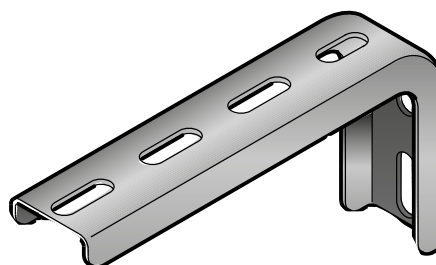


# SUPPORTAGE



|                                         |        |
|-----------------------------------------|--------|
| <b>Supports légers</b> .....            | p. 212 |
| <b>Supports moyens universels</b> ..... | p. 217 |
| <b>Supports moyens</b> .....            | p. 229 |
| <b>Supports lourds</b> .....            | p. 239 |

## ÉQUERRES PLATES

## ÉQUERRES 75X45

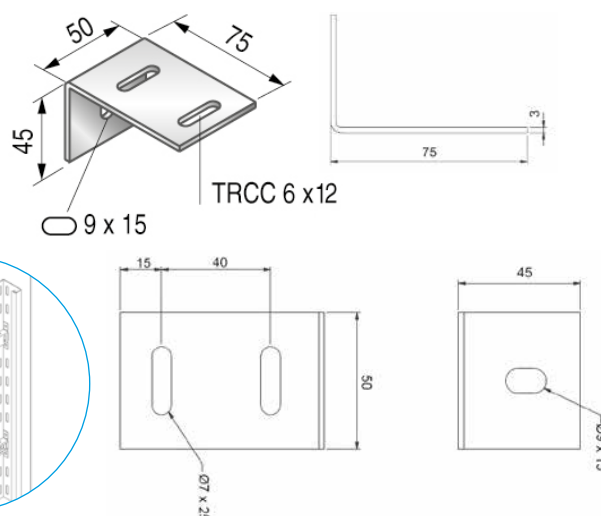
|           |                                                                                   |              |               |               |           |                                                                                       |
|-----------|-----------------------------------------------------------------------------------|--------------|---------------|---------------|-----------|---------------------------------------------------------------------------------------|
|           |  | Désignation  | Code          | Masse<br>kg/p | Ep.<br>mm |  daN |
| <b>SZ</b> | 50                                                                                | EQU 75x45 SZ | <b>613001</b> | 0.120         | 3.00      | 25                                                                                    |
|           |  | Désignation  | Code          | Masse<br>kg/p | Ep.<br>mm |  daN |
| <b>GC</b> | 50                                                                                | EQU 75x45 GC | <b>614001</b> | 0.132         | 3.00      | 25                                                                                    |

### Fixation des dalles perforées par

- **BP TRCC M6x12** (EZ 648001, GM 651001)
- **Agrafitol** (Inox 555160)

### Fixation des CDC Fil par

- **GRSM.6** (EZ 703103, GC 709819)
- **KU20** (EZ 552134, GM 553134)



## ÉQUERRES 90X150

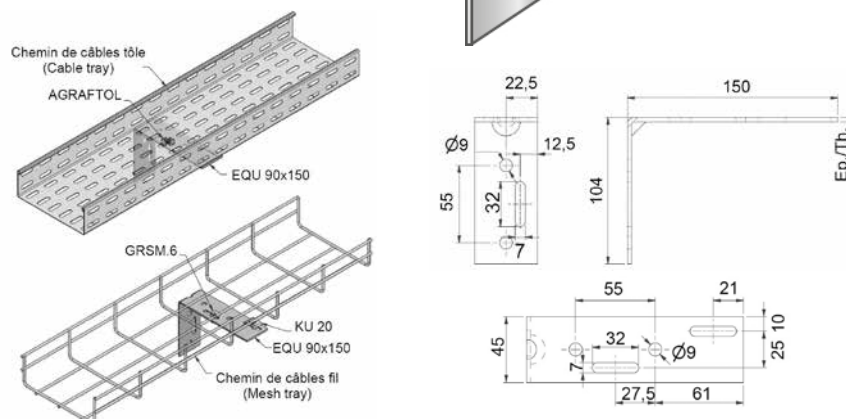
|           |                                                                                   |                      |               |               |                                                                                          |
|-----------|-----------------------------------------------------------------------------------|----------------------|---------------|---------------|------------------------------------------------------------------------------------------|
|           |  | Désignation          | Code          | Masse<br>kg/p | <br>daN |
| <b>SZ</b> | 50                                                                                | <b>EQU 90x150 SZ</b> | <b>613123</b> | 0.220         | 20                                                                                       |
|           |  | Désignation          | Code          | Masse<br>kg/p | <br>daN |
| <b>GC</b> | 50                                                                                | <b>EQU 90x150 GC</b> | <b>614123</b> | 0.240         | 20                                                                                       |

### Fixation des dalles perforées par

- **BP TRCC M6x12** (EZ 648001, GM 651001)
- **Agrafitol** (Inox 555160)

### Fixation des CDC Fil par

- **GRSM.6** (EZ 703103, GC 709819)
- **KU20** (EZ 552134, GM 553134)



## ÉQUERRES 90X225

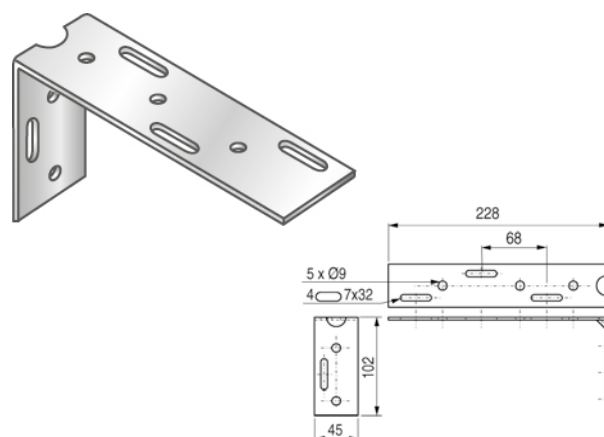
|           |                                                                                     |                      |               |               |                                                                                            |
|-----------|-------------------------------------------------------------------------------------|----------------------|---------------|---------------|--------------------------------------------------------------------------------------------|
|           |  | Désignation          | Code          | Masse<br>kg/p | <br>daN |
| <b>SZ</b> | 50                                                                                  | <b>EQU 90x225 SZ</b> | <b>613124</b> | 0.250         | 16                                                                                         |
|           |  | Désignation          | Code          | Masse<br>kg/p | <br>daN |
| <b>GC</b> | 50                                                                                  | <b>EQU 90x225 GC</b> | <b>614124</b> | 0.270         | 16                                                                                         |

### Fixation des dalles perforées par

- **BP TRCC M6x12** (EZ 648001, GM 651001)
- **Agrafitol** (Inox 555160)

## Fixation des CDC Fil par

- **GRSM.6** (EZ 703103, GC 709819)
- **KU20** (EZ 552134, GM 553134)



**SÉRIES N-CU**
**CONSOLES N0 - N01**

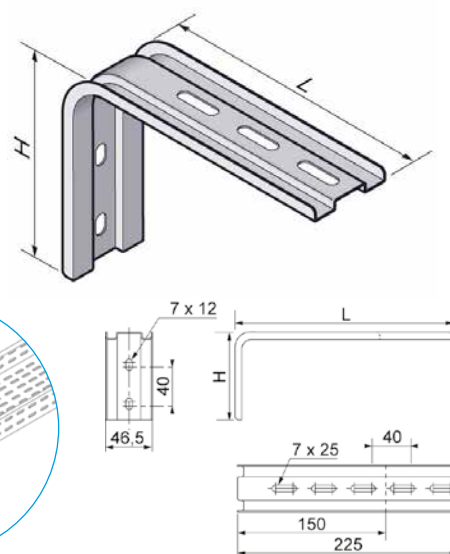
|    | p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | L<br>mm | daN |
|----|----|-------------|--------|---------------|-----------|----------|---------|-----|
| SZ | 20 | N 0 SZ      | 011001 | 0.110         | 1.00      | 93       | 150     | 25  |
|    | 20 | N 01 SZ     | 011002 | 0.150         | 1.00      | 93       | 225     | 16  |
|    | p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | L<br>mm | daN |
| GC | 20 | N 0 GC      | 011050 | 0.120         | 1.00      | 93       | 150     | 25  |
|    | 20 | N 01 GC     | 011051 | 0.160         | 1.00      | 93       | 225     | 16  |

Fixation des dalles perforées par

- **BP TRCC M6x12** (EZ 648001, GM 651001)
- **Agrafitol** (555160)

Fixation des CDC Fil par

- **KU20** (EZ 552134, GM 553134, I3 555134)
- **GRSM.6** (EZ 703103, GC 709819, I2 703612)


**CONSOLES CU**

|    | p  | Désignation   | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | daN | L.<br>mm |
|----|----|---------------|--------|---------------|-----------|----------|-----|----------|
| SZ | 10 | CU 80 SZ      | 011020 | 0.120         | 2.00      | 86       | 120 | 86       |
|    | 10 | CU 120 SZ     | 011021 | 0.150         | 2.00      | 86       | 90  | 126      |
|    | 10 | CU 160 SZ     | 011010 | 0.190         | 2.00      | 86       | 70  | 166      |
|    | 10 | CU 240 SZ     | 011011 | 0.290         | 2.00      | 126      | 60  | 246      |
|    | 10 | CU 320 SZ     | 011012 | 0.350         | 2.00      | 126      | 40  | 326      |
|    | 10 | CU 320x200 SZ | 011016 | 0.410         | 2.00      | 206      | 40  | 326      |
|    | p  | Désignation   | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | daN | L.<br>mm |
| GC | 10 | CU 80 GC      | 011022 | 0.130         | 2.00      | 86       | 120 | 86       |
|    | 10 | CU 120 GC     | 011023 | 0.160         | 2.00      | 86       | 90  | 126      |
|    | 10 | CU 160 GC     | 011013 | 0.200         | 2.00      | 86       | 70  | 166      |
|    | 10 | CU 240 GC     | 011014 | 0.300         | 2.00      | 126      | 60  | 246      |
|    | 10 | CU 320 GC     | 011015 | 0.380         | 2.00      | 126      | 40  | 326      |
|    | 10 | CU 320x200 GC | 011017 | 0.450         | 2.00      | 206      | 40  | 326      |
|    | p  | Désignation   | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | daN | L.<br>mm |
| I2 | 10 | CU 80 I2      | 311020 | 0.090         | 1.50      | 86       | 120 | 86       |
|    | 10 | CU 120 I2     | 311021 | 0.120         | 1.50      | 86       | 90  | 126      |
|    | 10 | CU 160 I2     | 311010 | 0.140         | 1.50      | 86       | 70  | 166      |
|    | 10 | CU 240 I2     | 311011 | 0.210         | 1.50      | 126      | 60  | 246      |
|    | 10 | CU 320 I2     | 311012 | 0.270         | 1.50      | 126      | 40  | 326      |
|    | 10 | CU 320x200 I2 | 311016 | 0.310         | 1.50      | 206      | 40  | 326      |

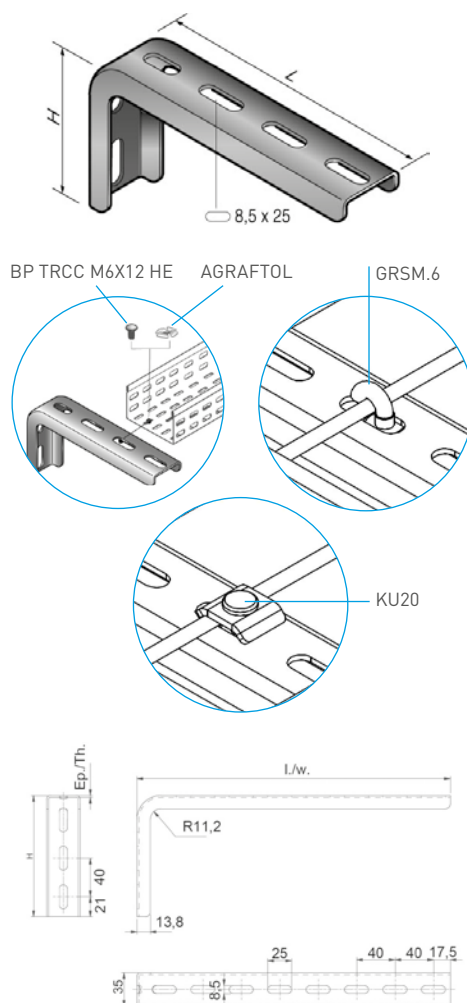
Fixation des dalles perforées par

- **BP TRCC M6x12** (EZ 648001, GM 651001)
- **Agrafitol** (Inox 555160)

Fixation des CDC Fil par

- **GRSM.6** (EZ 703103, GC 709819)
- **KU20** (EZ 552134, GM 553134)

Réalisable en Epoxy sur demande



**SÉRIES N-CU**
**SUPPORTS CCU**

| p         | Désignation           | Code   | Masse<br>kg/p | Ep.<br>mm | A<br>mm | B<br>mm | C<br>mm |
|-----------|-----------------------|--------|---------------|-----------|---------|---------|---------|
| <b>SZ</b> | 10 CCU 80x140x160 SZ  | 012349 | 0.279         | 2.00      | 86      | 137     | 166     |
|           | 10 CCU 120x180x160 SZ | 012350 | 0.343         | 2.00      | 126     | 177     | 166     |
|           | 10 CCU 120x260x160 SZ | 012351 | 0.407         | 2.00      | 126     | 257     | 166     |
|           | 10 CCU 120x180x240 SZ | 012352 | 0.407         | 2.00      | 126     | 177     | 246     |
|           | 10 CCU 160x260x240 SZ | 012353 | 0.503         | 2.00      | 166     | 257     | 246     |
|           | 10 CCU 120x340x240 SZ | 012354 | 0.535         | 2.00      | 126     | 337     | 246     |
| p         | Désignation           | Code   | Masse<br>kg/p | Ep.<br>mm | A<br>mm | B<br>mm | C<br>mm |
| <b>GC</b> | 10 CCU 80x140x160 GC  | 012359 | 0.330         | 2.00      | 86      | 137     | 166     |
|           | 10 CCU 120x180x160 GC | 012360 | 0.385         | 2.00      | 126     | 177     | 166     |
|           | 10 CCU 120x260x160 GC | 012361 | 0.450         | 2.00      | 126     | 257     | 166     |
|           | 10 CCU 120x180x240 GC | 012362 | 0.450         | 2.00      | 126     | 177     | 246     |
|           | 10 CCU 160x260x240 GC | 012363 | 0.560         | 2.00      | 166     | 257     | 246     |
|           | 10 CCU 120x340x240 GC | 012364 | 0.590         | 2.00      | 126     | 337     | 246     |
| p         | Désignation           | Code   | Masse<br>kg/p | Ep.<br>mm | A<br>mm | B<br>mm | C<br>mm |
| <b>I2</b> | 10 CCU 80x140x160 I2  | 312349 | 0.230         | 1.50      | 86      | 137     | 166     |
|           | 10 CCU 120x180x160 I2 | 312350 | 0.290         | 1.50      | 126     | 177     | 166     |
|           | 10 CCU 120x260x160 I2 | 312351 | 0.310         | 1.50      | 126     | 257     | 166     |
|           | 10 CCU 120x180x240 I2 | 312352 | 0.340         | 1.50      | 126     | 177     | 246     |
|           | 10 CCU 120x340x240 I2 | 312354 | 0.530         | 1.50      | 126     | 337     | 246     |

Fixation des dalles par TRCC M6x12 sur la partie extérieure et par TRCC M6x30 sur la partie intérieure de la console

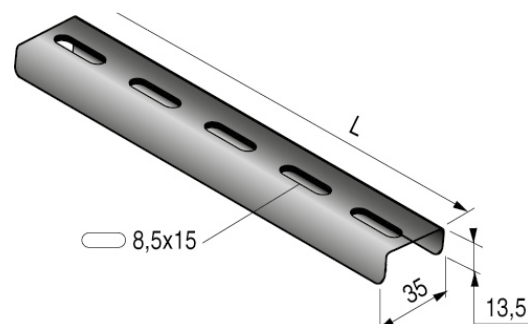
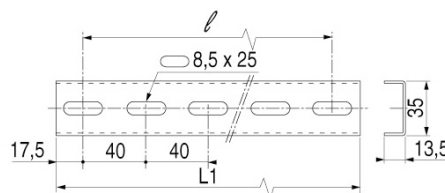


| CHARGES         |        |         |         |
|-----------------|--------|---------|---------|
| DESCRIPTION     | C(DaN) | C1(DaN) | C2(DaN) |
| CCU 80x140x160  | 70     | 120     | 75      |
| CCU 120x180x160 | 65     | 100     | 75      |
| CCU 120x260x160 | 60     | 100     | 75      |
| CCU 120x180x240 | 50     | 100     | 55      |
| CCU 160x260x240 | 45     | 70      | 50      |
| CCU 120x340x240 | 40     | 100     | 55      |

**PROFIL U35**

| m         | Désignation            | Code   | Masse<br>kg/ml | Ep.<br>mm |
|-----------|------------------------|--------|----------------|-----------|
| <b>SZ</b> | 2 U 35x13.5x2.00 2M SZ | 015207 | 0.786          | 2.00      |

Compatible **AGRAFTOL**



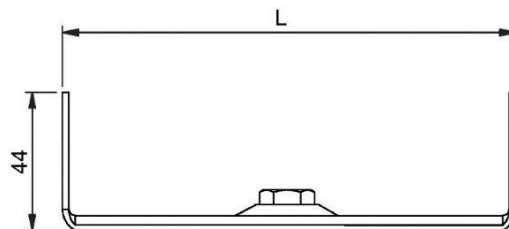
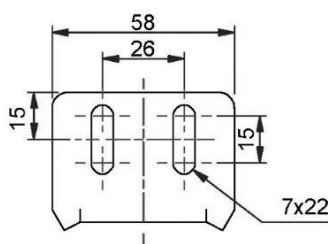
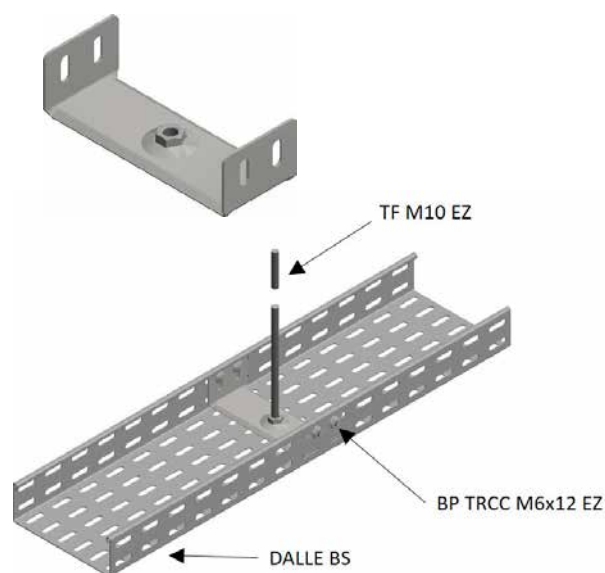


**AUTRES SUPPORTS LÉGERS**
**SUSPENSIONS RTU**

En utilisation avec la dalle BS et une tige filetée M10, elle vous permet de fixer rapidement votre chemin de câbles au plafond, grâce à son écrou central intégré.

|           |  | p | Description       | Code          | L.<br>mm | Masse<br>kg/p |  daN |
|-----------|-----------------------------------------------------------------------------------|---|-------------------|---------------|----------|---------------|---------------------------------------------------------------------------------------|
| <b>SZ</b> | 20                                                                                |   | SCI RTU 48x50 SZ  | <b>613441</b> | 47       | 0,120         | 70                                                                                    |
|           | 20                                                                                |   | SCI RTU 48x75 SZ  | <b>613442</b> | 71       | 0,144         | 70                                                                                    |
|           | 20                                                                                |   | SCI RTU 48x100 SZ | <b>613443</b> | 96       | 0,166         | 60                                                                                    |
|           | 20                                                                                |   | SCI RTU 48x147 SZ | <b>613445</b> | 144      | 0,194         | 60                                                                                    |
|           | 20                                                                                |   | SCI RTU 48x195 SZ | <b>613447</b> | 192      | 0,233         | 55                                                                                    |
|           | 20                                                                                |   | SCI RTU 48x316 SZ | <b>613450</b> | 312      | 0,253         | 30                                                                                    |

Compatible **DALLE BS**


**SUPPORT SFT**

 30-5450 > 100

|           |  | p | Désignation         | Code          | Masse<br>kg/p |  daN |
|-----------|-------------------------------------------------------------------------------------|---|---------------------|---------------|---------------|-----------------------------------------------------------------------------------------|
| <b>SZ</b> | 25                                                                                  |   | <b>SFT 50 - 100</b> | <b>747050</b> | 0.200         | 20                                                                                      |

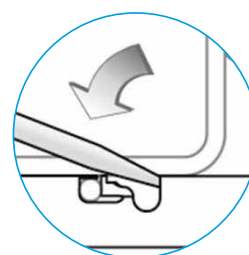
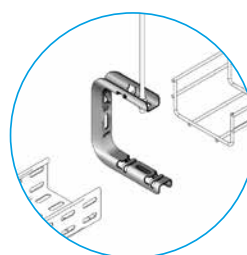
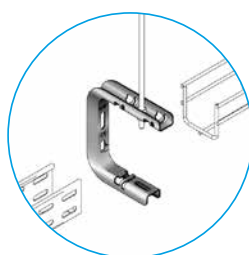
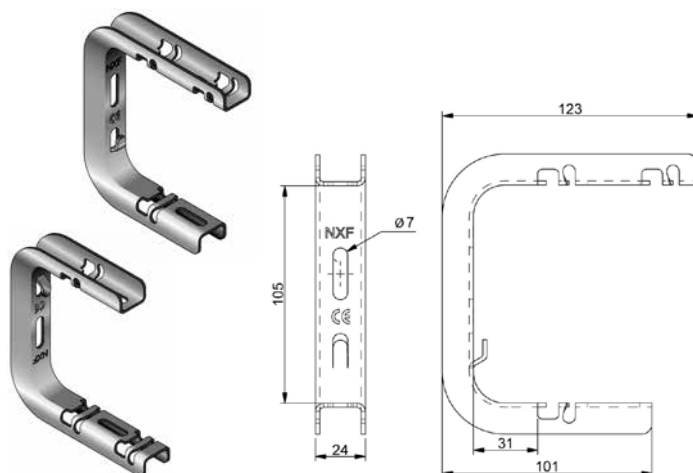
|           |  | p | Désignation         | Code          | Masse<br>kg/p |  daN |
|-----------|-------------------------------------------------------------------------------------|---|---------------------|---------------|---------------|-----------------------------------------------------------------------------------------|
| <b>ZM</b> | 25                                                                                  |   | <b>SFT 50 - 100</b> | <b>748050</b> | 0.200         | 20                                                                                      |

|           |  | p | Désignation         | Code          | Masse<br>kg/p |  daN |
|-----------|-------------------------------------------------------------------------------------|---|---------------------|---------------|---------------|-----------------------------------------------------------------------------------------|
| <b>I3</b> | 25                                                                                  |   | <b>SFT 50 - 100</b> | <b>750050</b> | 0.200         | 20                                                                                      |

- Support réversible pour chemins de câbles tôle ou fil de largeur 50 et 100 mm
- Fixation des dalles perforées par BP TRCC M6x12 HE
- Fixation sans boulons des CDC Fil

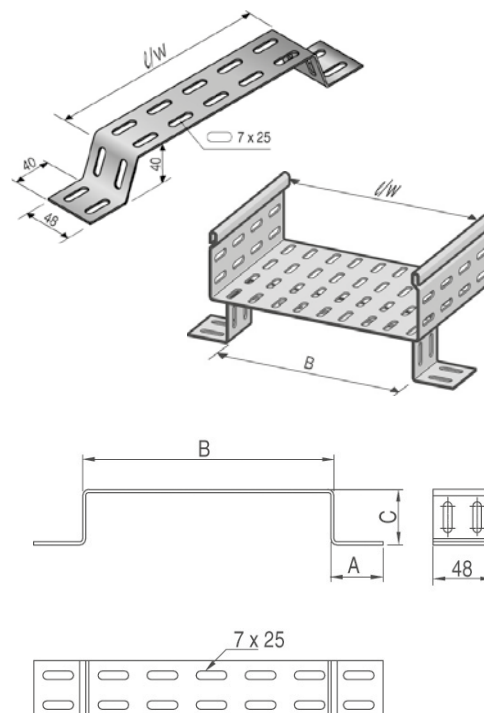
Fixation directe sur mur ou par tige filetée (diam. 6) au plafond



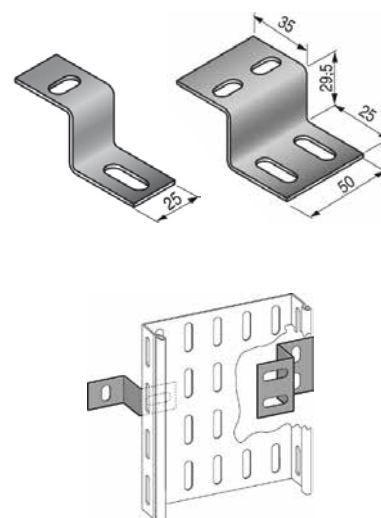
**AUTRES SUPPORTS LÉGERS**
**PONTETS OMEGA**

|    |  | p                    | Désignation   | Code  | Masse<br>kg/p | Ep.<br>mm | A<br>mm | B<br>mm | C<br>mm |
|----|-----------------------------------------------------------------------------------|----------------------|---------------|-------|---------------|-----------|---------|---------|---------|
| SZ | 10                                                                                | PO 40x 80x40x2.50 SZ | <b>040216</b> | 0.190 | 2.50          | 42.5      | 85.0    | 45      |         |
|    | 10                                                                                | PO 40x120x40x2.50 SZ | <b>040217</b> | 0.220 | 2.50          | 42.5      | 125.0   | 45      |         |
|    | 10                                                                                | PO 40x160x40x2.50 SZ | <b>040218</b> | 0.250 | 2.50          | 42.5      | 165.0   | 45      |         |
|    | 10                                                                                | PO 40x200x40x2.50 SZ | <b>040219</b> | 0.280 | 2.50          | 42.5      | 205.0   | 45      |         |
|    | 10                                                                                | PO 40x320x40x2.50 SZ | <b>040222</b> | 0.380 | 2.50          | 42.5      | 325.0   | 45      |         |
|    | 10                                                                                | PO 40x400x40x2.50 SZ | <b>040224</b> | 0.440 | 2.50          | 42.5      | 405.0   | 45      |         |
|    | 10                                                                                | PO 40x520x40x2.50 SZ | <b>040227</b> | 0.530 | 2.50          | 42.5      | 525.0   | 45      |         |
|    | 10                                                                                | PO 40x600x40x2.50 SZ | <b>040229</b> | 0.590 | 2.50          | 42.5      | 605.0   | 45      |         |
|    |  | p                    | Désignation   | Code  | Masse<br>kg/p | Ep.<br>mm | A<br>mm | B<br>mm | C<br>mm |
| GC | 10                                                                                | PO 40x 80x40x2.50 GC | <b>040230</b> | 0.200 | 2.50          | 42.5      | 85.0    | 45      |         |
|    | 10                                                                                | PO 40x120x40x2.50 GC | <b>040231</b> | 0.230 | 2.50          | 42.5      | 125.0   | 45      |         |
|    | 10                                                                                | PO 40x160x40x2.50 GC | <b>040232</b> | 0.260 | 2.50          | 42.5      | 165.0   | 45      |         |
|    | 10                                                                                | PO 40x200x40x2.50 GC | <b>040233</b> | 0.300 | 2.50          | 42.5      | 205.0   | 45      |         |
|    | 10                                                                                | PO 40x320x40x2.50 GC | <b>040236</b> | 0.390 | 2.50          | 42.5      | 325.0   | 45      |         |
|    | 10                                                                                | PO 40x400x40x2.50 GC | <b>040238</b> | 0.460 | 2.50          | 42.5      | 405.0   | 45      |         |
|    | 10                                                                                | PO 40x520x40x2.50 GC | <b>040241</b> | 0.560 | 2.50          | 42.5      | 525.0   | 45      |         |
|    | 10                                                                                | PO 40x600x40x2.50 GC | <b>040243</b> | 0.620 | 2.50          | 42.5      | 605.0   | 45      |         |

Finition Inox et Aluminium sur demande


**PONTETS SIMPLES ET DOUBLES**

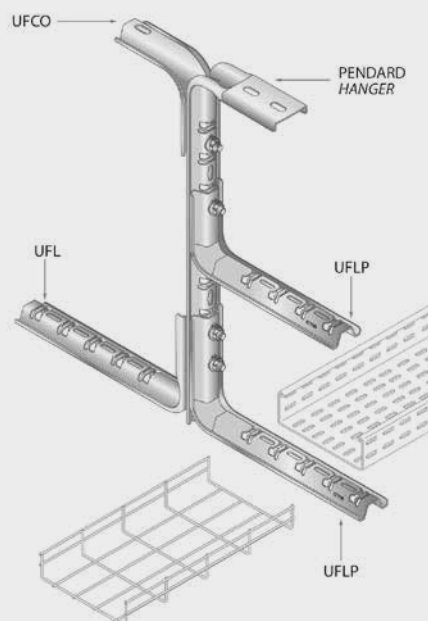
|    |  | p                | Désignation | Code  | Masse<br>kg/p | Ep.<br>mm |
|----|-------------------------------------------------------------------------------------|------------------|-------------|-------|---------------|-----------|
| SZ | 10                                                                                  | PONTET SIMPLE SZ | 016051      | 0.030 | 2.00          |           |
|    | 10                                                                                  | PONTET DOUBLE SZ | 016052      | 0.050 | 2.00          |           |



### SÉRIE S100U UFL

Système universel pour chemins de câbles en tôle et en fil

- Fixation SANS boulons pour les chemins de câbles en fil
- Fixation murale ou plafond directe
- Fixation des consoles sur **rail S100U** ou **STRUT 41**
- Breveté



### RAILS S100U AU MÈTRE

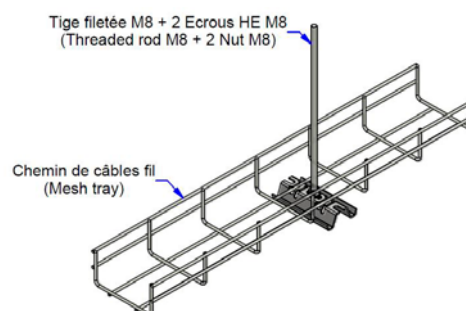
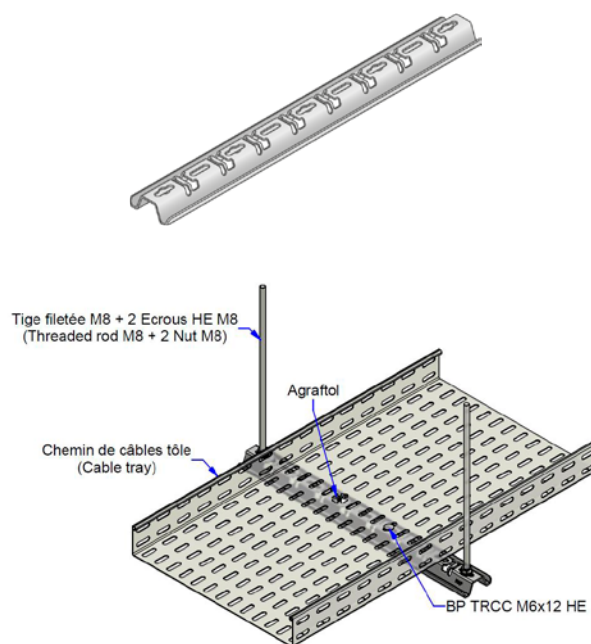
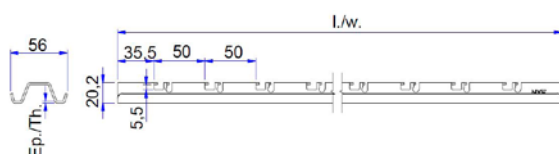
| m  | Désignation   | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---------------|--------|----------------|-----------|
| SZ | 1 S100U 1M SZ | 747107 | 1.190          | 2.00      |
|    | 2 S100U 2M SZ | 747110 | 1.190          | 2.00      |
|    | 3 S100U 3M SZ | 747111 | 1.190          | 2.00      |

| m  | Désignation   | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---------------|--------|----------------|-----------|
| ZM | 1 S100U 1M ZM | 748107 | 1.190          | 2.00      |
|    | 2 S100U 2M ZM | 748110 | 1.190          | 2.00      |
|    | 3 S100U 3M ZM | 748111 | 1.190          | 2.00      |

| m  | Désignation   | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---------------|--------|----------------|-----------|
| I3 | 1 S100U 1M I3 | 750107 | 1.190          | 2.00      |
|    | 2 S100U 2M I3 | 750110 | 1.190          | 2.00      |
|    | 3 S100U 3M I3 | 750111 | 1.220          | 2.00      |

