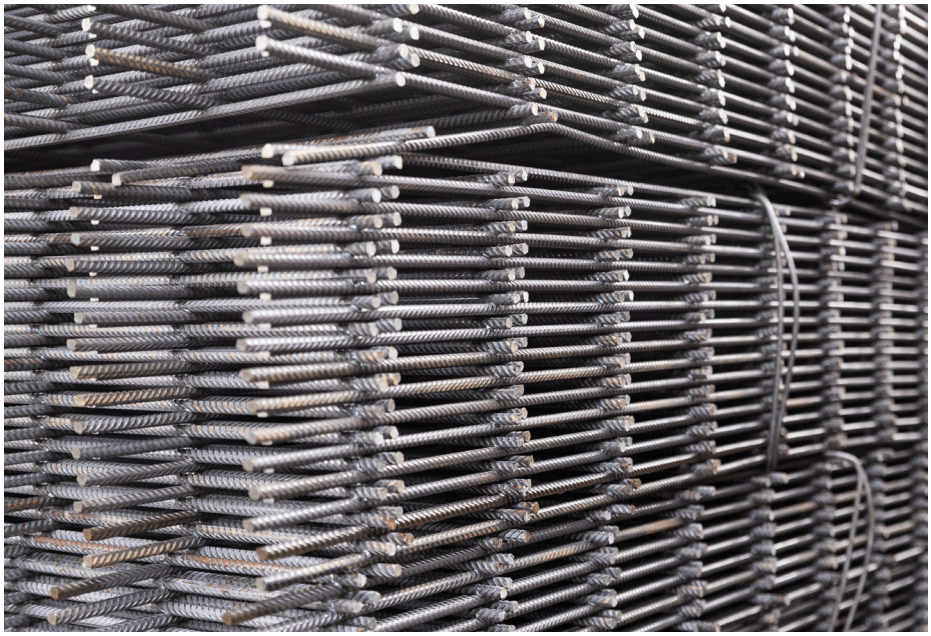
# CARACTÉRISTIQUES DES ACIERS D'ARMATURE

TOPAR-S & TOPAR-R en couronne

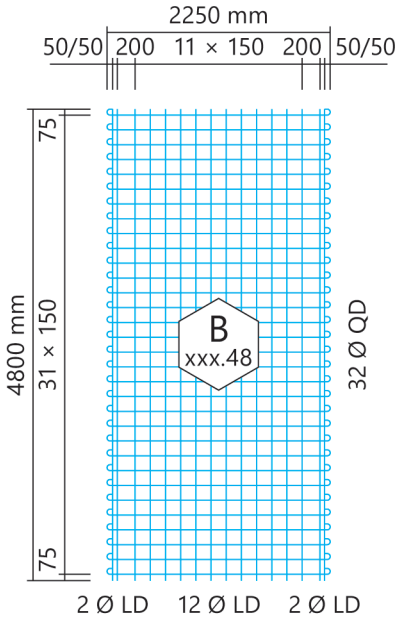
| Ø nominal selon norme SIA 262 | Section nominale | Poids nominal |
|---|---|---|
| mm | mm² | kg/m |
| 8 | 50.3 | 0.395 |
| 10 | 76.5 | 0.617 |
| 12 | 113.0 | 0.888 |
| 14 | 154.0 | 1.210 |
| 16 | 201.0 | 1.580 |
| 18 | 254.0 | 2.000 |
| 20 | 314.0 | 2.470 |
| 22 | 380.0 | 2.980 |
| 26 | 531.0 | 4.170 |
| 30 | 707.0 | 5.550 |
| 34 | 908.0 | 7.130 |
| 40 | 1526.0 | 9.860 |

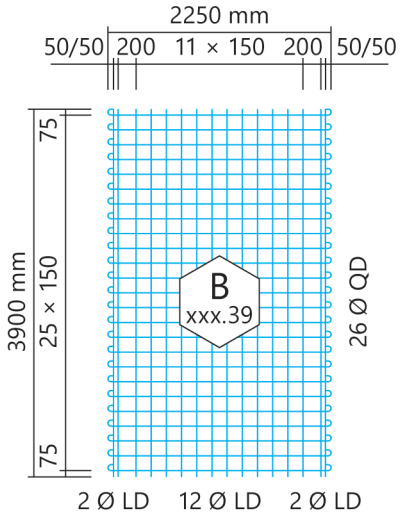
# TREILLIS, CAGES BÜKO, PANIERS DE SUPPORT & TREBAT

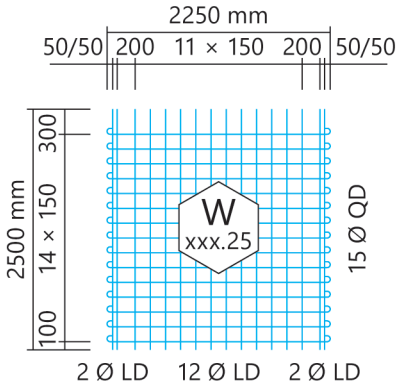


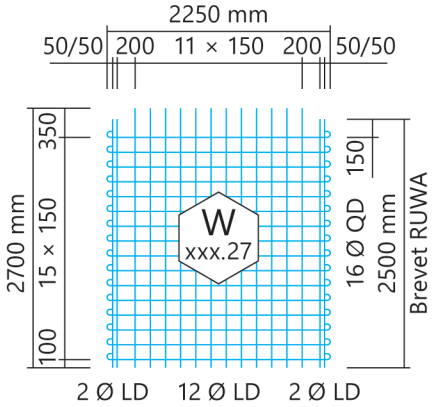
# PROGRAMME DE TREILLIS DE STOCK ARTEC 500

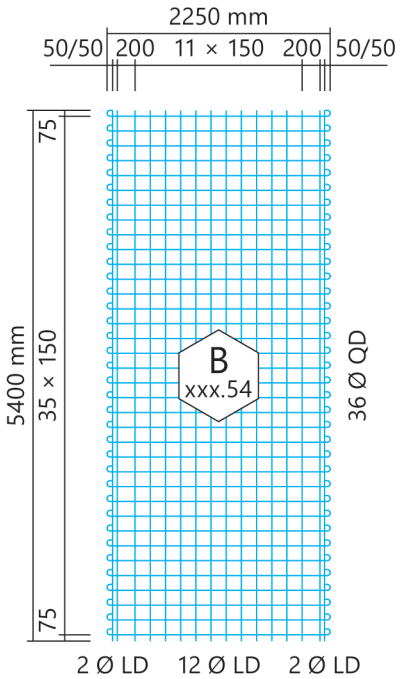
Avec boucle et en acier à béton B 500 A/B

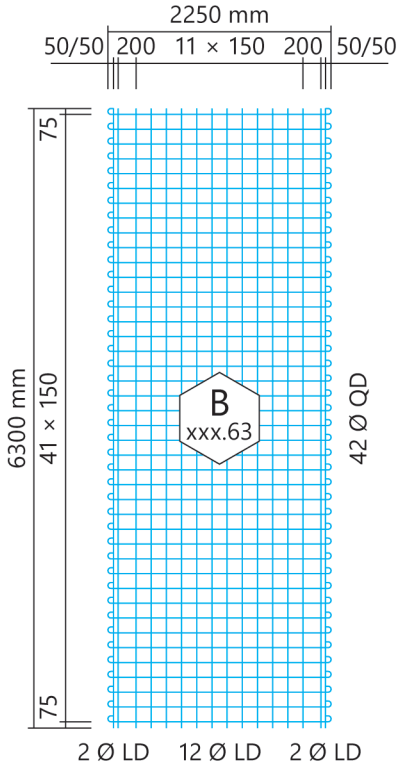


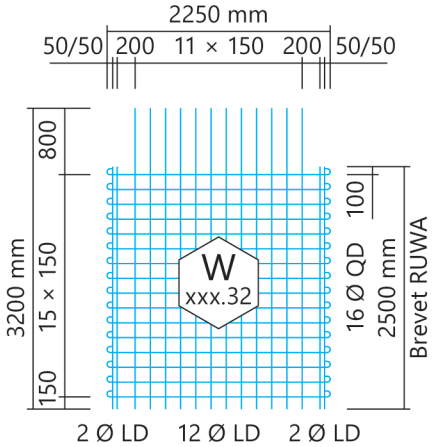



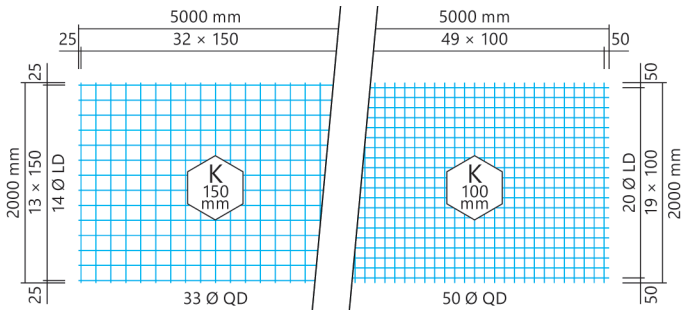



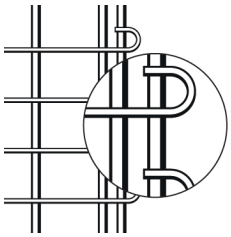




**Le recouvrement ARTEC**
L'utilisation des treillis à boucles ARTEC 500 ingénieux permet d'économiser de l'acier par rapport à d'autres systèmes de treillis.



# PROGRAMME DE TREILLIS • ACIER



Avec boucle et en acier à béton B 500 A/B

## Treillis K • B 500 A

| Type | Format | Ø LD | Ø QD | Écartement | Poids |
|---|---|---|---|---|---|
| | mm | | | | kg/pce |
| K 196 | 5 × 2 | 5 | 5 | 100 | 30.80 |
| K 283 | 5 × 2 | 6 | 6 | 100 | 44.40 |
| K 188 | 5 × 2 | 6 | 6 | 150 | 30.20 |
| K 335 | 5 × 2 | 8 | 8 | 150 | 53.70 |

## Treillis ARTEC avec boucle B 500 A/B

| Type | Format | Ø LD | Ø QD | Écartement | Poids |
|---|---|---|---|---|---|
| | mm | | | | kg/pce |
| B 188.48 ♦ | 4.8 × 2.25 | 6 | 6 | 150 | 34.30 |
| B 188.54 ♦ | 5.4 × 2.25 | 6 | 6 | 150 | 38.60 |
| B 188.63 | 6.3 × 2.25 | 6 | 6 | 150 | 45.10 |
| B 257.39 ♦ | 3.9 × 2.25 | 6/7 | 7 | 150 | 36.70 |
| B 257.48 | 4.8 × 2.25 | 6/7 | 7 | 150 | 45.20 |
| B 257.54 | 5.4 × 2.25 | 6/7 | 7 | 150 | 50.80 |
| B 257.63 | 6.3 × 2.25 | 6/7 | 7 | 150 | 59.30 |
| B 335.39 | 3.9 × 2.25 | 6/8 | 8 | 150 | 46.90 |
| B 335.48 | 4.8 × 2.25 | 6/8 | 8 | 150 | 57.70 |
| B 335.54 | 5.4 × 2.25 | 6/8 | 8 | 150 | 64.90 |
| B 335.63 | 6.3 × 2.25 | 6/8 | 8 | 150 | 75.70 |
| B 424.48 | 4.8 × 2.25 | 6/9 | 9 | 150 | 71.90 |
| B 424.54 | 5.4 × 2.25 | 6/9 | 9 | 150 | 80.90 |
| B 424.63 | 6.3 × 2.25 | 6/9 | 9 | 150 | 94.40 |
| B 524.48 | 4.8 × 2.25 | 7/10 | 10 | 150 | 89.30 |
| B 524.54 | 5.4 × 2.25 | 7/10 | 10 | 150 | 100.50 |
| B 524.63 | 6.3 × 2.25 | 7/10 | 10 | 150 | 117.20 |
| B 634.63 ♦ | 6.3 × 2.25 | 7/11 | 11 | 150 | 141.10 |
| B 754.63 | 6.3 × 2.25 | 8/12 | 12 | 150 | 168.90 |

## Treillis pour parois B 500 A/B

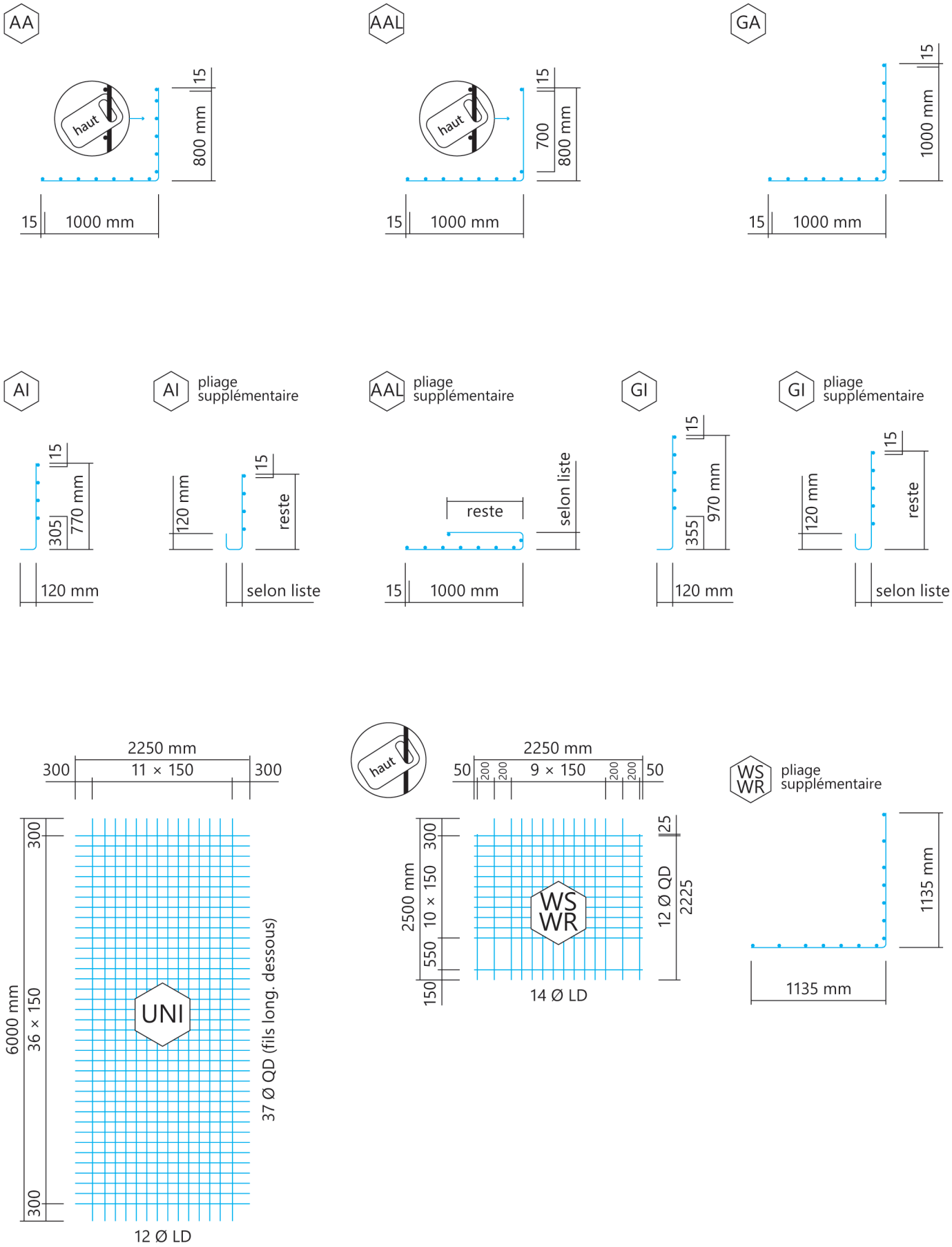
| Type | Format | Ø LD | Ø QD | Écartement | Poids |
|---|---|---|---|---|---|
| | mm | | | | kg/pce |
| W 257.25 | 2.50 × 2.25 | 6/7 | 8 | 150 | 25.70 |
| W 335.25 | 2.50 × 2.25 | 6/8 | 9 | 150 | 32.30 |
| W 257.27 | 2.70 × 2.25 | 6/7 | 8 | 150 | 27.50 |
| W 335.27 | 2.70 × 2.25 | 6/8 | 9 | 150 | 34.50 |
| W 257.32 | 3.20 × 2.25 | 6/7 | 8 | 150 | 29.80 |
| W 335.32 | 3.20 × 2.25 | 6/8 | 9 | 150 | 37.40 |
| W 424.32 | 3.20 × 2.25 | 6/9 | 10 | 150 | 46.50 |
| HP 257 | 2.50 × 2.10 | 6/8 | 8 | 150 | 20.10 |
| HP 335 ♦ | 2.50 × 2.10 | 8 | 8 | 150 | 26.30 |
| HW 335 | 3.15 × 2.10 | 8 | 8 | 150 | 30.70 |

♦ jusqu'à épuisement du stock

Majorations diverses: voir page 8

# ARMATURE DE RACCORDEMENT FORWA 2000

En acier à béton B 500 A



# PROGRAMME DE TREILLIS • ACIER



Avec boucle et en acier à béton B 500 A/B

## Treillis TOPAR-M

| Type | Format | Ø LD | Ø QD | Écartement | Poids |
|---|---|---|---|---|---|
| | mm | | | | kg/pce |
| HX 188.63 | 6.3 × 2.1 | 6 | 6 | 150 | 39.20 |
| HX 257.51 ♦ | 5.1 × 2.1 | 7 | 7 | 150 | 43.10 |
| HX 257.63 | 6.3 × 2.1 | 7 | 7 | 150 | 53.30 |
| HX 335.51 | 5.1 × 2.1 | 8 | 8 | 150 | 56.40 |
| HX 335.63 | 6.3 × 2.1 | 8 | 8 | 150 | 69.70 |
| HX 424.51 | 5.1 × 2.1 | 9 | 9 | 150 | 71.30 |
| HX 424.63 | 6.3 × 2.1 | 9 | 9 | 150 | 88.00 |
| HX 523.51 | 5.1 × 2.1 | 10 | 10 | 150 | 88.10 |
| HX 523.63 | 6.3 × 2.1 | 10 | 10 | 150 | 108.80 |

## Treillis FORWA 2000 B 500 A

| Type | Format | Ø LD | Ø QD | Écartement | Poids |
|---|---|---|---|---|---|
| | mm | | | | kg/pce |
| AA 250 | 5 | 7 | 7 | 150 | 36.30 |
| AA 330 | 5 | 7 | 8 | 150 | 41.40 |
| AA 420 | 5 | 8 | 9 | 150 | 53.20 |
| AAL 330 | 5 | 7 | 8 | 150/700/150 | 35.40 |
| AI 250 | 5 | 7 | 7 | 150 | 14.30 |
| AI 330 | 5 | 8 | 8 | 150 | 18.70 |
| GA 330 | 5 | 7 | 8 | 150 | 45.40 |
| GA 420 | 5 | 8 | 9 | 150 | 58.30 |
| GA 520 | 5 | 9 | 10 | 150 | 72.80 |
| GI 330 | 5 | 8 | 8 | 150 | 23.10 |
| GI 420 | 5 | 9 | 9 | 150 | 29.20 |
| WS 250 | 2.5 × 2.25 | 7 | 7 | 150 | 18.60 |
| WS 330 | 2.5 × 2.25 | 8 | 8 | 150 | 24.30 |
| WR 420 | 2.5 × 2.25 | 7 | 9 | 150 | 23.90 |
| UNI 330 | 6.0 × 2.25 | 8 | 8 | 150 | 61.40 |
| UNI 420 | 6.0 × 2.25 | 9 | 9 | 150 | 77.50 |

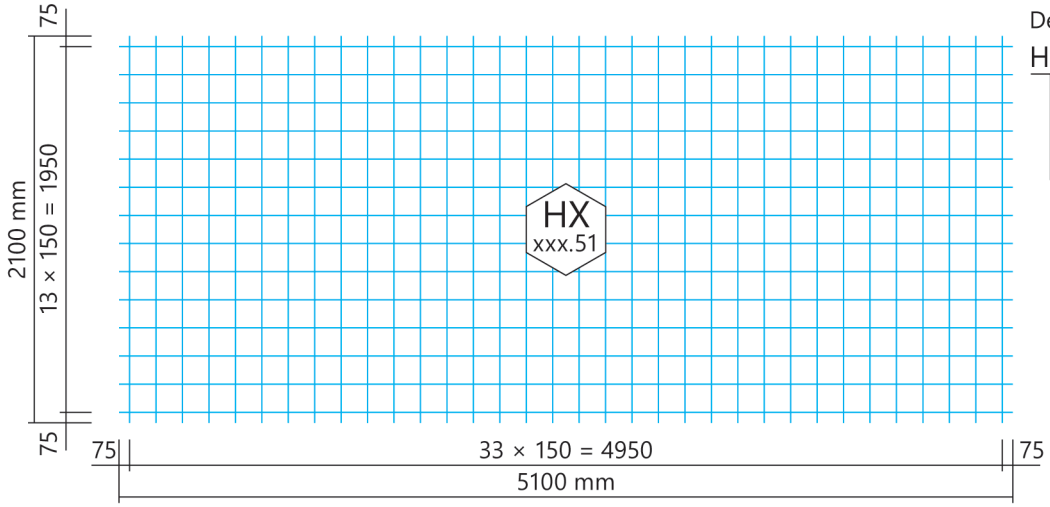
♦ jusqu'à épuisement du stock

| Majorations diverses |
|---|
| Coupe droite, par coupe et kg |
| Coupe biaise, par coupe et kg |
| Pliage minimum, par pliage |
| Pliage treillis > 10 kg, par pliage et kg |
| Pliage circulaire |
| Position, par position |
| Liste de moins de 3'000 kg, par liste |
| Commande de moins de CHF 200.- |
| Mouvement de grue, par manœuvre |

| Autorisation spéciale de transport |
|---|
| Largeur de treillis 2.51 - 3.00 m |
| Largeur de treillis 3.01 - 3.40 m |