Fixation des dalles perforées par **TRCC M6x12** (EZ 648001, GM 651001, Inox 529001) ou **AGRAFTOL** (555160)

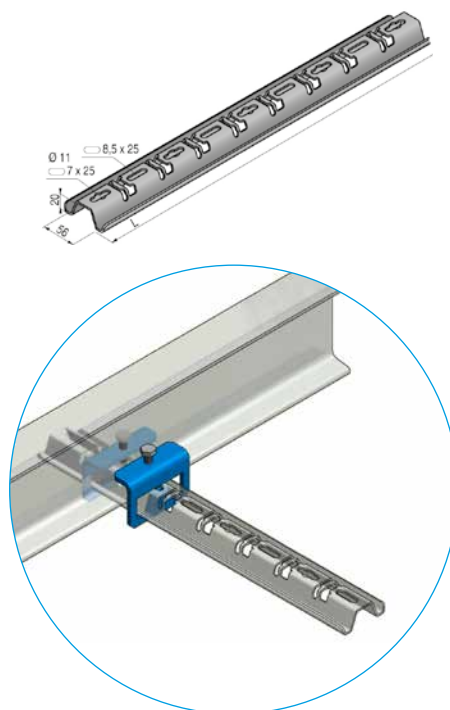
Verrouillage du chemin de câbles fil à l'aide d'un tournevis



## SÉRIE S100U UFL

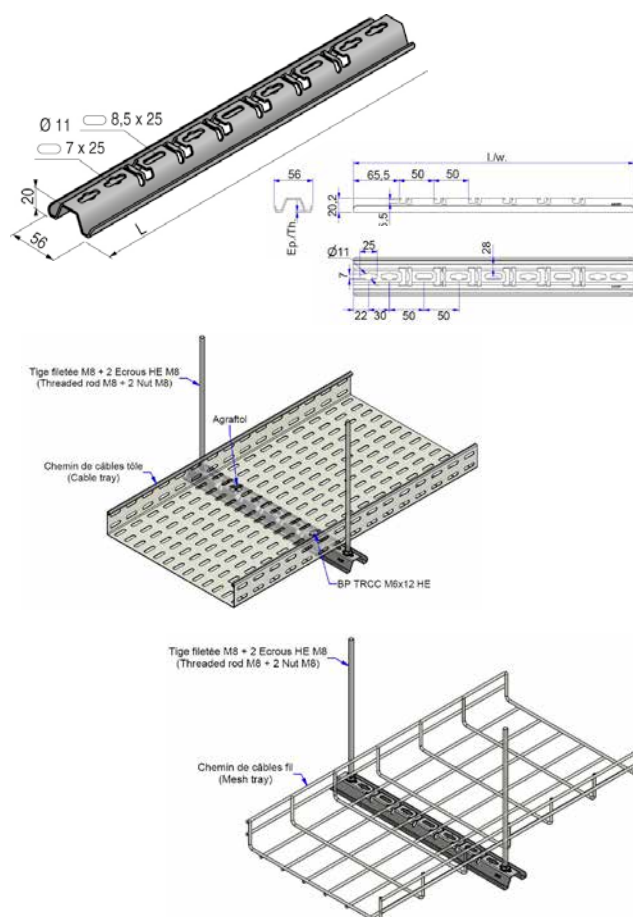
## RAILS S100U À LA PIÈCE

|    |  |              |               |               |           |
|----|-----------------------------------------------------------------------------------|--------------|---------------|---------------|-----------|
|    | p                                                                                 | Désignation  | Code          | Masse<br>kg/p | Ep.<br>mm |
| SZ | 1                                                                                 | S100U 200 SZ | <b>747101</b> | 0.230         | 2.00      |
|    | 1                                                                                 | S100U 250 SZ | <b>747102</b> | 0.280         | 2.00      |
|    | 1                                                                                 | S100U 350 SZ | <b>747103</b> | 0.390         | 2.00      |
|    | 1                                                                                 | S100U 450 SZ | <b>747104</b> | 0.490         | 2.00      |
|    | 1                                                                                 | S100U 550 SZ | <b>747105</b> | 0.610         | 2.00      |
|    | 1                                                                                 | S100U 650 SZ | <b>747106</b> | 0.750         | 2.00      |
|    |  |              |               |               |           |
|    | p                                                                                 | Désignation  | Code          | Masse<br>kg/p | Ep.<br>mm |
| ZM | 1                                                                                 | S100U 200 ZM | <b>748101</b> | 0.230         | 2.00      |
|    | 1                                                                                 | S100U 250 ZM | <b>748102</b> | 0.280         | 2.00      |
|    | 1                                                                                 | S100U 350 ZM | <b>748103</b> | 0.390         | 2.00      |
|    | 1                                                                                 | S100U 450 ZM | <b>748104</b> | 0.490         | 2.00      |
|    | 1                                                                                 | S100U 550 ZM | <b>748105</b> | 0.610         | 2.00      |
|    | 1                                                                                 | S100U 650 ZM | <b>748106</b> | 0.750         | 2.00      |
|    |  |              |               |               |           |
|    | p                                                                                 | Désignation  | Code          | Masse<br>kg/p | Ep.<br>mm |
| I3 | 1                                                                                 | S100U 200 I3 | <b>750101</b> | 0.230         | 2.00      |
|    | 1                                                                                 | S100U 250 I3 | <b>750102</b> | 0.280         | 2.00      |
|    | 1                                                                                 | S100U 350 I3 | <b>750103</b> | 0.390         | 2.00      |
|    | 1                                                                                 | S100U 450 I3 | <b>750104</b> | 0.490         | 2.00      |
|    | 1                                                                                 | S100U 550 I3 | <b>750105</b> | 0.610         | 2.00      |
|    | 1                                                                                 | S100U 650 I3 | <b>750106</b> | 0.750         | 2.00      |

Compatibles **AGRAFTOL**

## BALANCELLER S100U

|    | <br>p | Désignation             | Code   | Masse<br>kg/p | Ep.<br>mm | L.<br>mm |
|----|------------------------------------------------------------------------------------------|-------------------------|--------|---------------|-----------|----------|
| SZ | 10                                                                                       | BALANCELLE S100U 100 SZ | 747201 | 0.260         | 2.00      | 204      |
|    | 10                                                                                       | BALANCELLE S100U 150 SZ | 747202 | 0.320         | 2.00      | 254      |
|    | 10                                                                                       | BALANCELLE S100U 200 SZ | 747203 | 0.380         | 2.00      | 304      |
|    | 10                                                                                       | BALANCELLE S100U 300 SZ | 747204 | 0.500         | 2.00      | 404      |
|    | 10                                                                                       | BALANCELLE S100U 400 SZ | 747205 | 0.620         | 2.00      | 504      |
|    | 10                                                                                       | BALANCELLE S100U 500 SZ | 747206 | 0.740         | 2.00      | 604      |
|    | 10                                                                                       | BALANCELLE S100U 600 SZ | 747207 | 0.860         | 2.00      | 704      |
|    | <br>p | Désignation             | Code   | Masse<br>kg/p | Ep.<br>mm | L.<br>mm |
| ZM | 10                                                                                       | BALANCELLE S100U 100 ZM | 748201 | 0.260         | 2.00      | 204      |
|    | 10                                                                                       | BALANCELLE S100U 150 ZM | 748202 | 0.320         | 2.00      | 254      |
|    | 10                                                                                       | BALANCELLE S100U 200 ZM | 748203 | 0.380         | 2.00      | 304      |
|    | 10                                                                                       | BALANCELLE S100U 300 ZM | 748204 | 0.500         | 2.00      | 404      |
|    | 10                                                                                       | BALANCELLE S100U 400 ZM | 748205 | 0.620         | 2.00      | 504      |
|    | 10                                                                                       | BALANCELLE S100U 500 ZM | 748206 | 0.740         | 2.00      | 604      |
|    | 10                                                                                       | BALANCELLE S100U 600 ZM | 748207 | 0.860         | 2.00      | 704      |
|    | <br>p | Désignation             | Code   | Masse<br>kg/p | Ep.<br>mm | L.<br>mm |
| I3 | 10                                                                                       | BALANCELLE S100U 100 I3 | 750201 | 0.260         | 2.00      | 204      |
|    | 10                                                                                       | BALANCELLE S100U 150 I3 | 750202 | 0.320         | 2.00      | 254      |
|    | 10                                                                                       | BALANCELLE S100U 200 I3 | 750203 | 0.380         | 2.00      | 304      |
|    | 10                                                                                       | BALANCELLE S100U 300 I3 | 750204 | 0.500         | 2.00      | 404      |
|    | 10                                                                                       | BALANCELLE S100U 400 I3 | 750205 | 0.620         | 2.00      | 504      |
|    | 10                                                                                       | BALANCELLE S100U 500 I3 | 750206 | 0.740         | 2.00      | 604      |
|    | 10                                                                                       | BALANCELLE S100U 600 I3 | 750207 | 0.860         | 2.00      | 704      |



Fixation des dalles perforées par **TRCC M6x12** (EZ 648001, GM 651001, Inox 529001) ou **AGRAFTOL** (555160)  
 Fixation plafond par tige filetée M8 + 2 écrous HE M8

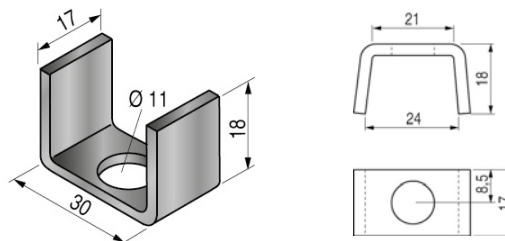
### SÉRIE S100U UFL

#### CLAMES S100U

|    | p  | Désignation    | Code   | Masse<br>kg/p |
|----|----|----------------|--------|---------------|
| SZ | 50 | CLAME S100U SZ | 552113 | 0.018         |
|    | p  | Désignation    | Code   | Masse<br>kg/p |
| GC | 50 | CLAME S100U GC | 553113 | 0.018         |
|    | p  | Désignation    | Code   | Masse<br>kg/p |
| I3 | 50 | CLAME S100U I3 | 555113 | 0.016         |

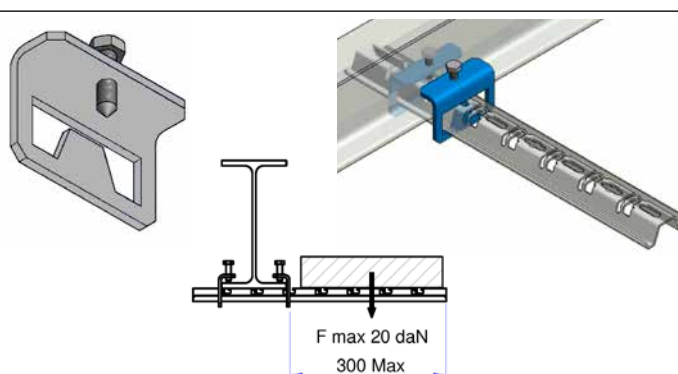
Recommandée pour des montages de :

- Rails S100U, au sol ou mural
- Consolles UFL en dos de pendentif



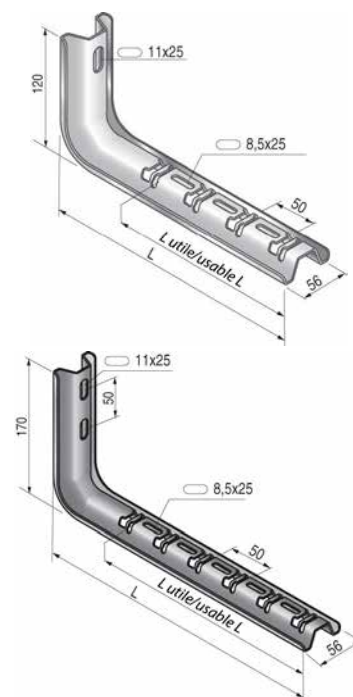
#### CRAPAUD S100U

|    | p  | Désignation      | Code   | Masse<br>Kg/p | Ep.<br>mm |
|----|----|------------------|--------|---------------|-----------|
| SZ | 50 | CRAPAUD S100U SZ | 677790 | 0.133         | 4.00      |
|    | p  | Désignation      | Code   | Masse<br>Kg/p | Ep.<br>mm |
| GC | 1  | CRAPAUD S100U GC | 678790 | 0.146         | 4.00      |



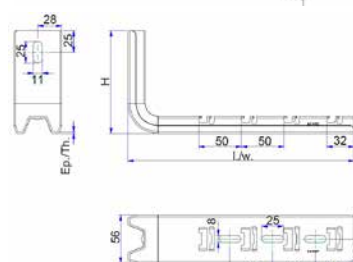
#### CONSOLES UFLP

|    | p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | l<br>mm | L.<br>mm | daN |
|----|----|-------------|--------|---------------|-----------|----------|---------|----------|-----|
| SZ | 20 | UFLP-10 SZ  | 747030 | 0.310         | 2.00      | 120      | 100     | 165      | 130 |
|    | 20 | UFLP-15 SZ  | 747031 | 0.370         | 2.00      | 120      | 150     | 215      | 108 |
|    | 20 | UFLP-20 SZ  | 747032 | 0.460         | 2.00      | 120      | 200     | 265      | 86  |
|    | 20 | UFLP-25 SZ  | 747033 | 0.550         | 2.00      | 170      | 250     | 315      | 75  |
|    | 20 | UFLP-30 SZ  | 747034 | 0.600         | 2.00      | 170      | 300     | 365      | 64  |
|    | p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | l<br>mm | L.<br>mm | daN |
| ZM | 20 | UFLP-10 ZM  | 748030 | 0.310         | 2.00      | 120      | 100     | 165      | 130 |
|    | 20 | UFLP-15 ZM  | 748031 | 0.370         | 2.00      | 120      | 150     | 215      | 108 |
|    | 20 | UFLP-20 ZM  | 748032 | 0.460         | 2.00      | 120      | 200     | 265      | 86  |
|    | 20 | UFLP-25 ZM  | 748033 | 0.550         | 2.00      | 170      | 250     | 315      | 75  |
|    | 20 | UFLP-30 ZM  | 748034 | 0.600         | 2.00      | 170      | 300     | 365      | 64  |
|    | p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | l<br>mm | L.<br>mm | daN |
| I3 | 20 | UFLP-10 I3  | 750030 | 0.310         | 2.00      | 120      | 100     | 165      | 130 |
|    | 20 | UFLP-15 I3  | 750031 | 0.370         | 2.00      | 120      | 150     | 215      | 108 |
|    | 20 | UFLP-20 I3  | 750032 | 0.460         | 2.00      | 120      | 200     | 265      | 86  |
|    | 20 | UFLP-25 I3  | 750033 | 0.550         | 2.00      | 170      | 250     | 315      | 75  |
|    | 20 | UFLP-30 I3  | 750034 | 0.600         | 2.00      | 170      | 300     | 365      | 64  |



- Pour montage direct sans clame sur Pendentif ou sur Rail S100U
- Fixation des dalles perforées par **TRCC M6x12** (EZ 648001, GM 651001, Inox 529001) ou **AGRAFTOL** (555160)
- Verrouillage du chemin de câbles fil à l'aide d'un tournevis

l mm : largeur admissible du chemin de câbles ou longueur utile de la console  
L mm : longueur totale de la console





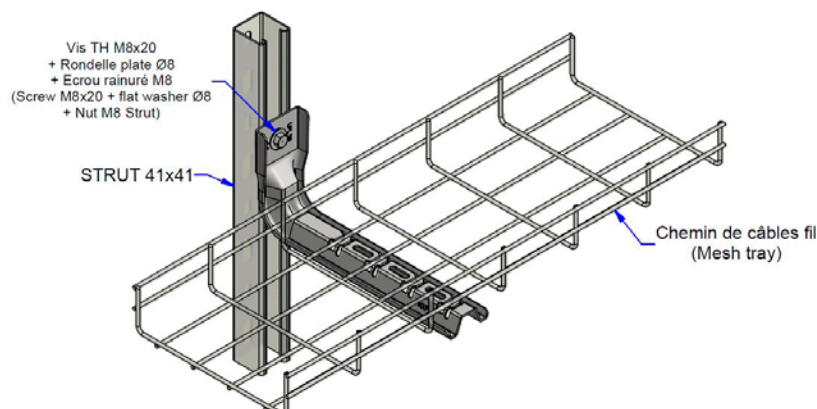
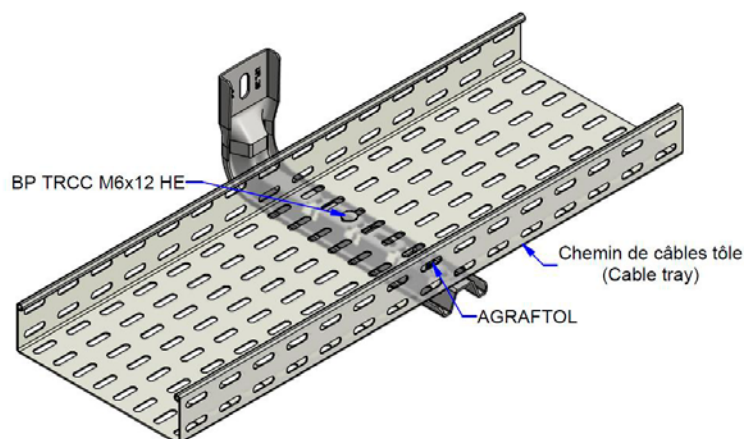
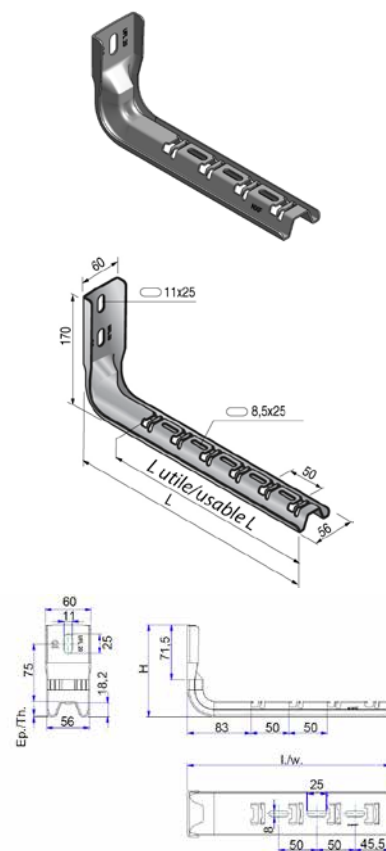
### SÉRIE S100U UFL

#### CONSOLES UFL

| p         | Désignation  | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | l<br>mm | L.<br>mm | daN |
|-----------|--------------|--------|---------------|-----------|----------|---------|----------|-----|
| <b>SZ</b> | 20 UFL-10 SZ | 747001 | 0.320         | 2.00      | 120      | 100     | 165      | 130 |
|           | 20 UFL-15 SZ | 747002 | 0.380         | 2.00      | 120      | 150     | 215      | 108 |
|           | 20 UFL-20 SZ | 747003 | 0.430         | 2.00      | 120      | 200     | 265      | 86  |
|           | 20 UFL-25 SZ | 747004 | 0.560         | 2.00      | 170      | 250     | 315      | 75  |
|           | 20 UFL-30 SZ | 747005 | 0.600         | 2.00      | 170      | 300     | 365      | 64  |
| <b>ZM</b> | 20 UFL-10 ZM | 748001 | 0.320         | 2.00      | 120      | 100     | 165      | 130 |
|           | 20 UFL-15 ZM | 748002 | 0.380         | 2.00      | 120      | 150     | 215      | 108 |
|           | 20 UFL-20 ZM | 748003 | 0.430         | 2.00      | 120      | 200     | 265      | 86  |
|           | 20 UFL-25 ZM | 748004 | 0.560         | 2.00      | 170      | 250     | 315      | 75  |
|           | 20 UFL-30 ZM | 748005 | 0.600         | 2.00      | 170      | 300     | 365      | 64  |
| <b>I3</b> | 20 UFL-10 I3 | 750001 | 0.320         | 2.00      | 120      | 100     | 165      | 130 |
|           | 20 UFL-15 I3 | 750002 | 0.380         | 2.00      | 120      | 150     | 215      | 108 |
|           | 20 UFL-20 I3 | 750003 | 0.430         | 2.00      | 120      | 200     | 265      | 86  |
|           | 20 UFL-25 I3 | 750004 | 0.560         | 2.00      | 170      | 250     | 315      | 75  |
|           | 20 UFL-30 I3 | 750005 | 0.600         | 2.00      | 170      | 300     | 365      | 64  |

- Pour montage mural, sur **rail S100U** ou sur **rail STRUT 41**
- Fixation des dalles perforées par **TRCC M6x12** (EZ 648001, GM 651001, Inox 529001) ou **AGRAFTOL** (555160)
- Verrouillage du chemin de câbles fil à l'aide d'un tournevis

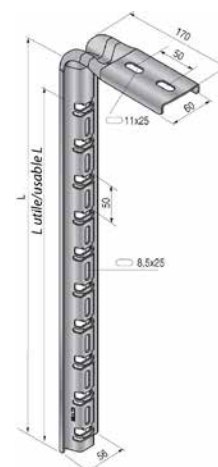
*l mm : largeur admissible du chemin de câbles ou longueur utile de la console*



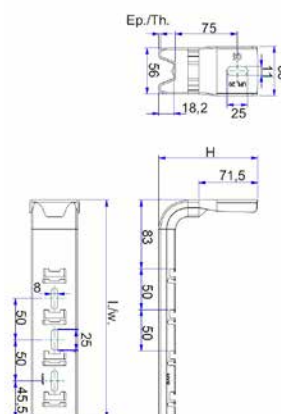
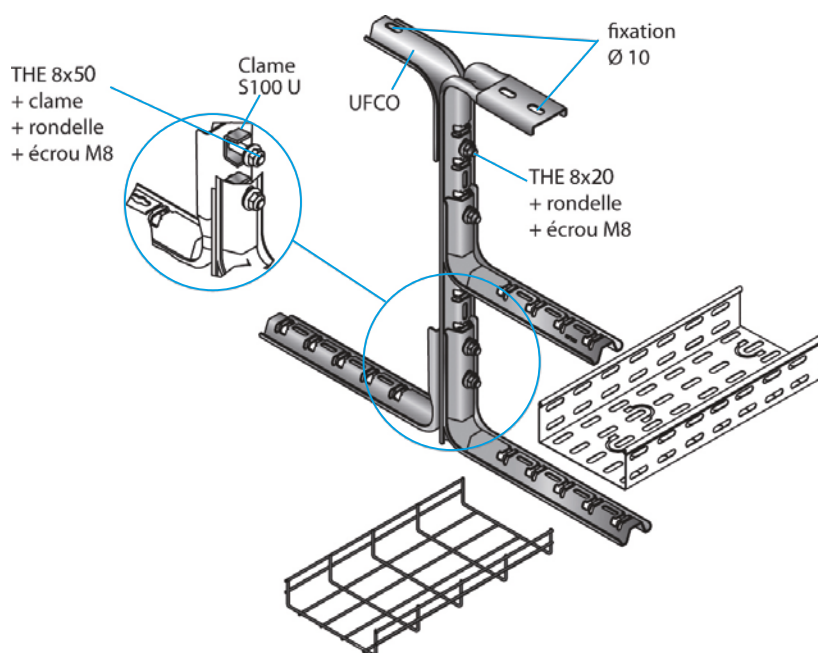
### SÉRIE S100U UFL

#### PENDARDS UFL

| p  | Désignation  | Code   | Masse<br>kg/p | Ep.<br>mm | l<br>mm | L.<br>mm | daN/m |
|----|--------------|--------|---------------|-----------|---------|----------|-------|
| SZ | 20 UFL-40 SZ | 747006 | 0.710         | 2.00      | 400     | 465      | 50    |
|    | 20 UFL-50 SZ | 747007 | 0.860         | 2.00      | 500     | 565      | 40    |
|    | 20 UFL-60 SZ | 747008 | 0.950         | 2.00      | 600     | 665      | 30    |
| p  | Désignation  | Code   | Masse<br>kg/p | Ep.<br>mm | l<br>mm | L.<br>mm | daN/m |
| ZM | 20 UFL-40 ZM | 748006 | 0.710         | 2.00      | 400     | 465      | 50    |
|    | 20 UFL-50 ZM | 748007 | 0.860         | 2.00      | 500     | 565      | 40    |
|    | 20 UFL-60 ZM | 748008 | 0.950         | 2.00      | 600     | 665      | 30    |
| p  | Désignation  | Code   | Masse<br>kg/p | Ep.<br>mm | l<br>mm | L.<br>mm | daN/m |
| I3 | 20 UFL-40 I3 | 750006 | 0.710         | 2.00      | 400     | 465      | 50    |
|    | 20 UFL-50 I3 | 750007 | 0.860         | 2.00      | 500     | 565      | 40    |
|    | 20 UFL-60 I3 | 750008 | 0.950         | 2.00      | 600     | 665      | 30    |

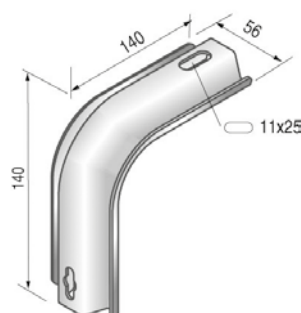


l mm : longueur utile du pendard  
L. mm : longueur totale du pendard



#### CONTREVENTEMENTS UFCO

| p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | L.<br>mm |
|----|-------------|--------|---------------|-----------|----------|----------|
| SZ | 20 UFCO SZ  | 747040 | 0.320         | 2.00      | 140      | 140      |
|    | 20 UFCO ZM  | 748040 | 0.320         | 2.00      | 140      | 140      |
| p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | L.<br>mm |
| ZM | 20 UFCO ZM  | 748040 | 0.320         | 2.00      | 140      | 140      |
|    | 20 UFCO I3  | 750040 | 0.320         | 2.00      | 140      | 140      |





**SÉRIE S100U UFL**
**SUPPORTS UFC - HAUTEUR 185**

| p  | Désignation              | Code   | Masse<br>kg/p | Ep.<br>mm | l<br>mm | L.<br>mm | daN |
|----|--------------------------|--------|---------------|-----------|---------|----------|-----|
| SZ | 20 UFC-10 120x185x100 SZ | 747010 | 0.530         | 2.00      | 100     | 165      | 122 |
|    | 20 UFC-15 120x185x150 SZ | 747011 | 0.600         | 2.00      | 150     | 215      | 100 |
|    | 20 UFC-20 120x185x200 SZ | 747012 | 0.670         | 2.00      | 200     | 265      | 81  |
|    | 20 UFC-25 170x185x250 SZ | 747013 | 0.800         | 2.00      | 250     | 315      | 65  |
|    | 20 UFC-30 170x185x300 SZ | 747014 | 0.850         | 2.00      | 300     | 365      | 50  |
|    | 20 UFC-40 170x185x400 SZ | 747015 | 0.960         | 2.00      | 400     | 465      | 40  |
| p  | Désignation              | Code   | Masse<br>kg/p | Ep.<br>mm | l<br>mm | L.<br>mm | daN |
| ZM | 20 UFC-10 120x185x100 ZM | 748010 | 0.530         | 2.00      | 100     | 165      | 122 |
|    | 20 UFC-15 120x185x150 ZM | 748011 | 0.600         | 2.00      | 150     | 215      | 100 |
|    | 20 UFC-20 120x185x200 ZM | 748012 | 0.670         | 2.00      | 200     | 265      | 81  |
|    | 20 UFC-25 170x185x250 ZM | 748013 | 0.800         | 2.00      | 250     | 315      | 65  |
|    | 20 UFC-30 170x185x300 ZM | 748014 | 0.850         | 2.00      | 300     | 365      | 50  |
|    | 20 UFC-40 170x185x400 ZM | 748015 | 0.960         | 2.00      | 400     | 465      | 40  |
| p  | Désignation              | Code   | Masse<br>kg/p | Ep.<br>mm | l<br>mm | L.<br>mm | daN |
| I3 | 20 UFC-10 120x185x100 I3 | 750010 | 0.530         | 2.00      | 100     | 165      | 122 |
|    | 20 UFC-15 120x185x150 I3 | 750011 | 0.600         | 2.00      | 150     | 215      | 100 |
|    | 20 UFC-20 120x185x200 I3 | 750012 | 0.670         | 2.00      | 200     | 265      | 81  |
|    | 20 UFC-25 170x185x250 I3 | 750013 | 0.800         | 2.00      | 250     | 315      | 65  |
|    | 20 UFC-30 170x185x300 I3 | 750014 | 0.850         | 2.00      | 300     | 365      | 50  |
|    | 20 UFC-40 170x185x400 I3 | 750015 | 0.960         | 2.00      | 400     | 465      | 40  |

Fixation des dalles perforées par **TRCC M6x12** (EZ 648001, GM 651001, Inox 529001)  
ou **AGRAFTOL** (555160)