# ARMATURE DE TREILLIS DE STOCK TOPAR-M

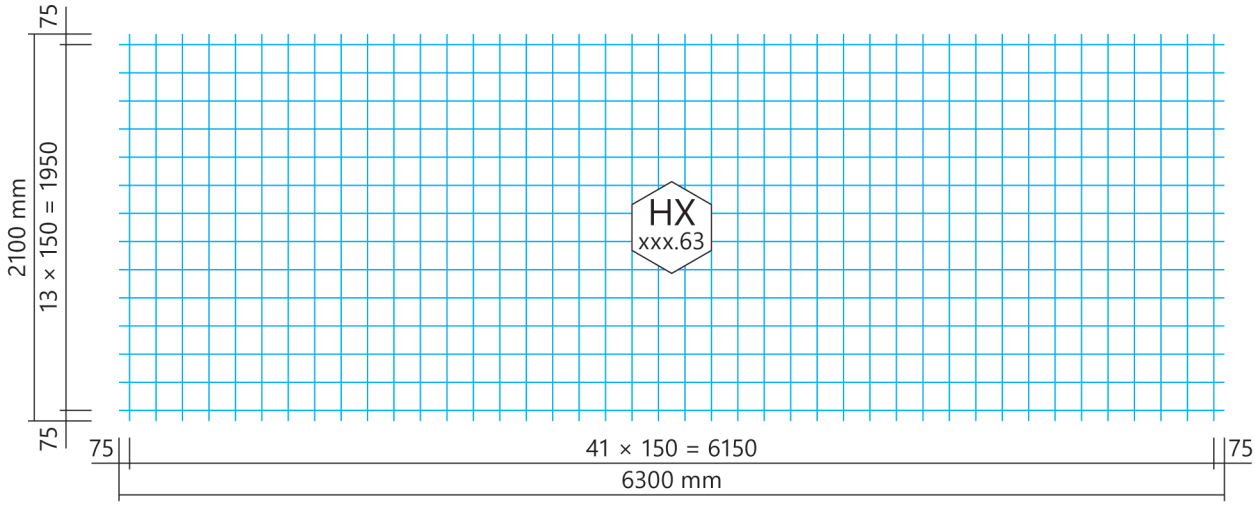
À haute ductulité et en acier à béton B 500 B

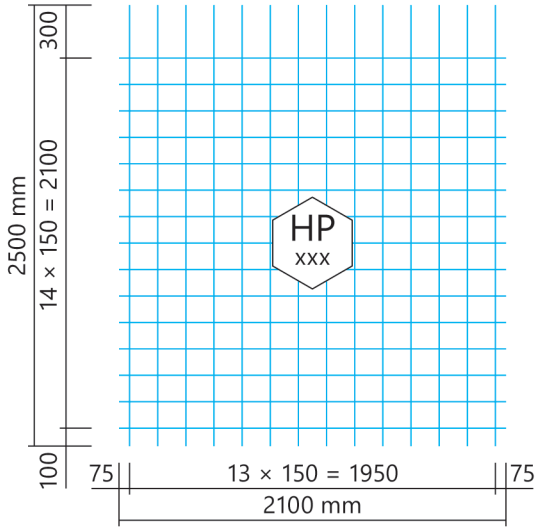


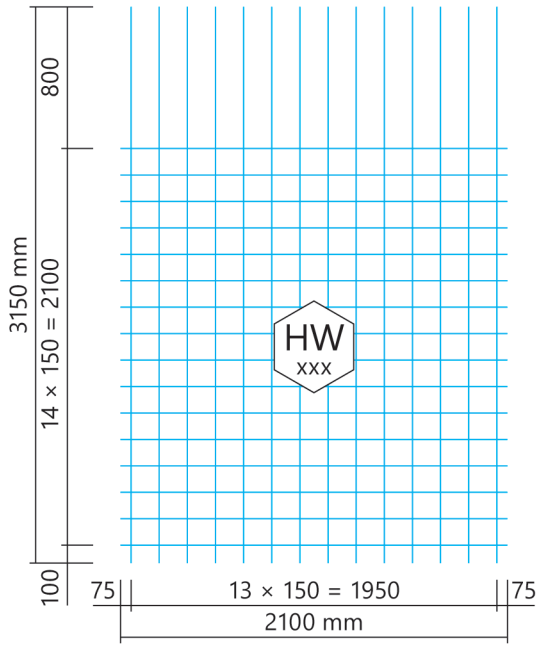

Dénomination des treillis

HX 335.63

- Longueur des treillis
- Section nominale
- Série de treillis
- Haute ductilité



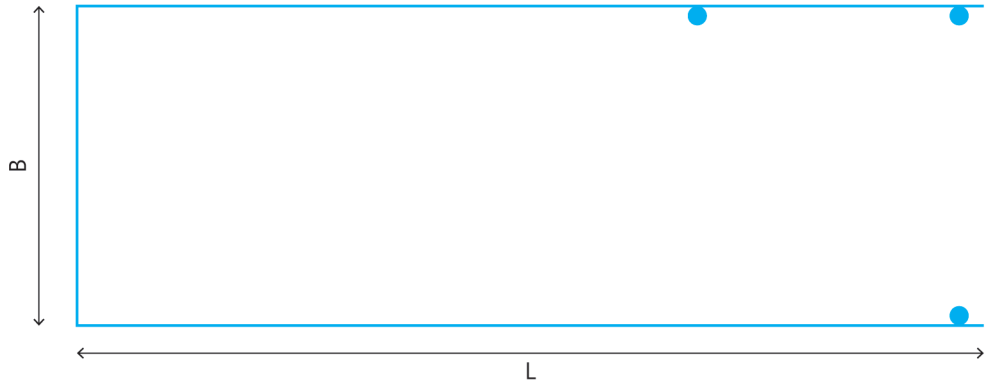



# CAGES DE RACCORDEMENT BÜKO

En acier à béton B 500 A

**Longueur de 3 mètres**
**N = NORMAL • M = MOYEN • V = RENFORCÉ • S = FORT**



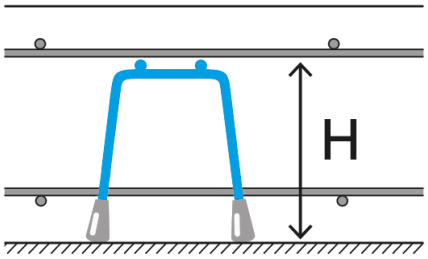

| Type | Épaisseur béton | Caractéristiques techniques | | | | | Poids |
|---|---|---|---|---|---|---|---|
| | | B | L | Ø | as | Écartement | |
| | | mm | | | mm²/m | mm | kg/pce |
| 90 N | 140 - 180 | 90 | 700 | 15 Ø 8 | 251 | 200 | 12.38 |
| 130 N | 180 - 220 | 130 | 700 | 15 Ø 8 | 251 | 200 | 12.62 |
| 150 N | 190 - 230 | 150 | 700 | 15 Ø 8 | 251 | 200 | 12.73 |
| 180 N | 230 - 270 | 180 | 700 | 15 Ø 8 | 251 | 200 | 12.91 |
| 110 M | 160 - 200 | 110 | 900 | 15 Ø 10 | 393 | 200 | 21.23 |
| 140 M | 190 - 230 | 140 | 900 | 15 Ø 10 | 393 | 200 | 21.51 |
| 170 M | 210 - 240 | 170 | 900 | 15 Ø 10 | 393 | 200 | 21.78 |
| 190 M | 240 - 280 | 190 | 900 | 15 Ø 10 | 393 | 200 | 21.97 |
| 110 V | 160 - 200 | 110 | 900 | 20 Ø 10 | 523 | 150 | 27.12 |
| 140 V | 190 - 230 | 140 | 900 | 20 Ø 10 | 523 | 150 | 27.49 |
| 190 V | 240 - 280 | 190 | 900 | 20 Ø 10 | 523 | 150 | 28.11 |
| 190 S * | 240 - 280 | 190 | 1000 | 20 Ø 12 | 754 | 150 | 42.45 |
| 240 S * | 290 - 330 | 240 | 1000 | 20 Ø 12 | 754 | 150 | 43.34 |

| Armatures de raccordement • Tableau de correspondance | | |
|---|---|---|
| **FORWA 2000** | **BÜKO** | **FIRIPA** |
| **AU 25/09, AU 25/12, AU 25/14, AU 25/17** | **BK N** | **N** |
| **AU 33/11, AU 33/17** | **BK D** | **C** |
| **AU 39/11, AU 39/14, AU 39/17** | **BK M** | **M** |
| **AU 52/11, AU 52/14, AU 52/17** | **BK V** | **V** |
| **AU 75/19, AU 75/24** | **BK S** | **S** |

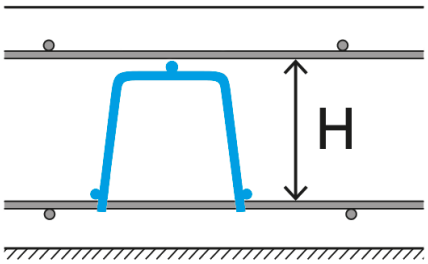
* Sur commande spéciale

# PANIERS DE SUPPORT, DISTANCEURS MINI & ARMEX CHEVALETS DE SUPPORT

Avec pied en plastique posé sur le coffrage



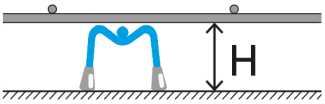

Sans pied en plastique posé sur l'armature inférieure



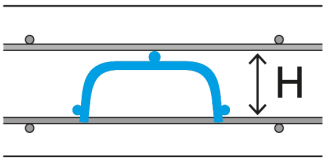

## Paniers de support

| Avec ou sans pied en plastique<br>Longueur: 2.50 m, paquet de 10 pièces | |
|---|---|
| **Hauteur en mm** | |
| **Échelonnement chaque 10 mm** | |
| 70 - 100 | |
| 110 - 150 | |
| 160 - 200 | |
| **Échelonnement chaque 20 mm** | |
| 220 - 300 | |
| 320 - 400 | |
| 420 - 500 | |
| **Échelonnement chaque 10 mm** | |
| 510 - 600 | 810 - 900 |
| 610 - 700 | 910 - 1000 |
| 710 - 800 | 1010 - 1100 |

Avec pied en plastique

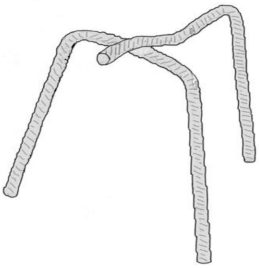



Sans pied en plastique



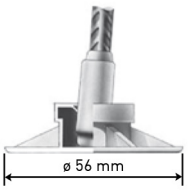

## Distanceurs MINI

| Avec pied | Sans pied |
|---|---|
| **Hauteur en mm** | |
| **Échelonnement chaque 5 mm** | |
| 20 - 35 | - |
| 40 | 40 |
| **Échelonnement chaque 10 mm** | |
| 50 + 60 | 50 + 60 |



## ARMEX Chevalets de support

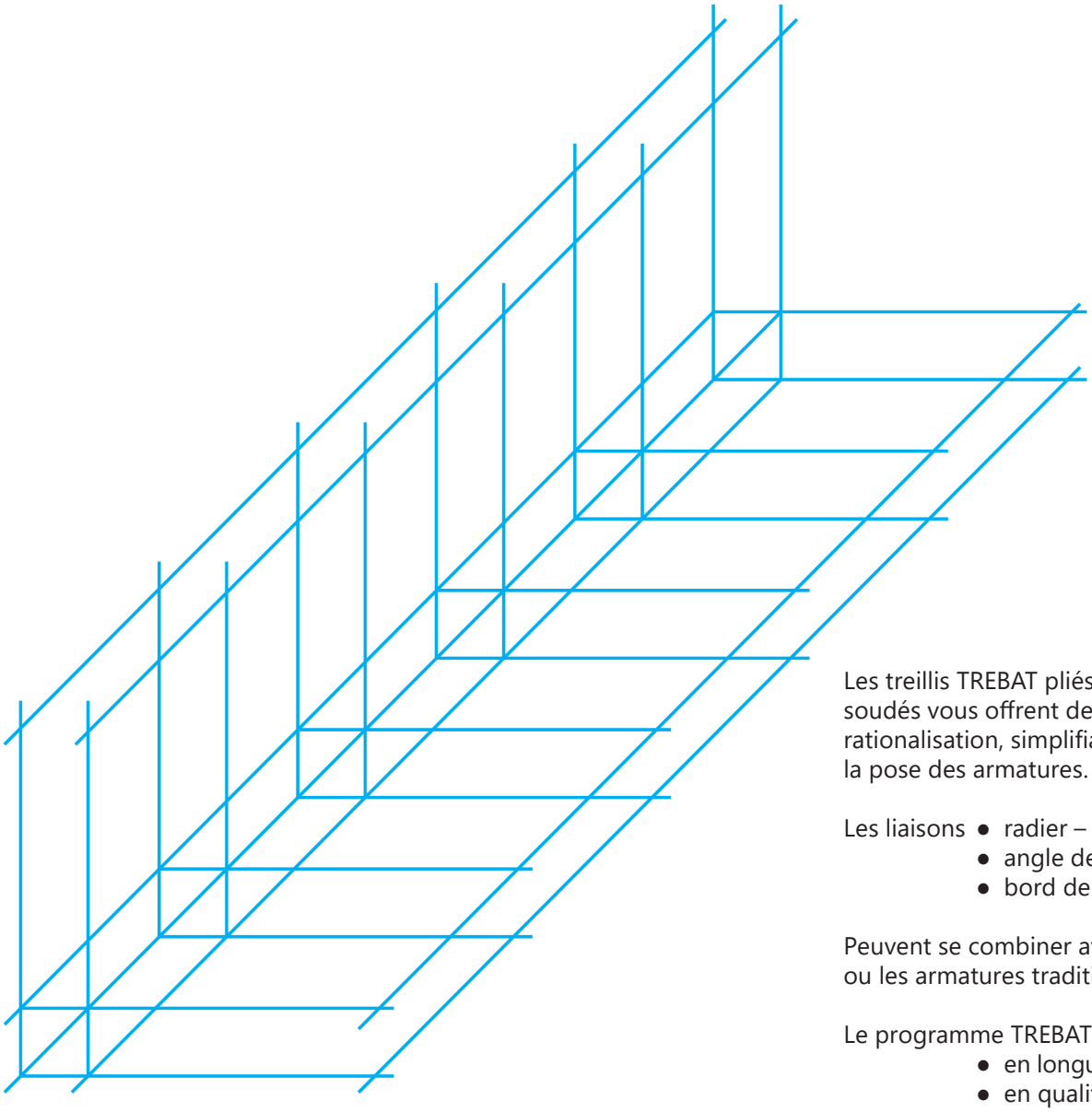
| Hauteur en cm | | | |
|---|---|---|---|
| 6 - 10 | 31 - 35 | 56 - 60 | 81 - 85 |
| 11 - 15 | 36 - 40 | 61 - 65 | 86 - 90 |
| 16 - 20 | 41 - 45 | 66 - 70 | 91 - 95 |
| 21 - 25 | 46 - 50 | 71 - 75 | |
| 26 - 30 | 51 - 55 | 76 - 80 | |




## Répartiteurs de pression DV

| | |
|---|---|
| **Matériaux** | Plastique |
| **Utilisation** | Lors de la pose des paniers de support avec pied en plastique sur des plaques d'isolement |
| **Surface d'appui** | 25 $cm^2$ |
| **Ø pied** | 56 mm |
| **Sacs** | 250 pièces |

# PROGRAMME TREBAT



Les treillis TREBAT pliés-préassemblés-soudés vous offrent des possibilités de rationalisation, simplifiant grandement la pose des armatures.

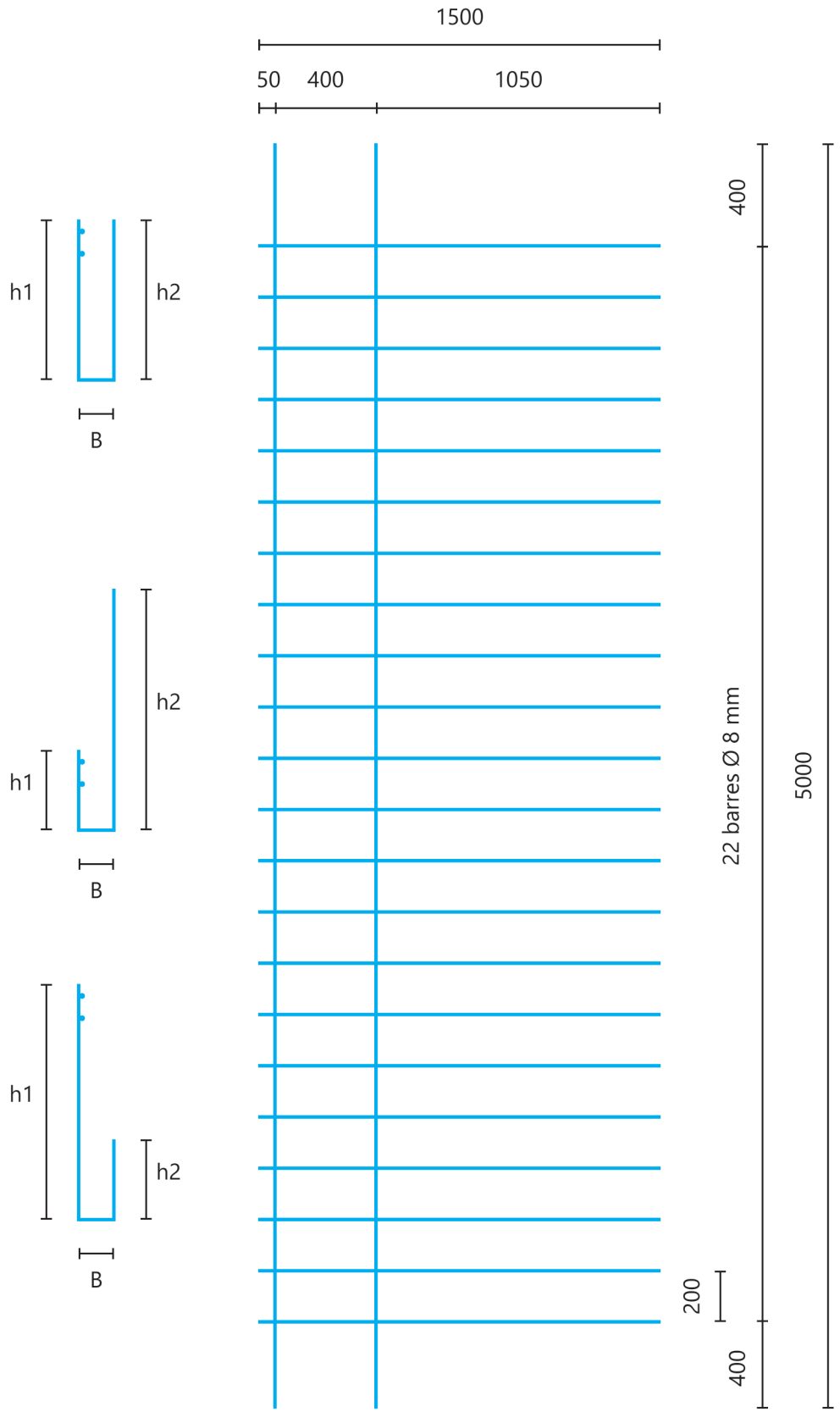
Les liaisons
- radier – mur
- angle de mur
- bord de dalle

Peuvent se combiner avec les treillis ou les armatures traditionnelles.