*l mm : largeur admissible du chemin de câbles ou longueur utile de la console*

*L. mm : longueur totale de la console*

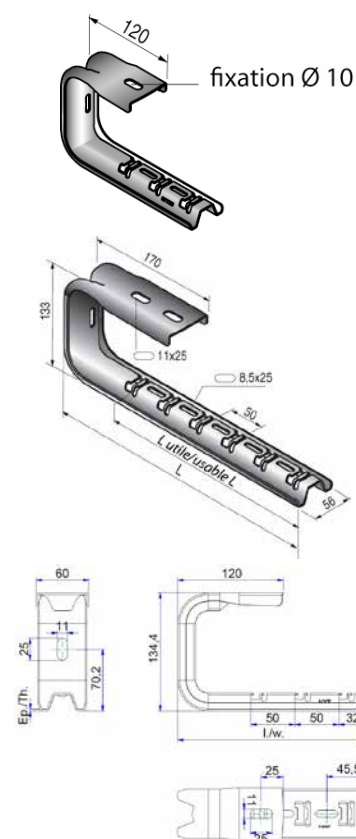
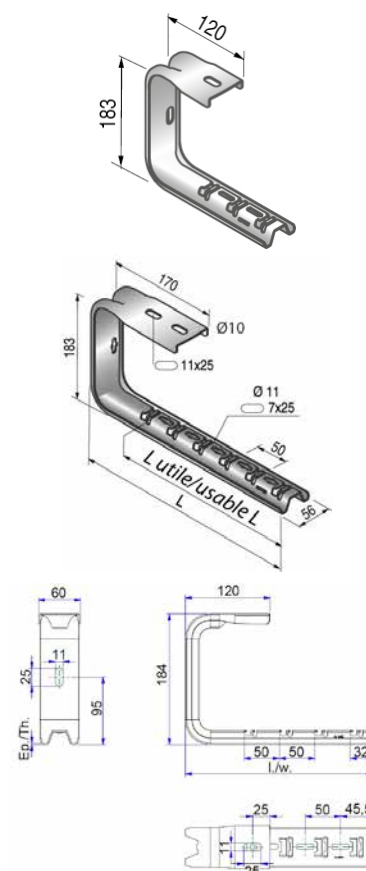
**SUPPORTS UFCC HAUTEUR 135**

| p  | Désignation               | Code   | Masse<br>kg/p | Ep.<br>mm | l<br>mm | L.<br>mm | daN |
|----|---------------------------|--------|---------------|-----------|---------|----------|-----|
| SZ | 20 UFCC-10 120x135x100 SZ | 747016 | 0.480         | 2.00      | 100     | 165      | 122 |
|    | 20 UFCC-15 120x135x150 SZ | 747017 | 0.530         | 2.00      | 150     | 215      | 100 |
|    | 20 UFCC-20 120x135x200 SZ | 747018 | 0.590         | 2.00      | 200     | 265      | 81  |
|    | 20 UFCC-25 170x135x250 SZ | 747019 | 0.710         | 2.00      | 250     | 315      | 65  |
|    | 20 UFCC-30 170x135x300 SZ | 747020 | 0.770         | 2.00      | 300     | 365      | 50  |
|    | 20 UFCC-40 170x135x400 SZ | 747021 | 0.880         | 2.00      | 400     | 465      | 40  |
| p  | Désignation               | Code   | Masse<br>kg/p | Ep.<br>mm | l<br>mm | L.<br>mm | daN |
| ZM | 20 UFCC-10 120x135x100 ZM | 748016 | 0.480         | 2.00      | 100     | 165      | 122 |
|    | 20 UFCC-15 120x135x150 ZM | 748017 | 0.530         | 2.00      | 150     | 215      | 100 |
|    | 20 UFCC-20 120x135x200 ZM | 748018 | 0.590         | 2.00      | 200     | 265      | 81  |
|    | 20 UFCC-25 170x135x250 ZM | 748019 | 0.710         | 2.00      | 250     | 315      | 65  |
|    | 20 UFCC-30 170x135x300 ZM | 748020 | 0.770         | 2.00      | 300     | 365      | 50  |
|    | 20 UFCC-40 170x135x400 ZM | 748021 | 0.880         | 2.00      | 400     | 465      | 40  |
| p  | Désignation               | Code   | Masse<br>kg/p | Ep.<br>mm | l<br>mm | L.<br>mm | daN |
| I3 | 20 UFCC-10 120x135x100 I3 | 750016 | 0.480         | 2.00      | 100     | 165      | 122 |
|    | 20 UFCC-15 120x135x150 I3 | 750017 | 0.530         | 2.00      | 150     | 215      | 100 |
|    | 20 UFCC-20 120x135x200 I3 | 750018 | 0.590         | 2.00      | 200     | 265      | 81  |
|    | 20 UFCC-25 170x135x250 I3 | 750019 | 0.710         | 2.00      | 250     | 315      | 65  |
|    | 20 UFCC-30 170x135x300 I3 | 750020 | 0.770         | 2.00      | 300     | 365      | 50  |
|    | 20 UFCC-40 170x135x400 I3 | 750021 | 0.880         | 2.00      | 400     | 465      | 40  |

Fixation des dalles perforées par **TRCC M6x12** (EZ 648001, GM 651001, Inox 529001)  
ou **AGRAFTOL** (555160)

*l mm : largeur admissible du chemin de câbles ou longueur utile de la console*

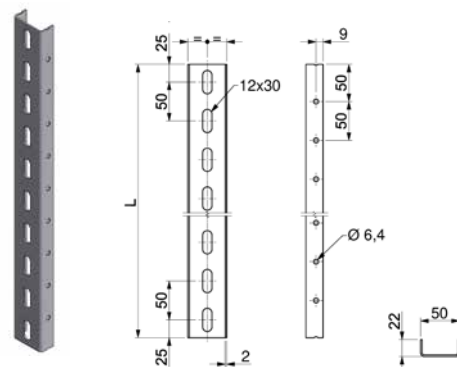
*L. mm : longueur totale de la console*



### RAIL ET SUPPORTS U 50

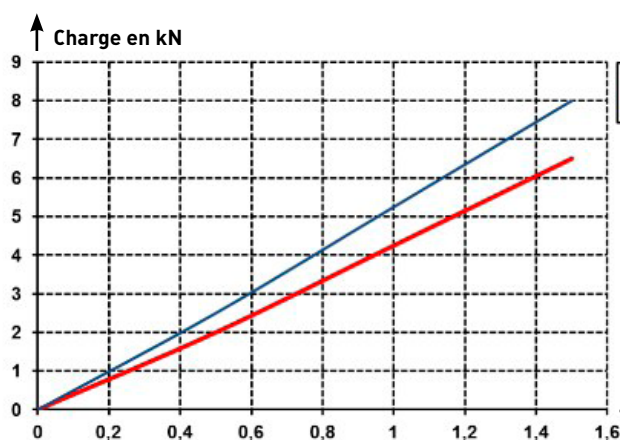
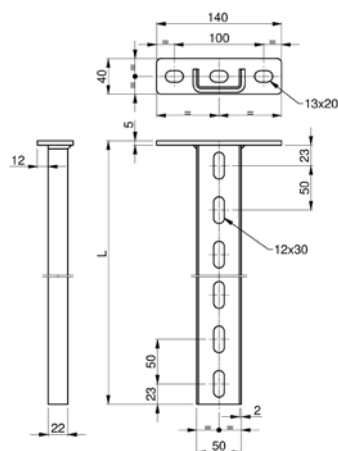
#### RAIL U 50 3M SZ

|    | m | Désignation | Code   | Masse<br>Kg/m |
|----|---|-------------|--------|---------------|
| SZ | 3 | U 50 3M SZ  | 702045 | 1.300         |

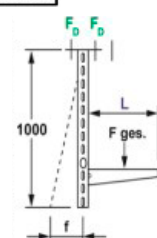


#### PENDARDS HUF 50

|    | P  | Désignation   | Code   | Masse<br>Kg/p | L.<br>mm |
|----|----|---------------|--------|---------------|----------|
| GC | 20 | HUF 50 300 GC | 701723 | 0.550         | 301      |
|    | 20 | HUF 50 400 GC | 701724 | 0.670         | 401      |
|    | 20 | HUF 50 500 GC | 701725 | 0.820         | 501      |
|    | 10 | HUF 50 600 GC | 701726 | 0.950         | 601      |
|    | 1  | HUF 50 700 GC | 701727 | 1.090         | 705      |



— HUF 50/1000 + KTU 300  
— HUF 50/1000 + KTU 400

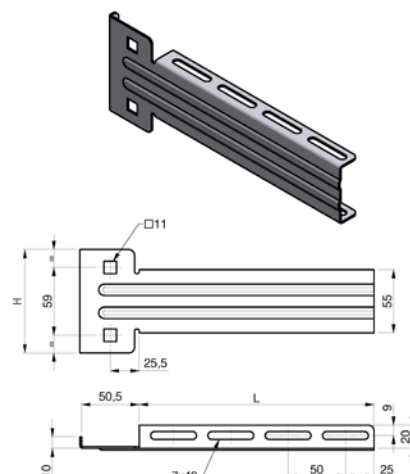


| F <sub>B</sub> | L=300 mm      | L=400 mm      |
|----------------|---------------|---------------|
| DAZ 10X10      | F max. 1,4 kN | F max. 1,1 kN |

#### CONSOLES KTUM

|    | P  | Désignation | Code   | Masse<br>Kg/p | L.<br>mm | daN | H.<br>mm |
|----|----|-------------|--------|---------------|----------|-----|----------|
| SZ | 20 | KTUM 100 SZ | 701739 | 0.240         | 105      | 120 | 73       |
|    | 20 | KTUM 150 SZ | 701740 | 0.290         | 155      | 120 | 73       |
|    | 20 | KTUM 200 SZ | 701741 | 0.330         | 205      | 120 | 73       |
|    | 20 | KTUM 300 SZ | 701743 | 0.470         | 305      | 120 | 73       |
|    | 20 | KTUM 400 SZ | 701744 | 0.780         | 405      | 120 | 83       |

Livrée avec 2 boulons TRCC M6x12 GM + 1 TRCC M10x25 GM

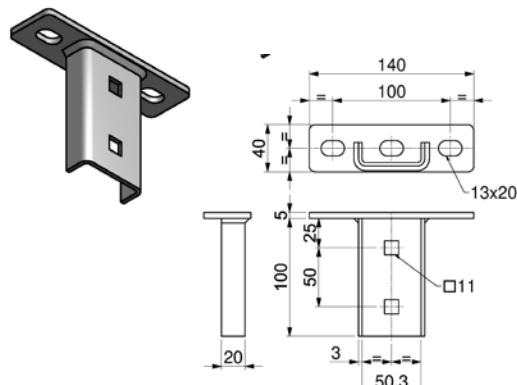


### RAIL ET SUPPORTS U 50

#### PLAQUE DE TÊTE KU 50

| P  | Désignation | Code   | Masse<br>Kg/p | L.<br>mm |
|----|-------------|--------|---------------|----------|
| GC | 20 KU 50 GC | 702070 | 0.400         | 105      |

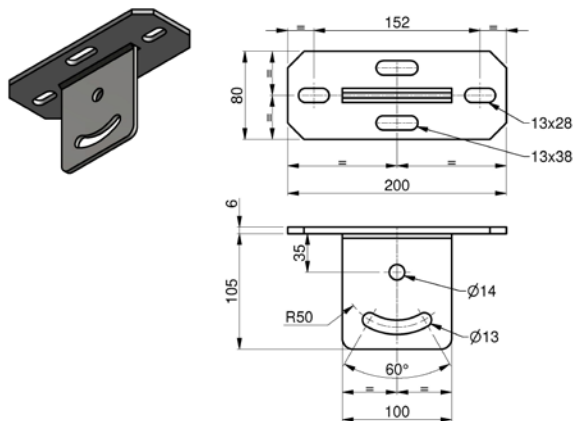
Livrée avec 2 boulons TRCC M10x25 GM



#### PLAQUE DE TÊTE KUGV 50

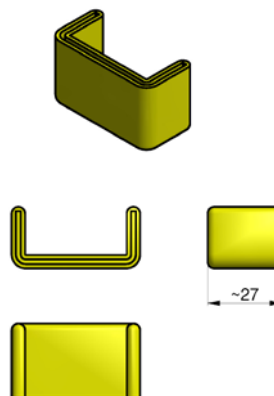
| P  | Désignation   | Code   | Masse<br>Kg/p |
|----|---------------|--------|---------------|
| GC | 10 KUGV 50 GC | 702085 | 0.900         |

Livrée avec 2 boulons TRCC M10x25 GM



#### EMBOUT K 50

| P   | Désignation | Code   | Masse<br>Kg/p |
|-----|-------------|--------|---------------|
| PVC | 10 K 50 PVC | 703709 | 2.500         |



#### ENTRETOISE UD 24

| p  | Désignation | Code   | Masse<br>Kg/p |
|----|-------------|--------|---------------|
| SZ | 20 UD 24 SZ | 701751 | 0.170         |

Livrée avec 1 boulon TRCC M10x50 GM



### SÉRIE S150U

#### Système universel pour chemins de câbles fil ou tôle

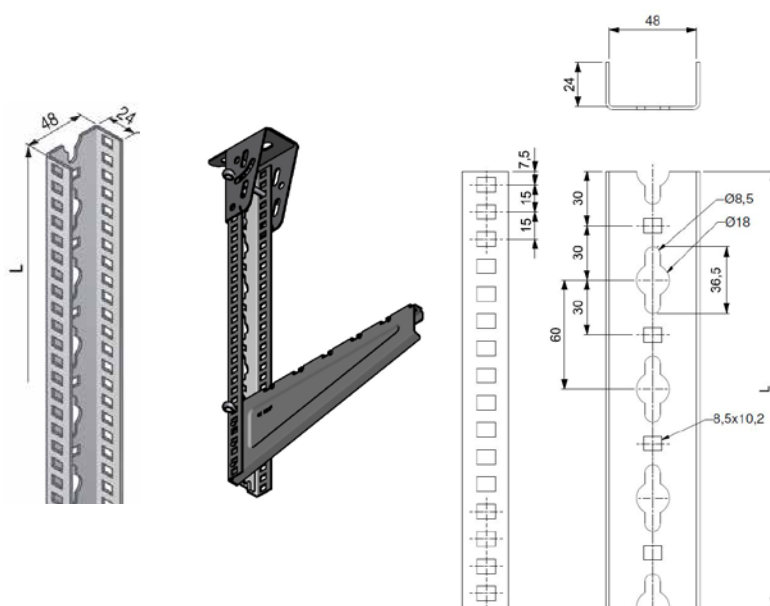
- **Sécurisant** : le montage des consoles dans l'échelle ne peut être déboîté
- **Rapide** : encliquetage sans boulons
- Fixation murale directe
- Fixation sur **échelle S150U** pour pendard simple, double ou dos à dos
- Fixation sur **rail STRUT 41**

#### ÉCHELLES S150U AU MÈTRE

| m  | Désignation              | Code          | Masse<br>kg/ml |
|----|--------------------------|---------------|----------------|
| SZ | 1 S150U 1M EP2 SZ        | <b>757106</b> | 1.028          |
|    | 2 S150U 2M EP2 SZ        | <b>757101</b> | 1.028          |
|    | 3 <b>S150U 3M EP2 SZ</b> | <b>757102</b> | 1.028          |
| m  | Désignation              | Code          | Masse<br>kg/ml |
| ZM | 1 S150U 1M EP2 ZM        | <b>758106</b> | 1.028          |
|    | 2 S150U 2M EP2 ZM        | <b>758101</b> | 1.028          |
|    | 3 S150U 3M EP2 ZM        | <b>758102</b> | 1.028          |

#### ÉCHELLES S150U À LA PIÈCE

| p  | Désignation        | Code          | Masse<br>kg/p |
|----|--------------------|---------------|---------------|
| SZ | 1 S150Ux250 EP2 SZ | <b>757107</b> | 0.260         |
|    | 1 S150Ux500 EP2 SZ | <b>757108</b> | 0.581         |
| p  | Désignation        | Code          | Masse<br>kg/p |
| ZM | 1 S150Ux250 EP2 ZM | <b>758107</b> | 0.260         |
|    | 1 S150Ux500 EP2 ZM | <b>758108</b> | 0.520         |



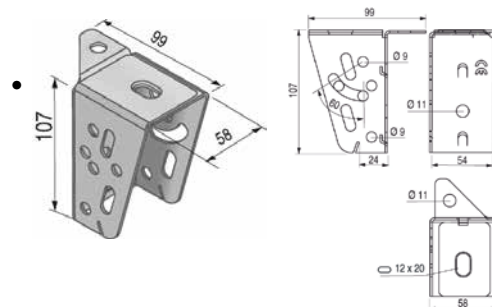
#### GOUSSETS S150U À ERGOTS

Montage sur rail S150U par encliquetage, sans boulon.

##### 1 seule pièce, 4 fonctions :

- gousset simple ou orientable
- gousset de pied
- double gousset pour pendard double

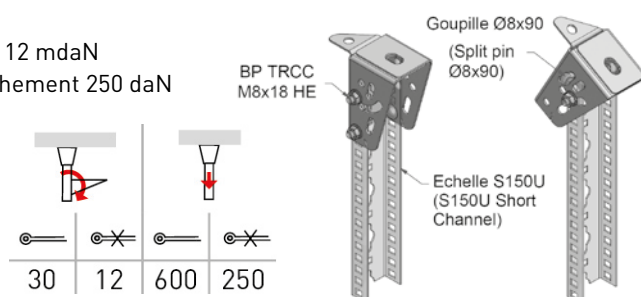
| p  | Désignation                      | Code          | Masse<br>kg/p | Ep.<br>mm | m.daN | daN |
|----|----------------------------------|---------------|---------------|-----------|-------|-----|
| SZ | 20 <b>GOUSSET S150U ERGOT SZ</b> | <b>757201</b> | 0.264         | 2.00      | 30    | 600 |
|    |                                  |               |               |           |       |     |
| p  | Désignation                      | Code          | Masse<br>kg/p | Ep.<br>mm | m.daN | daN |
| ZM | 20 <b>GOUSSET S150U ERGOT ZM</b> | <b>758201</b> | 0.264         | 2.00      | 30    | 600 |
|    |                                  |               |               |           |       |     |



#### Les charges sont données pour montage avec goupille de sécurité

Sans goupille :

- Moment fléchissant 12 mdaN
- Résistance à l'arrachement 250 daN



30 | 12 | 600 | 250

Sécurisation par Goupille 8x90  
et TRCC 8x18 si CPS → 250 daN  
ou → 12m.daN

### SÉRIE S150U

#### CONSOLES S150U

|    | p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | l<br>mm | L<br>mm | daN | daN |
|----|----|-------------|--------|---------------|-----------|----------|---------|---------|-----|-----|
| SZ | 20 | C100N SZ    | 757021 | 0.130         | 1.20      | 77       | 100     | 118     | 70  | 90  |
|    | 20 | C150N SZ    | 757022 | 0.160         | 1.00      | 77       | 150     | 168     | 75  | 90  |
|    | 20 | C200N SZ    | 757023 | 0.180         | 1.00      | 77       | 200     | 218     | 55  | 120 |
|    | 20 | C300N SZ    | 757024 | 0.470         | 1.00      | 107      | 300     | 318     | 130 | 190 |
|    | 20 | C400N SZ    | 757025 | 0.540         | 1.00      | 107      | 400     | 417     | 110 | 150 |
|    | 10 | C500N SZ    | 757026 | 1.110         | 2.00      | 134      | 500     | 518     | 150 | 165 |
|    | 10 | C600N SZ    | 757027 | 1.240         | 2.00      | 134      | 600     | 618     | 115 | 125 |
|    | p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | l<br>mm | L<br>mm | daN | daN |
| ZM | 20 | C100N ZM    | 758021 | 0.130         | 1.20      | 77       | 100     | 118     | 70  | 90  |
|    | 20 | C150N ZM    | 758022 | 0.160         | 1.00      | 77       | 150     | 168     | 75  | 90  |
|    | 20 | C200N ZM    | 758023 | 0.180         | 1.00      | 77       | 200     | 218     | 55  | 120 |
|    | 20 | C300N ZM    | 758024 | 0.470         | 1.00      | 107      | 300     | 318     | 130 | 190 |
|    | 20 | C400N ZM    | 758025 | 0.540         | 1.00      | 107      | 400     | 417     | 110 | 150 |
|    | 10 | C500N ZM    | 758026 | 1.110         | 2.00      | 134      | 500     | 518     | 150 | 165 |
|    | 10 | C600N ZM    | 758027 | 1.240         | 2.00      | 134      | 600     | 618     | 115 | 125 |

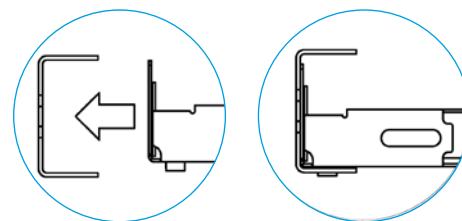
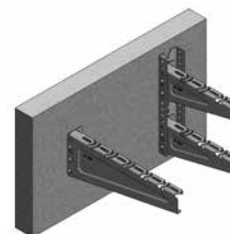
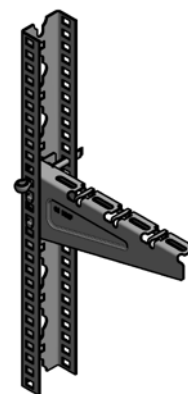
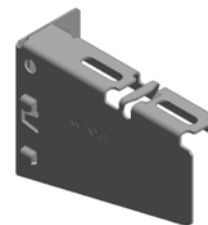
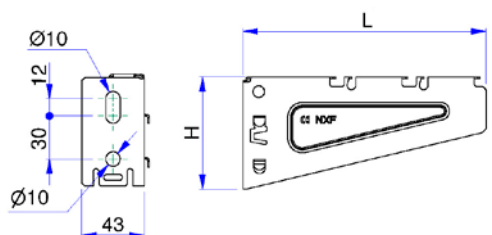
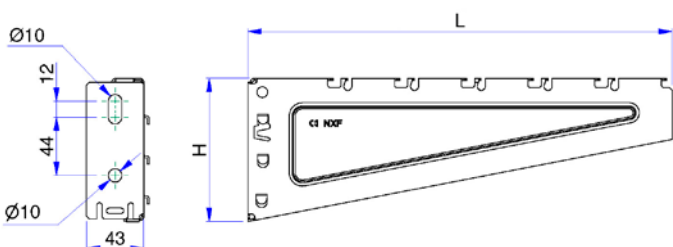
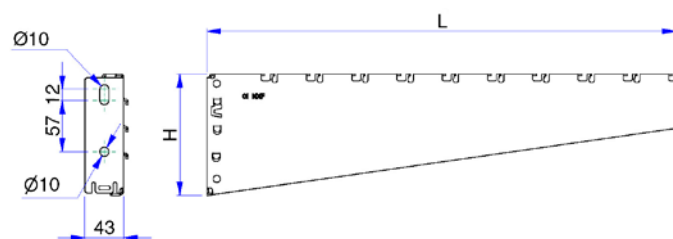
- Montage mural direct Ø 8 à 12 mm, sur échelle à **console S150U** ou sur **rail STRUT 41**

Fixation des dalles perforées par **TRCC M6x12** (EZ 648001, GM 651001, Inox 529001) ou **AGRAFTOL** (555160)

**CPS sur rail : les valeurs indiquées correspondent à un montage avec goupille**

*l mm : largeur admissible du chemin de câbles ou longueur utile de la console*

*L mm : longueur totale de la console*





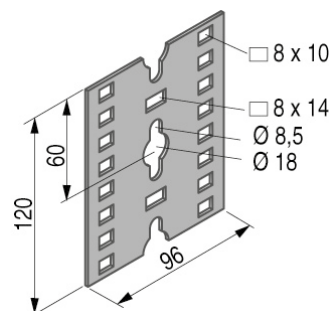
## SÉRIE S150U

## ENTRETOISES S150U

|           |  p | Désignation         | Code          | Masse<br>kg/p |
|-----------|-------------------------------------------------------------------------------------|---------------------|---------------|---------------|
| <b>SZ</b> | 50                                                                                  | ENTRETOISE S150U SZ | <b>757202</b> | 0.137         |

|                                                                                   |  p | Désignation         | Code          | Masse<br>kg/p |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|---------------|---------------|
|  | 50                                                                                  | ENTRETOISE S150U ZM | <b>758202</b> | 0.137         |

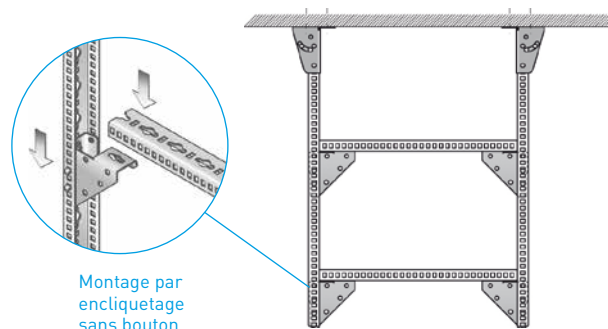
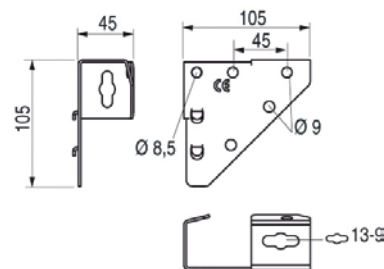
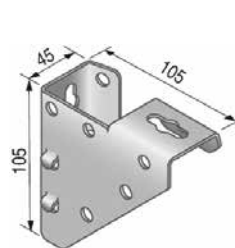
- Fixation par BP TRCC M8x18



## ÉQUERRES S150U À ERGOTS

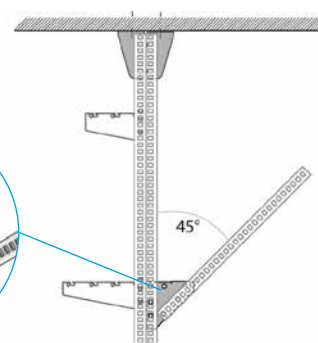
|           |  p | Désignation  | Code          | Masse<br>kg/p |
|-----------|-------------------------------------------------------------------------------------|--------------|---------------|---------------|
| <b>SZ</b> | 20                                                                                  | EQU S150U SZ | <b>757205</b> | 0.181         |

|           |  p | Désignation  | Code          | Masse<br>kg/p |
|-----------|-------------------------------------------------------------------------------------|--------------|---------------|---------------|
| <b>ZM</b> | 20                                                                                  | EQU S150U ZM | <b>758205</b> | 0.182         |



Sécurisation possible par TRCC M8x18 ou goupille 8x90

TRCC M8x18



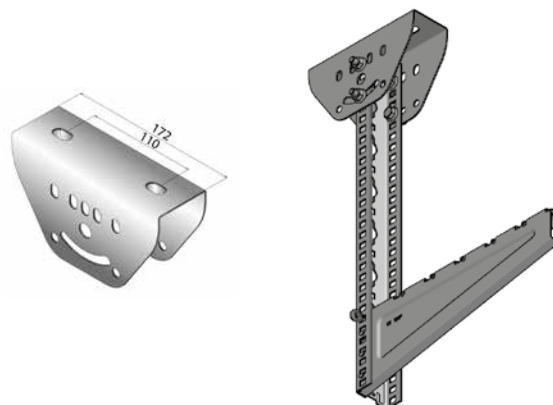
## GOUSSET G10 B

|           |  | Désignation      | Code          | Masse<br>kg/p | Ep.<br>mm |
|-----------|-------------------------------------------------------------------------------------|------------------|---------------|---------------|-----------|
| <b>SZ</b> | 10                                                                                  | <b>G 10 B SZ</b> | <b>613021</b> | 0.464         | 1.75      |

|    |  |             |               |               |           |
|----|-------------------------------------------------------------------------------------|-------------|---------------|---------------|-----------|
|    | p                                                                                   | Désignation | Code          | Masse<br>kg/p | Ep.<br>mm |
| GC | 10                                                                                  | G 10 B GC   | <b>614021</b> | 0.510         | 1.75      |

|    |  |             |               |               |           |
|----|-------------------------------------------------------------------------------------|-------------|---------------|---------------|-----------|
|    | p                                                                                   | Désignation | Code          | Masse<br>kg/p | Ep.<br>mm |
| I2 | 10                                                                                  | G 10 B I2   | <b>616021</b> | 0.400         | 1.50      |

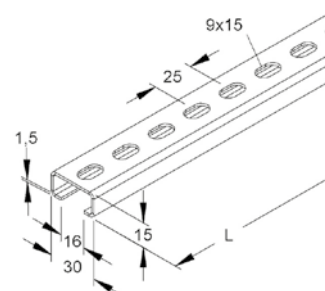
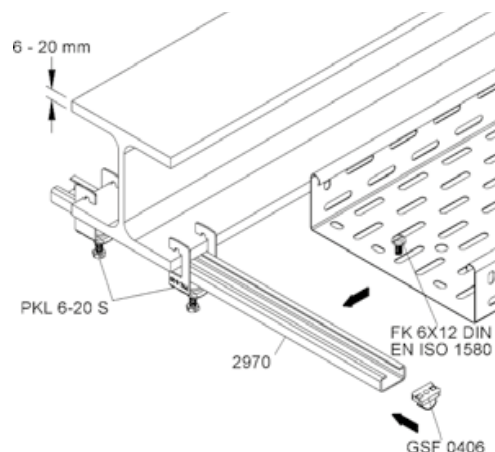
**Pour confection de pendants :** Montant S150U.