Le programme TREBAT est disponible:
- en longueur de 5 mètres
- en qualité acier B500B, selon la norme SIA 162

# PROGRAMME TREBAT

## ÉPINGLE TREBAT TYPE 1

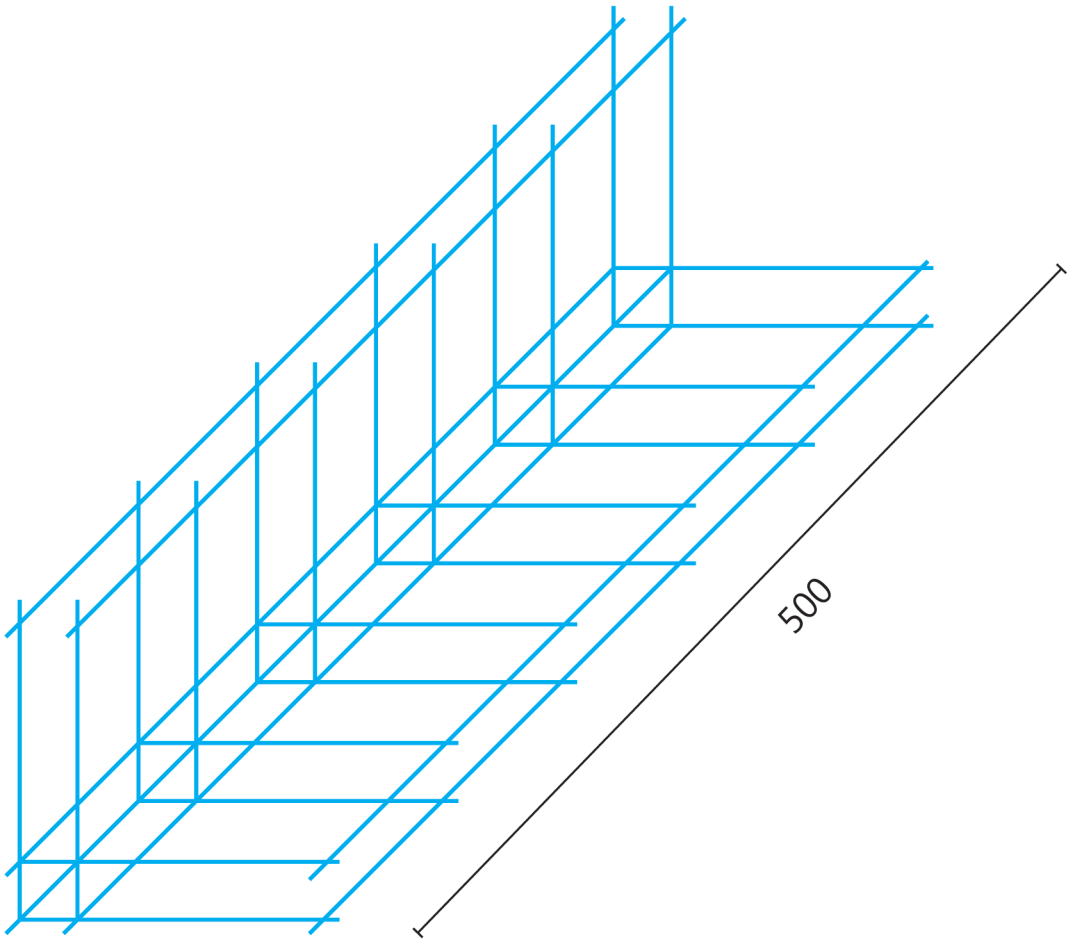



Ø 8 mm
16.985 kg

Section
251 mm² / ml

LIAISON TREBAT

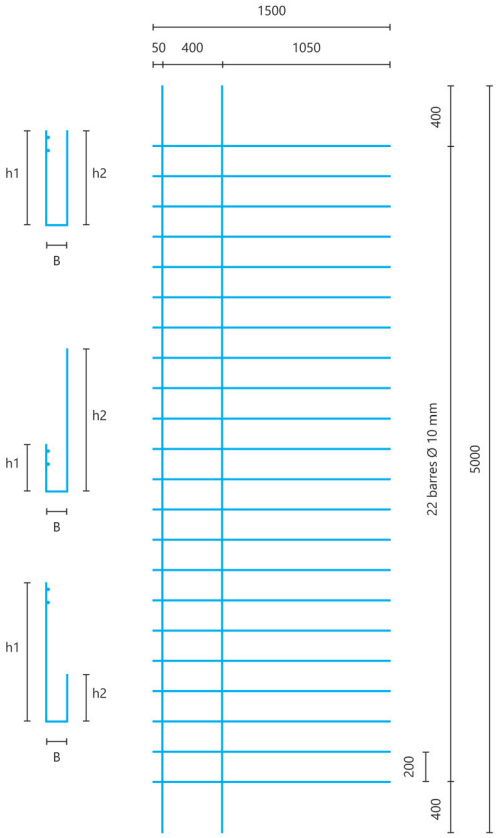
Radier - mur • mur - mur




| Type | Combinaisons épingles préassemblées - soudées | | Poids en kg |
|---|---|---|---|
| | 35 = | 1 + 5 | 41.87 |
| | 36 = | 1 + 6 | 55.85 |
| | 37 = | 2 + 6 | 65.40 |
| | 38 = | 1 + 9 | 44.47 |
| | 39 = | 1 + 10 | 59.92 |
| | 40 = | 2 + 10 | 69.47 |
| | 41 = | 3 + 7 | 51.35 |
| | 42 = | 3 + 8 | 68.00 |
| | 43 = | 3 + 11 | 54.90 |
| | 44 = | 3 + 12 | 73.55 |
| | 45 = | 4 + 8 | 80.21 |
| | 46 = | 4 + 12 | 85.76 |

# PROGRAMME TREBAT

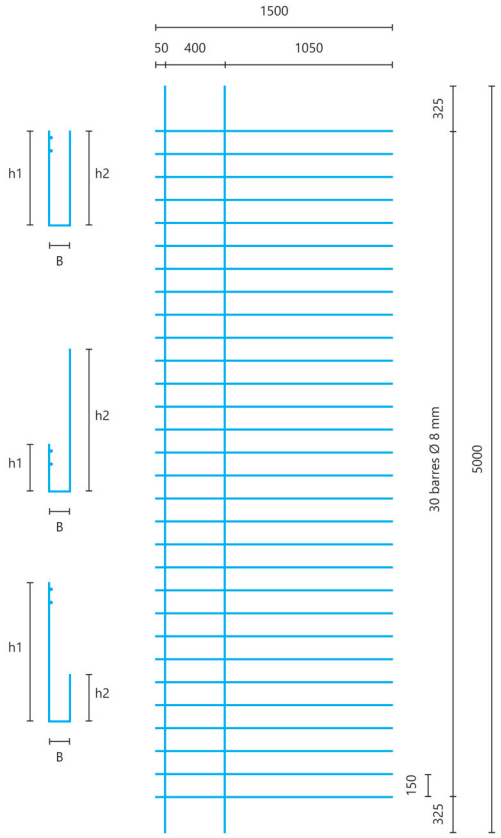
## ÉPINGLE TREBAT TYPE 2 (BÜKO M)




Ø 10 mm
26.531 kg

Section
393 mm² / ml

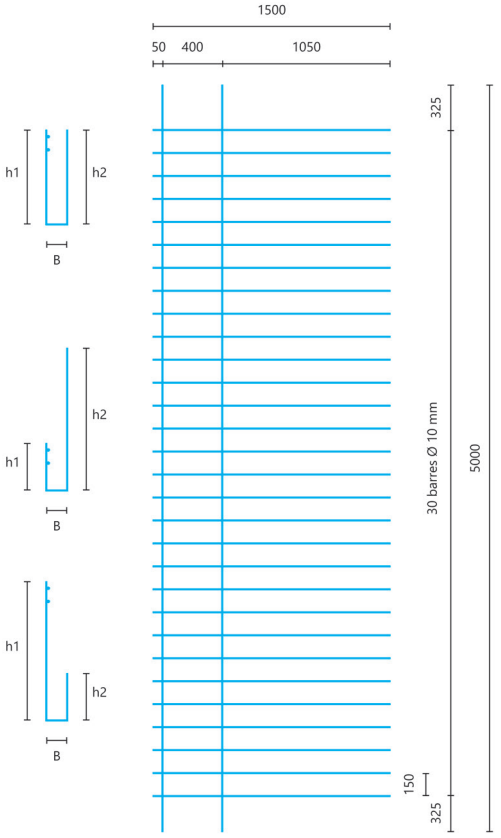
## ÉPINGLE TREBAT TYPE 3 (BÜKO D)