### RAIL 2970

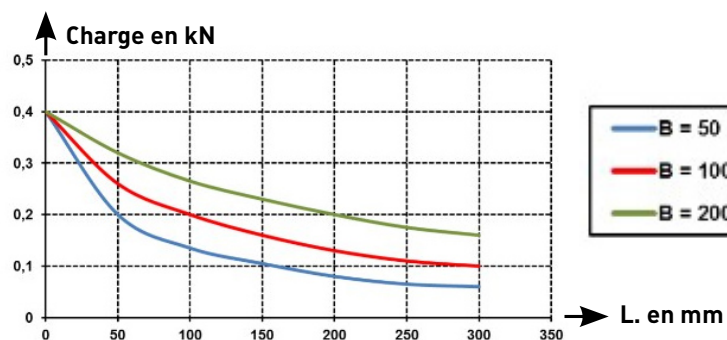
#### RAIL 2970

|    | m | Désignation          | Code   | Masse<br>Kg/ml |
|----|---|----------------------|--------|----------------|
| SZ | 2 | Rail 2970 30x15 P 2M | 700503 | 0.650          |



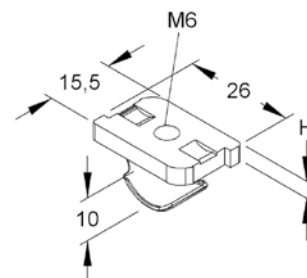
#### SUPPORT PKL

|    | p  | Désignation | Code   | Masse<br>Kg/p |
|----|----|-------------|--------|---------------|
| SZ | 25 | PKL 6-20 SZ | 702164 | 0.050         |



#### ECROU GSF

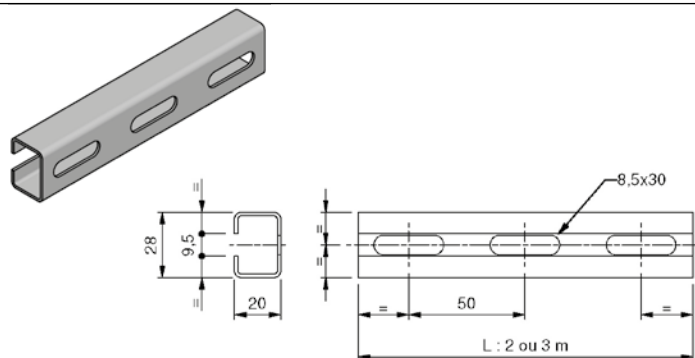
|    | p  | Désignation    | Code   | Masse<br>Kg/p |
|----|----|----------------|--------|---------------|
| SZ | 25 | GSF 0406 M6 EZ | 701551 | 0.010         |



## SU 28

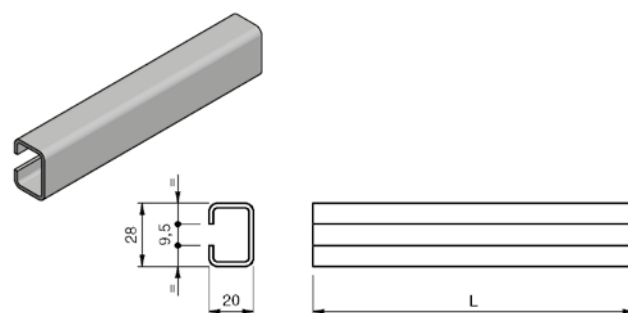
### RAILS C28 PERFORÉS

| m         | Désignation       | Code          | Masse<br>kg/ml | Ep.<br>mm |
|-----------|-------------------|---------------|----------------|-----------|
| <b>SZ</b> | 2 C 28x20 P 2M SZ | <b>652606</b> | 0.810          | 1.50      |
|           | 3 C 28x20 P 3M SZ | <b>652605</b> | 2.538          | 1.50      |



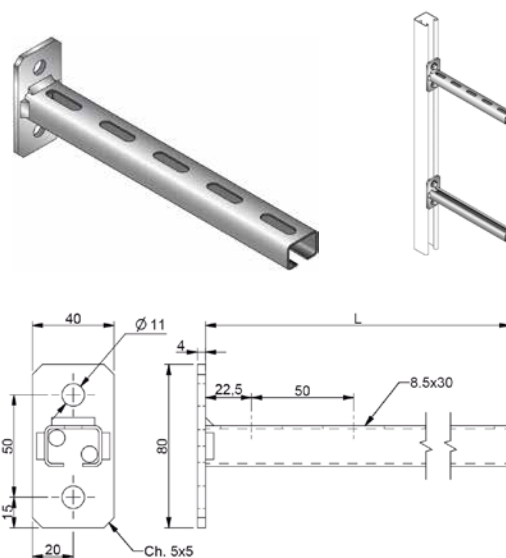
### RAILS C 28

| m         | Désignation          | Code          | Masse<br>kg/ml | Ep.<br>mm | H.<br>mm |
|-----------|----------------------|---------------|----------------|-----------|----------|
| <b>SZ</b> | 4 C 28x20x2.00 4M SZ | <b>019301</b> | 1.114          | 2.00      | 20       |



### CONSOLES SU 28

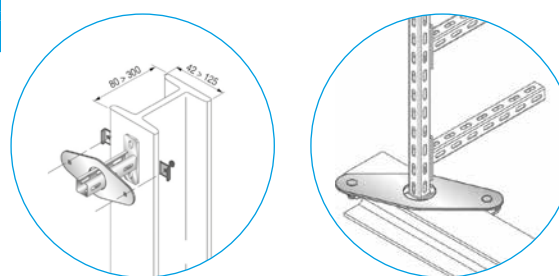
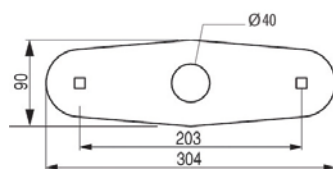
| p         | Désignation     | Code          | Masse<br>kg/p | Ep.<br>mm | L.<br>mm | daN |
|-----------|-----------------|---------------|---------------|-----------|----------|-----|
| <b>EZ</b> | 20 SU 28/150 EZ | <b>677801</b> | 0.219         | 1.50      | 150      | 150 |
|           | 20 SU 28/200 EZ | <b>677802</b> | 0.259         | 1.50      | 200      | 100 |
|           | 20 SU 28/250 EZ | <b>677803</b> | 0.299         | 1.50      | 250      | 90  |
|           | 20 SU 28/300 EZ | <b>677804</b> | 0.339         | 1.50      | 300      | 80  |
| p         | Désignation     | Code          | Masse<br>kg/p | Ep.<br>mm | L.<br>mm | daN |
| <b>GC</b> | 20 SU 28/150 GC | <b>678801</b> | 0.240         | 1.50      | 150      | 150 |
|           | 20 SU 28/200 GC | <b>678802</b> | 0.285         | 1.50      | 200      | 100 |
|           | 20 SU 28/250 GC | <b>678803</b> | 0.320         | 1.50      | 250      | 90  |
|           | 20 SU 28/300 GC | <b>678804</b> | 0.373         | 1.50      | 300      | 80  |



Fixation directe murale ou sur rail

### BRIDE SU 28

| p         | Désignation      | Code          | Masse<br>kg/p | Ep.<br>mm | L.<br>mm | l.<br>mm |
|-----------|------------------|---------------|---------------|-----------|----------|----------|
| <b>GC</b> | 1 BRIDE SU 28 GC | <b>012275</b> | 0.860         | 4.00      | 304      | 91       |

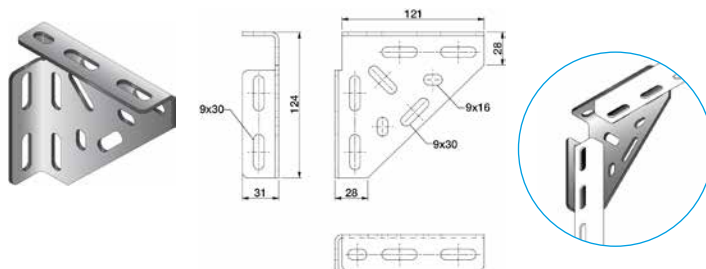


**SU 28**
**ÉQUERRE SU 28**

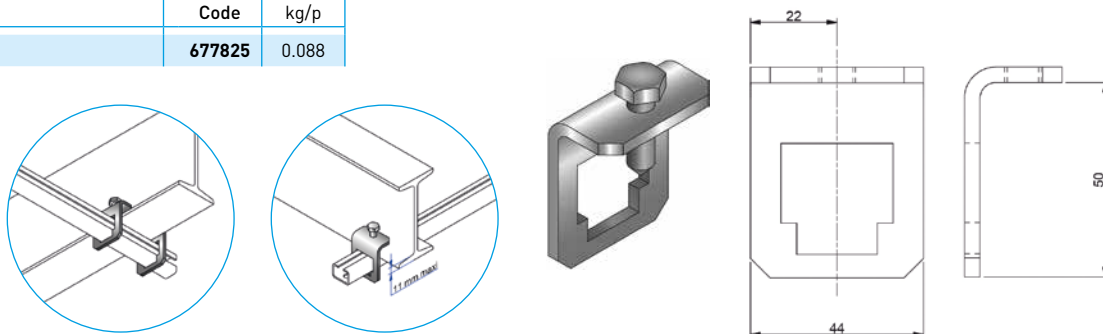
|    | p  | Désignation  | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|--------------|--------|---------------|-----------|
| SZ | 40 | EQU SU 28 SZ | 677820 | 0.311         | 3.00      |

Prévoir :

- **PSKB11** pour fixation (BP TRCC M8x40 HE)


**CRAPAUD SU 28**

|    | p  | Désignation      | Code   | Masse<br>kg/p |
|----|----|------------------|--------|---------------|
| SZ | 50 | CRAPAUD SU 28 SZ | 677825 | 0.088         |


**EMBOUT SU 28**

|     | p  | Désignation     | Code   | Masse<br>kg/p |
|-----|----|-----------------|--------|---------------|
| PVC | 50 | EMBOUT SU 28 M2 | 687231 | 0.003         |

Embout réalisé en plastisol de qualité M2, polymérisé à chaud, destiné à coiffer l'extrémité libre des C28x20 ou SU28.

- Il assure la protection des personnes contre les chocs.
- Etudié et mis au point à la demande des constructeurs de matériel ferroviaire, il a subi les essais de résistance au feu\*.

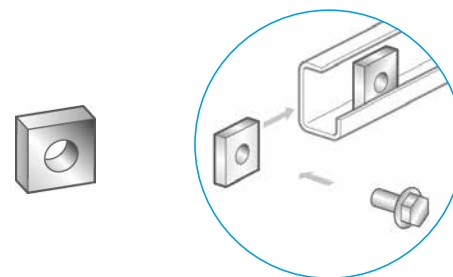
\*Essais de résistance au feu suivant LNE.


**ECROUS CARRÉ SU 28**

|    | p   | Désignation  | Code   | Masse<br>kg/100 |
|----|-----|--------------|--------|-----------------|
| EZ | 100 | ECC286 M6 EZ | 023260 | 1.300           |
|    | 100 | ECC288 M8 EZ | 023259 | 1.600           |

Prévoir :

- Vis TRL M6x15 pour M6
- Vis TH M8x20 pour M8


**ECROU LOSANGE SU 28**

|    | p   | Désignation  | Code   | Masse<br>kg/100 | Ep.<br>mm |
|----|-----|--------------|--------|-----------------|-----------|
| EZ | 100 | ECL286 M6 EZ | 023261 | 0.700           | 5.00      |

Prévoir :

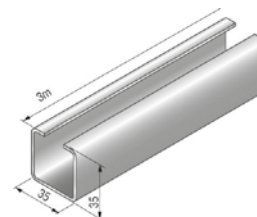
- Vis TRL M6x15



## SU 35

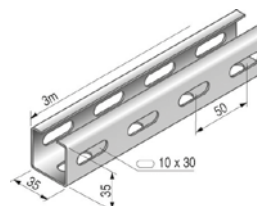
### RAIL C35

|    | m | Désignation        | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---|--------------------|--------|----------------|-----------|
| SZ | 3 | C 35x35x2.00 3M SZ | 019350 | 1.900          | 2.00      |



### RAILS PERFORÉS 3 FACES C35

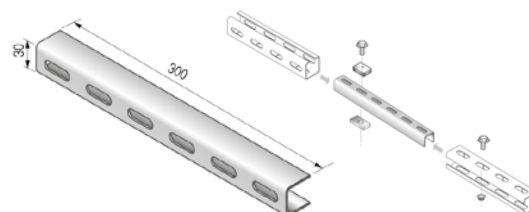
|    | m | Désignation          | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---|----------------------|--------|----------------|-----------|
| SZ | 3 | C 35x35 3M P10x30 SZ | 019360 | 1.465          | 2.00      |
|    | m | Désignation          | Code   | Masse<br>kg/ml | Ep.<br>mm |
| GC | 3 | C 35x35 3M P10x30 GC | 019362 | 1.611          | 2.00      |



### ÉCLISSE INTÉRIEURE EIC35

|    | p  | Désignation  | Code   | Masse<br>kg/p | Ep.<br>mm | L.<br>mm |
|----|----|--------------|--------|---------------|-----------|----------|
| SZ | 10 | EIC35x300 SZ | 019365 | 0.350         | 2.00      | 300      |

Boulonnerie 2 x THE M8x20 + 2 x losange M8

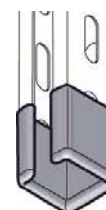


### EMBOUT C35

|     | p  | Désignation       | Code   | Masse<br>kg/p |
|-----|----|-------------------|--------|---------------|
| PVC | 10 | EMBOUT C 35x35 M2 | 023975 | 0.030         |

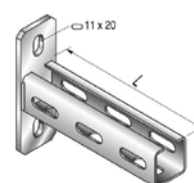
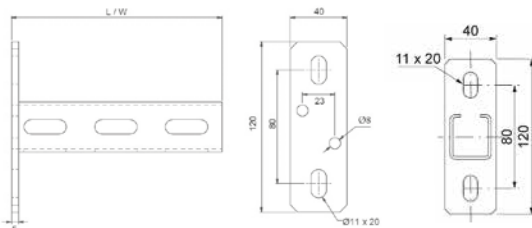
Embout réalisé en plastisol de qualité M2, polymérisé à chaud, destiné à coiffer l'extrémité libre des C35x35 ou SU35. Il assure la protection des personnes contre les chocs. Etudié et mis au point à la demande des constructeurs de matériel ferroviaire, il a subi les essais de résistance au feu\*.

\*Essais de résistance au feu suivant LNE.



### CONSOLES SU 35

|    | p  | Désignation  | Code   | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | L.<br>mm | daN |
|----|----|--------------|--------|---------------|-----------|----------|----------|-----|
| GC | 20 | SU 35/250 GC | 012312 | 0.580         | 1.00      | 120      | 250      | 210 |
|    | 20 | SU 35/350 GC | 012313 | 0.740         | 2.00      | 120      | 350      | 130 |
|    | 20 | SU 35/500 GC | 012314 | 1.000         | 2.00      | 120      | 500      | 95  |



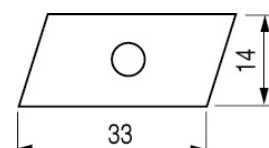
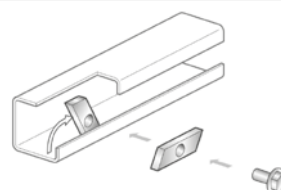
**Boulon M8 SU 45 023580**  
Composé de :  
Vis TH M8 x 25  
Rondelle M Ø8  
Ecrou rectangulaire 38x40 M8

**Boulon M10 SU 45 023581**  
Composé de :  
Vis TH M10 x 30  
Rondelle M Ø10  
Ecrou rectangulaire 38x40 M10

**Boulon M12 SU 45 023582**  
Composé de :  
Vis TH M12 x 35  
Rondelle M Ø12  
Ecrou rectangulaire 38x40 M12

### ECROUS LOSANGE C35

|    | p   | Désignation  | Code   | Masse<br>kg/p |
|----|-----|--------------|--------|---------------|
| EZ | 100 | ECL356 M6 EZ | 023262 | 2.200         |
|    | 100 | ECL358 M8 EZ | 023255 | 1.900         |

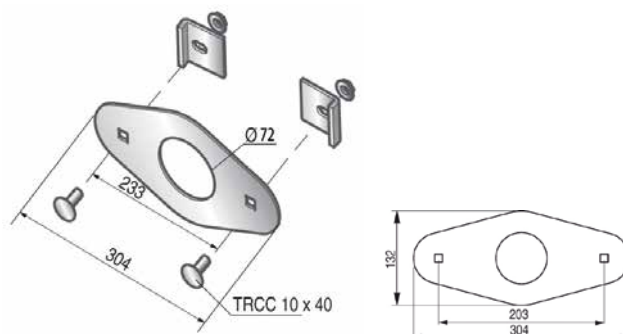
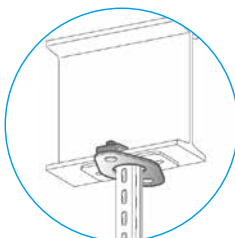
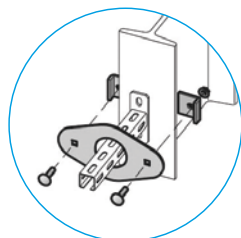


Prévoir Vis TRL M6x20 ou Vis THE M8x20

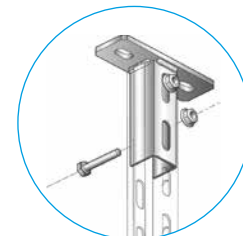
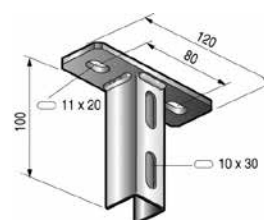
**ACCESSOIRES SU 35**
**BRIDE SU 35**

| p  | Désignation          | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----------------------|--------|---------------|-----------|
| GC | 10 BRIDE SU 35 45 GC | 012277 | 1.335         | 5.00      |

Pour IPE et IPN de dimensions comprises entre 80 et 300 mm  
Livrée avec boulons et accessoires  
Compatible **console SU 35**

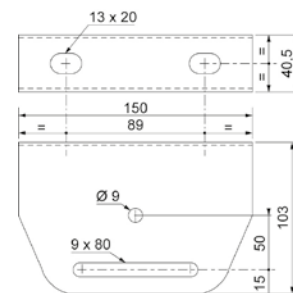
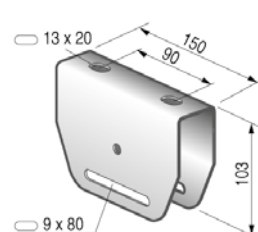
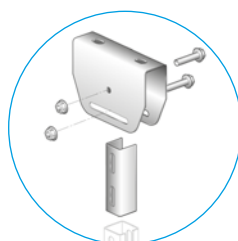
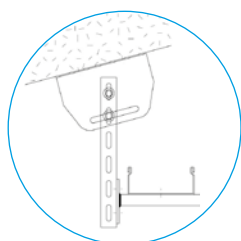
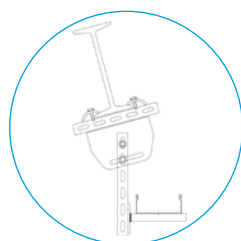

**PLAQUE DE TÊTE C 35**

| p  | Désignation   | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|---------------|--------|---------------|-----------|
| GC | 20 PDT C35 GC | 012325 | 0.370         | 3.00      |


**GOUSSET ORIENTABLE C 35**

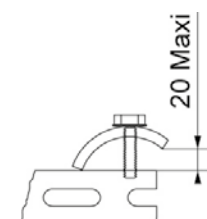
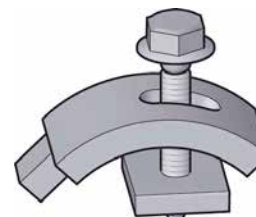
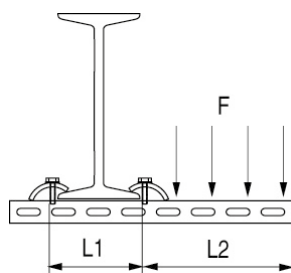
| p  | Désignation  | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|--------------|--------|---------------|-----------|
| SZ | 10 GO C35 SZ | 012096 | 0.734         | 2.00      |

Livré avec boulonnerie et entretoise


**CRAPAUD TYPE B C35**

| p  | Désignation              | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|--------------------------|--------|---------------|-----------|
| GC | 10 CRAPAUD C35 TYPE B GC | 019610 | 0.157         | 8.00      |

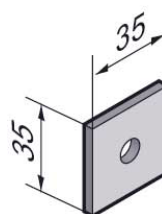
| L1 ou L2<br>mm | F<br>daN |
|----------------|----------|
| 100            | 300      |
| 200            | 200      |
| 300            | 133      |
| 400            | 100      |
| 500            | 80       |



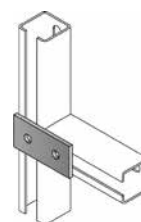
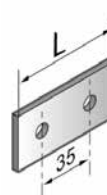


**ACCESSOIRES SU 35**
**CARRÉ 35X35**

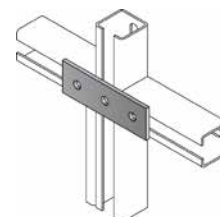
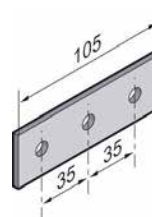
|    | p  | Désignation    | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|----------------|--------|---------------|-----------|
| EZ | 50 | CARRÉ 35x35 EZ | 019700 | 0.040         | 4.00      |


**RECTANGLE 70X35**

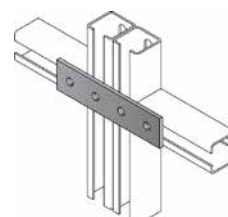
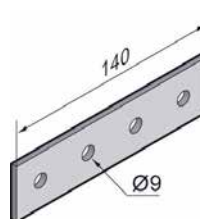
|    | p  | Désignation        | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|--------------------|--------|---------------|-----------|
| EZ | 50 | RECTANGLE 70x35 EZ | 019701 | 0.070         | 4.00      |


**RECTANGLE 105X35**

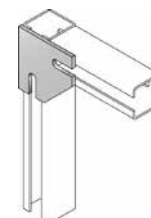
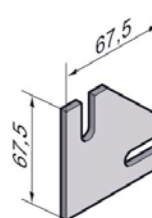
|    | p  | Désignation         | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|---------------------|--------|---------------|-----------|
| EZ | 50 | RECTANGLE 105x35 EZ | 019702 | 0.110         | 4.00      |


**RECTANGLE 140X35**

|    | p  | Désignation         | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|---------------------|--------|---------------|-----------|
| EZ | 50 | RECTANGLE 140x35 EZ | 019703 | 0.150         | 4.00      |

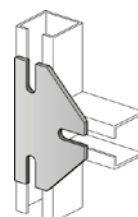
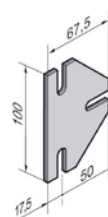

**GOUSSET 90D C 35**

|    | p  | Désignation          | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|----------------------|--------|---------------|-----------|
| EZ | 20 | GOUSSET 90 C35x35 EZ | 019705 | 0.110         | 4.00      |

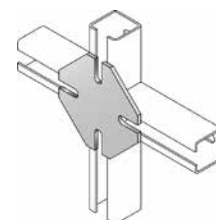
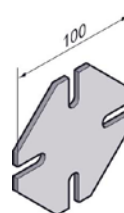


**ACCESSOIRES SU 35**
**GOUSSET T 180D C 35**

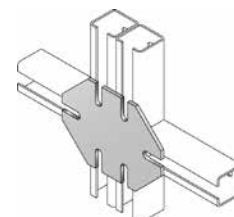
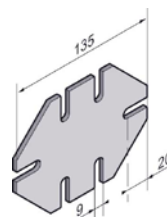
|    | p  | Désignation              | Code          | Masse<br>kg/p | Ep.<br>mm |
|----|----|--------------------------|---------------|---------------|-----------|
| EZ | 20 | GOUSSET T 180D C35x35 EZ | <b>019706</b> | 0.150         | 4.00      |


**GOUSSET CROIX 360D C 35**

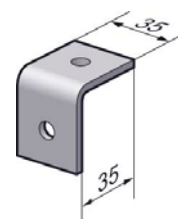
|    | p  | Désignation                  | Code          | Masse<br>kg/p | Ep.<br>mm |
|----|----|------------------------------|---------------|---------------|-----------|
| EZ | 20 | GOUSSET CROIX 360D C35x35 EZ | <b>019707</b> | 0.210         | 4.00      |


**GOUSSET DOUBLE CROIX C 35**

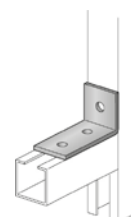
|    | p  | Désignation                    | Code          | Masse<br>kg/p | Ep.<br>mm |
|----|----|--------------------------------|---------------|---------------|-----------|
| EZ | 20 | GOUSSET DOUBLE CROIX C35x35 EZ | <b>019708</b> | 0.310         | 4.00      |


**ÉQUERRE 90D 35X35**

|    | p  | Désignation      | Code          | Masse<br>kg/p | Ep.<br>mm |
|----|----|------------------|---------------|---------------|-----------|
| EZ | 20 | EQU 90D 35x35 EZ | <b>019711</b> | 0.070         | 4.00      |

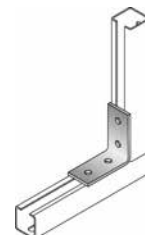
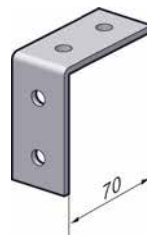

**ÉQUERRE 90D 35X70**

|    | p  | Désignation      | Code          | Masse<br>kg/p | Ep.<br>mm |
|----|----|------------------|---------------|---------------|-----------|
| EZ | 50 | EQU 90D 35x70 EZ | <b>019712</b> | 0.110         | 4         |

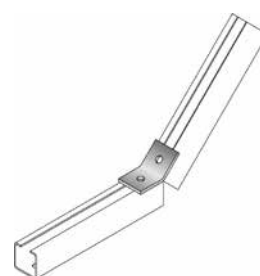
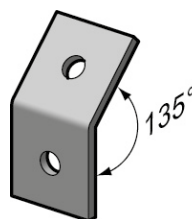


**ACCESSOIRES SU 35**
**ÉQUERRE 90D 70X70**

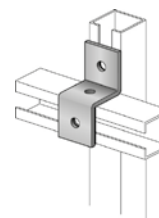
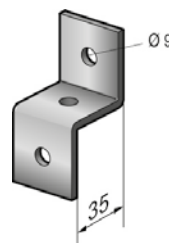
|    | p  | Désignation      | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|------------------|--------|---------------|-----------|
| EZ | 50 | EQU 90D 70x70 EZ | 019713 | 0.150         | 4.00      |


**ÉQUERRE 135D 35X35**

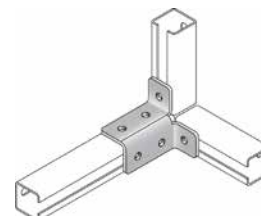
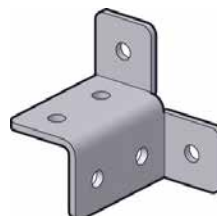
|    | p  | Désignation       | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|-------------------|--------|---------------|-----------|
| EZ | 50 | EQU 135D 35x35 EZ | 019714 | 0.070         | 4.00      |


**ÉQUERRE Z 35X35X35**

|    | p  | Désignation          | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|----------------------|--------|---------------|-----------|
| EZ | 50 | EQU EN Z 35x35x35 EZ | 019715 | 0.110         | 4.00      |


**RACCORD 3 DIRECTIONS C 35**

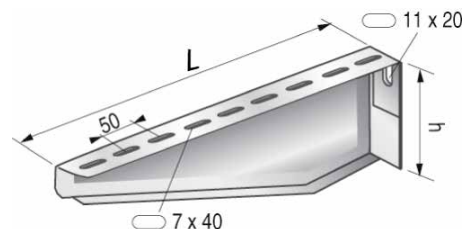
|    | p  | Désignation          | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|----------------------|--------|---------------|-----------|
| EZ | 20 | RACCORD 3D C35x35 EZ | 019720 | 0.210         | 4.00      |



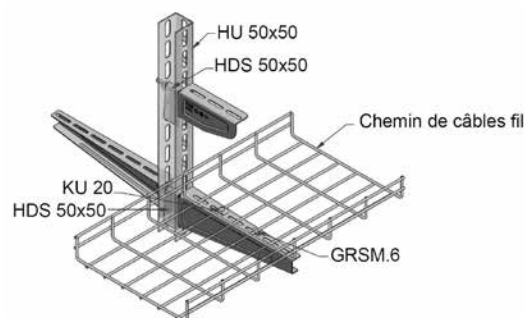
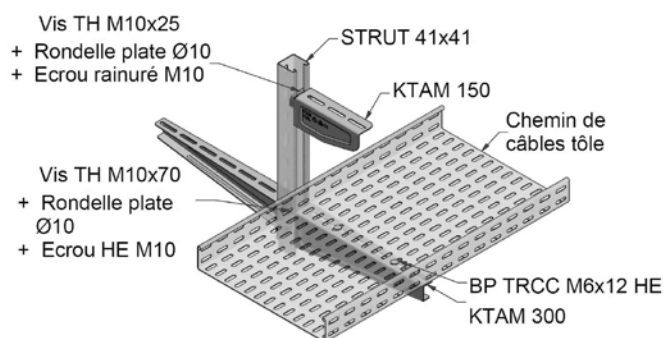
## CONSOLES MURALES

## CONSOLES KTAM

|    |  |             |               | Masse | l   |  | H.  | L.  |
|----|-----------------------------------------------------------------------------------|-------------|---------------|-------|-----|-----------------------------------------------------------------------------------|-----|-----|
|    | p                                                                                 | Désignation | Code          | Kg/p  | mm  | daN                                                                               | mm  | mm  |
| SZ | 20                                                                                | KTAM 100 SZ | <b>701986</b> | 0.200 | 100 | 120                                                                               | 60  | 110 |
|    | 20                                                                                | KTAM 150 SZ | <b>709855</b> | 0.219 | 150 | 120                                                                               | 60  | 160 |
|    | 20                                                                                | KTAM 200 SZ | <b>701987</b> | 0.300 | 200 | 120                                                                               | 80  | 210 |
|    | 20                                                                                | KTAM 300 SZ | <b>701988</b> | 0.440 | 300 | 150                                                                               | 82  | 320 |
|    | 20                                                                                | KTAM 400 SZ | <b>701989</b> | 0.500 | 400 | 150                                                                               | 82  | 420 |
|    | 10                                                                                | KTAM 500 SZ | <b>701990</b> | 1.060 | 500 | 120                                                                               | 115 | 510 |
|    | 10                                                                                | KTAM 600 SZ | <b>701991</b> | 1.400 | 600 | 120                                                                               | 115 | 610 |



|    |  |             |               | Masse | l   |  | H. | L.  |
|----|-----------------------------------------------------------------------------------|-------------|---------------|-------|-----|-----------------------------------------------------------------------------------|----|-----|
|    | p                                                                                 | Désignation | Code          | Kg/p  | mm  | daN                                                                               | mm | mm  |
| GC | 20                                                                                | KTAM 100 GC | <b>709935</b> | 0.220 | 100 | 120                                                                               | 60 | 110 |
|    | 20                                                                                | KTAM 150 GC | <b>709936</b> | 0.240 | 150 | 120                                                                               | 60 | 160 |
|    | 20                                                                                | KTAM 200 GC | <b>709937</b> | 0.330 | 200 | 120                                                                               | 80 | 210 |
|    | 20                                                                                | KTAM 300 GC | <b>709938</b> | 0.480 | 300 | 150                                                                               | 82 | 320 |
|    | 20                                                                                | KTAM 400 GC | <b>709873</b> | 0.550 | 400 | 150                                                                               | 82 | 420 |

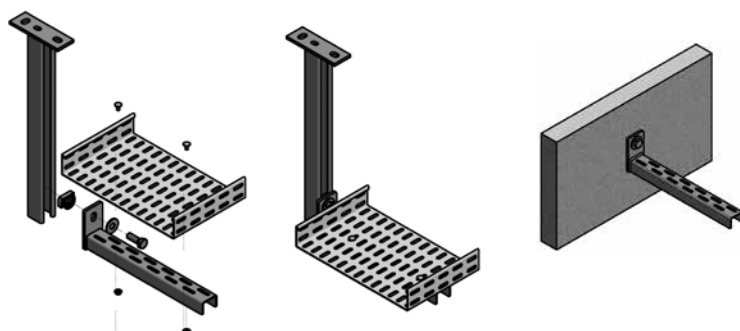
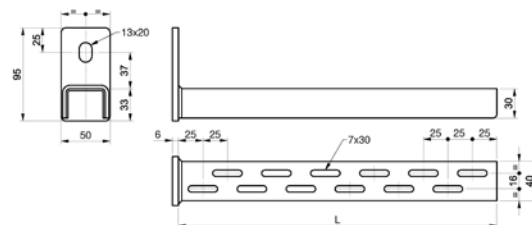


## CONSOLES PLATES

|    |  |             |               |               |  |          |          |
|----|-------------------------------------------------------------------------------------|-------------|---------------|---------------|-------------------------------------------------------------------------------------|----------|----------|
|    | p                                                                                   | Désignation | Code          | Masse<br>Kg/p | daN                                                                                 | H.<br>mm | L.<br>mm |
| EZ | 20                                                                                  | CPN 100 EZ  | <b>613170</b> | 0.385         | 300                                                                                 | 95       | 125      |
|    | 10                                                                                  | CPN 200 EZ  | <b>613172</b> | 0.520         | 200                                                                                 | 95       | 225      |
|    | 10                                                                                  | CPN 300 EZ  | <b>613173</b> | 0.655         | 150                                                                                 | 95       | 325      |
|    | 10                                                                                  | CPN 400 EZ  | <b>613174</b> | 0.790         | 105                                                                                 | 95       | 425      |
|    | 10                                                                                  | CPN 500 EZ  | <b>613175</b> | 0.925         | 95                                                                                  | 95       | 525      |
|    | 10                                                                                  | CPN 600 EZ  | <b>613176</b> | 1.060         | 70                                                                                  | 95       | 625      |



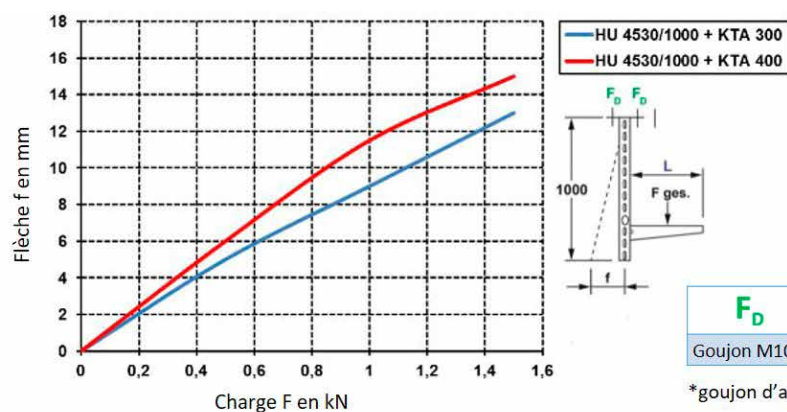
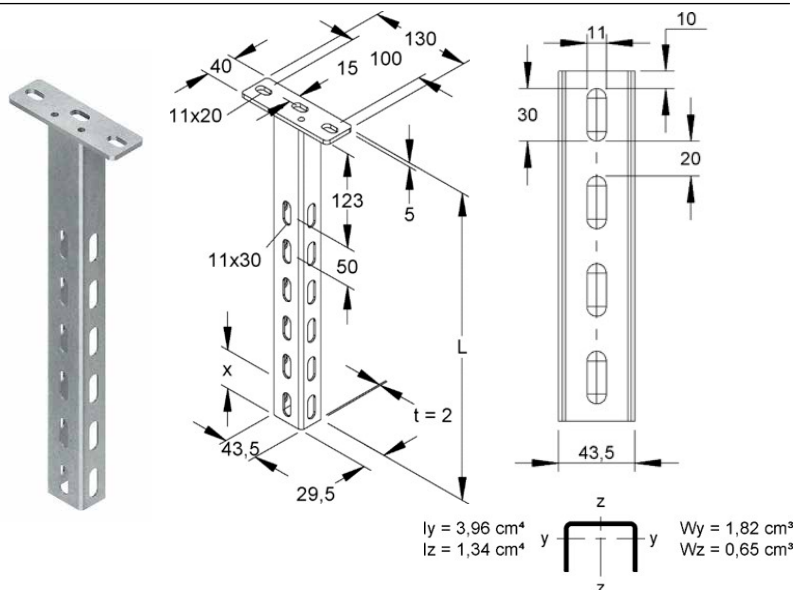
|    |  |             |               |               |  |          |          |
|----|-------------------------------------------------------------------------------------|-------------|---------------|---------------|-------------------------------------------------------------------------------------|----------|----------|
|    | p                                                                                   | Désignation | Code          | Masse<br>Kg/p | daN                                                                                 | H.<br>mm | L.<br>mm |
| GC | 20                                                                                  | CPN 100 GC  | <b>614170</b> | 0.424         | 300                                                                                 | 95       | 125      |
|    | 10                                                                                  | CPN 200 GC  | <b>614172</b> | 0.572         | 200                                                                                 | 95       | 225      |
|    | 10                                                                                  | CPN 300 GC  | <b>614173</b> | 0.721         | 150                                                                                 | 95       | 325      |
|    | 10                                                                                  | CPN 400 GC  | <b>614174</b> | 0.869         | 105                                                                                 | 95       | 425      |
|    | 10                                                                                  | CPN 500 GC  | <b>614175</b> | 1.018         | 95                                                                                  | 95       | 525      |
|    | 10                                                                                  | CPN 600 GC  | <b>614176</b> | 1.166         | 70                                                                                  | 95       | 625      |



## GAMME 4530

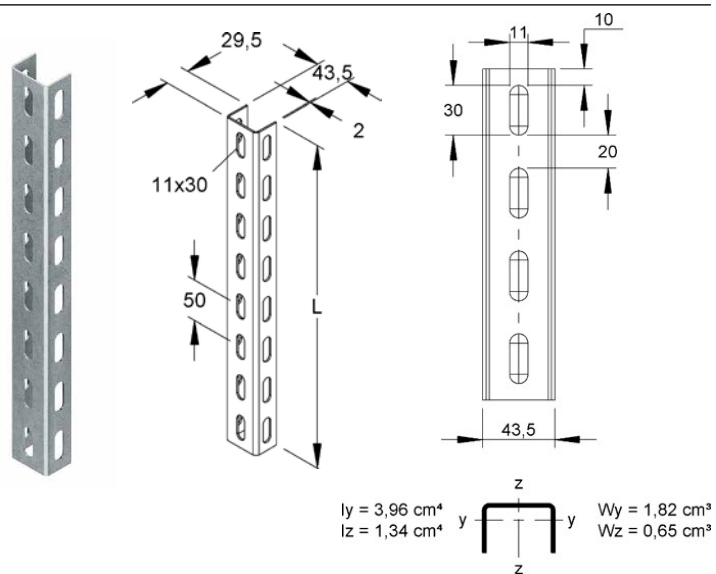
**PENDARD HU 4530**

|    |  |                 |               |               |
|----|-----------------------------------------------------------------------------------|-----------------|---------------|---------------|
|    | p                                                                                 | Désignation     | Code          | Masse<br>Kg/p |
| GC | 1                                                                                 | HU 4530 200 GC  | <b>710665</b> | 0.489         |
|    | 1                                                                                 | HU 4530 250 GC  | <b>710666</b> | 0.563         |
|    | 1                                                                                 | HU 4530 300 GC  | <b>710667</b> | 0.623         |
|    | 1                                                                                 | HU 4530 400 GC  | <b>710668</b> | 0.757         |
|    | 1                                                                                 | HU 4530 500 GC  | <b>710669</b> | 0.891         |
|    | 1                                                                                 | HU 4530 600 GC  | <b>710670</b> | 1.025         |
|    | 1                                                                                 | HU 4530 700 GC  | <b>710671</b> | 1.166         |
|    | 1                                                                                 | HU 4530 800 GC  | <b>710672</b> | 1.300         |
|    | 1                                                                                 | HU 4530 900 GC  | <b>710673</b> | 1.435         |
|    | 1                                                                                 | HU 4530 1000 GC | <b>710674</b> | 1.569         |
|    | 1                                                                                 | HU 4530 1100 GC | <b>710675</b> | 1.703         |
|    | 1                                                                                 | HU 4530 1200 GC | <b>710676</b> | 1.837         |



# RAIL U 4530

|           |                                                                                     |              |               |                |           |
|-----------|-------------------------------------------------------------------------------------|--------------|---------------|----------------|-----------|
|           |  | Désignation  | Code          | Masse<br>Kg/ml | Ep.<br>mm |
| <b>SZ</b> | 3                                                                                   | U 4530 3M SZ | <b>710706</b> | 1.220          | 2.00      |
|           |  | Désignation  | Code          | Masse<br>Kg/ml | Ep.<br>mm |
| <b>GC</b> | 3                                                                                   | U 4530 3M GC | <b>710718</b> | 1.342          | 2.00      |



## EMBOUT SKU 4530

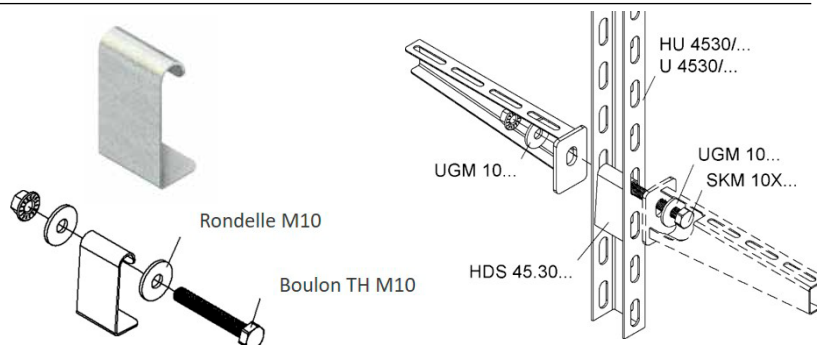
|     |  | Désignation  | Code          | Masse<br>Kg/p |
|-----|-------------------------------------------------------------------------------------|--------------|---------------|---------------|
| PVC | 50                                                                                  | SKU 4530 PVC | <b>710694</b> | 0.010         |



**GAMME 4530**
**ENTRETOISE HDS 4530**

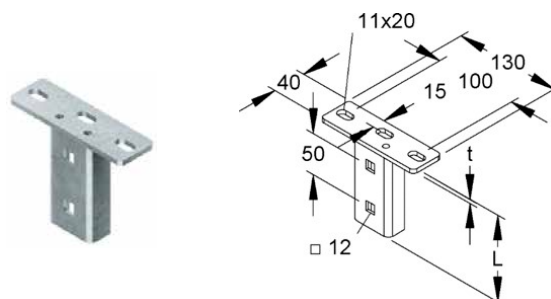
|    | p  | Désignation | Code   | Masse<br>Kg/p |
|----|----|-------------|--------|---------------|
| GC | 50 | HDS 4530 GC | 710691 | 0.144         |

Livrée avec 1 boulon TH + HE M10x80 GM  
et 2 rondelles M10 GM


**PLAQUE DE TETE KU 4530**

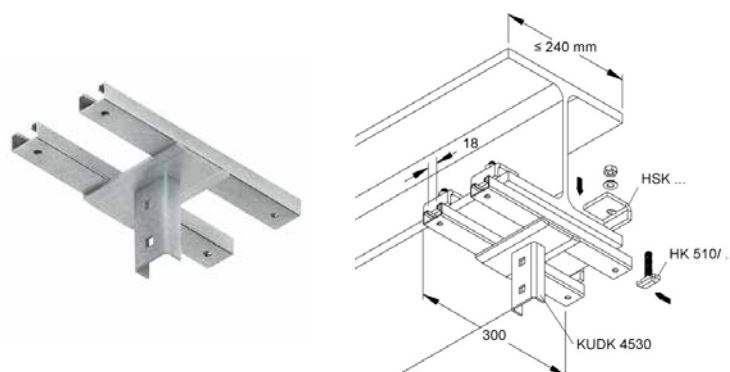
|    | p | Désignation    | Code   | Masse<br>kg/p |
|----|---|----------------|--------|---------------|
| GC | 1 | PDT KU 4530 GC | 710591 | 0.487         |
| I2 | 1 | PDT KU 4530 I2 | 710723 | 0.457         |
| I3 | 1 | PDT KU 4530 I3 | 710724 | 0.456         |

Livrée avec 2 boulons TRCC M10x25


**PLAQUE DE TETE DOUBLE KUDK 4530**

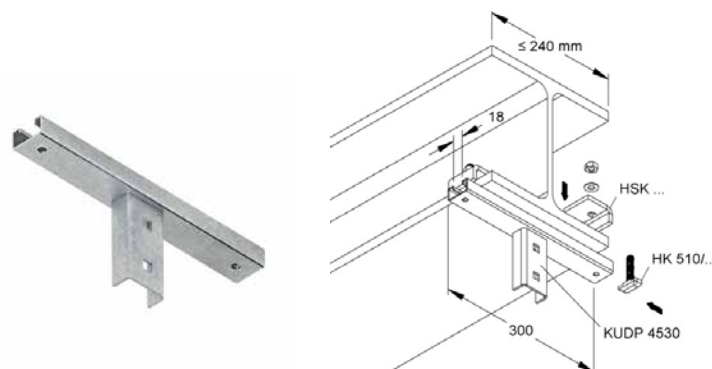
|    | p | Désignation  | Code   | Masse<br>Kg/p |
|----|---|--------------|--------|---------------|
| GC | 1 | KUDK 4530 GC | 710727 | 1.829         |

Livrée avec 2 BP TRCC M10x25 GM


**PLAQUE DE TETE KUDP 4530**

|    | p | Désignation  | Code   | Masse<br>Kg/p |
|----|---|--------------|--------|---------------|
| GC | 2 | KUDP 4530 GC | 710730 | 0.819         |

Livrée avec 2 BP TRCC M10x25 GM





## RAILS CRANTÉS STRUT 41

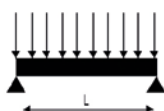
Disponible en Inox sur demande

Pour toute application de supportage lourd de 150 à 500 daN

### AVANTAGES :

- Universel : convient pour tout type de charges et tout type de produits
- 100% adaptable : réglage en continu le long du rail, toute configuration possible grâce à la gamme complète de ferrures et de fixations
- Economique : gain de 50% par rapport à la construction traditionnelle mécano-soudée
- Sécurité renforcée grâce au crantage anti-glissement des rails

Toute la gamme STRUT 41 est réalisable en inox sur demande



### Recommandations techniques :

CHARGES MAX. CONSEILLÉES (en daN/m). Ces charges ont été calculées pour une flèche max. 1/100 de la portée.

MODULE ÉLASTICITÉ 21000 DAN/MM<sup>2</sup>. CONTRAINTE MAXI 160 N/MM<sup>2</sup>

| PORTÉE<br>MM | RAIL STRUT<br>41 x 21 x 1,75<br>PERFORÉ | RAIL STRUT<br>41 x 21 x 2,5<br>PERFORÉ | RAIL STRUT<br>41 x 41 x 1,75<br>PERFORÉ | RAIL STRUT<br>41 x 41 x 2,5<br>PERFORÉ | RAIL STRUT 3F<br>41 x 41 x 1,75<br>PERFORÉ | RAIL STRUT 3F<br>41 x 41 x 2,5<br>PERFORÉ | RAIL STRUT<br>41 x 21 x 1,75<br>DOS À DOS | RAIL STRUT<br>41 x 21 x 2,5<br>DOS À DOS | RAIL STRUT<br>41 x 41 x 1,75<br>DOS À DOS | RAIL STRUT<br>41 x 41 x 2,5<br>DOS À DOS |
|--------------|-----------------------------------------|----------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------|-------------------------------------------|------------------------------------------|
| 500          | 200                                     | 254                                    | 589                                     | 782                                    | 573                                        | 761                                       | 570                                       | 754                                      | 1727                                      | 2344                                     |
| 750          | 96                                      | 123                                    | 393                                     | 521                                    | 382                                        | 507                                       | 380                                       | 502                                      | 1151                                      | 1563                                     |
| 1000         | 54                                      | 69                                     | 295                                     | 391                                    | 286                                        | 381                                       | 285                                       | 377                                      | 864                                       | 1172                                     |
| 1250         | 35                                      | 44                                     | 198                                     | 265                                    | 184                                        | 246                                       | 188                                       | 249                                      | 691                                       | 938                                      |
| 1500         | 24                                      | 31                                     | 138                                     | 184                                    | 128                                        | 171                                       | 131                                       | 173                                      | 576                                       | 781                                      |
| 1750         | 18                                      | 23                                     | 101                                     | 135                                    | 94                                         | 126                                       | 96                                        | 127                                      | 493                                       | 670                                      |
| 2000         | 14                                      | 17                                     | 77                                      | 103                                    | 72                                         | 96                                        | 74                                        | 97                                       | 432                                       | 586                                      |
| 2250         | 11                                      | 14                                     | 61                                      | 82                                     | 57                                         | 76                                        | 58                                        | 77                                       | 353                                       | 478                                      |
| 2500         | 9                                       | 11                                     | 50                                      | 66                                     | 46                                         | 62                                        | 47                                        | 62                                       | 286                                       | 388                                      |
| 2750         | 7                                       | 9                                      | 41                                      | 55                                     | 38                                         | 51                                        | 39                                        | 51                                       | 236                                       | 320                                      |
| 3000         | 6                                       | 8                                      | 34                                      | 46                                     | 32                                         | 42                                        | 33                                        | 43                                       | 198                                       | 269                                      |

### MODES DE CHARGEMENT COURANT DES RAILS ET CONSOLES

Le tableau de charges ci-dessus a été réalisé pour une poutre entre appuis simples aux extrémités et uniformément chargée.

Les autres configurations peuvent être étudiées au travers des coefficients multiplicateurs (k) suivants.

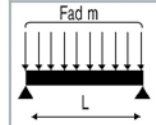
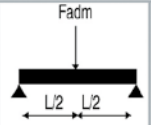
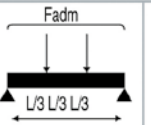
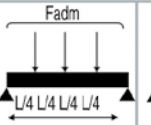
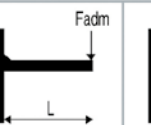
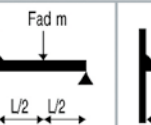
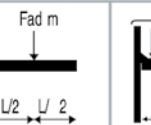
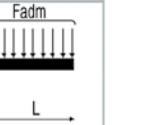
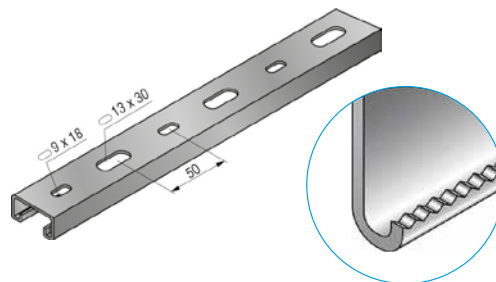
| CONDITIONS DE CHARGEMENT ET SUPPORTAGE                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |
| • k : 1,00<br>• k : 1,00                                                            | • k : 0,50<br>• k : 0,50                                                            | • k : 0,75<br>• k : 0,75                                                            | • k : 0,75<br>• k : 0,75                                                            | • k : 1,00<br>• k : 1,00                                                            | • k : 0,12<br>• k : 0,12                                                             | • k : 0,66<br>• k : 0,66                                                              | • k : 0,25<br>• k : 0,25                                                              | • k : 0,25<br>• k : 0,25                                                              |

TABLEAU TECHNIQUE DES RAILS (finition SZ)

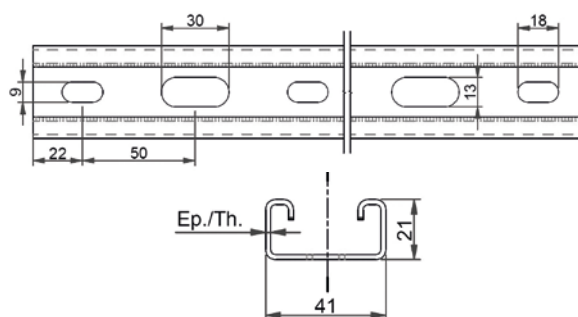
| RAIL          | DIMENSIONS | DESCRIPTION | ÉPAISSEUR<br>mm | SECTION<br>mm <sup>2</sup> | MOMENT D'INERTIE   |                    | MODULE D'INERTIE       |                        |
|---------------|------------|-------------|-----------------|----------------------------|--------------------|--------------------|------------------------|------------------------|
|               |            |             |                 |                            | Ix mm <sup>4</sup> | Iy mm <sup>4</sup> | Ix / V mm <sup>3</sup> | Iy / V mm <sup>3</sup> |
| RAIL STRUT    | 41 x 21    | perforé     | 1,75            | 173,3                      | 8395               | 40760              | 783                    | 1988                   |
| RAIL STRUT    | 41 x 21    | perforé     | 2,5             | 238,7                      | 10736              | 54709              | 993                    | 2669                   |
| RAIL STRUT    | 41 x 41    | perforé     | 1,75            | 245,1                      | 47999              | 68412              | 2302                   | 3337                   |
| RAIL STRUT    | 41 x 41    | perforé     | 2,5             | 341,2                      | 64128              | 92745              | 3054                   | 4524                   |
| RAIL STRUT 3F | 41 x 21    | perforé     | 1,75            | 245,1                      | 47548              | 53090              | 2198                   | 2590                   |
| RAIL STRUT 3F | 41 x 21    | perforé     | 2,5             | 341,2                      | 63465              | 71575              | 2909                   | 3491                   |
| RAIL STRUT    | 41 x 21    | dos à dos   | 1,75            | 346,6                      | 45618              | 82160              | 2225                   | 4008                   |
| RAIL STRUT    | 41 x 21    | dos à dos   | 2,5             | 477,5                      | 60359              | 110333             | 2944                   | 5382                   |
| RAIL STRUT    | 41 x 41    | dos à dos   | 1,75            | 490,1                      | 276625             | 137464             | 6747                   | 6706                   |
| RAIL STRUT    | 41 x 41    | dos à dos   | 2,5             | 682,5                      | 375453             | 186406             | 9157                   | 9093                   |

**RAILS CRANTÉS STRUT 41**
**STRUT 41X21 PERFORÉS - PS 500**

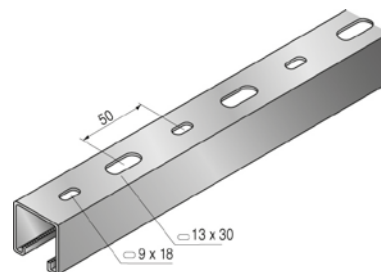
|    | m | Désignation              | Code   | Masse<br>Kg/ml | Ep.<br>mm |
|----|---|--------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT 41x21x1.75 P 3M SZ | 652005 | 1.236          | 1.75      |
|    | 6 | STRUT 41x21x1.75 P 6M SZ | 652007 | 1.236          | 1.75      |
|    | m | Désignation              | Code   | Masse<br>Kg/ml | Ep.<br>mm |
| GC | 3 | STRUT 41x21x1.75 P 3M GC | 653005 | 1.360          | 1.75      |
|    | 6 | STRUT 41x21x1.75 P 6M GC | 653007 | 1.360          | 1.75      |


**STRUT 41X21 PERFORÉS - PS530**

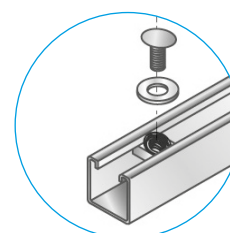
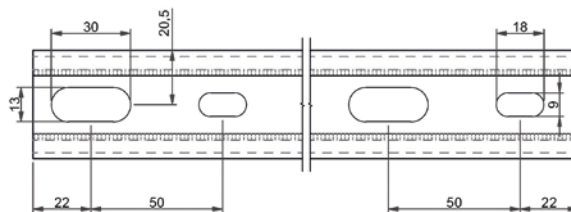
|    | m | Désignation              | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---|--------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT 41x21x2.50 P 3M SZ | 652009 | 1.766          | 2.50      |
|    | 6 | STRUT 41x21x2.50 P 6M SZ | 652008 | 1.766          | 2.50      |
|    | m | Désignation              | Code   | Masse<br>kg/ml | Ep.<br>mm |
| GC | 3 | STRUT 41x21x2.50 P 3M GC | 653009 | 1.787          | 2.50      |
|    | 6 | STRUT 41x21x2.50 P 6M GC | 653008 | 1.787          | 2.50      |


**STRUT 41X41 PERFORÉS - PS210 U**

|    | m | Désignation              | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---|--------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT 41x41x1.75 P 3M SZ | 652001 | 1.823          | 1.75      |
|    | 6 | STRUT 41x41x1.75 P 6M SZ | 652003 | 1.823          | 1.75      |
|    | m | Désignation              | Code   | Masse<br>kg/ml | Ep.<br>mm |
| GC | 3 | STRUT 41x41x1.75 P 3M GC | 653001 | 2.005          | 1.75      |
|    | 6 | STRUT 41x41x1.75 P 6M GC | 653003 | 2.005          | 1.75      |


**STRUT 41X41 PERFORÉS - PS 230U**

|    | m | Désignation              | Code   | Masse<br>Kg/ml | Ep.<br>mm |
|----|---|--------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT 41x41x2.50 P 3M SZ | 652002 | 2.605          | 2.50      |
|    | 6 | STRUT 41x41x2.50 P 6M SZ | 652004 | 2.605          | 2.50      |
|    | m | Désignation              | Code   | Masse<br>Kg/ml | Ep.<br>mm |
| GC | 3 | STRUT 41x41x2.50 P 3M GC | 653002 | 2.547          | 2.50      |
|    | 6 | STRUT 41x41x2.50 P 6M GC | 653004 | 2.547          | 2.50      |

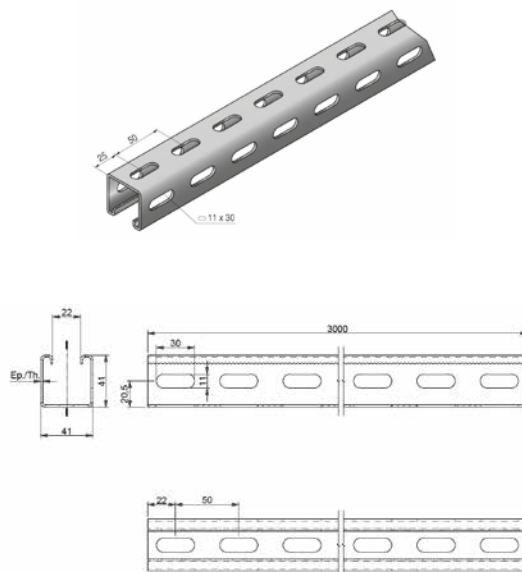


**RAILS CRANTÉS STRUT 41**
**STRUT 41X41 PERFORÉS 3 FACES - PS210 3U**

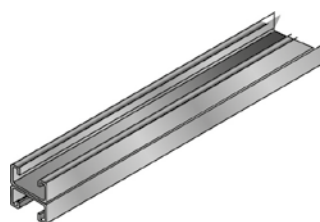
|    | m | Désignation                 | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---|-----------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT 41x41x1.75 P 3F 3M SZ | 652040 | 1.586          | 1.75      |
|    | 6 | STRUT 41x41x1.75 P 3F 6M SZ | 652041 | 1.586          | 1.75      |
|    | m | Désignation                 | Code   | Masse<br>kg/ml | Ep.<br>mm |
| GC | 3 | STRUT 41x41x1.75 P 3F 3M GC | 653040 | 1.745          | 1.75      |
|    | 6 | STRUT 41x41x1.75 P 3F 6M GC | 653041 | 1.745          | 1.75      |

 Compatible **gousset rapide 3U**
**STRUT 41X41 PERFORÉ 3 FACES - PS 230 3U**

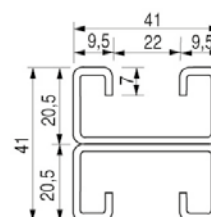
|    | m | Désignation                 | Code   | Masse<br>Kg/ml | Ep.<br>mm |
|----|---|-----------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT 41x41x2.50 P 3F 3M SZ | 652050 | 2.266          | 2.50      |
|    | 6 | STRUT 41x41x2.50 P 3F 6M SZ | 652051 | 2.266          | 2.50      |
|    | m | Désignation                 | Code   | Masse<br>Kg/ml | Ep.<br>mm |
| GC | 3 | STRUT 41x41x2.50 P 3F 3M GC | 653050 | 2.297          | 2.50      |
|    | 6 | STRUT 41x41x2.50 P 3F 6M GC | 653051 | 2.297          | 2.50      |


**STRUT DOUBLES 41X21 NON PERFORÉ - PS 501**

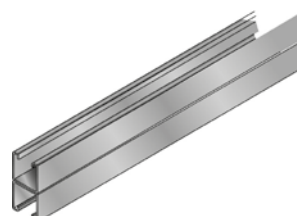
|    | m | Désignation                    | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---|--------------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT DBLE 41x21x1.75 NP 3M SZ | 652019 | 2.577          | 1.75      |
|    | m | Désignation                    | Code   | Masse<br>kg/ml | Ep.<br>mm |
| GC | 3 | STRUT DBLE 41x21x1.75 NP 3M GC | 653019 | 2.835          | 1.75      |


**STRUT DOUBLE 41X21 NON PERFORÉ - PS 531**

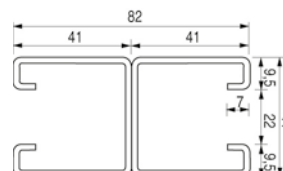
|    | m | Désignation                    | Code   | Masse<br>Kg/ml | Ep.<br>mm |
|----|---|--------------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT DBLE 41x21x2.50 NP 3M SZ | 652023 | 3.682          | 2.50      |
|    | m | Désignation                    | Code   | Masse<br>Kg/ml | Ep.<br>mm |
| GC | 3 | STRUT DBLE 41x21x2.50 NP 3M GC | 653023 | 3.726          | 2.50      |


**STRUT DOUBLES 41X41 NON PERFORÉ - PS211 NP**

|    | m | Désignation                    | Code   | Masse<br>kg/ml | Ep.<br>mm |
|----|---|--------------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT DBLE 41x41x1.75 NP 3M SZ | 652010 | 3.646          | 1.75      |
|    | m | Désignation                    | Code   | Masse<br>kg/ml | Ep.<br>mm |
| GC | 3 | STRUT DBLE 41x41x1.75 NP 3M GC | 653010 | 4.041          | 1.75      |


**STRUT DOUBLE 41X41 NON PERFORÉ - PS 231 NP**

|    | m | Désignation                    | Code   | Masse<br>Kg/ml | Ep.<br>mm |
|----|---|--------------------------------|--------|----------------|-----------|
| SZ | 3 | STRUT DBLE 41x41x2.50 NP 3M SZ | 652016 | 5.248          | 2.50      |
|    | m | Désignation                    | Code   | Masse<br>Kg/ml | Ep.<br>mm |
| GC | 3 | STRUT DBLE 41x41x2.50 NP 3M GC | 653016 | 5.320          | 2.50      |

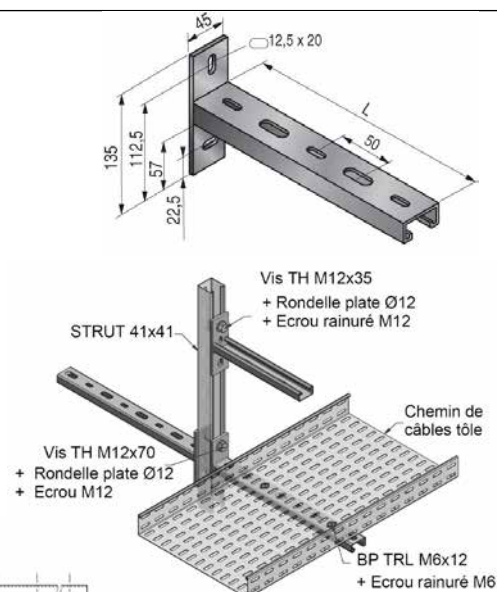
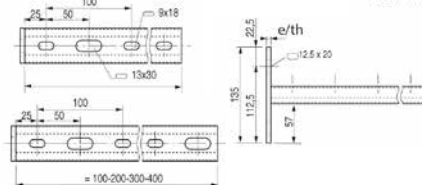


**CONSOLES ET PENDARDS STRUT 41**
**CONSOLES STRUT 41X21 - PS641**

| p  | Désignation                   | Code          | Masse<br>kg/p | H.<br>mm | l<br>mm | daN |
|----|-------------------------------|---------------|---------------|----------|---------|-----|
| EZ | 10 CONSOLE STRUT 41x21 200 EZ | <b>677142</b> | 0.500         | 135      | 194     | 240 |
|    | 10 CONSOLE STRUT 41x21 250 EZ | <b>677143</b> | 0.562         | 135      | 244     | 175 |
|    | 10 CONSOLE STRUT 41x21 350 EZ | <b>677145</b> | 0.687         | 135      | 344     | 90  |
|    | 10 CONSOLE STRUT 41x21 450 EZ | <b>677147</b> | 1.071         | 135      | 444     | 50  |
| GC | 10 CONSOLE STRUT 41x21 200 GC | <b>678142</b> | 0.607         | 135      | 194     | 240 |
|    | 10 CONSOLE STRUT 41x21 250 GC | <b>678143</b> | 0.680         | 135      | 244     | 175 |
|    | 10 CONSOLE STRUT 41x21 350 GC | <b>678145</b> | 0.826         | 135      | 344     | 90  |
|    | 10 CONSOLE STRUT 41x21 450 GC | <b>678147</b> | 1.333         | 135      | 444     | 50  |