Ø 8 mm
21.725 kg

Section
335 mm² / ml

## ÉPINGLE TREBAT TYPE 4 (BÜKO V)

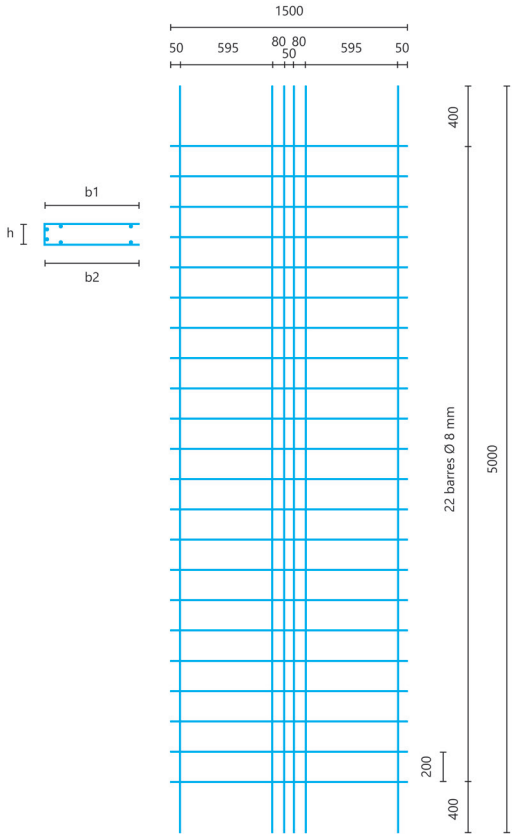



Ø 10 mm
33.935 kg

Section
524 mm² / ml

# PROGRAMME TREBAT

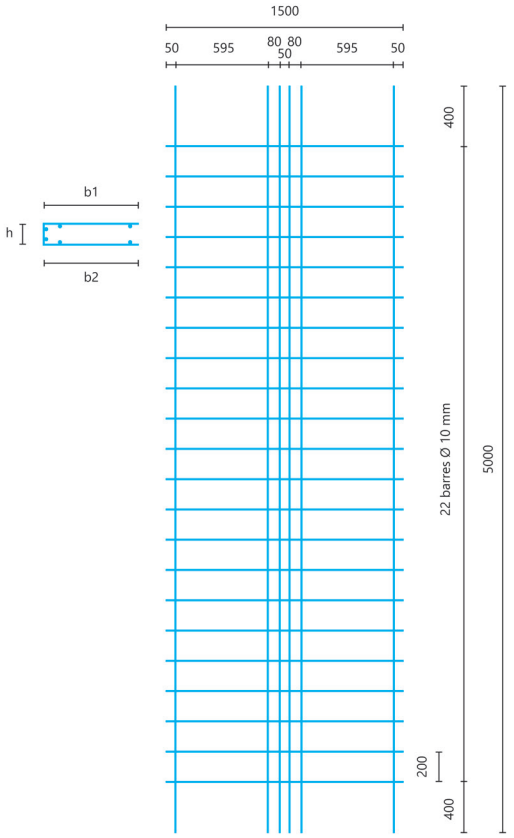
## ÉPINGLE TREBAT TYPE 5




Ø 8 mm
24.885 kg

Section
251 mm² / ml

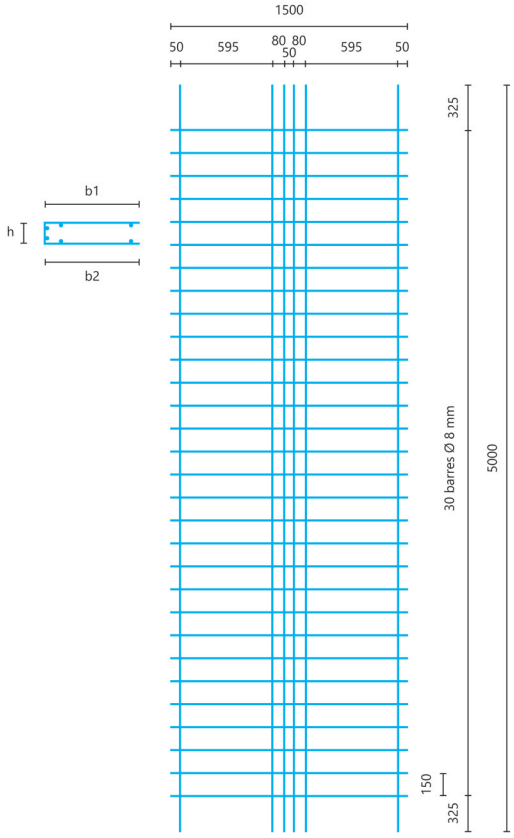
## ÉPINGLE TREBAT TYPE 6




Ø 10 mm
38.871 kg

Section
393 mm² / ml

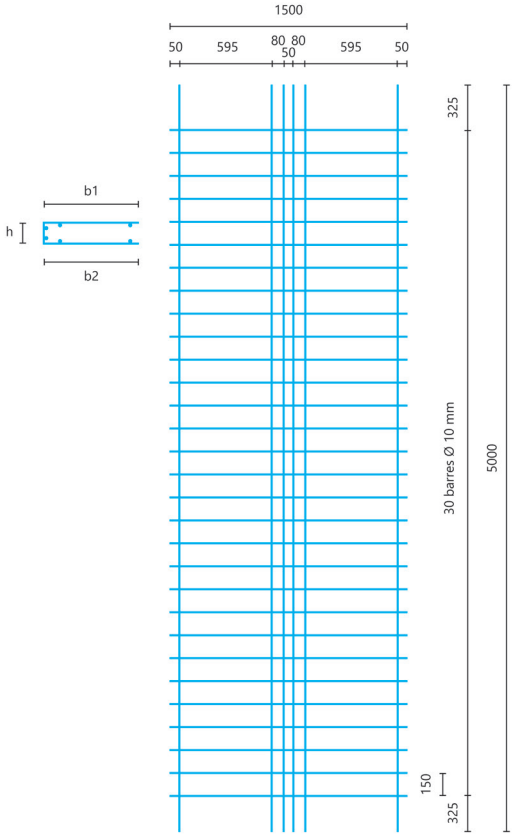
## ÉPINGLE TREBAT TYPE 7




Ø 8 mm
29.625 kg

Section
335 mm² / ml

## ÉPINGLE TREBAT TYPE 8

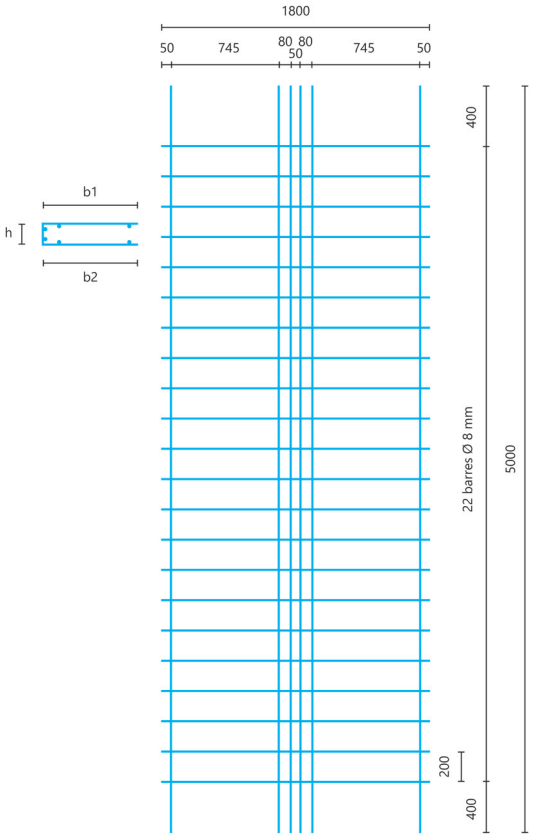



Ø 10 mm
46.275 kg

Section
524 mm² / ml

# PROGRAMME TREBAT

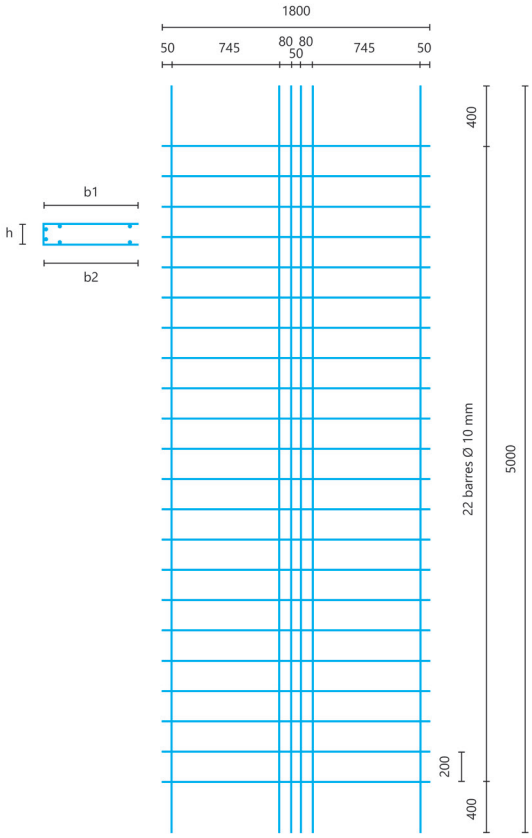
## ÉPINGLE TREBAT TYPE 9




Ø 8 mm
27.492 kg

Section
251 mm² / ml

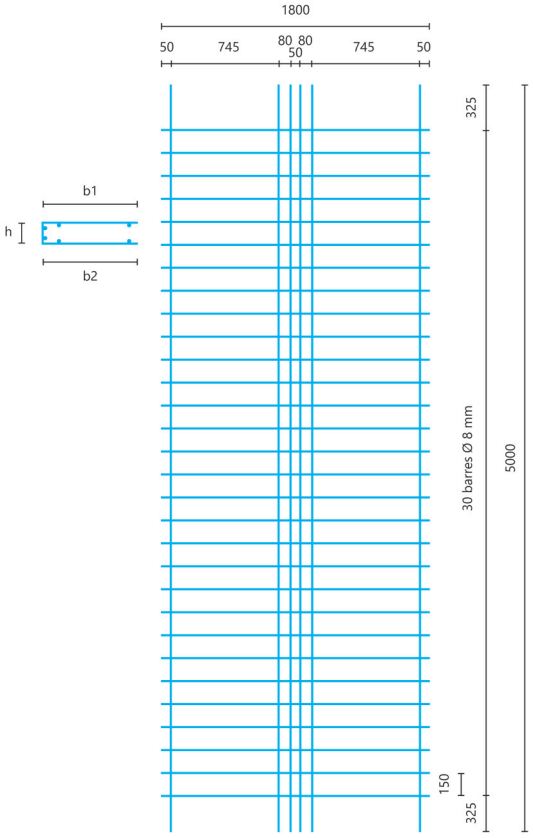
## ÉPINGLE TREBAT TYPE 10




Ø 10 mm
42.943 kg

Section
393 mm² / ml

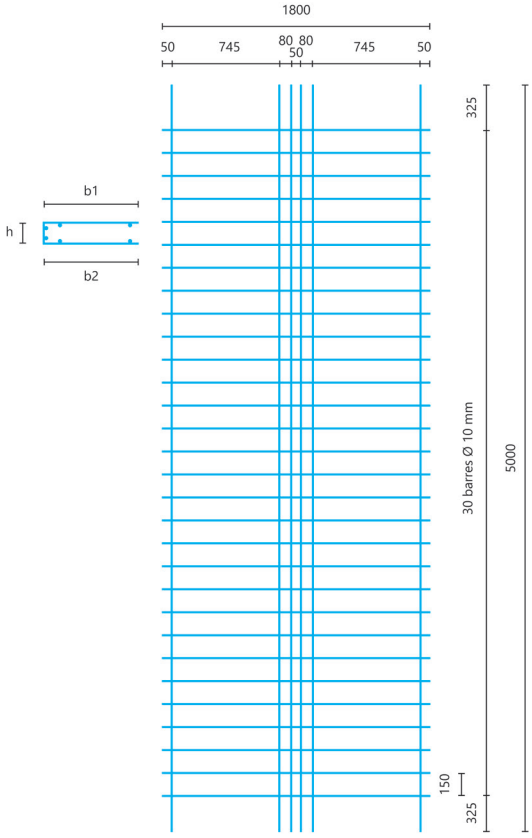
## ÉPINGLE TREBAT TYPE 11




Ø 8 mm
33.180 kg

Section
335 mm² / ml

## ÉPINGLE TREBAT TYPE 12

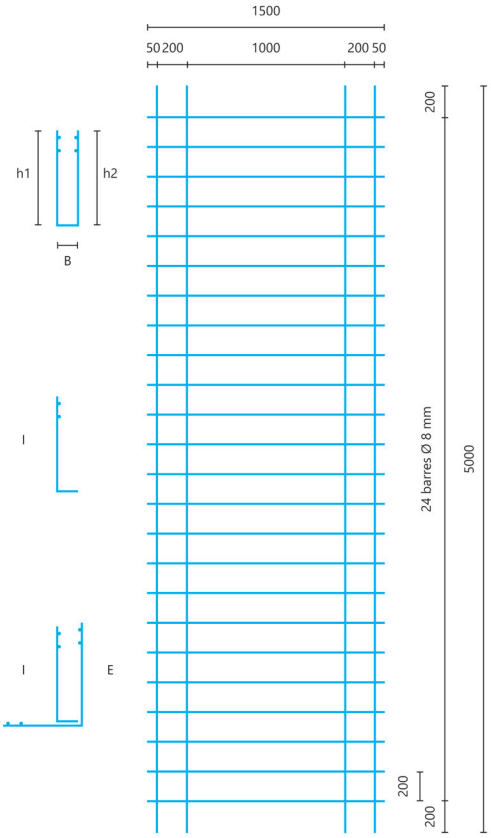



Ø 10 mm
51.828 kg

Section
524 mm² / ml

# PROGRAMME TREBAT

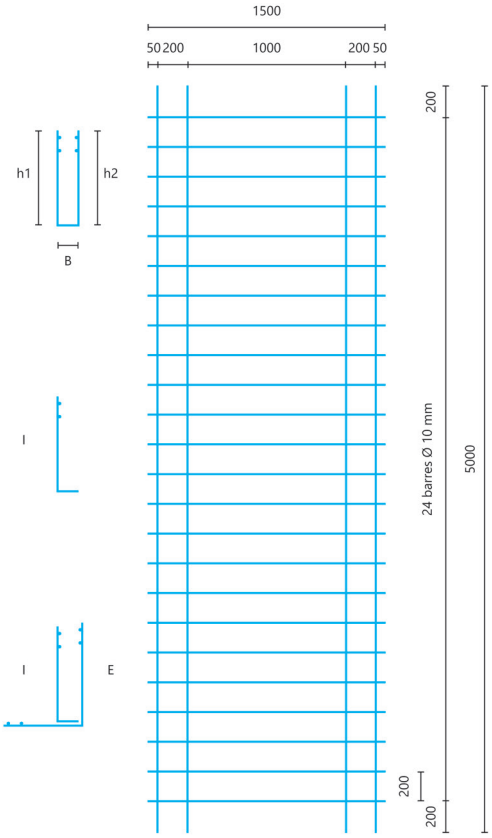
## ÉPINGLE TREBAT TYPE 13




Ø 8 mm
22.120 kg

Section
251 mm² / ml

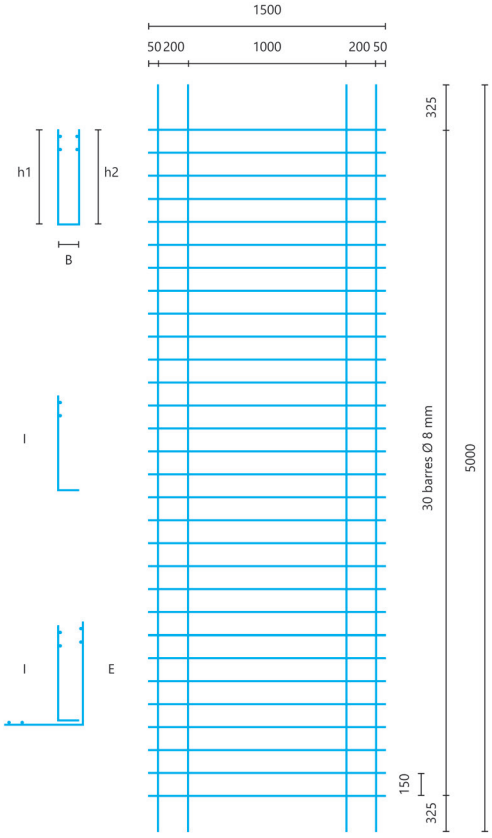
## ÉPINGLE TREBAT TYPE 14




Ø 10 mm
34.552 kg

Section
393 mm² / ml

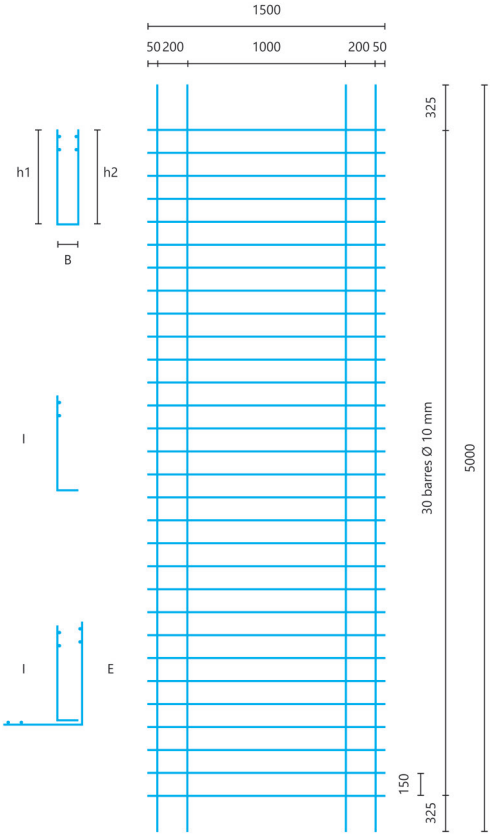
## ÉPINGLE TREBAT TYPE 15




Ø 8 mm
25.675 kg

Section
335 mm² / ml

## ÉPINGLE TREBAT TYPE 16

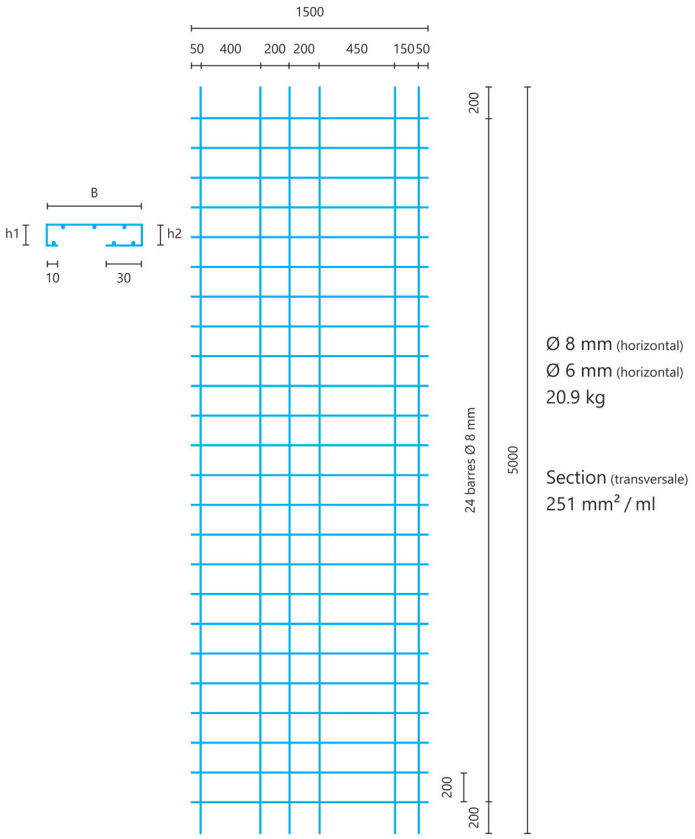



Ø 10 mm
40.105 kg

Section
524 mm² / ml

# PROGRAMME TREBAT

CHAPEAU TREBAT TYPE 20




Ø 8 mm (horizontal)
Ø 6 mm (horizontal)
20.9 kg

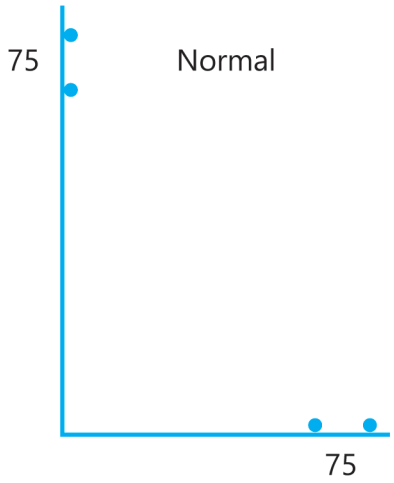
Section (transversale)
251 mm² / ml

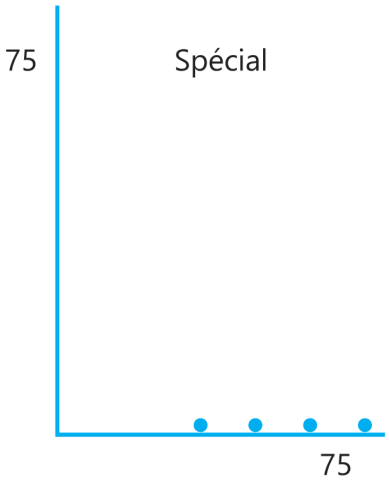
## TREBAT SPÉCIAUX

En longueur de 500 cm

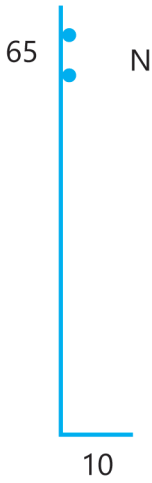
## EXEMPLES

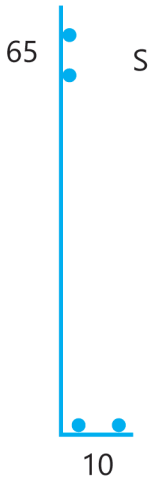
### TREBAT TYPE 16E



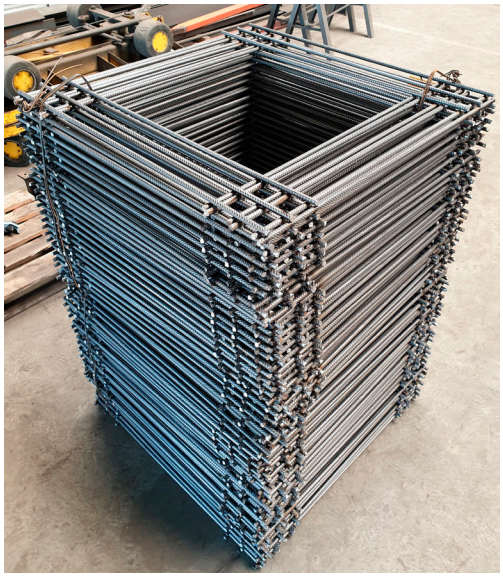

### TREBAT TYPE 15i



# ACIERS PRÉFABRIQUÉS & PIEUX

Quelques-unes de nos réalisations



# LIGATURES, FERS D'ATTENTE & MATÉRIEL DE COFFRAGE

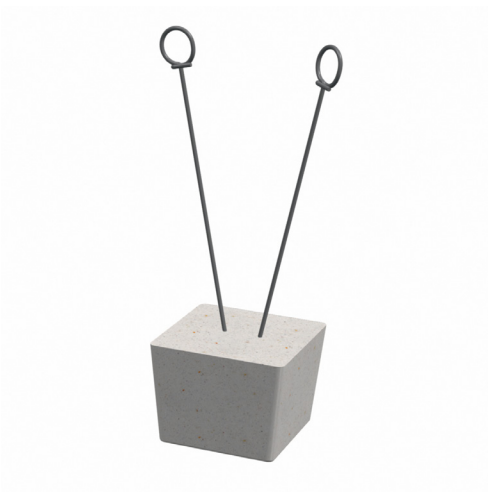
# LIGATURES

## Ligatures cuivrées & soudées

| Longueur | Ø Fil | Nombre de paquets (rouleaux) | |
|---|---|---|---|
| cm | mm | Par sac | Par palette |
| 10 | 1.1 | 20 | 400 |
| 12 | 1.1 | 20 | 400 |
| 14 | 1.1 | 20 | 400 |
| 16 | 1.1 | 15 | 300 |
| 18 | 1.2 | 15 | 300 |
| 20 | 1.2 | 10 | 200 |
| 22 | 1.2 | 10 | 200 |
| 24 | 1.2 | 10 | 200 |
| 26 | 1.2 | 10 | 200 |
| 28 | 1.2 | 10 | 200 |

## Ligatures doubles, cuivrées & soudées

| Longueur | Ø Fil | Nombre de paquets (rouleaux) | |
|---|---|---|---|
| cm | mm | Par palette | |
| 10 | 1.1 | Carton de 1'000 pièces | 175 |
| 12 | 1.1 | | 150 |
| 14 | 1.1 | | 125 |
| 16 | 1.2 | | 129 |



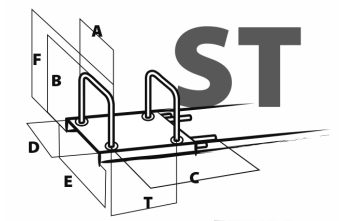
## Taquets béton

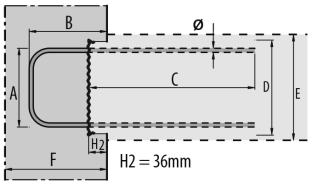
| Hauteur | Nombre de pièces | |
|---|---|---|
| mm | Par sac | Par palette |
| 25 | 300 | 18'000 |
| 30 | 250 | 13'750 |
| 40 | 250 | 10'000 |
| 50 | 150 | 6'000 |
| 60 (pro gel) | 100 | |

# FERS D'ATTENTE HBT



ULMACO



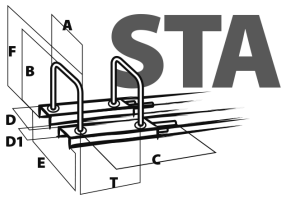

| Programme standard | Désignation | | | Dimension | | | | | | | Poids / ml | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Larg. | Ø Acier | Écart. | A | B | C | D | E | F | T | Tôle et armature | Armature |
| | mm | | cm | | | | | | | | | |
| | 80 | 8 | 15 | 6 | 12 | 40 | 8.6 | 12 | 15 | 15 | 3.60 | 2.78 |
| | 80 | 8 | 20 | 6 | 12 | 40 | 8.6 | 12 | 15 | 20 | 2.91 | 2.09 |
| | S120 | 8 | 15 | 9 | 12 | 40 | 12.2 | 15 | 15 | 15 | 4.23 | 2.86 |
| | S120 | 8 | 20 | 9 | 12 | 40 | 12.2 | 15 | 15 | 20 | 3.51 | 2.14 |
| | S120 | 10 | 15 | 9 | 12 | 50 | 12.2 | 15 | 15 | 15 | 6.62 | 5.25 |
| | S120 | 10 | 20 | 9 | 12 | 50 | 12.2 | 15 | 15 | 20 | 5.31 | 3.94 |
| | 120 | 8 | 15 | 9 | 15 | 40 | 12.2 | 15 | 20 | 15 | 4.38 | 3.01 |
| | 120 | 8 | 20 | 9 | 15 | 40 | 12.2 | 15 | 20 | 20 | 3.62 | 2.26 |
| | 120 | 10 | 15 | 9 | 15 | 50 | 12.2 | 15 | 20 | 15 | 6.86 | 5.49 |
| | 120 | 12 | 15X | 9 | 15 | 50 | 12.2 | 15 | 20 | 15 | 9.27 | 7.90 |
| | 120 | 12 | 15Y | 9 | 20 | 50 | 12.2 | 15 | 25 | 15 | 9.84 | 8.47 |
| | 120 | 12 | 15Z | 9 | 25 | 50 | 12.2 | 15 | 30 | 15 | 10.40 | 9.04 |
| | 150 | 8 | 20 | 12 | 15 | 40 | 15.0 | 18-20 | 20 | 20 | 3.87 | 2.31 |
| | S150 | 10 | 15 | 12 | 12 | 50 | 15.0 | 18-20 | 20 | 15 | 6.93 | 5.37 |
| | 150 | 10 | 15 | 12 | 15 | 50 | 15.0 | 18-20 | 20 | 15 | 7.17 | 5.61 |
| | 150 | 10 | 15Y | 12 | 20 | 60 | 15.0 | 18-20 | 25 | 15 | 7.56 | 6.00 |
| | 150 | 10 | 15Z | 12 | 25 | 60 | 15.0 | 18-20 | 30 | 15 | 7.96 | 6.40 |
| | 150 | 10 | 20 | 12 | 15 | 50 | 15.0 | 18-20 | 20 | 20 | 5.77 | 4.21 |
| | 150 | 12 | 15X | 12 | 15 | 60 | 15.0 | 18-20 | 20 | 15 | 10.77 | 9.21 |
| | 150 | 12 | 15Y | 12 | 20 | 60 | 15.0 | 18-20 | 25 | 15 | 11.34 | 9.78 |
| | 150 | 12 | 15Z | 12 | 25 | 60 | 15.0 | 18-20 | 30 | 15 | 11.90 | 10.34 |
| | 150 | 14 | 15X | 12 | 15 | 54 | 15.0 | 18-20 | 20 | 15 | 13.18 | 11.62 |
| | 150 | 14 | 15Z | 12 | 25 | 54 | 15.0 | 18-20 | 30 | 15 | 14.73 | 13.17 |
| | 190 | 8 | 15 | 16 | 15 | 40 | 18.6 | 22 | 20 | 15 | 5.03 | 3.19 |
| | 190 | 8 | 20 | 16 | 15 | 40 | 18.6 | 22 | 20 | 20 | 4.23 | 2.39 |
| | 190 | 10 | 15 | 16 | 15 | 50 | 18.6 | 22 | 20 | 15 | 7.60 | 5.77 |
| | 190 | 10 | 15Y | 16 | 20 | 60 | 18.6 | 22 | 25 | 15 | 7.99 | 6.14 |
| | 190 | 10 | 15Z | 16 | 25 | 60 | 18.6 | 22 | 30 | 15 | 8.39 | 6.54 |
| | 190 | 10 | 20 | 16 | 15 | 50 | 18.6 | 22 | 20 | 20 | 6.16 | 4.32 |
| | 190 | 12 | 15X | 16 | 15 | 60 | 18.6 | 22 | 20 | 15 | 11.26 | 9.43 |
| | 190 | 12 | 15Y | 16 | 20 | 60 | 18.6 | 22 | 25 | 15 | 11.83 | 10.0 |
| | 190 | 12 | 15Z | 16 | 25 | 60 | 18.6 | 22 | 30 | 15 | 12.39 | 10.57 |
| | 190 | 14 | 15X | 16 | 15 | 60 | 18.6 | 22 | 20 | 15 | 13.74 | 12.86 |
| | 190 | 14 | 15Z | 16 | 25 | 60 | 18.6 | 22 | 30 | 15 | 15.29 | 14.40 |
| | 220 | 8 | 15 | 19 | 15 | 40 | 22.2 | 25 | 20 | 15 | 5.39 | 3.26 |
| | 220 | 8 | 20 | 19 | 15 | 40 | 22.2 | 25 | 20 | 20 | 4.58 | 2.45 |
| | 220 | 10 | 15 | 19 | 15 | 50 | 22.2 | 25 | 20 | 15 | 8.02 | 5.88 |
| | 220 | 10 | 15Y | 19 | 20 | 60 | 22.2 | 25 | 25 | 15 | 8.41 | 6.28 |
| | 220 | 10 | 15Z | 19 | 25 | 60 | 22.2 | 25 | 30 | 15 | 8.81 | 6.67 |
| | 220 | 10 | 20 | 19 | 15 | 50 | 22.2 | 25 | 20 | 20 | 6.54 | 4.41 |
| | 220 | 12 | 15X | 19 | 15 | 60 | 22.2 | 25 | 20 | 15 | 11.74 | 9.60 |
| | 220 | 12 | 15Y | 19 | 20 | 60 | 22.2 | 25 | 25 | 15 | 12.30 | 10.17 |
| | 220 | 12 | 15Z | 19 | 25 | 60 | 22.2 | 25 | 30 | 15 | 12.87 | 10.74 |
| | 220 | 14 | 15X | 19 | 15 | 57 | 22.2 | 25 | 20 | 15 | 14.29 | 13.25 |
| | 220 | 14 | 15Z | 19 | 25 | 57 | 22.2 | 25 | 30 | 15 | 15.84 | 14.65 |

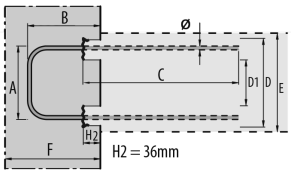
Les éléments courts à 85 cm sont livrés avec une dimension C de 40 cm.

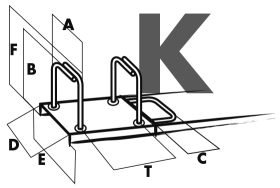
# FERS D'ATTENTE HBT

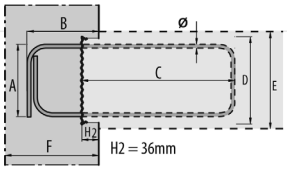


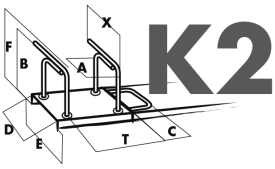
ULMACO

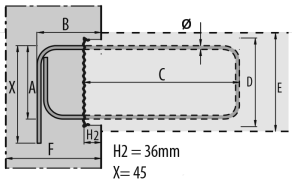


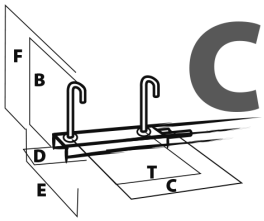



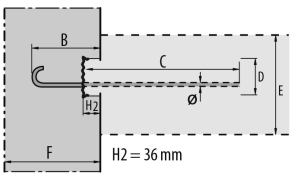




| Programme standard | Désignation | | | Dimension | | | | | | | | Poids / ml | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Larg. | Ø Acier | Écart. | A | B | C | D | D1 | E | F | T | Tôle et armature | Armature |
| | mm | | cm | | | | | | | | | | |
| | 160 | 10 | 15 | 12 | 15 | 40 | 16.0 | 5 | 17 | 20 | 15 | 6.91 | 4.82 |
| | 180 | 10 | 15 | 14 | 15 | 40 | 18.0 | 7 | 19 | 20 | 15 | 6.99 | 4.90 |
| | 180 | 12 | 15X | 14 | 15 | 60 | 18.0 | 1 | 19 | 20 | 15 | 11.40 | 9.32 |
| | 210 | 8 | 20 | 17 | 15 | 40 | 21.0 | 10 | 22 | 20 | 20 | 4.49 | 2.41 |
| | 210 | 10 | 15 | 17 | 15 | 40 | 21.0 | 10 | 22 | 20 | 15 | 7.10 | 5.01 |
| | 210 | 12 | 15X | 17 | 15 | 60 | 21.0 | 4 | 22 | 20 | 15 | 11.58 | 9.50 |
| | 250 | 10 | 15 | 21 | 15 | 50 | 25.0 | 8 | 26 | 20 | 15 | 8.05 | 5.96 |
| | 250 | 12 | 15X | 21 | 15 | 60 | 25.0 | 8 | 26 | 20 | 15 | 11.80 | 9.72 |
| | 250 | 14 | 15X | 21 | 15 | 56 | 25.0 | 8 | 26 | 20 | 15 | 15.33 | 13.25 |
| | 280 | 8 | 15 | 24 | 15 | 40 | 28.0 | 17 | 30 | 20 | 15 | 5.47 | 3.39 |
| | 280 | 8 | 20 | 24 | 15 | 40 | 28.0 | 17 | 30 | 20 | 20 | 4.63 | 2.54 |
| | 280 | 10 | 15 | 24 | 15 | 50 | 28.0 | 11 | 30 | 20 | 15 | 8.17 | 6.08 |
| | 280 | 10 | 15Y | 24 | 20 | 50 | 28.0 | 11 | 30 | 25 | 15 | 8.56 | 6.48 |
| | 280 | 10 | 15Z | 24 | 25 | 50 | 28.0 | 11 | 30 | 30 | 15 | 8.96 | 6.87 |
| | 280 | 10 | 20 | 24 | 15 | 40 | 28.0 | 11 | 30 | 20 | 20 | 6.05 | 3.97 |
| | 280 | 12 | 15X | 24 | 15 | 60 | 28.0 | 11 | 30 | 20 | 15 | 11.97 | 9.89 |
| | 280 | 12 | 15Y | 24 | 20 | 60 | 28.0 | 11 | 30 | 25 | 15 | 12.54 | 10.46 |
| | 280 | 12 | 15Z | 24 | 25 | 60 | 28.0 | 11 | 30 | 30 | 15 | 13.11 | 11.03 |
| | 280 | 14 | 15X | 24 | 15 | 56 | 28.0 | 11 | 30 | 20 | 15 | 13.48 | 230.3 |
| | 280 | 14 | 15Z | 24 | 25 | 56 | 28.0 | 11 | 30 | 30 | 15 | 17.11 | 15.03 |
| | K120 | 10 | 20 | 9 | 15 | 18 | 12.2 | | 15 | 20 | 20 | 4.12 | 2.75 |
| | K150 | 10 | 15 | 12 | 15 | 13 | 15.0 | | 18-20 | 20 | 15 | 5.19 | 3.63 |
| | K150 | 10 | 20 | 12 | 15 | 18 | 15.0 | | 18-20 | 20 | 20 | 4.58 | 3.02 |
| | K190 | 10 | 20 | 16 | 15 | 18 | 18.6 | | 22 | 20 | 20 | 5.23 | 3.38 |
| | K2150 | 10 | 20 | 12 | 15 | 18 | 15.0 | | 18-20 | 20 | 20 | 5.56 | 4.00 |
| | K2190 | 10 | 20 | 16 | 15 | 18 | 18.6 | | 22 | 20 | 20 | 6.12 | 4.24 |
| | K2190 | 10 | 20Y | 16 | 20 | 18 | 18.6 | | 22 | 25 | 20 | 6.41 | 4.53 |
| | K2190 | 10 | 20Z | 16 | 25 | 18 | 18.6 | | 22 | 30 | 20 | 6.71 | 4.83 |
| | 55 | 8 | 15 | | 15 | 40 | 5.5 | | VAR | 20 | 15 | 2.46 | 1.59 |
| | 55 | 8 | 20 | | 15 | 40 | 5.5 | | VAR | 20 | 20 | 2.05 | 1.19 |
| | 55 | 10 | 15 | | 15 | 40 | 5.5 | | VAR | 20 | 15 | 3.39 | 2.49 |
| | 85 | 10 | 15 | | 15 | 50 | 8.6 | | VAR | 20 | 15 | 4.00 | 2.88 |
| | 85 | 10 | 15Y | | 20 | 50 | 8.6 | | VAR | 25 | 15 | 4.20 | 3.16 |
| | 85 | 10 | 15Z | | 25 | 50 | 8.6 | | VAR | 30 | 15 | 4.40 | 3.36 |
| | 85 | 12 | 15X | | 15 | 60 | 8.6 | | VAR | 30 | 15 | 4.40 | 3.36 |
| | 85 | 12 | 15Y | | 20 | 60 | 8.6 | | VAR | 25 | 15 | 6.27 | 5.00 |
| | 85 | 12 | 15Z | | 25 | 60 | 8.6 | | VAR | 30 | 15 | 6.56 | 5.29 |
| | 85 | 14 | 15X | | 15 | 56 | 8.6 | | VAR | 20 | 15 | 7.93 | 5.80 |
| | 85 | 14 | 15Z | | 25 | 56 | 8.6 | | VAR | 30 | 15 | 8.71 | 6.59 |

Les éléments courts à 85 cm sont
livrés avec une dimension C de 40 cm.

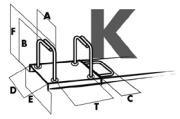
# FERS D'ATTENTE HBT

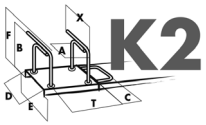


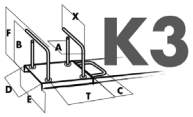
## Exécutions spéciales

ULMACO

### Type K • K2 • K3

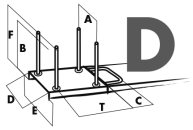


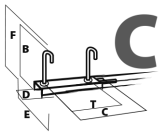

| Largeur de boîte D | | | | Ø Acier | | | Dimension de l'attente C |
|---|---|---|---|---|---|---|---|
| mm | | | | | | | |
| 120 | 150 | 190 | 220 | 8 | 10 | 12 | Au max. la longueur de l'écartement. Si une dimension doit être plus longue, celle-ci sera pliée de façon conique à l'intérieur de la boîte. |

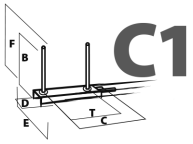
### Type D

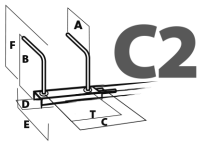


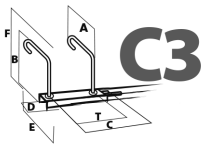

| Largeur de boîte D | | | | Ø Acier | | | | Dimension de l'attente C |
|---|---|---|---|---|---|---|---|---|
| mm | | | | | | | | |
| 120 | 150 | 190 | 220 | 8 | 10 | 12 | 14 | Au max. la longueur de l'écartement. Si une dimension doit être plus longue, celle-ci sera pliée de façon conique à l'intérieur de la boîte. |

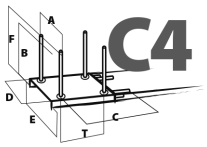
### Type C • C1 • C2 • C3 • C4 • C5

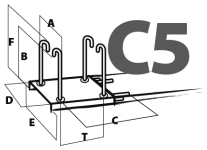


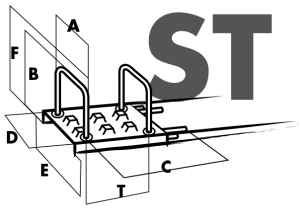

| Largeur de boîte D | | | | | | Ø Acier | | | |
|---|---|---|---|---|---|---|---|---|---|
| mm | | | | | | | | | |
| 55 | 85 | 120 | 150 | 190 | 220 | 8 | 10 | 12 | 14 |

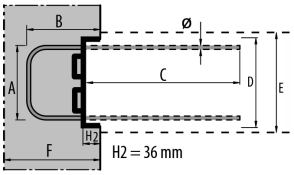
| Modèle | Longueur de l'élément | Ø 8 / 10 mm | | Ø 12 mm | | Ø 14 mm | |
|---|---|---|---|---|---|---|---|
| | m | e15 | e10 | e15 | e10 | e15 | e10 |
| 85 | 1.25 | 51 | 34 | 40 | 26 | 32 | 21 |
| 120 | > 1.85 | 90 | 75 | 80 | 65 | 96 | 64 |
| 150 | > 1.95 | 95 | 80 | 85 | 70 | 96 | 83 |
| 190 - 220 | > 2.05 | 100 | 85 | 90 | 75 | 96 | 83 |
| 120 | 1.25 ou + | 51 | 34 | 40 | 26 | 32 | 21 |
| 150 | 1.25 ou + | 69 | 49 | 58 | 39 | 48 | 32 |
| 190 | 1.25 | 69 | 66 | 53 | 53 | 57 | 44 |
| 190 | > 1.70 | 84 | 66 | 80 | 53 | 66 | 44 |
| 220 | 1.25 | 69 | 66 | 69 | 66 | 57 | 57 |
| 220 | > 1.85 | 99 | 84 | 99 | 68 | 85 | 57 |
| Dimension maximum de l'attente C en cm | | | | | | | |

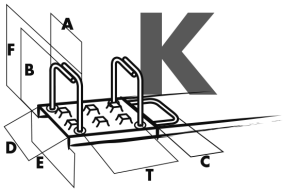
# FERS D'ATTENTE CISA

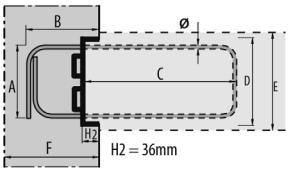


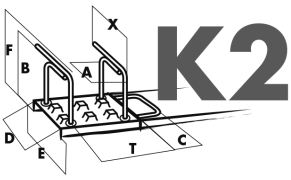
ULMACO

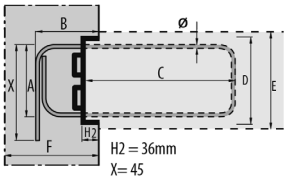



| Programme standard | Désignation | | | Dimension | | | | | | | Poids / ml | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Larg. | Ø Acier | Écart. | A | B | C | D | E | F | T | Tôle et armature | Armature |
| | mm | | cm | | | | | | | | | |
| | S120 | 10 | 15 | 9 | 12 | 50 | 12.2 | 15-16 | 15 | 15 | 7.01 | 5.50 |
| | 120 | 10 | 15 | 9 | 15 | 50 | 12.2 | 15-16 | 20 | 15 | 7.25 | 5.75 |
| | 150 | 10 | 15 | 12 | 15 | 50 | 15.0 | 17-20 | 20 | 15 | 7.63 | 5.86 |
| | 150 | 10 | 15Y | 12 | 20 | 50 | 15.0 | 17-20 | 25 | 15 | 8.04 | 6.27 |
| | 150 | 10 | 15Z | 12 | 25 | 50 | 15.0 | 17-20 | 30 | 15 | 8.45 | 6.68 |
| | 150 | 12 | 15X | 12 | 15 | 60 | 15.0 | 17-20 | 20 | 15 | 11.38 | 9.62 |
| | 150 | 12 | 15Y | 12 | 20 | 60 | 15.0 | 17-20 | 25 | 15 | 11.98 | 10.21 |
| | 150 | 12 | 15Z | 12 | 25 | 60 | 15.0 | 17-20 | 30 | 15 | 12.57 | 10.80 |
| | 190 | 10 | 15 | 16 | 15 | 50 | 18.6 | 21-25 | 20 | 15 | 8.09 | 6.01 |
| | 190 | 10 | 15Y | 16 | 20 | 50 | 18.6 | 21-25 | 25 | 15 | 8.50 | 6.42 |
| | 190 | 10 | 15Z | 16 | 25 | 50 | 18.6 | 21-25 | 30 | 15 | 8.91 | 6.83 |
| | 190 | 12 | 15X | 16 | 15 | 60 | 18.6 | 21-25 | 20 | 15 | 11.91 | 9.83 |
| | 190 | 12 | 15Y | 16 | 20 | 60 | 18.6 | 21-25 | 25 | 15 | 12.50 | 10.43 |
| | 190 | 12 | 15Z | 16 | 25 | 60 | 18.6 | 21-25 | 30 | 15 | 13.09 | 11.02 |
| | 240 | 10 | 15 | 21 | 15 | 50 | 24.0 | ≤ 26 | 20 | 15 | 8.77 | 6.23 |
| | 240 | 10 | 15Y | 21 | 20 | 50 | 24.0 | ≤ 26 | 25 | 15 | 9.18 | 6.64 |
| | 240 | 10 | 15Z | 21 | 25 | 50 | 24.0 | ≤ 26 | 30 | 15 | 9.59 | 7.05 |
| | 240 | 12 | 15X | 21 | 15 | 60 | 24.0 | ≤ 26 | 20 | 15 | 12.69 | 10.15 |
| | 240 | 12 | 15Y | 21 | 20 | 60 | 24.0 | ≤ 26 | 25 | 15 | 13.28 | 10.74 |
| | 240 | 12 | 15Z | 21 | 25 | 60 | 24.0 | ≤ 26 | 30 | 15 | 13.87 | 11.34 |
| | K150 | 10 | 15 | 12 | 15 | 14 | 15.0 | 17-20 | 20 | 15 | 3.87 | 5.63 |
| | K150 | 12 | 15X | 12 | 15 | 14 | 15.0 | 17-20 | 20 | 15 | 5.56 | 7.33 |
| | K150 | 12 | 15Y | 12 | 20 | 14 | 15.0 | 17-20 | 25 | 15 | 6.16 | 7.92 |
| | K150 | 12 | 15Z | 12 | 25 | 18 | 15.0 | 17-20 | 30 | 15 | 7.22 | 8.99 |
| | K190 | 12 | 15X | 16 | 15 | 14 | 19.0 | 21-25 | 20 | 15 | 6.28 | 8.31 |
| | K190 | 12 | 15Y | 16 | 20 | 14 | 19.0 | 21-25 | 25 | 15 | 6.87 | 8.90 |
| | K190 | 12 | 15Z | 16 | 25 | 18 | 19.0 | 21-25 | 30 | 15 | 7.93 | 9.97 |
| | K2150 | 12 | 15X | 12 | 15 | 18 | 15.0 | 17-20 | 20 | 15 | 8.70 | 10.74 |
| | K2150 | 12 | 15Y | 12 | 20 | 18 | 15.0 | 17-20 | 25 | 15 | 9.29 | 11.33 |
| | K2150 | 12 | 15Z | 12 | 25 | 18 | 15.0 | 17-20 | 30 | 15 | 9.89 | 11.92 |
| | K2190 | 10 | 15Y | 16 | 20 | 14 | 19.0 | 21-25 | 25 | 15 | 6.62 | 8.66 |
| | K2190 | 10 | 15Z | 16 | 25 | 14 | 19.0 | 21-25 | 30 | 15 | 7.03 | 9.07 |
| | K2190 | 12 | 15X | 16 | 15 | 14 | 19.0 | 21-25 | 20 | 15 | 8.94 | 10.97 |
| | K2190 | 12 | 15Y | 16 | 20 | 18 | 19.0 | 21-25 | 25 | 15 | 10.00 | 12.04 |
| | K2190 | 12 | 15Z | 16 | 25 | 22 | 19.0 | 21-25 | 30 | 15 | 11.07 | 13.11 |
| | K2240 | 12 | 15Y | 21 | 20 | 22 | 24.0 | ≤ 26 | 25 | 15 | 11.37 | 13.82 |
| | K2240 | 12 | 15Z | 21 | 25 | 22 | 24.0 | ≤ 26 | 30 | 15 | 11.96 | 14.42 |

# ACCESSOIRES DE COFFRAGE

SAMVAZ

## Clavette SAM 1

| Quantité en pièce |
|---|
| Par sac |
| 200 |

## Clavette SAM 2

| Longueur | Quantité en pièce | |
|---|---|---|
| cm | Par paquet | Par palette |
| 50 | 10 | 640 |
| 100 | 10 | 640 |

## Coin d'obturation en plastique

| Quantité en pièce |
|---|
| Par sac |
| 1'000 |

## Extracteur H complet

| Quantité |
|---|
| 1 |

## Extracteur à levier complet

| Quantité |
|---|
| 1 |

# ACCESSOIRES DE COFFRAGE

SAMVAZ

## Griffe pour TD 20

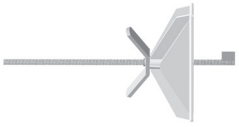
| Quantité en pièce |
|---|
| Par paquet |
| 50 |

## Griffe SAM béton propre

| Longueur | Quantité en pièce |
|---|---|
| cm | Par paquet |
| 15 | 50 |
| 18 | 50 |
| 20 | 50 |
| 25 | 50 |
| 30 | 50 |
| 40 | 50 |

## Griffe SAM normale

| Longueur | Quantité en pièce |
|---|---|
| cm | Par paquet |
| 15 | 100 |
| 18 | 100 |
| 20 | 100 |
| 25 | 100 |
| 30 | 100 |
| 40 | 100 |

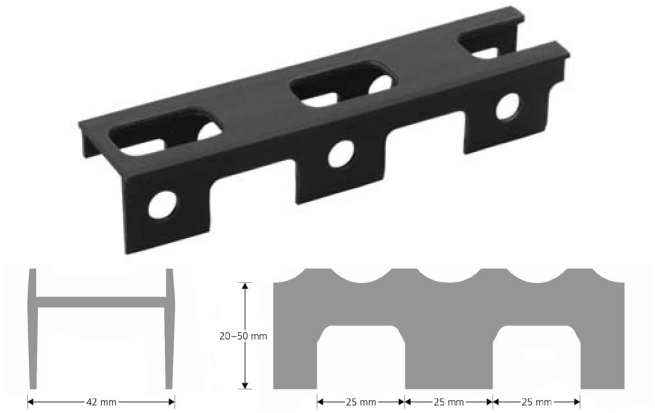


## TD 20 complet

| Quantité en pièce |
|---|
| Par paquet |
| 10 |

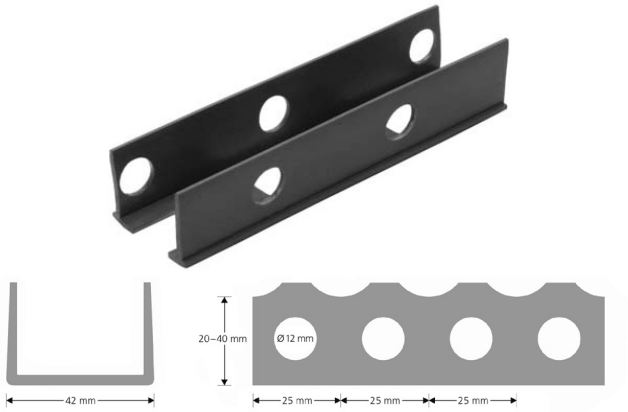
# ACCESSOIRES DE COFFRAGE

## Distanceurs d'armature



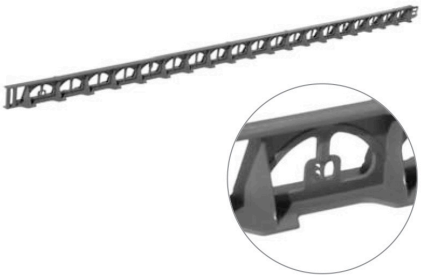

### Drunterfix
Longueur: 2 m

| Hauteur | Longueur en m | |
|---|---|---|
| mm | Par paquet | Par palette |
| 20 | 100 | 6’300 |
| 25 | 100 | 4’900 |
| 30 | 100 | 3’600 |
| 35 | 60 | 2’880 |
| 40 | 60 | 2’400 |
| 50 | 60 | 1’680 |



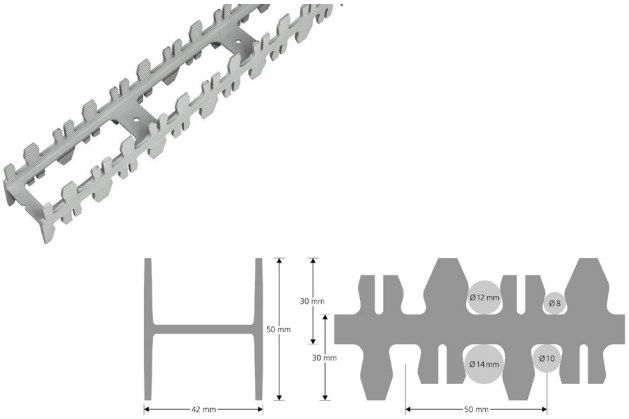

### Drunterfix ISO
Longueur: 2 m

| Hauteur | Longueur en m | |
|---|---|---|
| mm | Par paquet | Par palette |
| 20 | 100 | 4’200 |
| 25 | 100 | 3’000 |



### ISO-FIX
Longueur: 2 m

| Hauteur | Longueur en m | |
|---|---|---|
| mm | Par paquet | Par palette |
| 30 | 100 | 3’600 |
| 35 | 60 | |
| 40 | 60 | |




### Ferrofix Wand

| Hauteur | Longueur en m | |
|---|---|---|
| mm | Par paquet | Par palette |
| 30 | 50 | 1’250 |

# ACCESSOIRES DE COFFRAGE

## Tubes distanceurs

### Tube distanceur monté avec cônes bleus 22 × 26

| Longueur | Longueur en m | |
|---|---|---|
| cm | Par paquet | Par palette |
| 12 | 100 | 5'000 |
| 15 | 100 | 5'000 |
| 17 | 100 | 5'000 |
| 18 | 100 | 5'000 |
| 20 | 100 | 4'000 |
| 22 | 100 | 4'000 |
| 24 | 100 | 4'000 |
| 25 | 100 | 4'000 |
| 30 | 100 | 4'000 |
| 35 | 75 | 3'000 |
| 36 | 75 | 3'000 |
| 40 | 75 | 3'000 |
| 45 | 50 | 2'000 |
| 50 | 50 | 2'000 |

### Tube distanceur monté avec cônes 26 × 30

| Longueur | Longueur en m | |
|---|---|---|
| cm | Par paquet | Par palette |
| 18 | 100 | 4'000 |
| 20 | 100 | 4'000 |
| 25 | 100 | 4'000 |
| 30 | 100 | 4'000 |

### Tube distanceur PVC

| Ø Intérieur | Ø Extérieur | Longueur en m | |
|---|---|---|---|
| mm | | Par paquet | Par palette |
| 22 | 26 | 100 | 3'000 |
| 26 | 32 | 50 | 1'800 |
| 32 | 36 | 30 | 1'260 |

# ACCESSOIRES DE COFFRAGE

## Bouchon de fermeture

| Ø | Quantité en pièce |
|---|---|
| mm | Par sachet |
| 22 | 1'000 |
| 26 | 1'000 |
| 30 | 500 |
| 32 | 500 |

## Bouchon de fermeture large

| Ø | Quantité en pièce |
|---|---|
| mm | Par sachet |
| 22 | 500 |

## Bouchon FLUPP

| Ø | Quantité en pièce |
|---|---|
| mm | Par sachet |
| 22 | 500 |
| 26 | 250 |
| 32 | 125 |

## Bouchon OPTI

| Ø | Quantité en pièce |
|---|---|
| mm | Par sachet |
| 22/26 | 500 |

## Butée de coffrage

| Ø | Hauteur | Quantité en pièce |
|---|---|---|
| mm | | Par sachet |
| 48 | 30 | 100 |

## Cale ronde

| Épaisseur du béton | Quantité en pièce | | |
|---|---|---|---|
| mm | Par sachet | Par sac | Par palette |
| 20 | 500 | 5'000 | 100'000 |
| 25 | 500 | 4'000 | 48'000 |
| 30 | 500 | 2'500 | 35'000 |
| 35 | 200 | 1'000 | 20'000 |
| 40 | 125 | 1'000 | 20'000 |
| 50 | 100 | 500 | 10'000 |

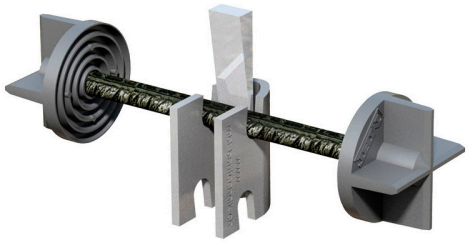
# ACCESSOIRES DE COFFRAGE

## Cape SAFETYFIX

| Ø fer | Quantité en pièce | |
|---|---|---|
| mm | Par sac | Par palette |
| 8 - 16 | 500 | 50'000 |
| 16 - 30 | 250 | 20'000 |
| 25 - 40 | 100 | 5'000 |

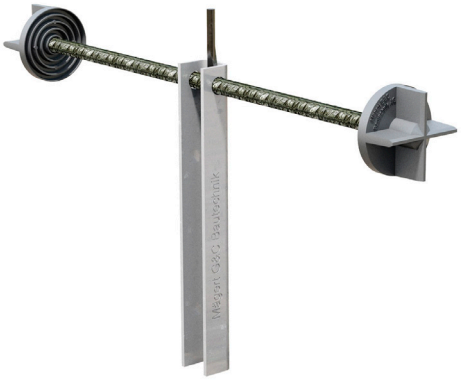
## Capuchon

| Ø | Enrobage | Surface | Quantité en pièce | | |
|---|---|---|---|---|---|
| mm | | | Par sachet | Par sac | Par palette |
| 22 | 10 | 39 | 500 | 3'000 | 60'000 |
| 26 | 10 | 48 | 500 | | 25'000 |
| 32 | 10 | 48 | 500 | | 25'000 |



## Distanceur de coffrage UNO

| Longueur | Quantité en pièce | |
|---|---|---|
| mm | Par carton | Par palette |
| 7.5 | 250 | 4'500 |
| 10 | 50 | 2'500 |
| 12 | 50 | 2'500 |
| 15 | 50 | 2'500 |
| 18 | 50 | 2'500 |
| 20 | 50 | 2'500 |
| 22 | 50 | 2'500 |
| 24 | 50 | 2'500 |
| 25 | 50 | 2'500 |
| 30 | 50 | 2'500 |
| 35 | 50 | 2'500 |
| 40 | 50 | 1'600 |
| 45 | 50 | 1'600 |
| 50 | 50 | 1'600 |