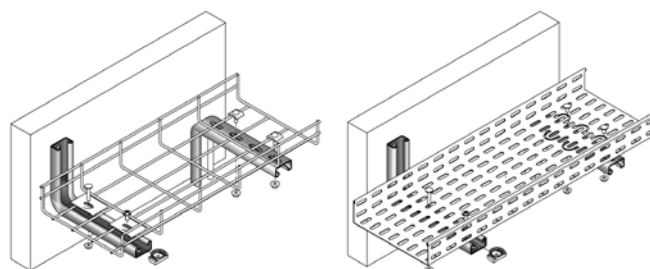
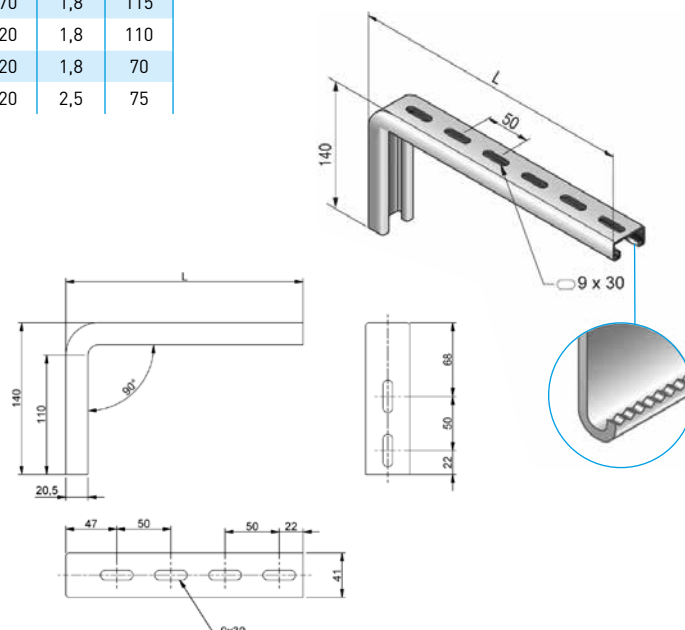
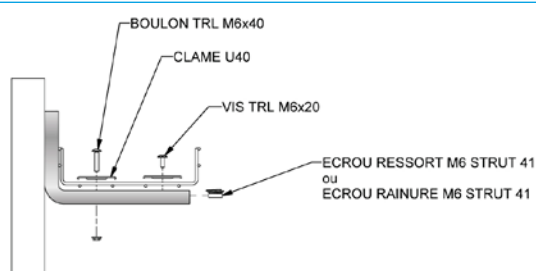
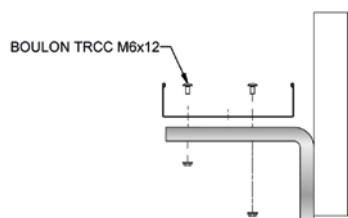
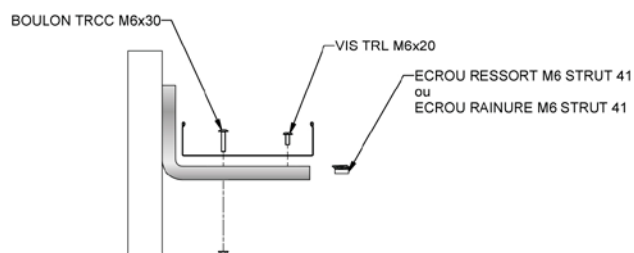
**Attention :**

- Pour longueur finissant **par 00**  
départ de perforation coté platine oblong 9x18
- Pour longueur finissant **par 50**  
départ de perforation coté platine oblong 9x18 ou 13x30
- e = 6 mm pour longueurs inf. à 400 mm
- e = 8 mm pour longueurs sup. à 400 mm
- l mm : longueur utile de la console


**CONSOLES STRUT C 41X21 - C641**

| p  | Désignation                    | Code          | Masse<br>kg/p | l<br>mm | L<br>mm | Ep.<br>mm | daN |
|----|--------------------------------|---------------|---------------|---------|---------|-----------|-----|
| SZ | 20 CONSOLE STRUT C41x21 150 SZ | <b>677701</b> | 0.377         | 150     | 170     | 1,8       | 115 |
|    | 20 CONSOLE STRUT C41x21 200 SZ | <b>677702</b> | 0.443         | 200     | 220     | 1,8       | 110 |
|    | 20 CONSOLE STRUT C41x21 300 SZ | <b>677703</b> | 0.575         | 300     | 320     | 1,8       | 70  |
|    | 20 CONSOLE STRUT C41x21 400 SZ | <b>677704</b> | 0.708         | 400     | 420     | 2,5       | 75  |

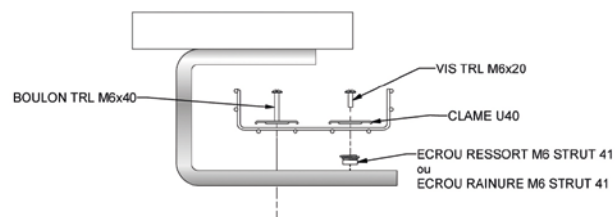
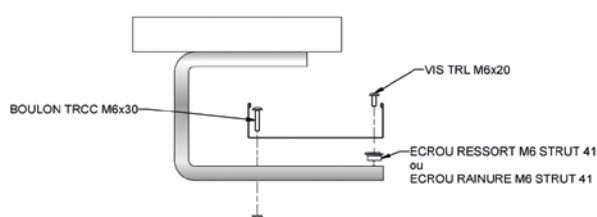
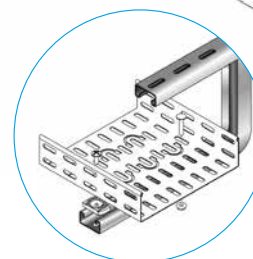
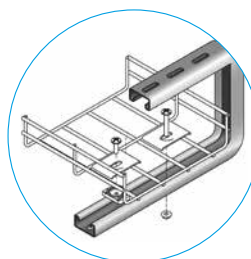
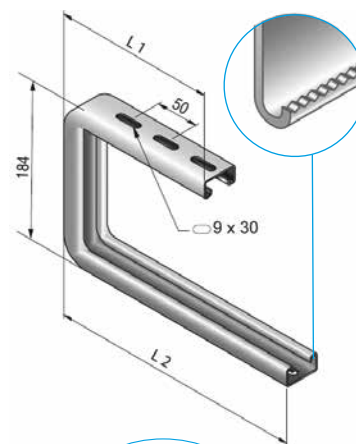
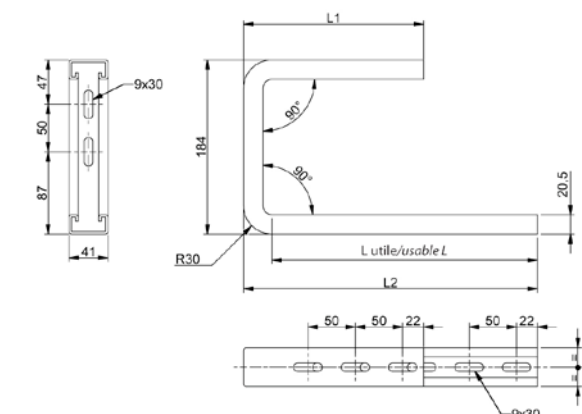
l mm : longueur utile de la console



## CONSOLES ET PENDARDS STRUT 41

## SUSPENSIONS STRUT C 41X21 - CC641

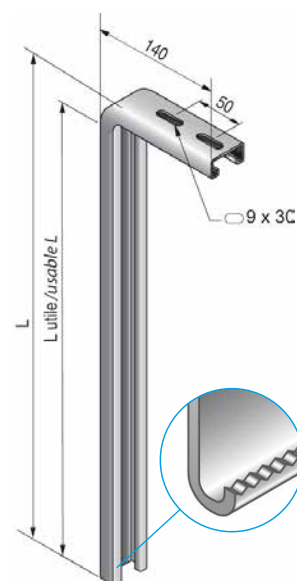
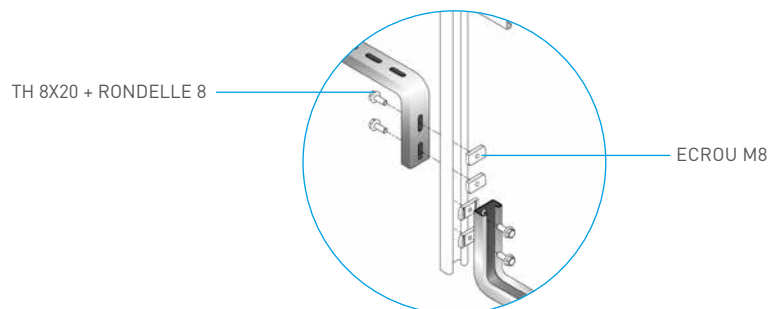
|    |  p | Désignation                    | Code          | Masse<br>kg/p | L utile<br>mm | L1<br>mm | L2<br>mm |  daN |
|----|-------------------------------------------------------------------------------------|--------------------------------|---------------|---------------|---------------|----------|----------|---------------------------------------------------------------------------------------|
| SZ | 20                                                                                  | SUSPENSION STRUT C41x21 150 SZ | <b>677751</b> | 0.567         | 120           | 140      | 150      | 140                                                                                   |
|    | 20                                                                                  | SUSPENSION STRUT C41x21 200 SZ | <b>677752</b> | 0.633         | 170           | 140      | 200      | 110                                                                                   |
|    | 20                                                                                  | SUSPENSION STRUT C41x21 300 SZ | <b>677753</b> | 0.831         | 270           | 190      | 300      | 70                                                                                    |
|    | 20                                                                                  | SUSPENSION STRUT C41x21 400 SZ | <b>677754</b> | 1.382         | 370           | 240      | 400      | 90                                                                                    |
|    | 20                                                                                  | SUSPENSION STRUT C41x21 500 SZ | <b>677755</b> | 1.647         | 470           | 290      | 500      | 75                                                                                    |



## PENDARDS STRUT C 41X21 - C641

|    |  | Désignation                 | Code          | Masse<br>kg/p | l<br>mm | L<br>mm | <br>m.daN |
|----|-------------------------------------------------------------------------------------|-----------------------------|---------------|---------------|---------|---------|----------------------------------------------------------------------------------------------|
| SZ | 20                                                                                  | PENDARD STRUT C41x21/500 SZ | <b>677705</b> | 1.126         | 500     | 520     | 22                                                                                           |
|    | 20                                                                                  | PENDARD STRUT C41x21/800 SZ | <b>677708</b> | 1.650         | 800     | 820     | 22                                                                                           |

l mm : longueur utile du pendard

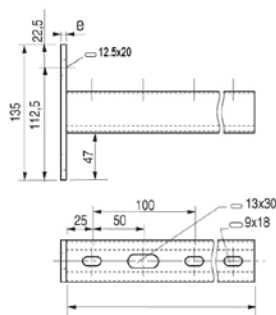
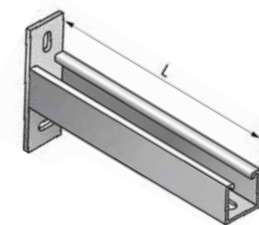


**CONSOLES ET PENDARDS STRUT 41**
**CONSOLES STRUT 41X41 - PS651**

|    | p  | Désignation                | Code          | Masse<br>kg/p | l<br>mm | daN |
|----|----|----------------------------|---------------|---------------|---------|-----|
| EZ | 10 | CONSOLE STRUT 41x41 200 EZ | <b>677073</b> | 0.612         | 194     | 500 |
|    | 10 | CONSOLE STRUT 41x41 250 EZ | <b>677122</b> | 0.704         | 244     | 400 |
|    | 10 | CONSOLE STRUT 41x41 350 EZ | <b>677072</b> | 0.879         | 344     | 320 |
|    | 10 | CONSOLE STRUT 41x41 450 EZ | <b>677092</b> | 1.495         | 444     | 280 |
|    | 10 | CONSOLE STRUT 41x41 550 EZ | <b>677126</b> | 1.763         | 544     | 250 |
|    | 10 | CONSOLE STRUT 41x41 650 EZ | <b>677070</b> | 2.020         | 644     | 250 |
|    | p  | Désignation                | Code          | Masse<br>kg/p | l<br>mm | daN |
| GC | 10 | CONSOLE STRUT 41x41 200 GC | <b>678073</b> | 0.673         | 194     | 500 |
|    | 10 | CONSOLE STRUT 41x41 250 GC | <b>678122</b> | 0.774         | 244     | 400 |
|    | 10 | CONSOLE STRUT 41x41 350 GC | <b>678072</b> | 0.967         | 344     | 320 |
|    | 10 | CONSOLE STRUT 41x41 450 GC | <b>678092</b> | 1.645         | 444     | 280 |
|    | 10 | CONSOLE STRUT 41x41 550 GC | <b>678126</b> | 1.940         | 544     | 250 |
|    | 10 | CONSOLE STRUT 41x41 650 GC | <b>678070</b> | 2.220         | 644     | 250 |

**Attention :**

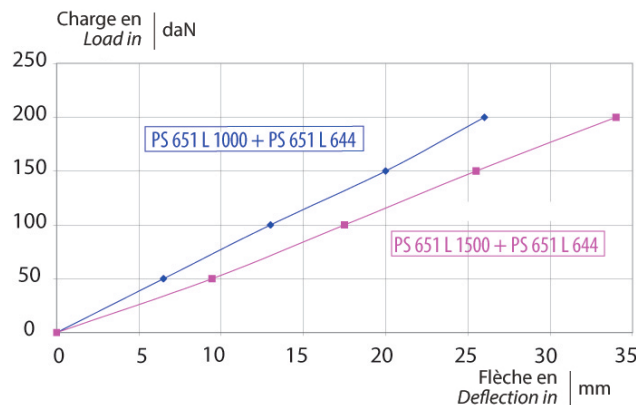
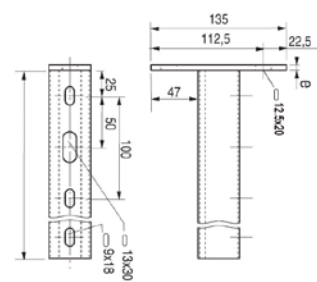
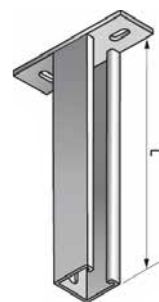
- Pour longueur finissant **par 00** départ de perforation coté platine oblong 9x18
- Pour longueur finissant **par 50** départ de perforation coté platine oblong 9x18 **ou** 13x30
- e = 6 mm pour longueurs inf. à 400 mm
- e = 8 mm pour longueurs sup. à 400 mm
- l mm : longueur utile de la console


**PENDARDS STRUT 41X41 - PS651**

|    | p | Désignation                 | Code          | Masse<br>kg/p | L<br>mm | m.daN |
|----|---|-----------------------------|---------------|---------------|---------|-------|
| GC | 1 | PENDARD STRUT 41x41/1000 GC | <b>678432</b> | 3.149         | 1000    | 95    |
|    | 1 | PENDARD STRUT 41x41/1500 GC | <b>678424</b> | 4.355         | 1500    | 95    |

**Attention :**

- Pour longueur finissant **par 00** départ de perforation coté platine oblong 9x18
- Pour longueur finissant **par 50** départ de perforation coté platine oblong 9x18 **ou** 13x30
- e = 8 mm
- l mm : longueur utile de la console



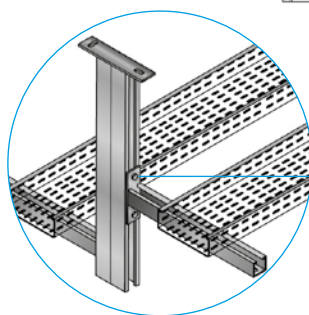
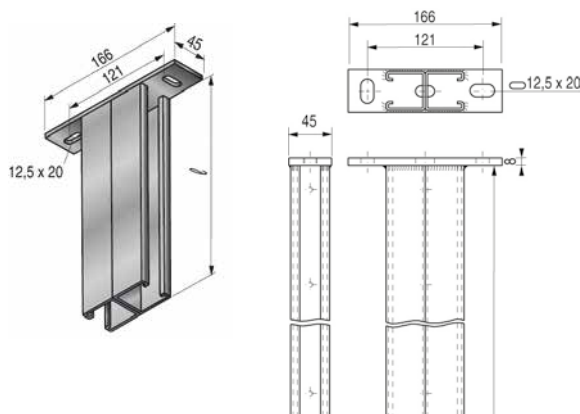
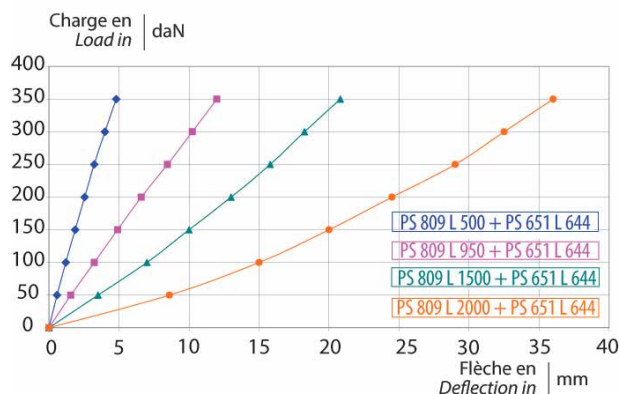


## CONSOLES ET PENDARDS STRUT 41

### PENDARDS STRUT DOUBLE 41X82 - PS809

| p  | Désignation                      | Code   | Masse<br>kg/p | l<br>mm | m.daN |
|----|----------------------------------|--------|---------------|---------|-------|
| GC | 1 PENDARD STRUT DBL41x82 350 GC  | 678128 | 2.268         | 344     | 180   |
| 1  | 1 PENDARD STRUT DBL41x82 500 GC  | 678129 | 3.036         | 494     | 180   |
| 1  | 1 PENDARD STRUT DBL41x82 650 GC  | 678130 | 4.270         | 644     | 180   |
| 1  | 1 PENDARD STRUT DBL41x82 800 GC  | 678131 | 4.574         | 794     | 180   |
| 1  | 1 PENDARD STRUT DBL41x82 950 GC  | 678132 | 5.342         | 944     | 180   |
| 1  | 1 PENDARD STRUT DBL41x82 1500 GC | 678376 | 9.152         | 1494    | 180   |
| 1  | 1 PENDARD STRUT DBL41x82/2000 GC | 678405 | 12.040        | 1994    | 180   |

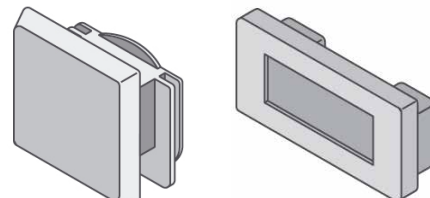
S'utilise aussi en console renforcée



VIS TH M12X35  
+ RONDELLE PLATE A12  
+ ECROU RAINURÉ M12

### BOUCHONS STRUT 41

| p    | Désignation                | Code   | Masse<br>kg/p |
|------|----------------------------|--------|---------------|
| PEHD | 50 BOUCHON STRUT41x21 PEHD | 687385 | 0.003         |
| 50   | BOUCHON STRUT41x41 PEHD    | 687228 | 0.008         |



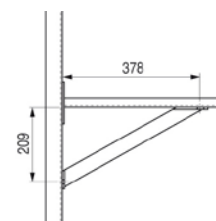
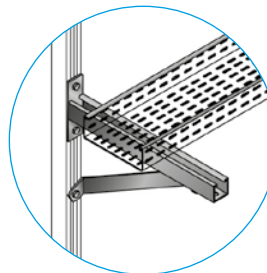
## ACCESSOIRES STRUT 41

### RAIDISSEUR STRUT RÉVERSIBLE

| p  | Désignation               | Code   | Masse<br>kg/p | Ep.<br>mm | daN |
|----|---------------------------|--------|---------------|-----------|-----|
| GC | 25 RAIDISSEUR STRUT 41 GC | 678125 | 0.810         | 5.00      | 450 |

Charge par Longueur de console :

- 444 mm → 450 daN
- 544 mm → 350 daN
- 644 mm → 350 daN



**ACCESSOIRES STRUT 41**
**GOUSSET RAPIDE 3U STRUT 41**

|    | p  | Désignation                  | Code   | Masse<br>kg/p | m.daN | daN |
|----|----|------------------------------|--------|---------------|-------|-----|
| SZ | 10 | GOUSSET RAPIDE 3U STRUT41 SZ | 677066 | 0.726         | 34    | 350 |

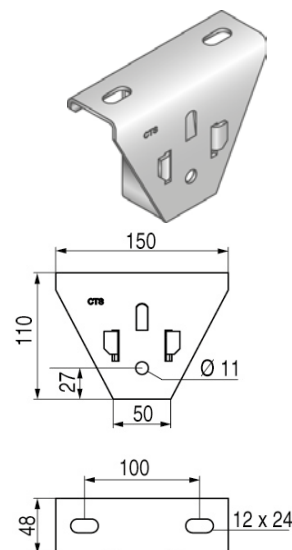
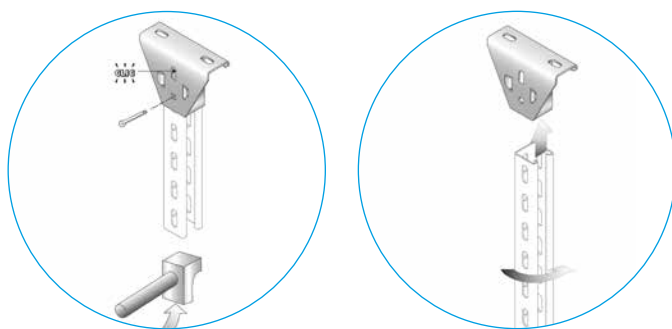
**> Montage multidirectionnel**
**> Sécurisation par goupille possible (8x90 EZ 023051)**
**> Simple d'utilisation : un coup de maillet suffit**

S'utilise en montage pendard avec le **Rail STRUT 41 perforé 3 faces** : charge maxi de 350 daN en montage symétrique

- Couple de serrage des vis H10 avec écrou losange ressort M10 (EZ 648027) = 34 N.m
- Préconisation en pendard dissymétrique : montage avec **raidisseur réversible STRUT 41**

Longueur maxi : 1 m.

Au delà : *nous consulter*


**GOUSSET STRUT 41 - UP41**

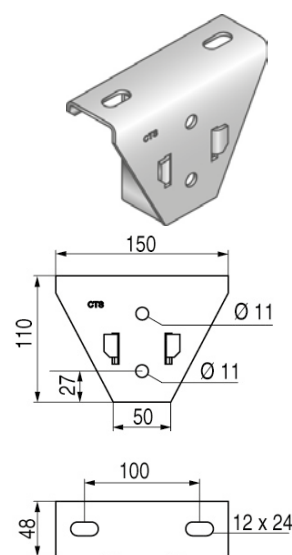
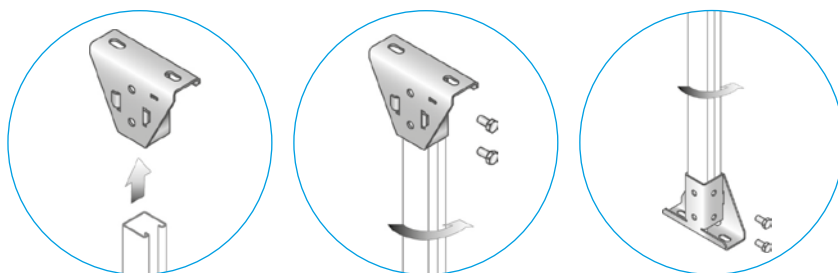
|    | p  | Désignation        | Code   | Masse<br>kg/p | m.daN | daN |
|----|----|--------------------|--------|---------------|-------|-----|
| SZ | 10 | GOUSSET STRUT41 SZ | 677067 | 0.726         | 34    | 350 |

**> Multidirectionnel**
**> Montage avec 2 vis TH M10x25 (EZ 648048, GM 651144), 2 rondelles plates diam.10 (EZ 648034) et 2 écrous rainurés M10**

- Compatible tout type de rails 41
- Compatible **rail 41x21 double** pour réalisation pendants doubles symétriques
- Charge maxi de 350 daN en montage symétrique
- Couple de serrage des vis H10 avec écrou losange ressort M10 (EZ 648027) = 34 N.m

Longueur maxi : 1 m.

Au delà : *nous consulter*



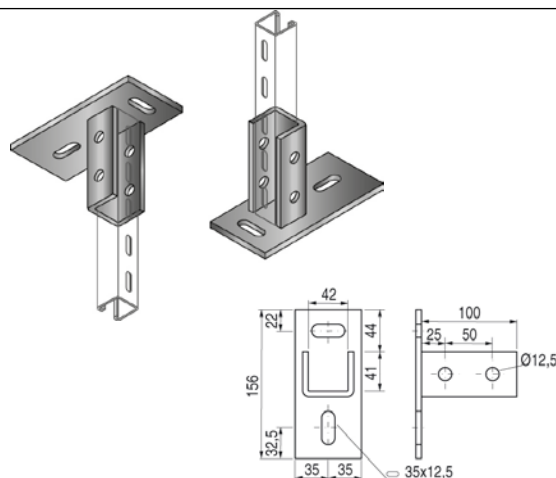
## ACCESSOIRES STRUT 41

### PLAQUE DE TÊTE STRUT 41 - PS 3033

| p  | Désignation       | Code   | Masse kg/p |
|----|-------------------|--------|------------|
| GC | 10 PDT STRUT41 GC | 678063 | 1.317      |

- Montage : vis TH M12x35 (EZ 648150) + rondelle plate diam.12 (EZ 648023) + écrou rainuré M12 (EZ 648039)
- Couple de serrage des vis H12 avec écrou ressort M12 (EZ 648013) = 34 N.m
- En montage pendard avec **rail STRUT 41** : charge maxi = 350 daN
- Préconisation en charge dissymétrique : montage avec **raidisseur réversible STRUT 41** (GC 678125).

Longueur maxi : 1 m.  
Au delà : *nous consulter*

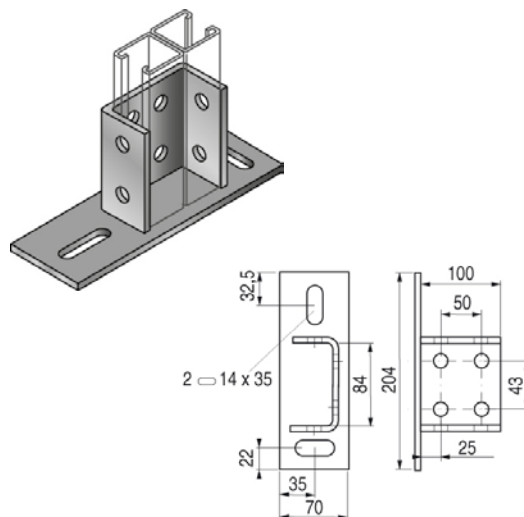


### PLAQUE DE TÊTE STRUT DOUBLE 41 - PS 3064

| p  | Désignation                | Code   | Masse kg/p |
|----|----------------------------|--------|------------|
| GC | 10 PDT STRUT DBLE 41x41 GC | 678064 | 1.760      |

- Montage : vis TH M12x35 (EZ 648150) + rondelle plate diam.12 (EZ 648023) + écrou ressort M12
- En montage pendard avec **Rail double STRUT 41** : charge maxi = 500 daN
- Couple de serrage des vis H12 avec écrou losange ressort M12 (EZ 648013) = 34 N.m
- Préconisation en charge dissymétrique : montage avec **raidisseur réversible STRUT 41** (GC 678125).

Longueur maxi : 1 m.  
Au delà : *nous consulter*



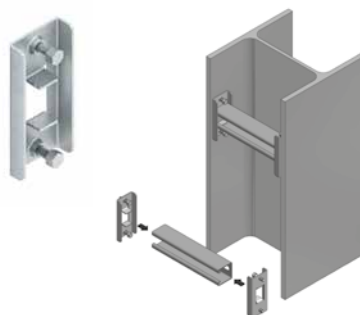
#### Pour une utilisation en Pendard

|        | Couple de serrage vis H12 avec écrou ressort M12 | Charge daN |
|--------|--------------------------------------------------|------------|
| 678063 | 34 N.m                                           | 350        |
| 678064 | 34 N.m                                           | 500        |

### ÉTRIER TZK 86-96

| p  | Désignation               | Code   | Masse Kg/p |
|----|---------------------------|--------|------------|
| SZ | 10 TZK 86-96 SZ (1 PAIRE) | 709860 | 0.251      |

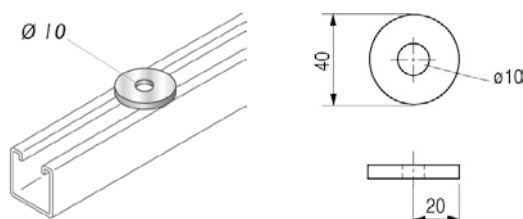
En utilisation avec les rails STRUT 41x41 et 41x21



NEW !