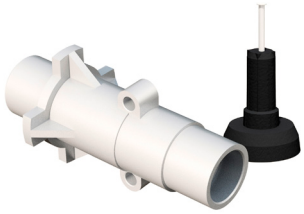


## Distanceur de coffrage AHB

| Longueur | Quantité en pièce | |
|---|---|---|
| mm | Par carton | Par palette |
| 10 | 25 | 1'500 |
| 12 | 25 | 1'500 |
| 15 | 25 | 1'500 |
| 18 | 25 | 1'500 |
| 20 | 25 | 1'500 |
| 25 | 25 | 1'000 |
| 30 | 25 | 1'000 |
| 35 | 25 | 1'000 |
| 40 | 25 | 1'000 |
| 45 | 25 | 1'000 |
| 50 | 25 | 1'000 |

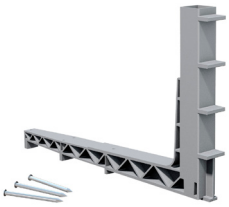
# ACCESSOIRES DE COFFRAGE





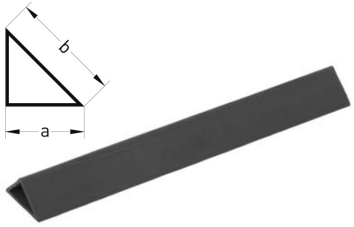
## Douille d'ancrage UNO

| Ø | Charge critique | Quantité en pièce | |
|---|---|---|---|
| mm | kN | Par bidon | Par palette |
| 15 | 70 | 200 | 3'600 |



## Équerre POLYFIX en plastique

| Épaisseur dalle | Longueur | Hauteur | Quantité en pièce | |
|---|---|---|---|---|
| cm | | | Par paquet | Par palette |
| 16 - 25 | 40 | 25 | 20 | 1'200 |

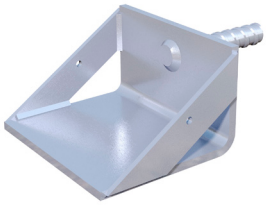



## Liste triangulaire creux en PVC

| Longueur en mm | | Quantité en pièce | |
|---|---|---|---|
| a | b | Par paquet | Par palette |
| 10 | 15 | 100 | 6'500 |
| 15 | 21 | 100 | 5'400 |
| 20 | 28 | 100 | 4'900 |

## Profil goutte pendante

| Largeur | Longueur | Quantité en m | |
|---|---|---|---|
| mm | cm | Par paquet | Par palette |
| 12 | 25 | 100 | 5'600 |



## Sabot pour pont d'ascenseur

| Longueur | Largeur | Quantité |
|---|---|---|
| mm | | |
| 8 | 12 | 12 |
| 12 | 16 | 8 |

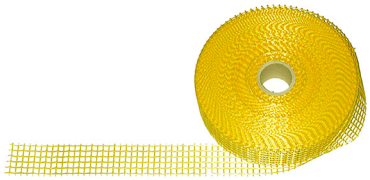
## Ancre de roche zingué

| Ø | Forage | Quantité en pièce |
|---|---|---|
| mm | mm | Par paquet |
| 15 | 32 | 50 |

# ACCESSOIRES DE COFFRAGE

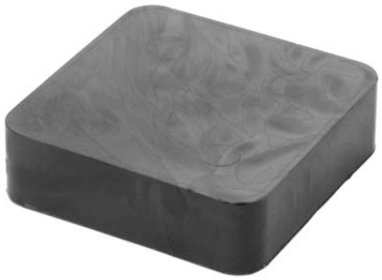
## Taquets CONSTRI

| Taille | Ø fer | Quantité en pièce | |
|---|---|---|---|
| mm | | Par sac | Par palette |
| 15 | 4 - 16 | 1'000 | |
| 20 | 4 - 16 | 1'000 | 18'000 |
| 25 | 4 - 18 | 500 | 14'000 |
| 30 | 4 - 18 | 500 | 12'000 |
| 35 | 4 - 18 | 250 | |
| 40 | 4 - 18 | 250 | |
| 50 | 6 - 18 | 200 | |
| Disponible en noir et en blanc sur demande | | | |



## Wall-Grip type A1

| Largeur | Mailles | Poids | Unité d'emballage |
|---|---|---|---|
| mm | | g | m |
| 8.5 | 12 × 20 | 40 | 100 |

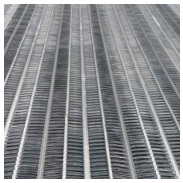


## Cale plastique

| Épaisseur | Dimension | Quantité en pièce | |
|---|---|---|---|
| mm | mm | Par paquet | Par palette |
| 2 | 70 × 70 | 1'000 | 40'000 |
| 3 | | 1'000 | 40'000 |
| 5 | | 500 | 20'000 |
| 10 | | 250 | 10'000 |

## Treillis de chape 50 × 50 × 2 mm

| Dimension | Quantité en pièce | |
|---|---|---|
| mm | Par paquet | Par palette |
| 1'000 × 2'000 | 20 | 500 |



## Métal déployé 0.3

| Dimension | Quantité en pièce | |
|---|---|---|
| mm | Par paquet | Par palette |
| 2'500 × 600 | 20 | 340 |

# ACCESSOIRES DE COFFRAGE



## Goujons

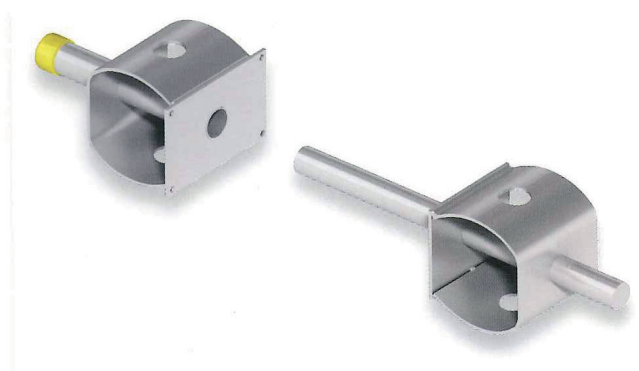
Ancon A CRH COMPANY

### Goujon simple ED 1.4362

| Type | Ø | Longueur |
|---|---|---|
| | mm | |
| ED 10/300 | 20 | 300 |
| ED 10/350 | 20 | 350 |
| ED 10/400 | 20 | 400 |
| ED 10/500 | 20 | 500 |
| ED 10/600 | 20 | 600 |
| ED 15/300 | 22 | 300 |
| ED 15/350 | 22 | 350 |
| ED 15/400 | 22 | 400 |
| ED 15/500 | 22 | 500 |
| ED 18/300 | 25 | 300 |
| ED 18/350 | 25 | 350 |
| ED 18/400 | 25 | 400 |
| ED 18/500 | 25 | 500 |
| ED 20/300 | 30 | 300 |
| ED 20/350 | 30 | 350 |
| ED 20/400 | 30 | 400 |
| ED 20/450 | 30 | 500 |
| ED 25/350 | 35 | 350 |
| ED 25/400 | 35 | 400 |
| ED 25/470 | 35 | 470 |

### Goujon simple ED TRESI

| Type | Ø | Longueur |
|---|---|---|
| | mm | |
| TRESI 10/300 | 20 | 300 |
| TRESI 10/400 | 20 | 400 |

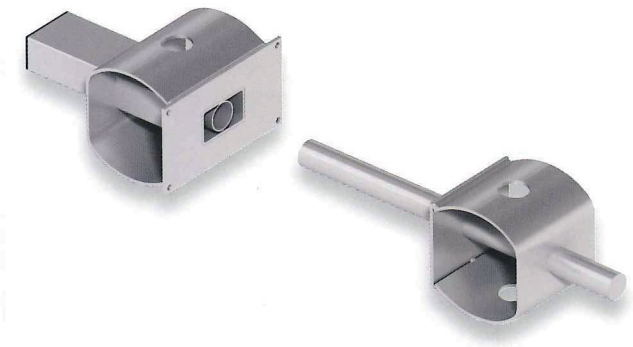


### Goujon HLD

| Type | Ø | Longueur |
|---|---|---|
| | mm | |
| HLD | 18 | 270 |
| HLD | 22 | 310 |
| HLD | 24 | 330 |
| HLD | 30 | 365 |
| HLD | 35 | 420 |
| HLD | 42 | 470 |
| HLD | 52 | 570 |

# ACCESSOIRES DE COFFRAGE

## Goujons & gaines



### HLDQ

| Type | Ø | Longueur |
|---|---|---|
| | mm | |
| HLDQ | 18 | 270 |
| HLDQ | 22 | 310 |
| HLDQ | 24 | 330 |
| HLDQ | 30 | 365 |
| HLDQ | 35 | 420 |
| HLDQ | 42 | 470 |
| HLDQ | 52 | 570 |

### Gaine plastique

| Type | Ø | Longueur |
|---|---|---|
| | mm | |
| ED 10/300 | 20 | 170 |
| ED 10/350 | 20 | 195 |
| ED 10/400 | 20 | 220 |
| ED 10/500 | 20 | 270 |
| ED 10/600 | 20 | 320 |
| ED 15/300 | 22 | 170 |
| ED 15/350 | 22 | 195 |
| ED 15/400 | 22 | 220 |
| ED 15/500 | 22 | 270 |
| ED 18/300 | 25 | 170 |
| ED 18/350 | 25 | 195 |
| ED 18/400 | 25 | 220 |
| ED 18/500 | 25 | 270 |
| ED 20/300 | 30 | 170 |
| ED 20/350 | 30 | 195 |
| ED 20/400 | 30 | 220 |
| ED 20/450 | 30 | 270 |
| ED 25/350 | 35 | 195 |
| ED 25/400 | 35 | 220 |
| ED 25/470 | 35 | 260 |

# ACCESSOIRES DE COFFRAGE

## Gaines

Ancon
A CRH COMPANY

### Gaine ESD

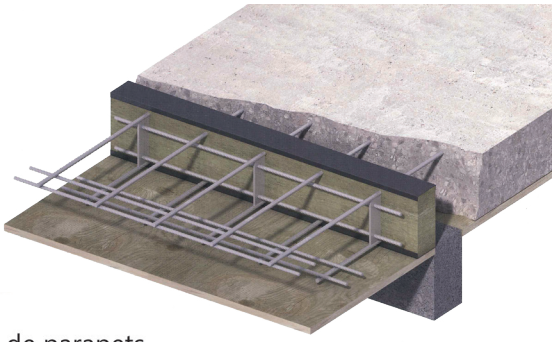
| Type | Ø | Longueur |
|---|---|---|
| | mm | |
| ESD 10/300 | 20 | 170 |
| ESD 10/350 | 20 | 195 |
| ESD 10/400 | 20 | 220 |
| ESD 10/500 | 20 | 270 |
| ESD 10/600 | 20 | 320 |
| ESD 15/300 | 22 | 170 |
| ESD 15/350 | 22 | 195 |
| ESD 15/400 | 22 | 220 |
| ESD 15/500 | 22 | 270 |
| ESD 18/300 | 25 | 170 |
| ESD 18/350 | 25 | 195 |
| ESD 18/400 | 25 | 220 |
| ESD 18/500 | 25 | 270 |
| ESD 20/300 | 30 | 170 |
| ESD 20/350 | 30 | 195 |
| ESD 20/400 | 30 | 220 |
| ESD 20/450 | 30 | 270 |
| ESD 25/350 | 35 | 195 |
| ESD 25/400 | 35 | 220 |
| ESD 25/470 | 35 | 260 |

### Gaine ESDQ

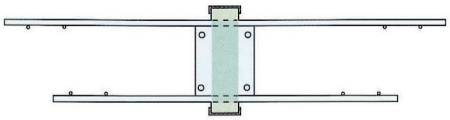
| Type | Ø | Longueur |
|---|---|---|
| | mm | |
| ESDQ 10/300 | 20 | 170 |
| ESDQ 10/350 | 20 | 195 |
| ESDQ 10/400 | 20 | 220 |
| ESDQ 10/500 | 20 | 270 |
| ESDQ 10/600 | 20 | 320 |
| ESDQ 15/300 | 22 | 170 |
| ESDQ 15/350 | 22 | 195 |
| ESDQ 15/400 | 22 | 220 |
| ESDQ 15/500 | 22 | 270 |
| ESDQ 18/300 | 25 | 170 |
| ESDQ 18/350 | 25 | 195 |
| ESDQ 18/400 | 25 | 220 |
| ESDQ 18/500 | 25 | 270 |
| ESDQ 20/300 | 30 | 170 |
| ESDQ 20/350 | 30 | 195 |
| ESDQ 20/400 | 30 | 220 |
| ESDQ 20/450 | 30 | 270 |
| ESDQ 25/350 | 35 | 195 |
| ESDQ 25/400 | 35 | 220 |
| ESDQ 25/470 | 35 | 260 |

# CONSOLES ISOLANTES

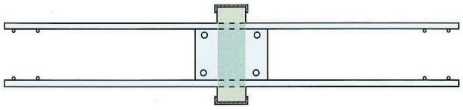
## Ancon-ISO



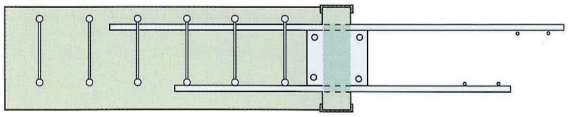
Série K
Consoles de flexion



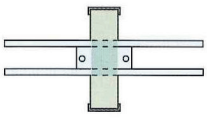
Série M
Consoles de flexion pour moment positifs et négatifs



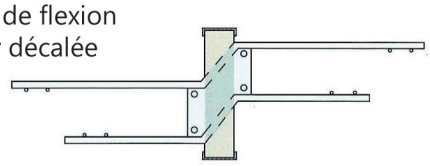
Série E
Éléments d'angle



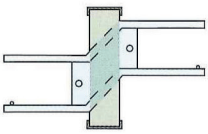
Série Q
Éléments d'effort tranchant



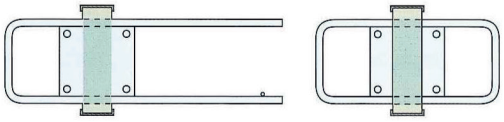
Série KV
Consoles de flexion à hauteur décalée



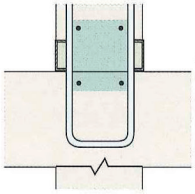
Série QV
Éléments d'efforttranchant à hauteur décalée



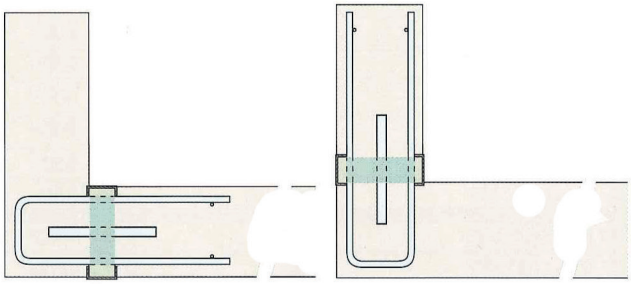
Série U / O
Éléments de liaison dalle-mur



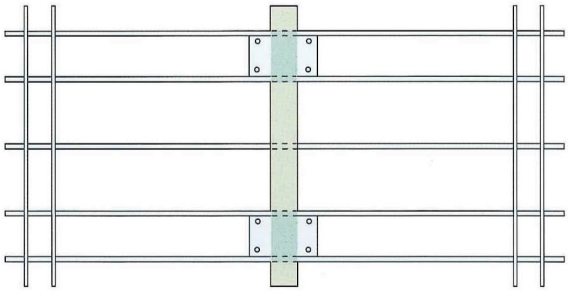
Série W
Éléments de pied de mur

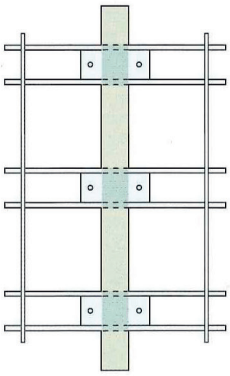


Série K
Éléments de parapets

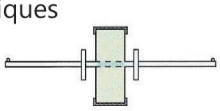


Série WN / WQ
Éléments mur-mur





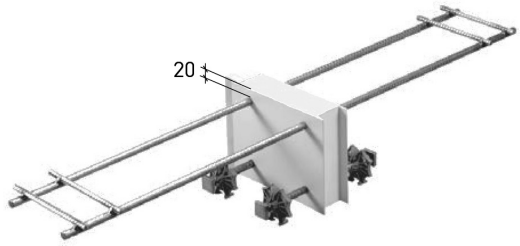
Série S / SMI
Éléments parasismiques



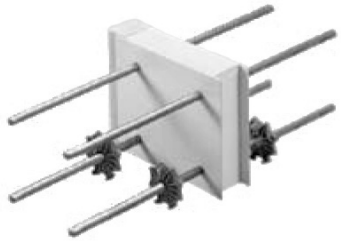
# CONSOLES ISOLANTES

## Arbo

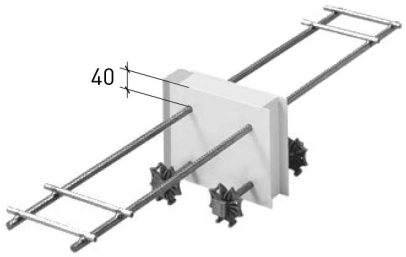
ARBO-400



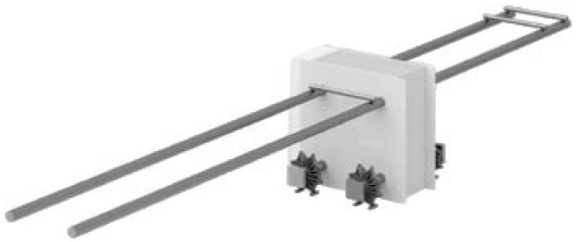

ARBO-400C



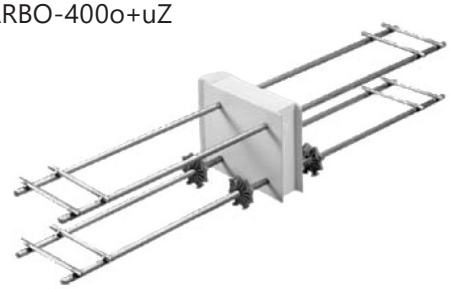
ARBO-400E



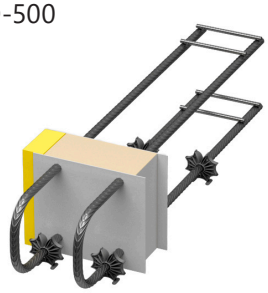

ARBO-400ED



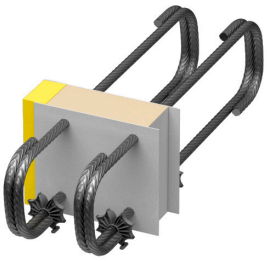
ARBO-400o+uZ



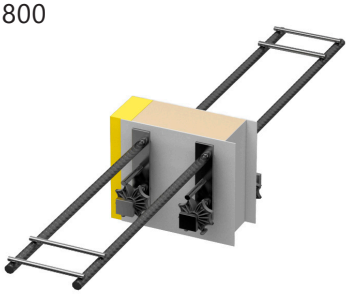
ARBO-500



ARBO-600



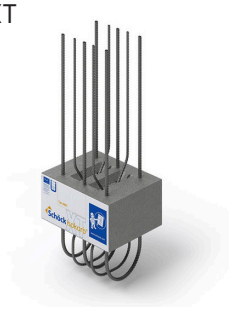
ARBO-800



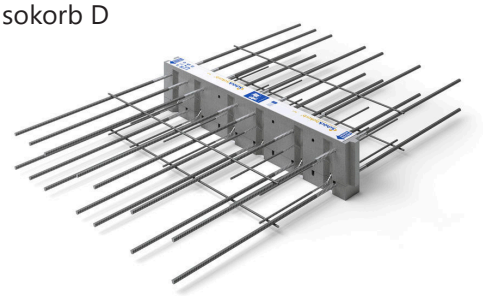
# CONSOLES ISOLANTES

## Isokorb

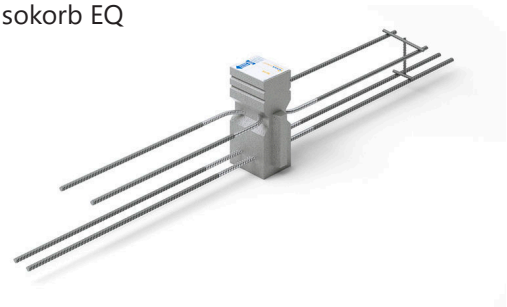
Isokorb ABXT



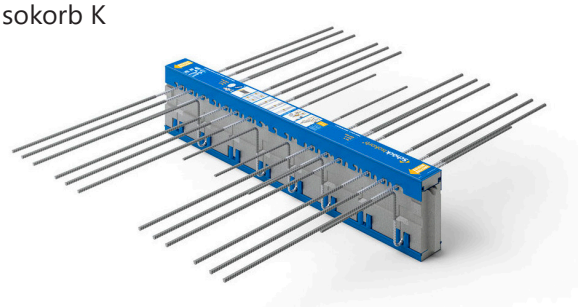
Isokorb D



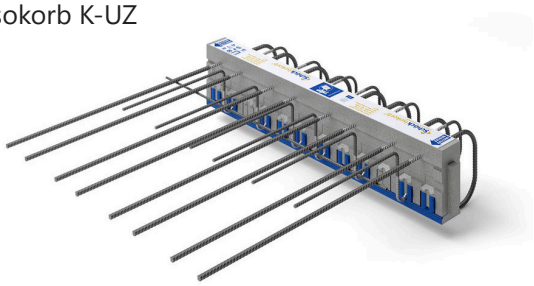
Isokorb EQ



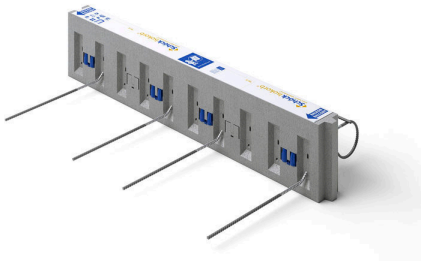
Isokorb K



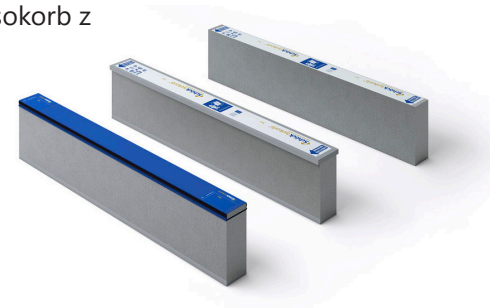
Isokorb K-UZ



Isokorb Q

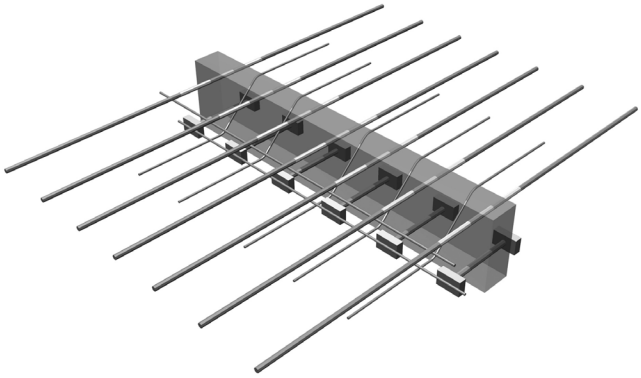


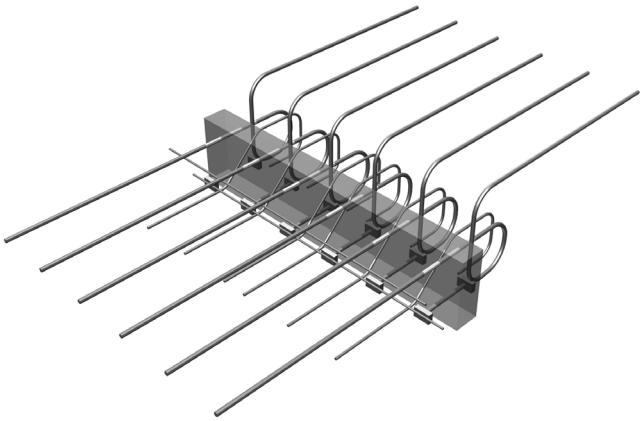
Isokorb z

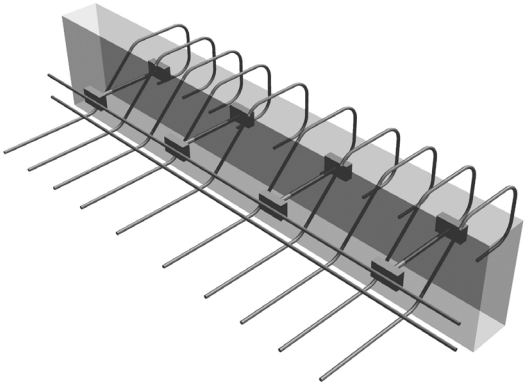


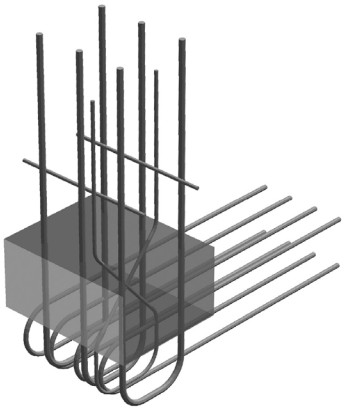
# CONSOLES ISOLANTES

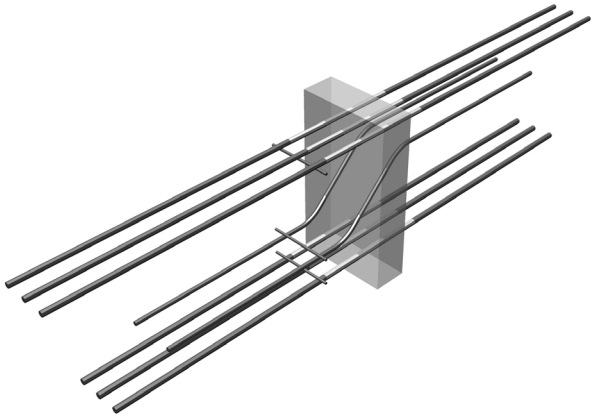
## Egcobox

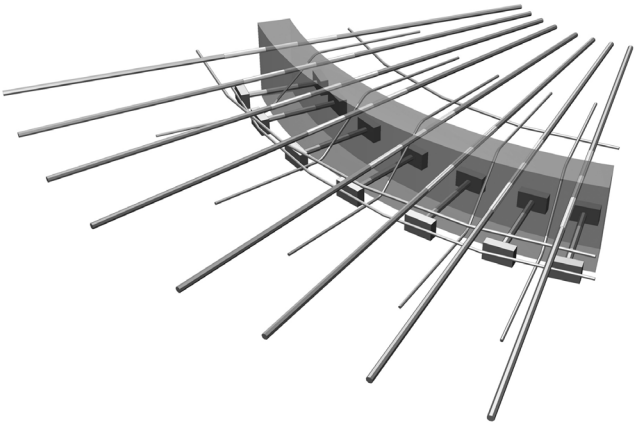








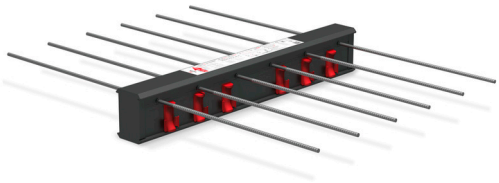




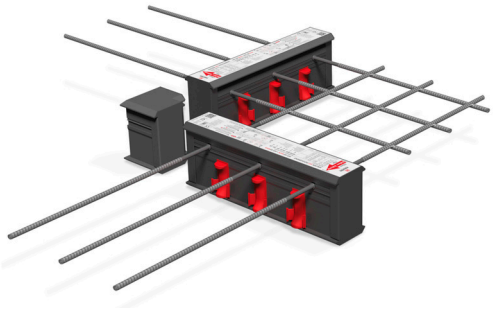
# CONSOLES ISOLANTES

## HIT

HIT MVX



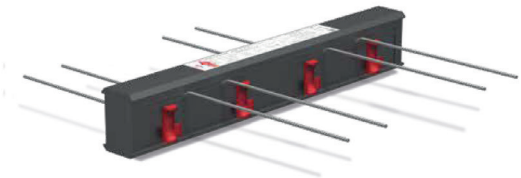
HIT MVX COR



HIT MVX OU

HIT MVX OD

HIT HP ZVX



HIT HP DD

HIT HP DVL

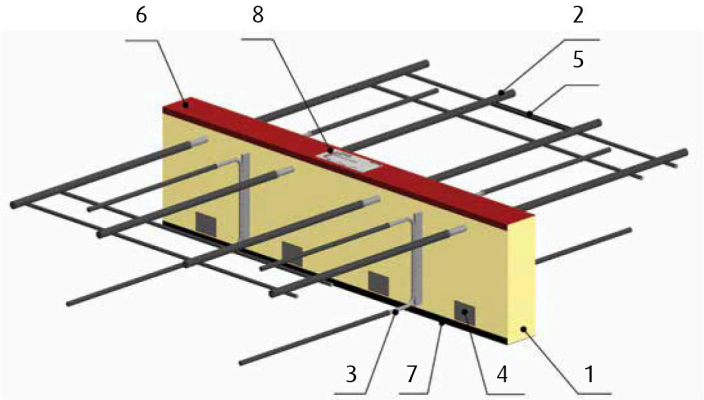
HIT HP DDL

# CONSOLES ISOLANTES

## EBEA KP

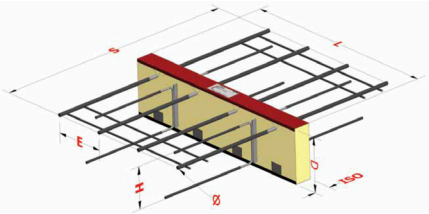
ebea
Kompetenz für Technik am Bau

### Structure




| | Composants | | Matériaux |
|---|---|---|---|
| 1 | **Corps isolant (ISO)** | | SW / XPS / (FG) / (PUR) |
| 2 | **Barre de traction** | | Acier d'armature 1.4362 / B500B |
| 3 | **Elément de poussée** | **Plaque** | Acier de construction 1.4362 |
| | | **Etrier** | Acier d'armature 1.4362 / B500B |
| 4 | **Tampon de pression BFUP** | | Béton fibré à ultra-haute performance |
| 5 | **Barre transversale** | | Acier B500B |
| 6 | **Recouvrement rouge** | | PVC |
| 7 | **Recouvrement noir** | | PVC |
| 8 | **Etiquette** | | Film autocollant |

KP-100



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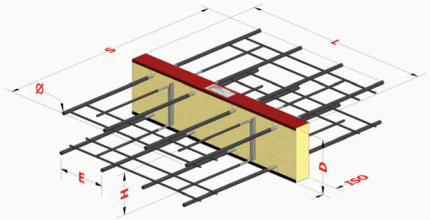

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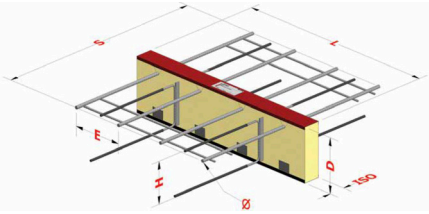

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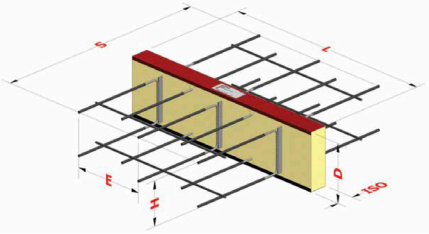

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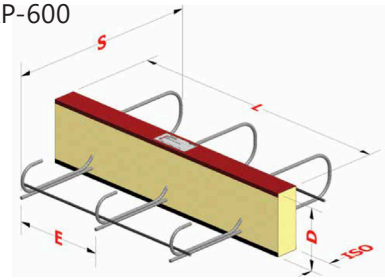
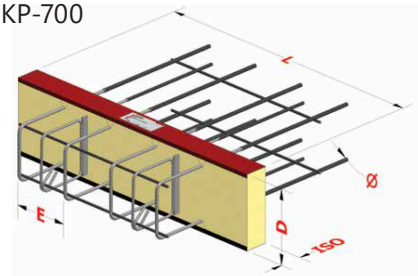


KP-700



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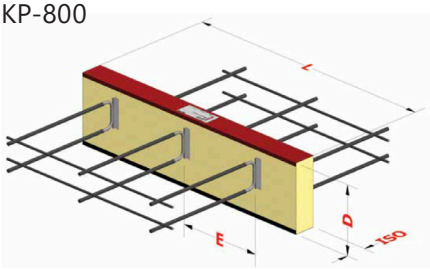
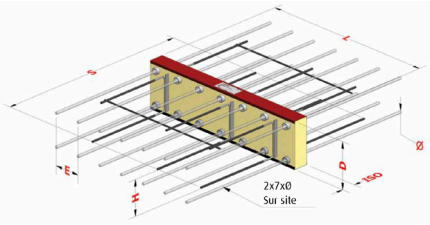


KP-900

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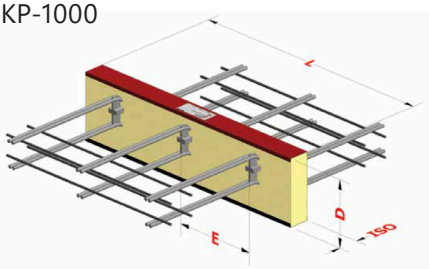

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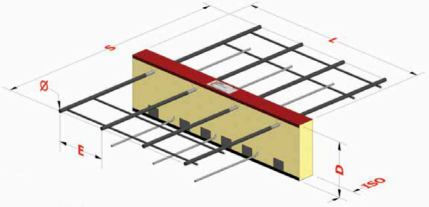

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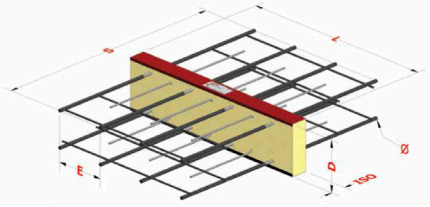
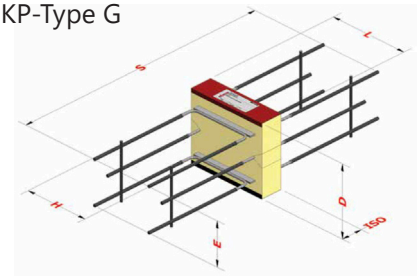
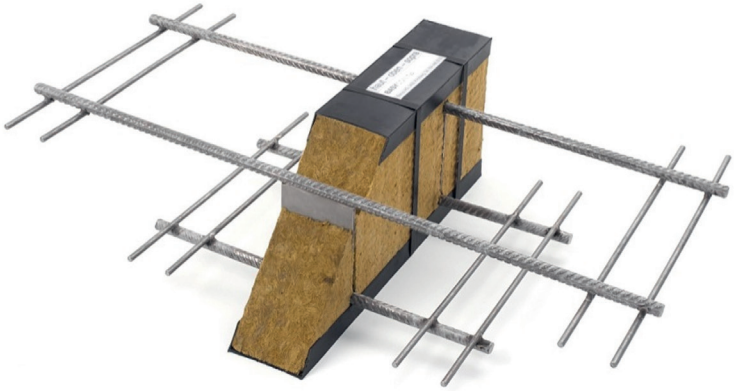


KP-Type G



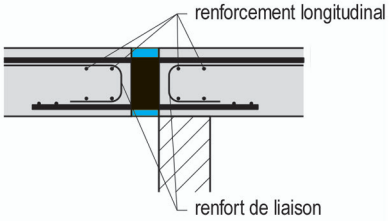
# CONSOLES ISOLANTES

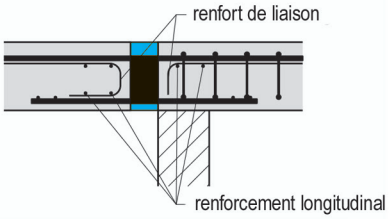
Basycon



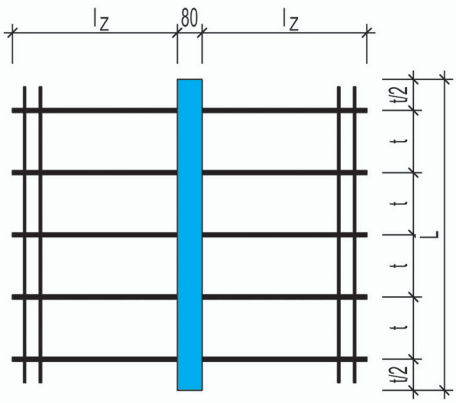
## Dimension

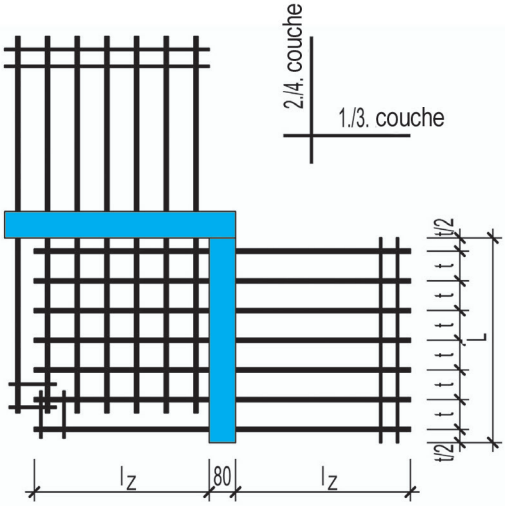
| Type | Longueur de l'élément [m] | Largeur de l'isolation [mm] | Couvercles o [mm] | Couvercles u [mm] | Distances a [mm] | Distances b [mm] | Armature de raccordement à prévoir par le client [mm] |
|---|---|---|---|---|---|---|---|
| **Armature pour dalle en porte-à-faux** (spécificité par élément) | | | | | | | crochet de bout |
| KXS | 1.0 | 80 | 30 | 27 | 290 | 170 | Ø 10 / 200 |
| KS | 1.0 | 80 | 30 | 23 | 370 | 220 | Ø 12 / 200 |
| KM | 1.0 | 80 | 30 | 21 | 440 | 220 | Ø 12 / 150 |
| KL | 1.0 | 80 | 30 | 21 | 440 | 220 | Ø 12 / 150 |
| KXL | 1.0 | 80 | 30 | 21 | 440 | 220 | Ø 12 / 125 |
| K2XL | 1.0 | 80 | 30 | 21 | 440 | 220 | Ø 12 / 100 |
| K3XL | 1.0 | 80 | 30 | 21 | 440 | 220 | Ø 14 / 125 |
| K4XL | 1.0 | 80 | 30 | 21 | 440 | 220 | Ø 14 / 100 |
| **Éléments d'angle** (spécificité par côté) | | | | | | | crochet de coin |
| KSE | 2 x 0.52 | 80 | 30 | 29 | 440 | 220 | 6 Ø 12 |
| KME | 2 x 0.62 | 80 | 30 | 29 | 440 | 220 | 8 Ø 12 |
| KLE | 2 x 0.62 | 80 | 30 | 23 | 520 | 270 | 8 Ø 14 |



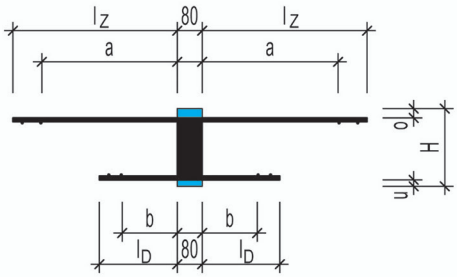



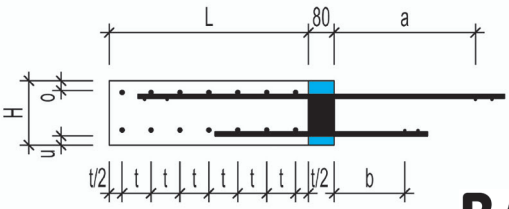

## Plans des étages




## Coupe

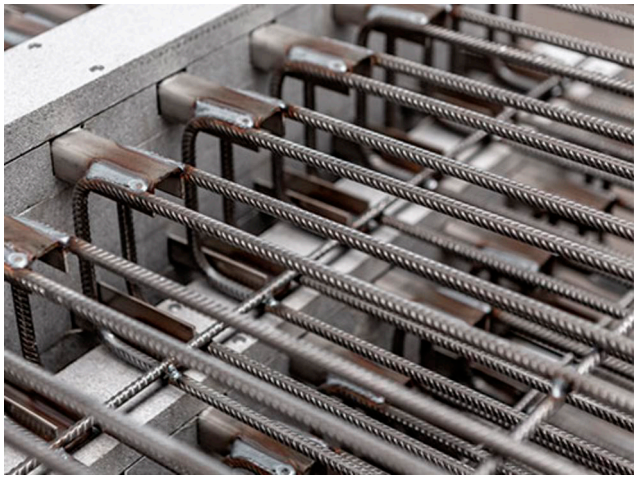


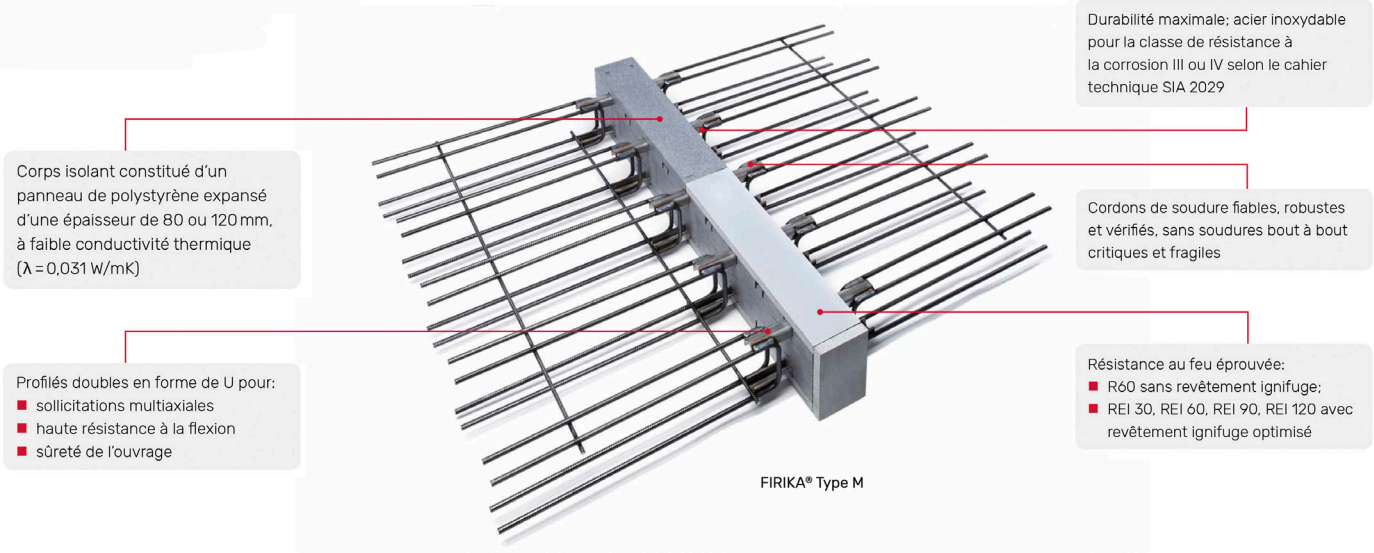




BASYS

# CONSOLES ISOLANTES

## FIRIKA






## Système de désignation

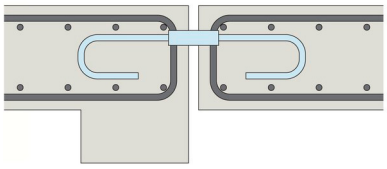
FIRIKA® V02 – 11.16.08.020 – REI120

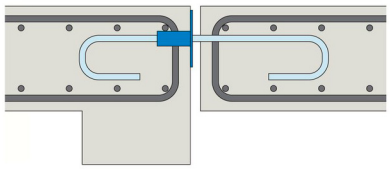
| Variante d'exécution | Nombre d'étriers de support TBA | Hauteur de l'étrier de support RH (cm) | Hauteur du corps isolant H (cm) H≥RH+5cm | Largeur du corps isolant B (cm) | Longueur de l'élément L (cm) | Classe de réaction au feu |
|---|---|---|---|---|---|---|
| **M** reprise des moments<br>**MG** reprise des moments, étrier fermé<br>**MX** reprise des moments, sur mesure<br>**MN** reprise des moments, moments négatifs | 01÷10 | 11, 13, 15, 17, 19 | 16÷50 (pas de 1cm) | 08, 12 | 100 (Standard)<br>010÷090 (exécution compacte ; pas de 10cm) | R60<br>REI 30, 60, 90, 120 |
| **MW** reprise des moments, exécution murale | 02 | 11 | 16÷50 (pas de 1cm) | 08, 12 | 030 | R60<br>REI 30, 60, 90, 120 |
| **V** reprise des efforts tranchants | 01÷10 | 11 | 16÷50 (pas de 1cm) | 08, 12 | 100 (Standard)<br>010÷090 (exécution compacte ; pas de 10cm) | R60<br>REI 30, 60, 90, 120 |
| **F** libre, élément isolant intermédiaire | – | – | 16÷50 (pas de 1cm) | 08, 12 | 100 (Standard)<br>010÷090 (exécution compacte ; pas de 10cm) | –<br>EI 30, 60, 90, 120 |