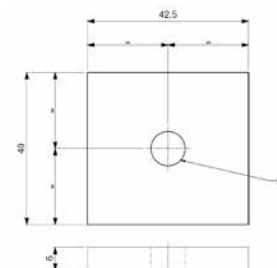
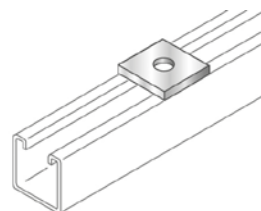
### RONDELLES PLATES 10 STRUT 41 - PS 610

| p  | Désignation                    | Code   | Masse kg/100 |
|----|--------------------------------|--------|--------------|
| EZ | 100 RONDELLE PLE 10 STRUT41 EZ | 648138 | 2.500        |
| p  | Désignation                    | Code   | Masse kg/100 |
| GM | 100 RONDELLE PLE 10 STRUT41 GM | 651138 | 2.500        |

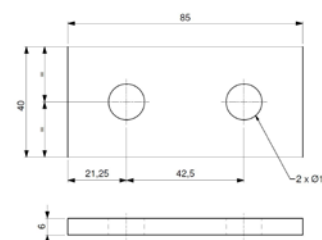
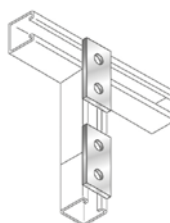


**ACCESSOIRES STRUT 41**
**CARRÉ STRUT 41 - PS 621**

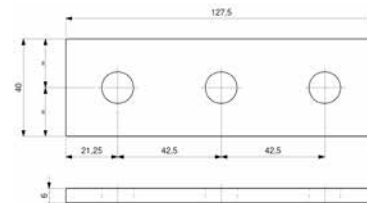
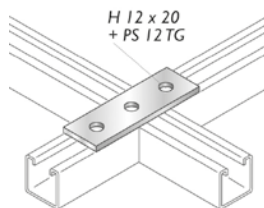
|    | p   | Désignation              | Code   | Masse<br>kg/100 |
|----|-----|--------------------------|--------|-----------------|
| GC | 100 | CARRÉ STRUT41 DIAM 9 GC  | 678134 | 7.200           |
|    | 100 | CARRÉ STRUT41 DIAM 11 GC | 678301 | 7.200           |
|    | 100 | CARRÉ STRUT41 DIAM 13 GC | 678300 | 7.200           |


**RECTANGLE STRUT 41 - 2 TROUS - PS 601**

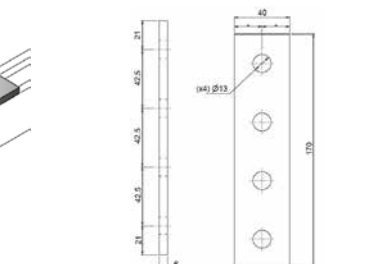
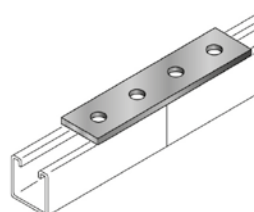
|    | p  | Désignation             | Code   | Masse<br>kg/p |
|----|----|-------------------------|--------|---------------|
| GC | 50 | RECTANGLE 2T STRUT41 GC | 678002 | 0.150         |


**RECTANGLE STRUT 41 - 3 TROUS - PS 602**

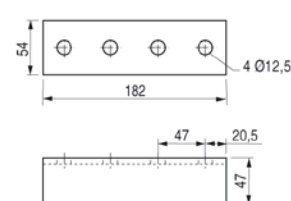
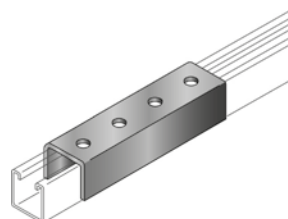
|    | p  | Désignation             | Code   | Masse<br>kg/p |
|----|----|-------------------------|--------|---------------|
| GC | 25 | RECTANGLE 3T STRUT41 GC | 678001 | 0.220         |


**RECTANGLE STRUT41 - 4 TROUS - PS 723**

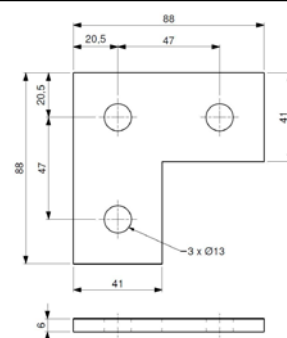
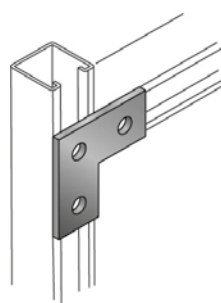
|    | p  | Désignation             | Code   | Masse<br>kg/p |
|----|----|-------------------------|--------|---------------|
| GC | 25 | RECTANGLE 4T STRUT41 GC | 678003 | 0.240         |


**ÉCLISSE STRUT 41X41 - PS 616**

|    | p  | Désignation            | Code   | Masse<br>kg/p |
|----|----|------------------------|--------|---------------|
| GC | 10 | ÉCLISSE STRUT 41x41 GC | 678051 | 1.080         |


**ÉQUERRE PLATE 3 TROUS STRUT 41 - PS 718**

|    | p  | Désignation               | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|---------------------------|--------|---------------|-----------|
| GC | 25 | ÉQUERRE PLE 3T STRUT41 GC | 678021 | 0.267         | 6.00      |

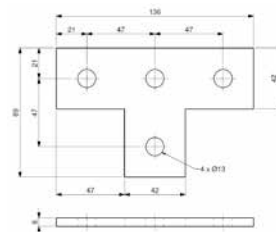
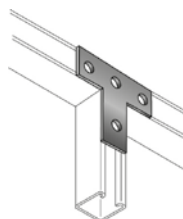


## ACCESSOIRES STRUT 41

**TÉ PLAT STRUT 41 - 4 TROUS - PS 714**

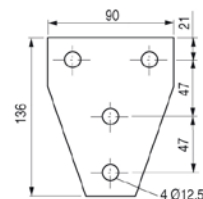
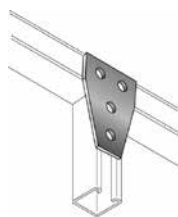
|    |  p | Désignation         | Code          | Masse<br>kg/p | Ep.<br>mm |
|----|-------------------------------------------------------------------------------------|---------------------|---------------|---------------|-----------|
| GC | 25                                                                                  | TE PL 4T STRUT41 GC | <b>678023</b> | 0.340         | 6.00      |

- TH 12x25\* (EZ 648021) + écrou STRUT M12 (EZ 648039)  
 \* TH 12x25 sur Rail STRUT 41x21  
 TH 12x35 (EZ 648150) sur Rail STRUT 41x41



**GOUSSET T 180 STRUT 41 - 4 TROUS - PS 747**

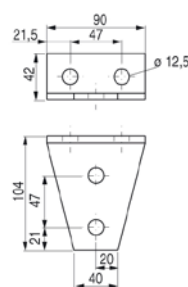
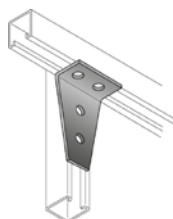
|           |  p | Désignation                 | Code          | Masse<br>kg/p |
|-----------|-------------------------------------------------------------------------------------|-----------------------------|---------------|---------------|
| <b>GC</b> | 25                                                                                  | GOUSSET T 180 4T STRUT41 GC | <b>678024</b> | 0.430         |



**GOUSSET CORNIERE STRUT 41 - 4 TROUS - PS 748**

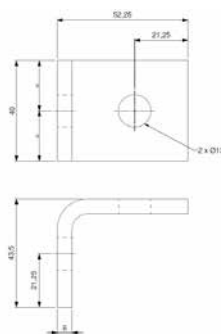
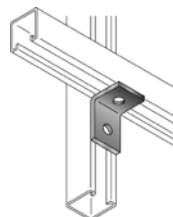
|           |  p | Désignation                | Code          | Masse<br>kg/p |
|-----------|-------------------------------------------------------------------------------------|----------------------------|---------------|---------------|
| <b>GC</b> | 25                                                                                  | GOUSSET CORN 4T STRUT41 GC | <b>678043</b> | 0.435         |

- TH 12x25\* (EZ 648021) + écrou STRUT M12 (EZ 648039)  
 \* TH 12x25 sur Rail STRUT 41x21  
 TH 12x35 (EZ 648150) sur Rail STRUT 41x41



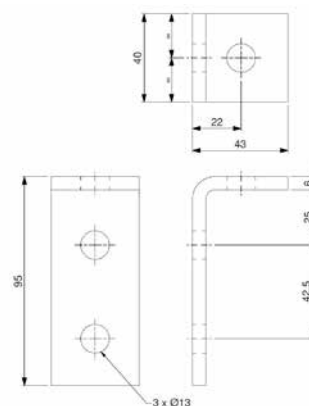
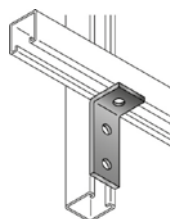
## ÉQUERRE 90 STRUT 41 - 2 TROUS - PS 604

|    |  p | Désignation              | Code          | Masse<br>kg/p |
|----|---------------------------------------------------------------------------------------|--------------------------|---------------|---------------|
| GC | 25                                                                                    | ÉQUERRE 90 2T STRUT41 GC | <b>678032</b> | 0.130         |



**ÉQUERRE 90 STRUT 41 - 3 TROUS - PS 606**

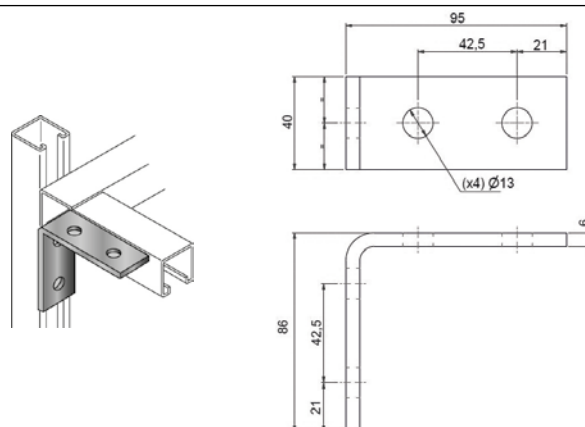
|    |  p | Désignation              | Code          | Masse<br>kg/p |
|----|---------------------------------------------------------------------------------------|--------------------------|---------------|---------------|
| GC | 25                                                                                    | ÉQUERRE 90 3T STRUT41 GC | <b>678035</b> | 0.249         |



**ACCESSOIRES STRUT 41**
**ÉQUERRE 90 STRUT 41 - 4 TROUS - PS 607**

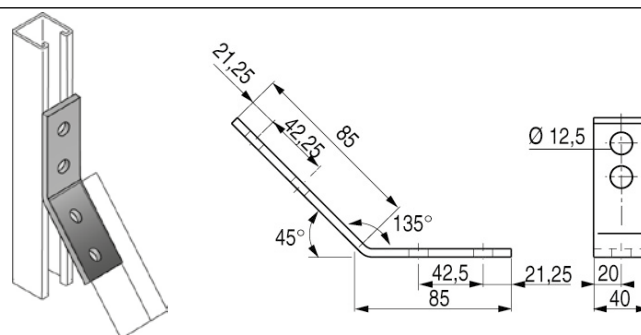
| p     | Désignation              | Code          | Masse<br>kg/p |
|-------|--------------------------|---------------|---------------|
| GC 25 | ÉQUERRE 90 4T STRUT41 GC | <b>678037</b> | 0.260         |

- TH 12x25\* (EZ 648021) + écrou STRUT M12 (EZ 648039)
- \* TH 12x25 sur Rail STRUT 41x21
- TH 12x35 (EZ 648150) sur Rail STRUT 41x41

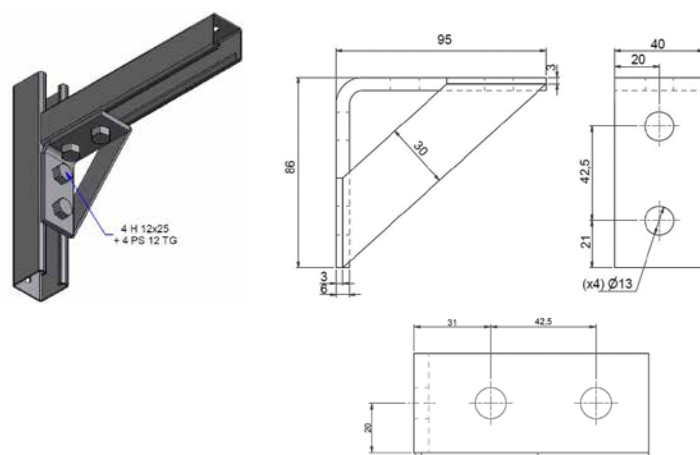

**ÉQUERRE 135 STRUT 41 - 4 TROUS - PS 786**

| p     | Désignation                | Code          | Masse<br>kg/p |
|-------|----------------------------|---------------|---------------|
| GC 25 | ÉQUERRE 135D 4T STRUT41 GC | <b>678203</b> | 0.327         |

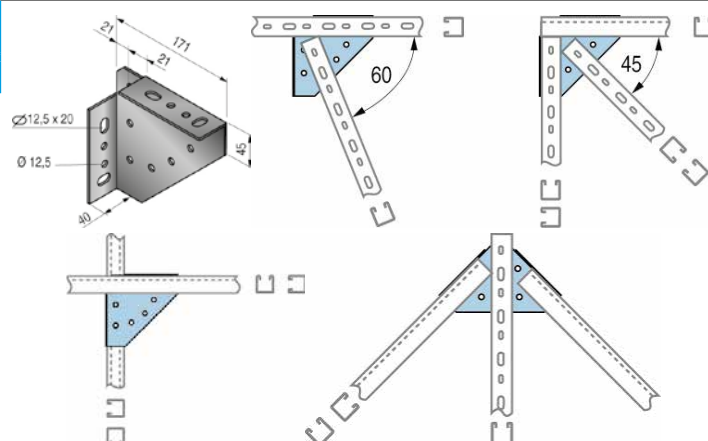
- TH 12x25\* (EZ 648021) + écrou STRUT M12 (EZ 648039)
- \* TH 12x25 sur Rail STRUT 41x21
- TH 12x35 (EZ 648150) sur Rail STRUT 41x41


**ÉQUERRE RENFORCEE STRUT 41 - 4 TROUS - PS 3363**

| p     | Désignation                | Code          | Masse<br>kg/p |
|-------|----------------------------|---------------|---------------|
| GC 25 | ÉQUERRE RENF 4T STRUT41 GC | <b>678136</b> | 0.400         |


**ÉQUERRE UNIVERSELLE STRUT 41 - PS 608**

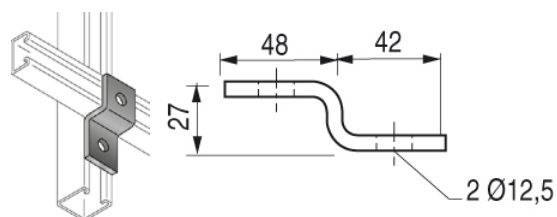
| p     | Désignation                    | Code          | Masse<br>kg/p | Ep.<br>mm |
|-------|--------------------------------|---------------|---------------|-----------|
| GC 25 | ÉQUERRE UNIVERSELLE STRUT41 GC | <b>678100</b> | 0.742         | 3.00      |



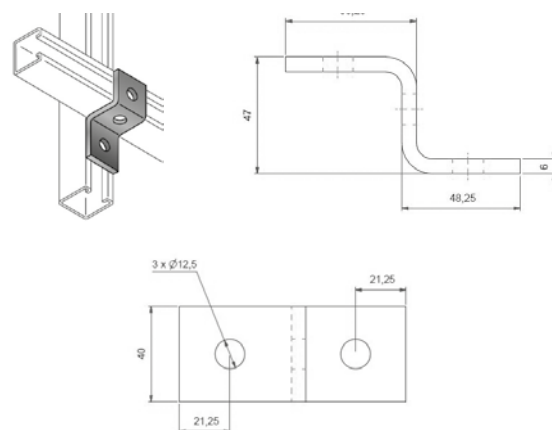


**ACCESSOIRES STRUT 41**
**ÉQUERRE Z STRUT 41X21 - PS 928**

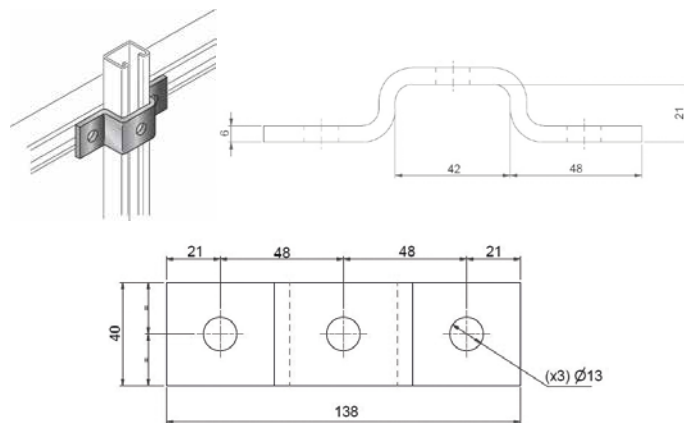
| p     | Désignation             | Code   | Masse<br>kg/p |
|-------|-------------------------|--------|---------------|
| GC 25 | ÉQUERRE Z STRUT41x21 GC | 678150 | 0.190         |


**ÉQUERRE Z STRUT 41X41 - PS 611**

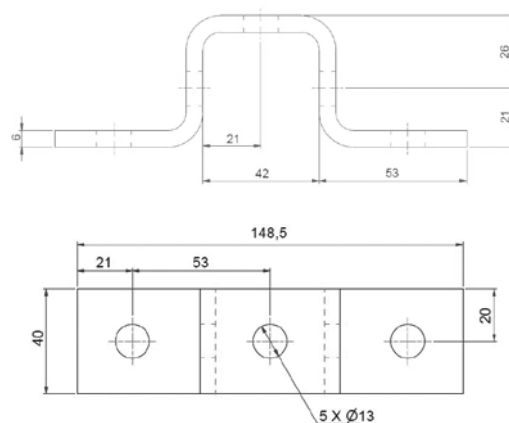
| p     | Désignation             | Code   | Masse<br>kg/p |
|-------|-------------------------|--------|---------------|
| GC 25 | ÉQUERRE Z STRUT41x41 GC | 678027 | 0.230         |


**OMEGA STRUT 41X21 - PS 929**

| p     | Désignation         | Code   | Masse<br>kg/p |
|-------|---------------------|--------|---------------|
| GC 25 | OMEGA STRUT41x21 GC | 678149 | 0.250         |

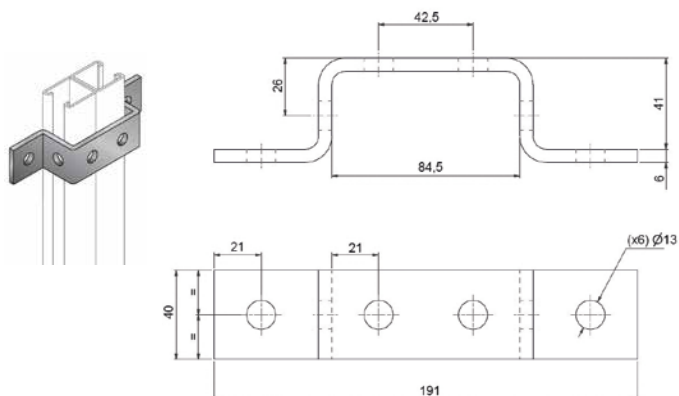

**OMEGA STRUT 41X41 - PS 613**

| p     | Désignation         | Code   | Masse<br>kg/p |
|-------|---------------------|--------|---------------|
| GC 25 | OMEGA STRUT41x41 GC | 678046 | 0.380         |

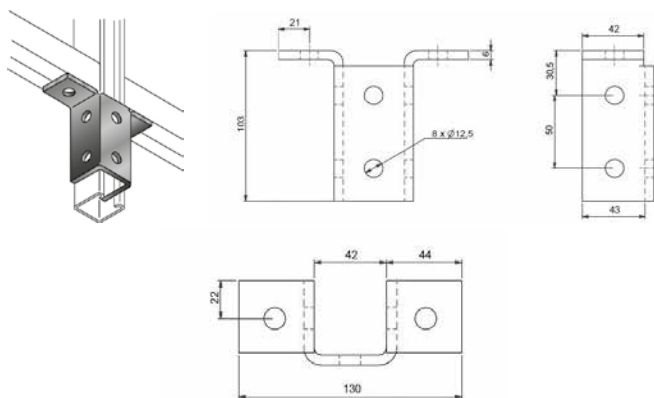


**ACCESSOIRES STRUT 41**
**OMEGA STRUT DOUBLE 41X41 - PS 721**

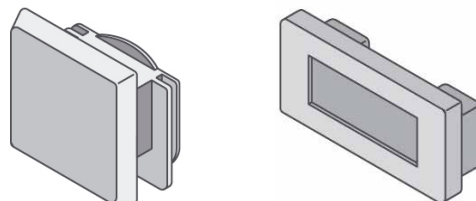
| p  | Désignation                  | Code          | Masse<br>kg/p |
|----|------------------------------|---------------|---------------|
| GC | 10 OMEGA STRUT DBLE 41x41 GC | <b>678048</b> | 0.430         |


**RACCORD 2 DIRECTIONS STRUT 41 - PS 821**

| p  | Désignation              | Code          | Masse<br>kg/p |
|----|--------------------------|---------------|---------------|
| GC | 10 RACCORD 2D STRUT41 GC | <b>678061</b> | 0.700         |


**BOUCHONS STRUT 41**

| p    | Désignation                | Code          | Masse<br>kg/p |
|------|----------------------------|---------------|---------------|
| PEHD | 50 BOUCHON STRUT41x21 PEHD | <b>687385</b> | 0.003         |
|      | 50 BOUCHON STRUT41x41 PEHD | <b>687228</b> | 0.008         |



## RAILS ET SUPPORTS U 5050

### Applications :

Pour charges lourdes nécessitant notamment des montages multidirectionnels

### RAIL U 5050

| m  | Désignation    | Code   | Masse<br>kg/ml | H.<br>mm | L.<br>mm |
|----|----------------|--------|----------------|----------|----------|
| GC | 3 U 5050 3M GC | 708338 | 2.400          | 50       | 50       |

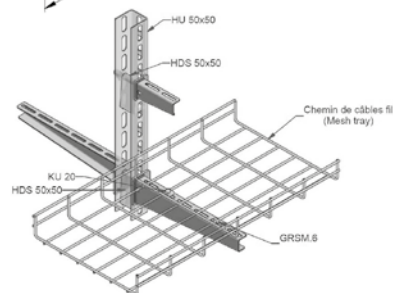
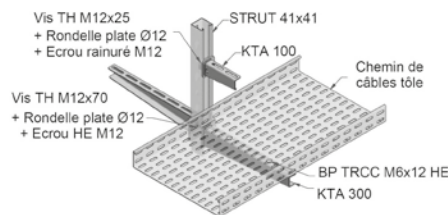
Longueur standard 3m

### CONSOLES KTA

| p  | Désignation   | Code   | Masse<br>kg/p | H.<br>mm | L.<br>mm | daN |
|----|---------------|--------|---------------|----------|----------|-----|
| GC | 20 KTA 100 GC | 701992 | 0.200         | 45       | 110      | 250 |
|    | 20 KTA 150 GC | 701993 | 0.250         | 45       | 160      | 250 |
|    | 20 KTA 200 GC | 705594 | 0.300         | 55       | 210      | 250 |
|    | 20 KTA 300 GC | 701995 | 0.600         | 65       | 310      | 250 |
|    | 20 KTA 400 GC | 701997 | 0.800         | 75       | 410      | 250 |
|    | 10 KTA 500 GC | 701999 | 1.200         | 90       | 510      | 250 |
|    | 10 KTA 600 GC | 702001 | 1.350         | 90       | 610      | 250 |
|    | 1 KTA 700 GC  | 702002 | 1.800         | 195      | 730      | 350 |
|    | 1 KTA 800 GC  | 702003 | 2.000         | 195      | 830      | 350 |
|    | 1 KTA 900 GC  | 702004 | 2.300         | 195      | 930      | 350 |
|    | 1 KTA 1000 GC | 702005 | 2.600         | 195      | 1030     | 350 |

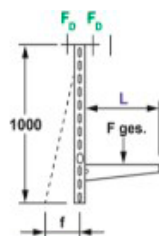
Peut également se monter sur rail STRUT 41x41

- Conditionnées avec boulons [2TRCC M6x12 par console]
- Unité de vente minimum : 1 boîte

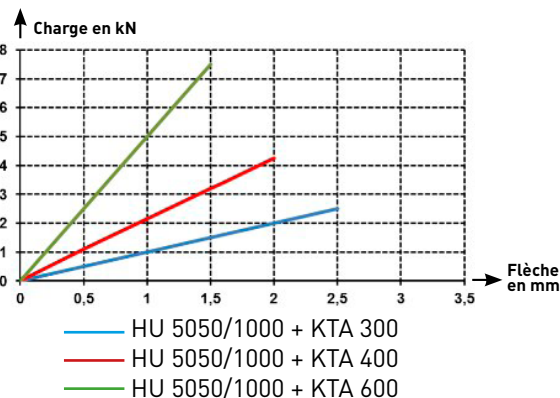
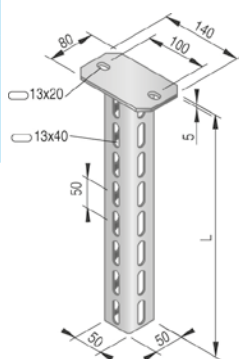


### PENDARDS HU 5050

| p  | Désignation       | Code   | Masse<br>kg/p |
|----|-------------------|--------|---------------|
| GC | 1 HU 5050 300 GC  | 708327 | 1.150         |
|    | 1 HU 5050 500 GC  | 708329 | 1.600         |
|    | 1 HU 5050 700 GC  | 706286 | 2.100         |
|    | 1 HU 5050 900 GC  | 708332 | 2.560         |
|    | 1 HU 5050 1000 GC | 708333 | 2.800         |



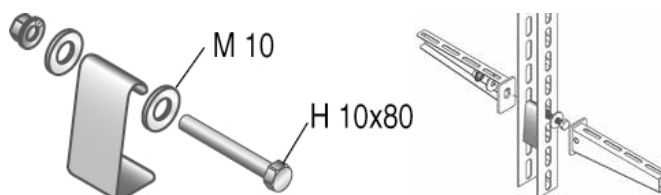
| $F_D$     | L = 300 mm   | L = 600 mm    |
|-----------|--------------|---------------|
| DAZ 12X10 | F max 2,7 kN | F max 1,65 kN |



### ENTRETOISE HDS 5050

| p  | Désignation    | Code   | Masse<br>kg/p |
|----|----------------|--------|---------------|
| GC | 50 HDS 5050 GC | 931705 | 0.075         |

Boulonnerie incluse



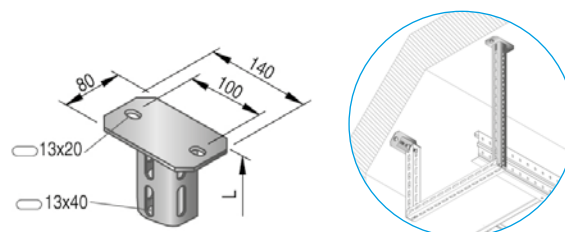
**RAILS ET SUPPORTS U 5050**
**EMBOUIT K 5050**

|     | p  | Désignation | Code   | Masse<br>Kg/p |
|-----|----|-------------|--------|---------------|
| PVC | 10 | K 5050 PVC  | 710610 | 3.000         |


**PLAQUES ET SEMELLES U 5050**
**PLAQUE DE TÊTE KU 5050**

|    | p | Désignation    | Code   | Masse<br>kg/p |
|----|---|----------------|--------|---------------|
| GC | 1 | PDT KU 5050 GC | 702072 | 0.810         |

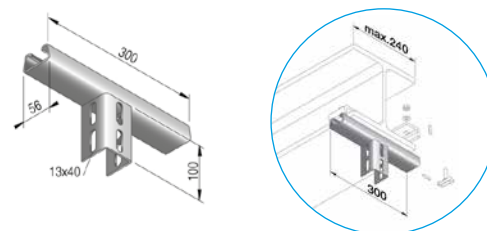
Boulonnerie incluse (2 BP TRCC M10x25)


**PLAQUE DE TÊTE KUDP 5050**

|    | p | Désignation  | Code   | Masse<br>kg/p |
|----|---|--------------|--------|---------------|
| GC | 1 | KUDP 5050 GC | 702154 | 1.430         |

Boulonnerie incluse (2 BP TRCC M10x25)

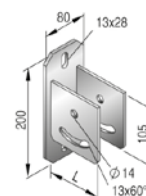
Pour fixation sur IPN prévoir 2 crapauds HSK et 2 boulons losange 56 HK M12


**PLAQUE DE TÊTE KUGH 5050**

|    | p | Désignation      | Code   | Masse<br>kg/p | L<br>mm | Ep.<br>mm |
|----|---|------------------|--------|---------------|---------|-----------|
| GC | 1 | PDT KUGH 5050 GC | 702088 | 1.810         | 106     | 6         |

Boulonnerie incluse (Boulon TH M10x80 + HE)

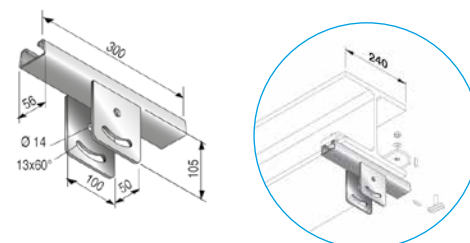
Plaque de tête horizontale à angle variable


**PLAQUE DE TÊTE KUGP 5050**

|    | p | Désignation      | Code   | Masse<br>kg/p | L<br>mm | Ep.<br>mm |
|----|---|------------------|--------|---------------|---------|-----------|
| GC | 1 | PDT KUGP 5050 GC | 702159 | 1.970         | 300     | 6         |

Boulonnerie incluse (Boulon TH M10x80 + HE)

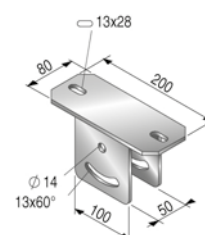
Pour fixation sur IPN prévoir 2 crapauds HSK et 2 boulons losange 56 HK M12


**PLAQUE DE TÊTE KUGV 5050**

|    | p | Désignation      | Code   | Masse<br>kg/p | L<br>mm | Ep.<br>mm |
|----|---|------------------|--------|---------------|---------|-----------|
| GC | 1 | PDT KUGV 5050 GC | 702086 | 1.810         | 111     | 6         |

Boulonnerie incluse (Boulon TH M10x80 + HE)

Plaque de tête verticale à angle variable



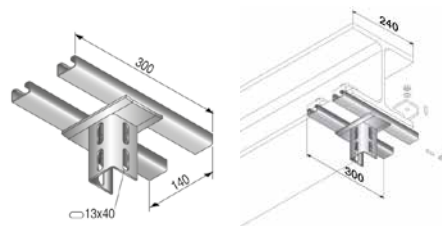
## PLAQUES ET SEMELLES U 5050

### PLAQUE DE TÊTE DOUBLE KUDK 5050

| p    | Désignation      | Code   | Masse<br>kg/p | L<br>mm | Ep.<br>mm |
|------|------------------|--------|---------------|---------|-----------|
| GC 1 | PDT KUDK 5050 GC | 702150 | 1.840         | 107     | 7         |

Boulonnerie incluse

Pour fixation sur IPN prévoir **4 crapauds HSK** et **4 boulons losange 40 HK M10**



### PLAQUE DE TÊTE DOUBLE KUGPK 5050

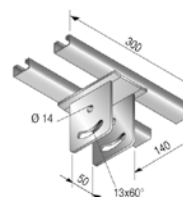
| p    | Désignation       | Code   | Masse<br>kg/p | L<br>mm | Ep.<br>mm |
|------|-------------------|--------|---------------|---------|-----------|
| GC 1 | PDT KUGPK 5050 GC | 702161 | 2.480         | 112     | 7         |

Boulonnerie incluse (2 boulons TH 10x80 + HE)

Pour fixation sur support horizontal incliné, d'une largeur max. 240 mm.

Positionnement : perpendiculaire au support

Pour fixation sur IPN prévoir **4 crapauds HSK** et **4 boulons losange 40 HK M10**



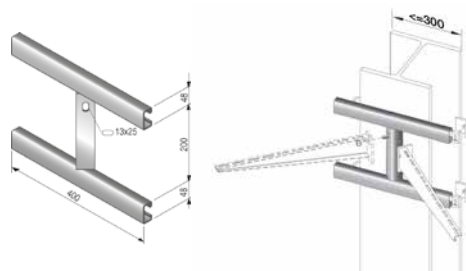
### SEMELLE DOUBLE 45° KWAT

| p    | Désignation | Code   | Masse<br>kg/p | L<br>mm | Ep.<br>mm |
|------|-------------|--------|---------------|---------|-----------|
| GC 1 | KWAT 300 GC | 708062 | 2.600         | 400     | 6         |

Boulonnerie incluse (1 boulon TH M10x25 + HE)

Pour fixation de consoles à 45° sur une poutre métallique d'une largeur inférieure ou égale à 300 mm.

Pour la fixation sur IPN prévoir **4 crapauds HSK** et **4 boulons losange 56 HK M10**

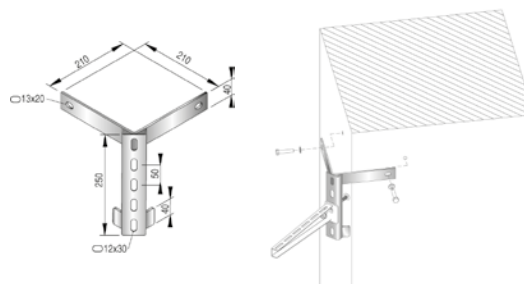


### SEMELLE SIMPLE BETON KWAE

| p    | Désignation | Code   | Masse<br>kg/p | L<br>mm | Ep.<br>mm |
|------|-------------|--------|---------------|---------|-----------|
| GC 1 | KWAE 200 GC | 708061 | 1.180         | 300     | 5         |

Boulonnerie incluse (1x TRCC M10x25)

Pour fixation de consoles à 45° sur constructions béton



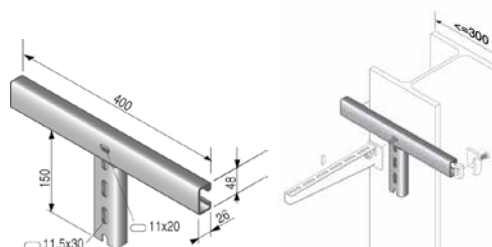
### SEMELLE KKAT

| p     | Désignation | Code   | Masse<br>kg/p | H.<br>mm | L.<br>mm | Ep.<br>mm |
|-------|-------------|--------|---------------|----------|----------|-----------|
| GC 10 | KKAT 300 GC | 705829 | 1.285         | 198      | 400      | 7         |

Boulonnerie incluse (1 TRCC M10x25)

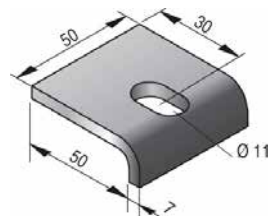
Pour fixation sur IPN prévoir **2 crapauds HSK** et **2 boulons losange 56 HK M10**

Pour la fixation de consoles à 90° sur poutres métalliques, d'une largeur inférieure ou égale à 300 mm.