# TIRANTS D'ANCRAGE

Armatures en aciers inoxydables & ancrages de traction

## Armatures en aciers inoxydables



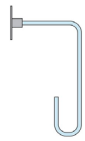


ANCRA-Z AS

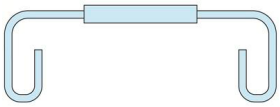
ANCRA-Z BS

ANCRA-Z ZA

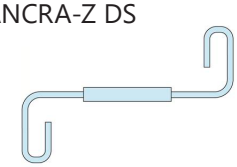
ANCRA-Z ZC



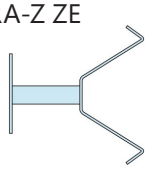
ANCRA-Z CS



ANCRA-Z DS



ANCRA-Z ZE



ANCRA-Z ZF

ANCRA-Z ES

ANCRA-Z FS



ANCRA-Z ZFS

ANCRA-Z ZH



ANCRA-Z ZHS



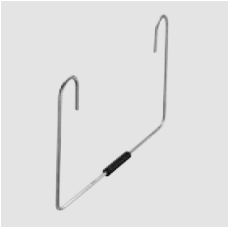
ANCRA-Z ZI

## Ancrages de traction, de compression non vissés

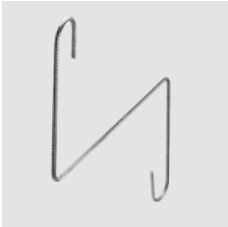
RIBA-A

RIBA-BV

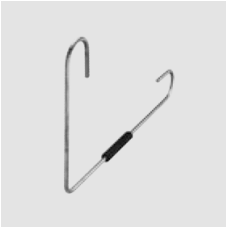
RIBA-CV



RIBA-D



RIBA-EV



RIBA-F

RIBA-GV

RIBA-H

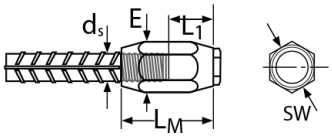
RIBA-IV

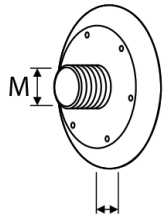
# COUPLEURS



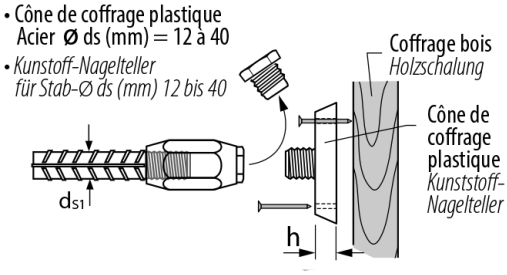
## HBS-M, HBS-TE & HBS-R

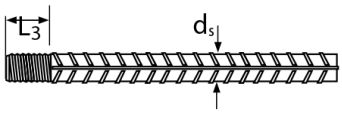
ULMACO

| Raccord standard | Désignation | | Dimensions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Type | Ø Acier | Filetage | | L 1 | L M | SW | E |
| | | mm | | | mm | | | |
|  | HBS-M | 12 | ISO | M 12 × 1.75 | 16 | 36 | 19 | 21.9 |
| | HBS-M | 14 | ISO | M 14 × 2.00 | 19 | 42 | 22 | 25.4 |
| | HBS-M | 16 | ISO | M 16 × 2.00 | 22 | 48 | 24 | 27.7 |
| | HBS-M | 18 | ISO | M 18 × 2.50 | 26 | 56 | 27 | 31.2 |
| | HBS-M | 20 | ISO | M 20 × 2.50 | 28 | 60 | 30 | 34.6 |
| | HBS-M | 22 | ISO | M 22 × 2.50 | 31 | 68 | 32 | 37.0 |
| | HBS-M | 26 | ISO | M 27 × 3.00 | 33 | 75 | 41 | 47.3 |
| | HBS-M | 30 | ISO | M 30 × 3.50 | 43 | 90 | 46 | 53.1 |
| | HBS-M | 34 | Spécial | M 34 × 3.00 | 50 | 105 | 50 | 57.7 |
| | HBS-M | 40 | Spécial | M 40 × 4.00 | 60 | 130 | 60 | 69.3 |

| Fixation sur coffrage | Désignation | |
|---|---|---|
| | Type | Ø Acier |
| | | mm |
|  | HBS-TE | 12 |
| | HBS-TE | 14 |
| | HBS-TE | 16 |
| | HBS-TE | 18 |
| | HBS-TE | 20 |
| | HBS-TE | 22 |
| | HBS-TE | 26 |
| | HBS-TE | 30 |
| | HBS-TE | 34 |
| | HBS-TE | 40 |

h=10 mm



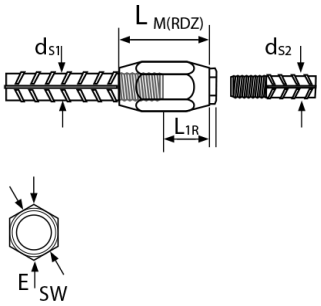

| Filetage standard | Désignation | | Dimensions | | |
|---|---|---|---|---|---|
| | Type | Ø Acier | Filetage | | L 3 |
| | | mm | | | mm |
|  | HBS-R | 12 | ISO | M 12 × 1.75 | 16 |
| | HBS-R | 14 | ISO | M 14 × 2.00 | 19 |
| | HBS-R | 16 | ISO | M 16 × 2.00 | 22 |
| | HBS-R | 18 | ISO | M 18 × 2.50 | 26 |
| | HBS-R | 20 | ISO | M 20 × 2.50 | 28 |
| | HBS-R | 22 | ISO | M 22 × 2.50 | 31 |
| | HBS-R | 26 | ISO | M 27 × 3.00 | 33 |
| | HBS-R | 30 | ISO | M 30 × 3.50 | 43 |
| | HBS-R | 34 | Spécial | M 34 × 3.00 | 50 |
| | HBS-R | 40 | Spécial | M 40 × 4.00 | 60 |

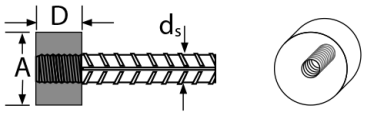
# COUPLEURS



## HBS-RDZ & HBS-SEA

ULMACO

| Raccord de réduction | Désignation | | Dimensions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Type | Ø Acier | Filetage | | L 1R | L M(RDZ) | SW | E |
| | | mm | | | mm | | | |
|  | HBS-RDZ | 16/12 | M 16 × 2.00 | M 12 × 1.75 | 23 | 48 | 24 | 27.7 |
| | HBS-RDZ | 16/14 | M 16 × 2.00 | M 14 × 2.00 | 23 | 48 | 24 | 27.7 |
| | HBS-RDZ | 18/14 | M 18 × 2.50 | M 14 × 2.00 | 27 | 56 | 27 | 31.2 |
| | HBS-RDZ | 18/16 | M 18 × 2.50 | M 16 × 2.00 | 27 | 56 | 27 | 31.2 |
| | HBS-RDZ | 20/16 | M 20 × 2.50 | M 16 × 2.00 | 29 | 60 | 30 | 34.6 |
| | HBS-RDZ | 20/18 | M 20 × 2.50 | M 18 × 2.50 | 29 | 60 | 30 | 34.6 |
| | HBS-RDZ | 22/18 | M 22 × 2.50 | M 18 × 2.50 | 34 | 68 | 32 | 37.0 |
| | HBS-RDZ | 22/20 | M 22 × 2.50 | M 20 × 2.50 | 34 | 68 | 32 | 37.0 |
| | HBS-RDZ | 26/20 | M 27 × 3.00 | M 20 × 2.50 | 39 | 75 | 41 | 47.3 |
| | HBS-RDZ | 26/22 | M 27 × 3.00 | M 22 × 2.50 | 39 | 75 | 41 | 47.3 |
| | HBS-RDZ | 30/22 | M 30 × 3.50 | M 22 × 2.50 | 44 | 90 | 46 | 53.1 |
| | HBS-RDZ | 30/26 | M 30 × 3.50 | M 27 × 3.00 | 44 | 90 | 46 | 53.1 |
| | HBS-RDZ | 34/26 | M 34 × 3.00 | M 27 × 3.00 | 52 | 105 | 50 | 57.7 |
| | HBS-RDZ | 34/30 | M 34 × 3.00 | M 30 × 3.50 | 52 | 105 | 50 | 57.7 |
| | HBS-RDZ | 40/30 | M 40 × 4.00 | M 30 × 3.50 | 67 | 130 | 60 | 69.3 |
| | HBS-RDZ | 40/34 | M 40 × 4.00 | M 34 × 3.00 | 67 | 130 | 60 | 69.3 |

| Ancrage terminal | Désignation | | Dimensions | | | |
|---|---|---|---|---|---|---|
| | Type | Ø Acier | Filetage | | D | A |
| | | mm | | | mm | |
|  | HBS-SEA | 12 | ISO | M 12 × 1.75 | 18 | 30 |
| | HBS-SEA | 14 | ISO | M 14 × 2.00 | 21 | 35 |
| | HBS-SEA | 16 | ISO | M 16 × 2.00 | 24 | 40 |
| | HBS-SEA | 18 | ISO | M 18 × 2.50 | 27 | 45 |
| | HBS-SEA | 20 | ISO | M 20 × 2.50 | 30 | 50 |
| | HBS-SEA | 22 | ISO | M 22 × 2.50 | 33 | 55 |
| | HBS-SEA | 26 | ISO | M 27 × 3.00 | 39 | 65 |
| | HBS-SEA | 30 | ISO | M 30 × 3.50 | 45 | 75 |
| | HBS-SEA | 34 | Spécial | M 34 × 3.00 | 51 | 85 |
| | HBS-SEA | 40 | Spécial | M 40 × 4.00 | 60 | 100 |

# COUPLEURS

## Manchons MBT ET & MBT EV

### Manchon MBT ET

| Type | Ø acier | Ø extérieur manchon | Longueur | Modèle douilles de vissage | Nombre vis de pression | Poids |
|---|---|---|---|---|---|---|
| | mm | mm | mm | | | kg |
| ET10 | 10 | 33.4 | 100 | 13 | 4 | 0.52 |
| ET12 | 12 | 33.4 | 140 | 13 | 6 | 0.72 |
| ET14 | 14 | 42.2 | 160 | 13 | 6 | 1.25 |
| ET16 | 16 | 42.2 | 160 | 13 | 6 | 1.25 |
| ET18 | 18 | 48.3 | 204 | 13 | 8 | 2.00 |
| ET20 | 20 | 48.3 | 204 | 13 | 8 | 1.96 |
| ET22 | 22 | 48.3 | 248 | 13 | 8 | 2.38 |
| ET26 | 26 | 66.7 | 312 | 16 | 10 | 5.91 |
| ET30 | 30 | 71.0 | 312 | 16 | 10 | 6.68 |
| ET34 | 34 | 75.0 | 420 | 20 | 12 | 8.85 |
| ET40 | 40 | 81.0 | 484 | 20 | 14 | 11.50 |

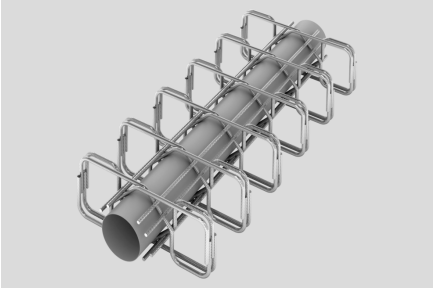
### Manchon MBT EV

| Type | Ø acier | Ø extérieur manchon | Longueur | Longueur avec platine | Épaisseur platine | Dimension platine | Modèle douilles de vissage | Nombre vis de pression | Poids |
|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | mm | | | kg |
| EV10 | 10 | 33.4 | 55 | 65 | 10 | 70 | 13 | 2 | 0.64 |
| EV12 | 12 | 33.4 | 75 | 85 | 10 | 70 | 13 | 3 | 0.74 |
| EV14 | 14 | 42.2 | 82 | 92 | 10 | 70 | 13 | 3 | 0.96 |
| EV16 | 16 | 42.2 | 82 | 92 | 10 | 80 | 13 | 3 | 1.07 |
| EV18 | 18 | 48.3 | 104 | 114 | 10 | 90 | 13 | 4 | 1.58 |
| EV20 | 20 | 48.3 | 104 | 114 | 10 | 90 | 13 | 4 | 1.58 |
| EV22 | 22 | 48.3 | 126 | 136 | 10 | 90 | 13 | 5 | 1.72 |
| EV26 | 26 | 66.7 | 156 | 168 | 12 | 110 | 16 | 5 | 3.81 |
| EV30 | 30 | 71.0 | 156 | 171 | 15 | 130 | 16 | 5 | 5.08 |
| EV34 | 34 | 75.0 | 215 | 230 | 15 | 130 | 20 | 6 | 6.29 |
| EV40 | 40 | 81.0 | 247 | 262 | 15 | 150 | 20 | 7 | 8.20 |

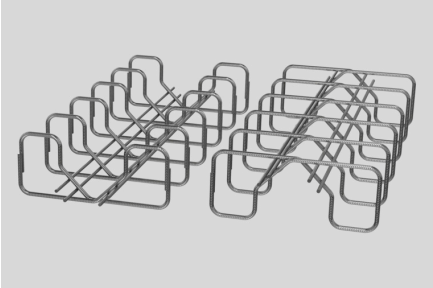
# ARMATURE DE POINÇONNEMENT

## DURA

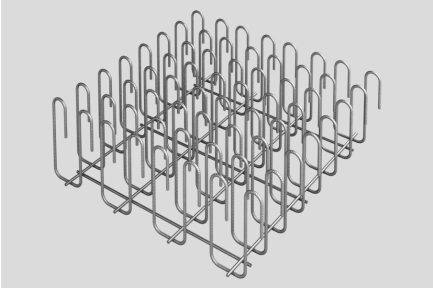
DURA-Box



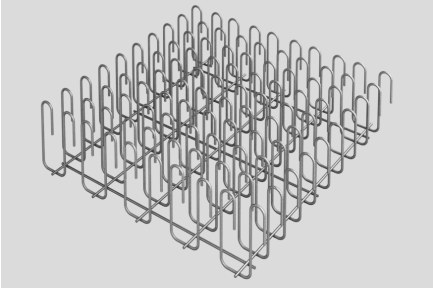
DURA-Box



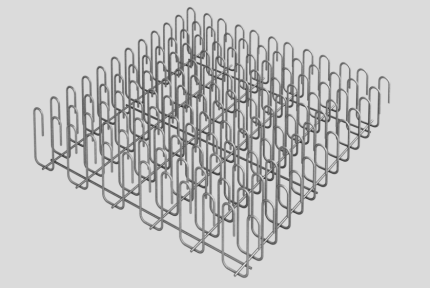
DURA-70



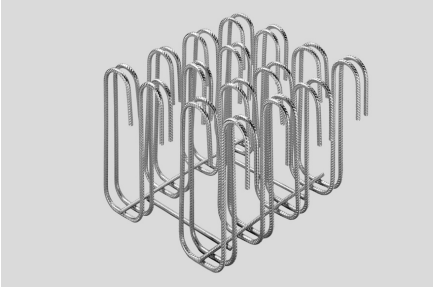
DURA-90



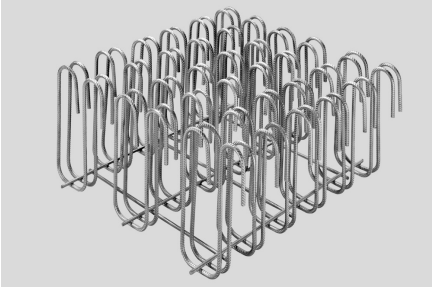
DURA-110



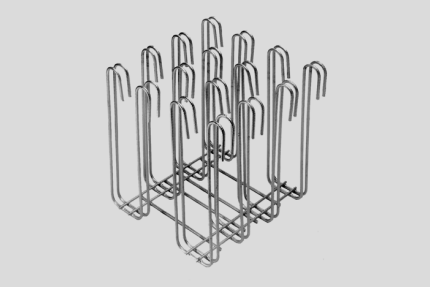
DURA-45



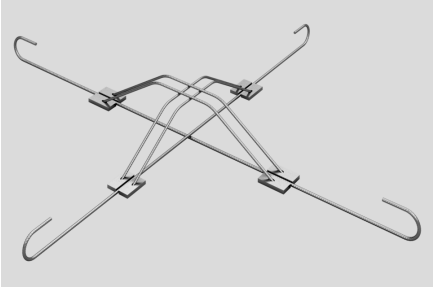
DURA-75



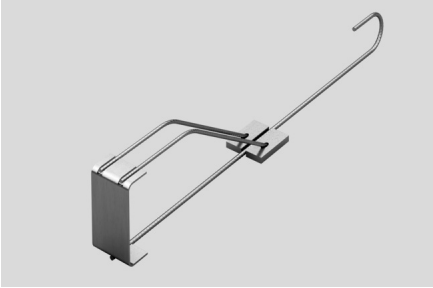
DURA-60



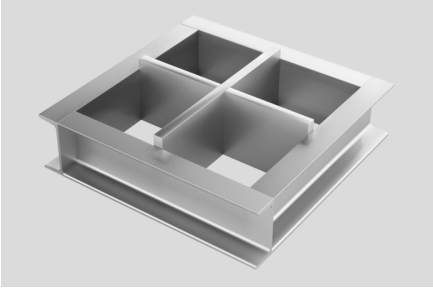
DURA-S



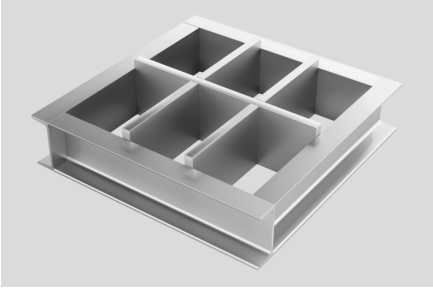
DURA-SR



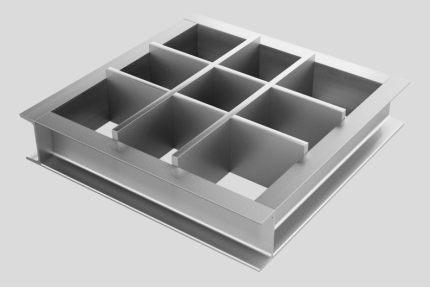
Tête en acier - modèle 1



Tête en acier - modèle 2



Tête en acier - modèle 3



# ARMATURE ANTI-POINÇONNEMENT

JORDAHL H-BAU

## Avantages

- Dimensionnement selon la norme SIA 262:2013
- Agrément technique européen ETA-13/0136
- Travaux de coffrage réduits
- Montage simple et rapide
- Possibilité de montage par le haut et par le bas après la pose d'une armature de flexion
- Fabrication flexible en fonction des impératifs statiques
- Portance plus élevée que les techniques d'armature conventionnelles

## Proriétés

- L'armature anti-poinçonnement est composée **d'ancres à deux têtes** reliées par une barre plate
- Les ancres à deux têtes assurent la transmission entre poinçonnement et effort tranchant
- Eléments standard ou fabrication individuelle pour une solution optimale

## Dimensionnement selon l'article 0.4 de la norme SIA 262:2013

- L'article 0.4 permet de détecter les écarts par rapport à la norme SIA 262
- Détection par la réussite des essais sur composants
- Prise en compte de portances plus élevées et des distances entre les ancrages

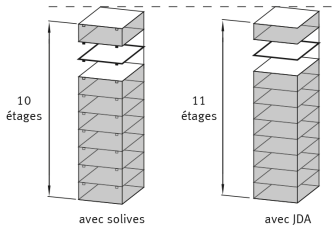
| | SIA 262 | Article 0.4 |
|---|---|---|
| Distance tangentielle de la deuxième ancre | ≤ 1,5d | ≤ 1,7d \| h ≤ 300 mm<br>≤ 1,0d \| h ≥ 1000mm |
| Distance tangentielle de l'ancre extérieure | ≤ 3,0d | ≤ 4,0d |
| Zone primaire | ≤ 1,0d | ≤ 1,125d |
| Coefficient système $k_{sys}$ | 2,0 | 3,0 |

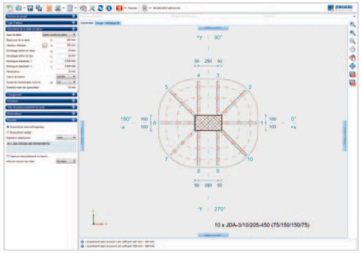
## Ecarteurs

- **Flexibilité** : se fixent à n'importe quel endroit de la barre
- **Simplicité** : avec clous prépositionnés en aluminium
- **Sécurité** : garantissent la haute résistance des ancrages à double tête JDA
- **Polyvalence** : disponibles pour toutes les dalles de béton en usage

## Exploitation optimale des espaces

- Hauteur de construction réduite des dalles de béton
- Utilisable pour des dalles plates à partir d'une épaisseur de 18 cm
- Perspective plane du plafond
- Utilisable pour toutes les positions et formes de piliers




## Planification maximale de la sécurité

- Logiciel de dimensionnement de l'armature anti-poinçonnement pour choisir la meilleure armature anti-poinçonnement avec ou sans tête de poinçonnement
- Saisie rapide et claire des données - dimensionnement économique grâce à des prescriptions individuelles et optimisées
- Dimensionnement selon la norme SIA 262:2013