**CRAPAUDS U 5050**
**CRAPAUDS HSK**

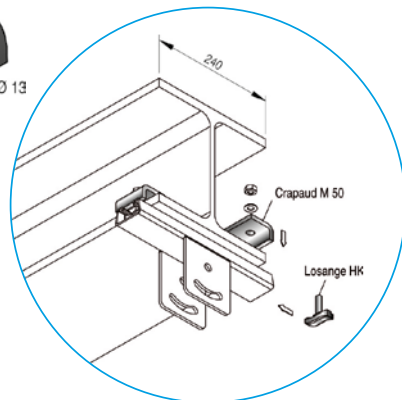
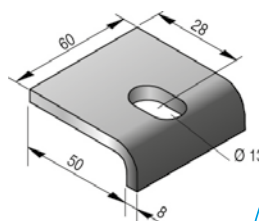
|    | p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|-------------|--------|---------------|-----------|
| GC | 50 | HSK 10 GC   | 195800 | 0.150         | 7         |
|    | 50 | HSK 15 GC   | 195909 | 0.180         | 7         |
|    | 50 | HSK 20 GC   | 196104 | 0.200         | 7         |
|    | 50 | HSK 25 GC   | 196203 | 0.240         | 7         |
|    | 50 | HSK 30 GC   | 196005 | 0.300         | 7         |
|    | 50 | HSK 35 GC   | 196302 | 0.360         | 7         |
|    | 50 | HSK 40 GC   | 196401 | 0.440         | 7         |



Recommandés pour fortes charges sur charpentes métalliques avec **profils STRUT 41** ou **UPN**.

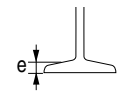
**CRAPAUDS HSKS**

|    | p  | Désignation | Code   | Masse<br>kg/p | Ep.<br>mm |
|----|----|-------------|--------|---------------|-----------|
| GC | 25 | HSKS 10 GC  | 196425 | 0.210         | 8         |
|    | 25 | HSKS 15 GC  | 196432 | 0.250         | 8         |
|    | 25 | HSKS 20 GC  | 196449 | 0.270         | 8         |
|    | 25 | HSKS 25 GC  | 196456 | 0.330         | 8         |
|    | 25 | HSKS 30 GC  | 196463 | 0.410         | 8         |
|    | 25 | HSKS 35 GC  | 196470 | 0.490         | 8         |
|    | 25 | HSKS 40 GC  | 196487 | 0.600         | 8         |



Recommandés pour fortes charges sur charpentes métalliques avec **profils STRUT 41** ou **UPN**.

Prévoir boulonnerie selon tableau ci dessous :

| ÉPAISSEUR<br>À SERRER (MM)                                                          | PROFIL<br>OU PRODUIT<br>À FIXER                                                                                  | CODE                                                                                                             | CRAPAUDS                                              |                                                                                                    | BOULONNERIE                                                              |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
|  |                                                                                                                  |                                                                                                                  |                                                       |                                                                                                    |                                                                          |
| 5>9<br>10>14                                                                        | <b>STRUT 41</b><br>           | 195800<br>195909                                                                                                 | Crapaud HSK 10<br>Crapaud HSK 15                      | <br><b>GC</b> | Prévoir : boulonnerie M10x30<br>+ écrou H ou losange M10                 |
| 15>19<br>20>24                                                                      |                                                                                                                  | 196104<br>196203                                                                                                 | Crapaud HSK 20<br>Crapaud HSK 25                      |                                                                                                    | Prévoir : boulonnerie M10x50<br>+ écrou H ou losange M10                 |
| 25>29<br>30>34<br>35>39                                                             | <b>UPN 40<br/>U 5050*</b><br> | 196005<br>196302<br>196401                                                                                       | Crapaud HSK 30<br>Crapaud HSK 35<br>Crapaud HSK 40    |                                                                                                    | Prévoir : boulonnerie M10x60<br>+ écrou H ou losange M10                 |
| 5>9<br>10>14<br>15>19                                                               | <b>STRUT 41</b><br>           | 196425<br>196432<br>196449                                                                                       | Crapaud HSKS 10<br>Crapaud HSKS 15<br>Crapaud HSKS 20 |               | Prévoir : boulonnerie M12x35<br>+ écrou H ou losange M12                 |
| 20>24<br>25>29<br>30>34<br>35>39                                                    |                                                                                                                  | <b>UPN 40<br/>U 5050*</b><br> | 196456<br>196463<br>196470<br>196487                  |                                                                                                    | Crapaud HSKS 25<br>Crapaud HSKS 30<br>Crapaud HSKS 35<br>Crapaud HSKS 40 |

\*Pour accessoires U 5050 : prévoir boulon losange HK

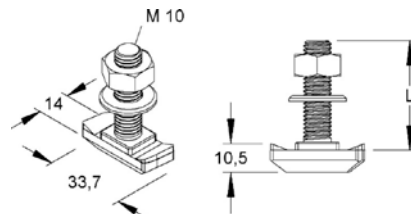


## CRAPAUDS U 5050

### BOULONS LOSANGE 40 HK M10

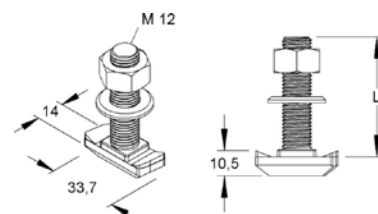
| p   | Désignation  | Code   | Masse<br>kg/100 |
|-----|--------------|--------|-----------------|
| 50  | HK 510/50 GC | 945504 | 5.900           |
| 100 | HK 510/30 GC | 945511 | 4.400           |
| 50  | HK 510/80 GC | 945535 | 7.700           |

Pour fixation des plaques de tête **KUDK 5050** et **KUGPK 5050**



### BOULONS LOSANGE 40 HK M12

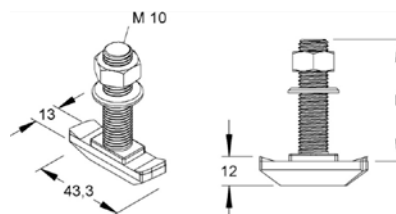
| p   | Désignation  | Code   | Masse<br>kg/100 |
|-----|--------------|--------|-----------------|
| 100 | HK 512/30 GC | 124251 | 7.100           |
| 50  | HK 512/50 GC | 124350 | 8.400           |
| 50  | HK 512/80 GC | 945528 | 11.500          |



### BOULONS LOSANGE 56 HK M10

| p   | Désignation  | Code   | Masse<br>kg/100 |
|-----|--------------|--------|-----------------|
| 100 | HK 610/30 GC | 709794 | 5.500           |
| 50  | HK 610/50 GC | 709747 | 6.200           |
| 50  | HK 610/80 GC | 945481 | 7.600           |

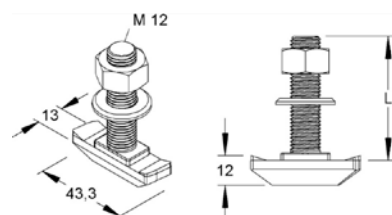
Pour fixation des semelles **KWAT** et **KKAT**



### BOULONS LOSANGE 56 HK M12

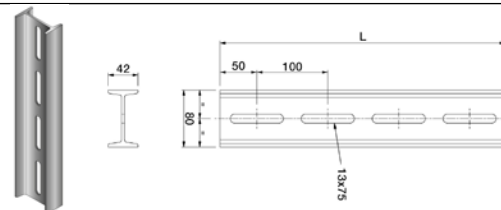
| p   | Désignation  | Code   | Masse<br>kg/100 |
|-----|--------------|--------|-----------------|
| 100 | HK 612/30 GC | 945474 | 7.400           |
| 50  | HK 612/40 GC | 124954 | 7.600           |
| 50  | HK 612/50 GC | 945467 | 8.300           |
| 50  | HK 612/80 GC | 945450 | 13.600          |

Pour fixation des plaques de tête **KUDP 5050** et **KUGP 5050**

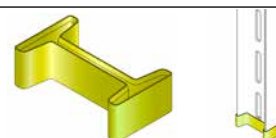


**IPN 80**
**IPN 80 PERFORÉS**

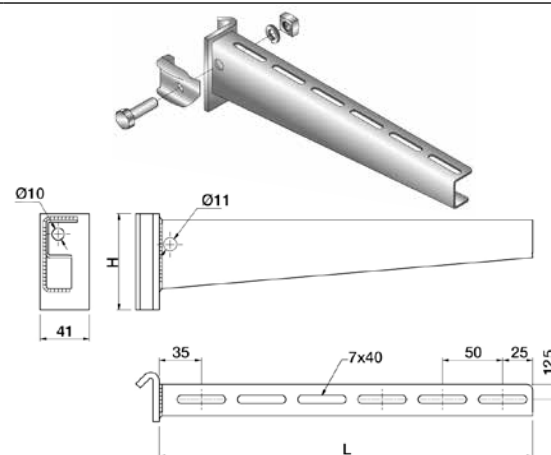
|    | m | Désignation | Code   | Masse<br>kg/ml | H.<br>mm | L.<br>mm |
|----|---|-------------|--------|----------------|----------|----------|
| GC | 3 | I 80 3M GC  | 701912 | 6.000          | 42       | 80       |
|    | 6 | I 80 6M GC  | 701913 | 6.000          | 42       | 80       |


**EMBOUT IPN SKI 80**

|    | p  | Désignation     | Code   | Masse<br>kg/p |
|----|----|-----------------|--------|---------------|
| PE | 20 | SKI 80 JAUNE PE | 709267 | 2.000         |


**CONSOLES KTT**

|    | p  | Désignation | Code   | Masse<br>kg/p | daN |
|----|----|-------------|--------|---------------|-----|
| GC | 20 | KTT 100 GC  | 701914 | 0.250         | 250 |
|    | 20 | KTT 150 GC  | 701915 | 0.350         | 250 |
|    | 20 | KTT 200 GC  | 701916 | 0.400         | 250 |
|    | 20 | KTT 300 GC  | 701918 | 0.600         | 250 |
|    | 20 | KTT 400 GC  | 701920 | 0.850         | 250 |
|    | 10 | KTT 500 GC  | 701922 | 1.160         | 250 |
|    | 10 | KTT 600 GC  | 701924 | 1.360         | 250 |

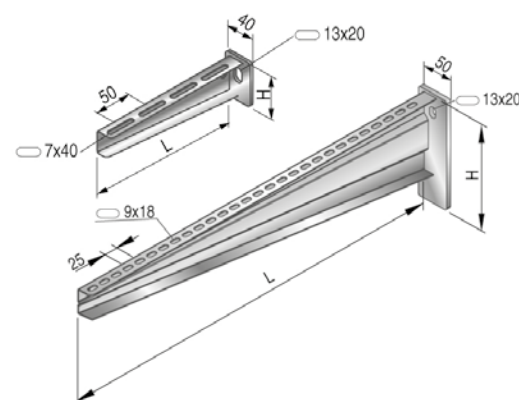


Fournies avec clame assemblée

- Conditionnées avec boulons (2TRCC M6x12 par console)
- Unité de vente minimum : 1 boîte

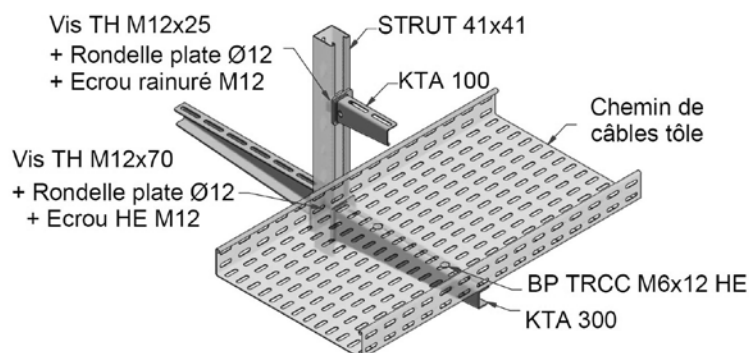
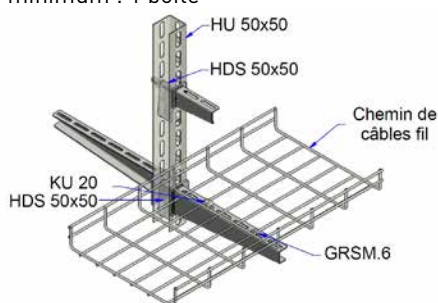
**CONSOLES KTA**

|    | p  | Désignation | Code   | Masse<br>kg/p | H.<br>mm | L<br>mm | daN |
|----|----|-------------|--------|---------------|----------|---------|-----|
| GC | 20 | KTA 100 GC  | 701992 | 0.200         | 45       | 110     | 250 |
|    | 20 | KTA 150 GC  | 701993 | 0.250         | 45       | 160     | 250 |
|    | 20 | KTA 200 GC  | 705594 | 0.300         | 55       | 210     | 250 |
|    | 20 | KTA 300 GC  | 701995 | 0.600         | 65       | 310     | 250 |
|    | 20 | KTA 400 GC  | 701997 | 0.800         | 75       | 410     | 250 |
|    | 10 | KTA 500 GC  | 701999 | 1.200         | 90       | 510     | 250 |
|    | 10 | KTA 600 GC  | 702001 | 1.350         | 90       | 610     | 250 |
|    | 1  | KTA 700 GC  | 702002 | 1.800         | 195      | 730     | 350 |
|    | 1  | KTA 800 GC  | 702003 | 2.000         | 195      | 830     | 350 |
|    | 1  | KTA 900 GC  | 702004 | 2.300         | 195      | 930     | 350 |
|    | 1  | KTA 1000 GC | 702005 | 2.600         | 195      | 1030    | 350 |



Peut également se monter sur rail **STRUT 41x41**

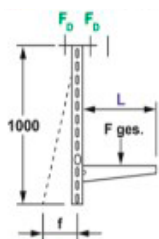
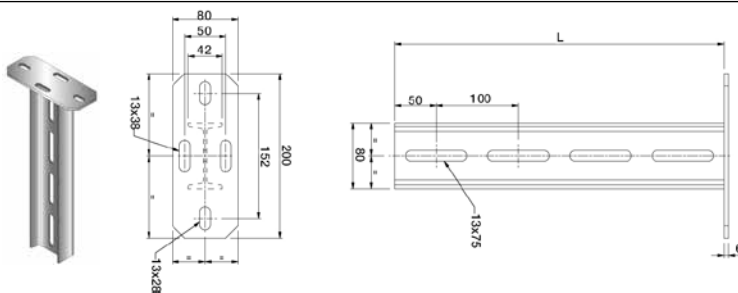
- Conditionnées avec boulons (2TRCC M6x12 par console)
- Unité de vente minimum : 1 boîte



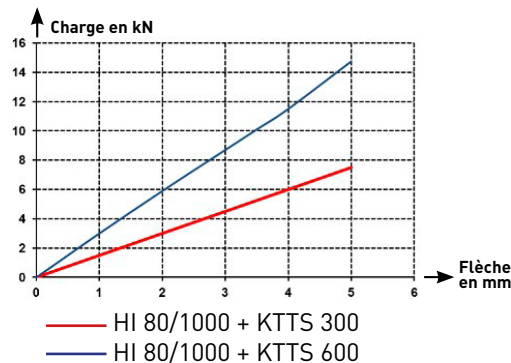
## IPN 80

### PENDARDS HI 80

| p  | Désignation     | Code   | Masse kg/p |
|----|-----------------|--------|------------|
| GC | 1 HI 80x500 GC  | 701883 | 3.600      |
|    | 1 HI 80x800 GC  | 701886 | 5.400      |
|    | 1 HI 80x1000 GC | 701888 | 6.600      |
|    | 1 HI 80x1300 GC | 701891 | 8.400      |
|    | 1 HI 80x1500 GC | 701893 | 9.600      |
|    | 1 HI 80x2000 GC | 701898 | 12.600     |



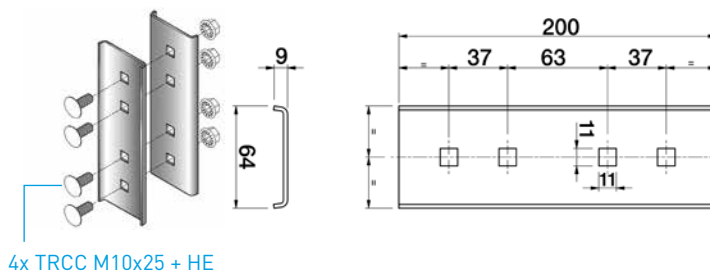
| $F_D$     | L = 300 mm   | L = 600 mm    |
|-----------|--------------|---------------|
| DAZ 12X10 | F max 4,1 kN | F max 2,75 kN |



### ÉCLISSE IPN VBI 80

| p  | Désignation            | Code   | Masse kg/p |
|----|------------------------|--------|------------|
| GC | 5 VBI 80 GC (la paire) | 702202 | 0.760      |

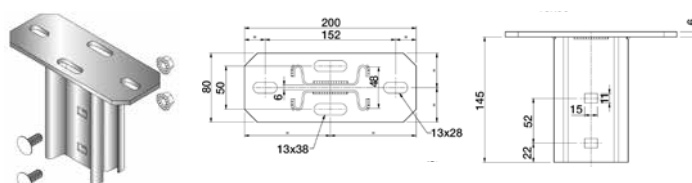
Livrée avec 4 boulons poêliers M10x25 GC



### PLAQUE DE TÊTE KI 80

| p  | Désignation    | Code   | Masse kg/p | L. mm |
|----|----------------|--------|------------|-------|
| GC | 1 PDT KI 80 GC | 702104 | 1.500      | 200   |

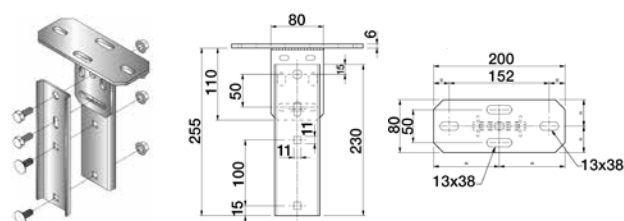
Livrée avec 2 boulons TRCC M10x25 GM



### PLAQUE DE TÊTE ORIENTABLE KIGV 80

| p  | Désignation       | Code   | Masse kg/p | H. mm | L. mm |
|----|-------------------|--------|------------|-------|-------|
| GC | 1 PDTO KIGV 80 GC | 702113 | 1.560      | 120   | 200   |

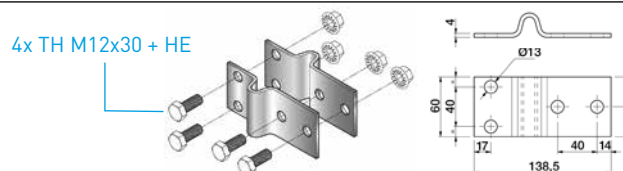
Livrée avec 2 éclisses et 4 boulons TRCC 10x25 GC



### PIÈCE D'ASSEMBLAGE VBIQ 80

| p  | Désignation      | Code   | Masse kg/p |
|----|------------------|--------|------------|
| GC | 5 VBIQ 80/140 GC | 709788 | 0.960      |

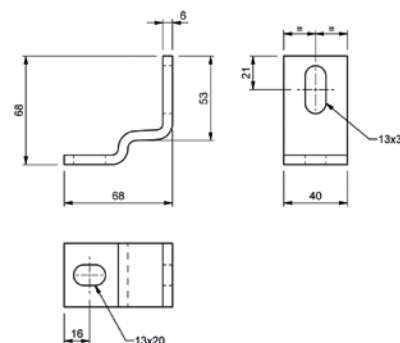
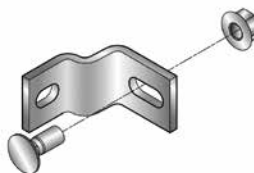
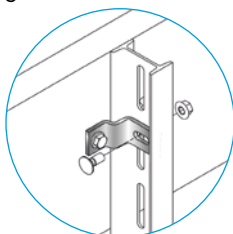
Fournie avec 4 TH M12x30 + HE



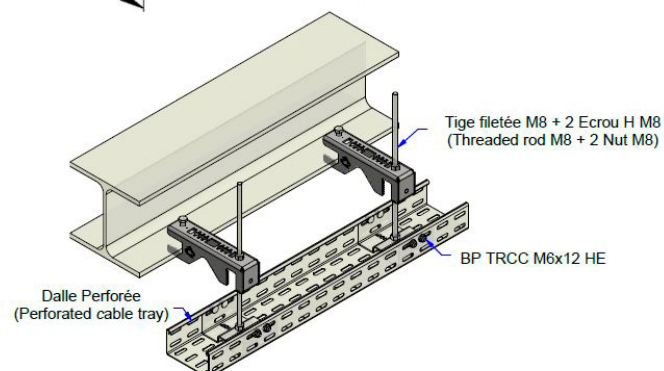
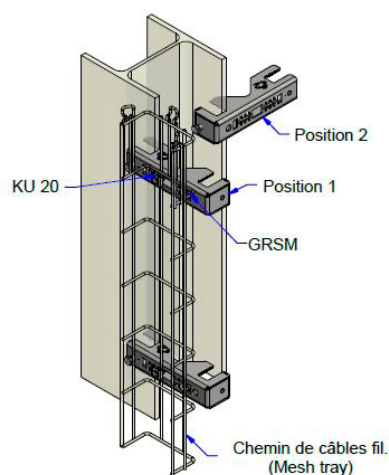
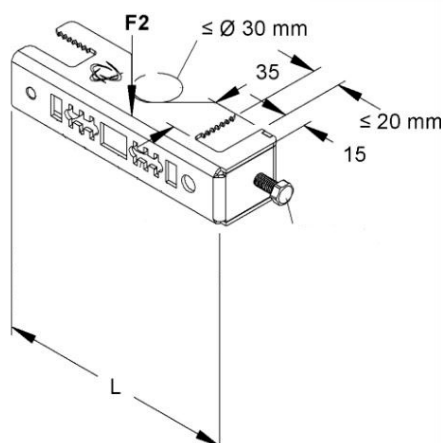
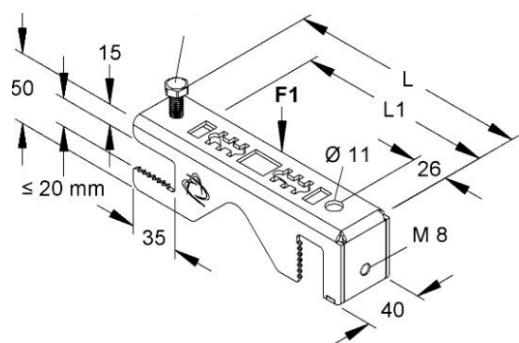
**IPN 80**
**FIXATION MURALE WWI 80**

| p  | Désignation  | Code   | Masse<br>kg/p |
|----|--------------|--------|---------------|
| GC | 50 WWI 80 GC | 702106 | 26.700        |

Fournie avec 1 TRCC 12x30 GC


**CRAPAUDS ET FIXATIONS IPN**
**ÉTRIER GRKHV**

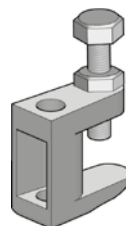
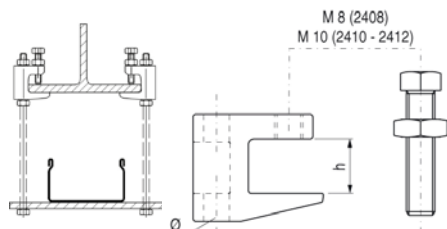
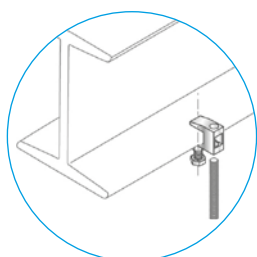
| p  | Désignation     | Code   | Masse<br>Kg/p | L<br>mm | L1<br>mm | F1<br>L/2 daN | F2<br>L/2 daN |
|----|-----------------|--------|---------------|---------|----------|---------------|---------------|
| SZ | 10 GRKHV 173 SZ | 710626 | 0.370         | 173     | 148      | 60            | 90            |
| GC | 10 GRKHV 173 GC | 710729 | 0.403         | 173     | 148      | 60            | 90            |
| I2 | 10 GRKHV 173 I2 | 710580 | 0.371         | 173     | 148      | 35            | 60            |



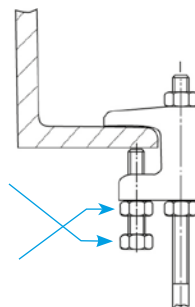
## CRAPAUDS ET FIXATIONS IPN

### PINCES À POUTRELLE

| p  | Désignation                  | Code   | Masse<br>kg/p | H.<br>mm | Ø<br>mm |
|----|------------------------------|--------|---------------|----------|---------|
| EZ | 25 PINCE A POUTRELLE PP 8 EZ | 678302 | 0.080         | 18       | 9       |
|    | 25 PINCE A POUTRELLE PP10 EZ | 678233 | 0.143         | 20       | 11      |
|    | 25 PINCE A POUTRELLE PP12 EZ | 678377 | 0.210         | 26       | 13      |



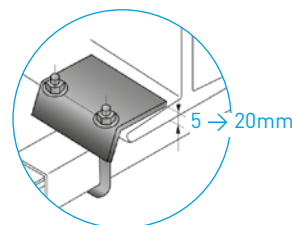
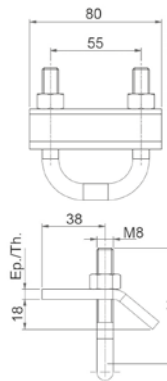
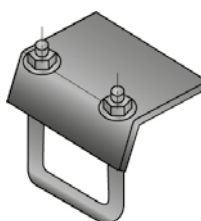
1. Serrer manuellement +1/2 tour de clef
2. Serrer manuellement +1/8 tour de clef



### PINCES ÉTRIER STRUT 41

| p  | Désignation                   | Code   | Masse<br>kg/p | H.<br>mm |
|----|-------------------------------|--------|---------------|----------|
| GC | 25 PINCE ÉTRIER STRUT41x21 GC | 678229 | 0.340         | 70       |
|    | 25 PINCE ÉTRIER STRUT41x41 GC | 678084 | 0.350         | 100      |
|    | 25 PINCE ÉTRIER STRUT41x82 GC | 678083 | 0.360         | 140      |

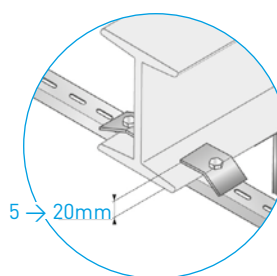
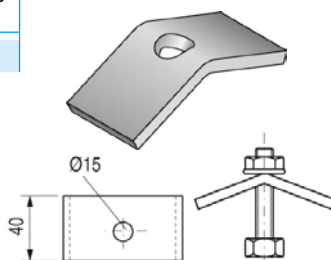
- Plage de serrage de 5 à 20 mm
- Livrée avec boulonnerie
- Pince 41x21 : Ø8
- Pinces 41x41 et 41x82 : Ø10



### PINCE DE SERRAGE

| p  | Désignation                 | Code   | Masse<br>kg/p |
|----|-----------------------------|--------|---------------|
| GC | 25 PINCE DE SERRAGE 5-20 GC | 678240 | 0.180         |

- Livrée sans boulons
- Épaisseur de serrage de 5 à 20 mm
- Fixations à prévoir :
- Vis TH M12x50 + écrou cranté HE M12



- Boulonnerie à prévoir :**
- TH 12x50 + HU M12 + rondelle AZ 12
  - TH 10x50 + HU M10 + rondelle AZ 10

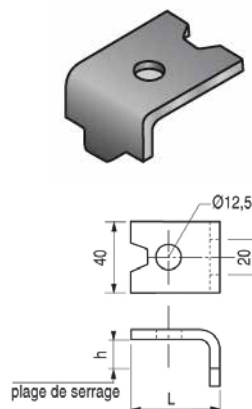
### SACHETS DE 10 CRAPAUDS STRUT 41

| u  | Désignation                     | Code   | Masse<br>kg/u |
|----|---------------------------------|--------|---------------|
| GC | 5 CRAPAUDS STRUT41 H10 GC (10P) | 205042 | 1.867         |
|    | 5 CRAPAUDS STRUT 41 H20 GC      | 205043 | 2.088         |

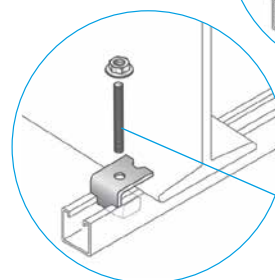
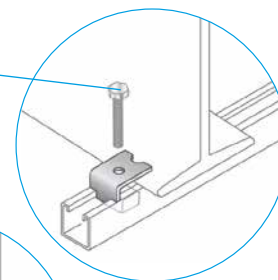
#### Fournis avec :

- Tige Ø10x50 ou Ø10x70
- Ecrou losange M10
- Ecrou cranté M10

Plage de serrage h = +/- 5mm



**À prévoir :**  
écrou losange M12  
+ H 12x50



**Fourni :**  
tige Ø10x50 ou 70  
+ écrou losange M10  
+ écrou cranté HE M10

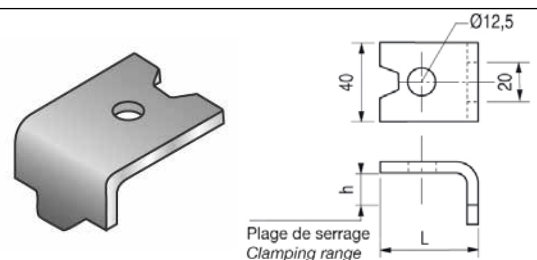
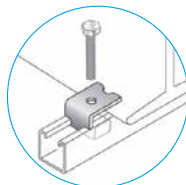


**CRAPAUDS ET FIXATIONS IPN**
**CRAPAUDS STRUT 41**

| p  | Désignation                  | Code          | Masse<br>kg/p | Ep.<br>mm | H.<br>mm | L.<br>mm |
|----|------------------------------|---------------|---------------|-----------|----------|----------|
| GC | 25 CRAPAUD STRUT41 H5-15 GC  | <b>678082</b> | 0.110         | 6.00      | 10       | 60       |
|    | 25 CRAPAUD STRUT41 H15-25 GC | <b>678378</b> | 0.150         | 6.00      | 20       | 60       |
|    | 25 CRAPAUD STRUT41 H25-35 GC | <b>678238</b> | 0.178         | 6.00      | 40       | 70       |

**Plage de serrage h = +/- 5mm**

Prévoir : écrou losange à ressort M12 + vis TH12x50


**CRAPAUDS HSK**

| p  | Désignation  | Code          | Masse<br>kg/p | Ep.<br>mm |
|----|--------------|---------------|---------------|-----------|
| GC | 50 HSK.10 GC | <b>195800</b> | 0.150         | 7         |
|    | 50 HSK.15 GC | <b>195909</b> | 0.180         | 7         |
|    | 50 HSK.20 GC | <b>196104</b> | 0.200         | 7         |
|    | 50 HSK.25 GC | <b>196203</b> | 0.240         | 7         |
|    | 50 HSK.30 GC | <b>196005</b> | 0.300         | 7         |
|    | 50 HSK.35 GC | <b>196302</b> | 0.360         | 7         |
|    | 50 HSK.40 GC | <b>196401</b> | 0.440         | 7         |

Recommandés pour fortes charges sur charpentes métalliques avec **profils STRUT 41** ou **UPN**.

**CRAPAUDS HSKS**

| p  | Désignation   | Code          | Masse<br>kg/p | Ep.<br>mm |
|----|---------------|---------------|---------------|-----------|
| GC | 25 HSKS.10 GC | <b>196425</b> | 0.210         | 8         |
|    | 25 HSKS.15 GC | <b>196432</b> | 0.250         | 8         |
|    | 25 HSKS.20 GC | <b>196449</b> | 0.270         | 8         |
|    | 25 HSKS.25 GC | <b>196456</b> | 0.330         | 8         |
|    | 25 HSKS.30 GC | <b>196463</b> | 0.410         | 8         |
|    | 25 HSKS.35 GC | <b>196470</b> | 0.490         | 8         |
|    | 25 HSKS.40 GC | <b>196487</b> | 0.600         | 8         |

Recommandés pour fortes charges sur charpentes métalliques avec profils **STRUT 41** ou **UPN**.

Prévoir boulonnerie selon tableau ci dessous :

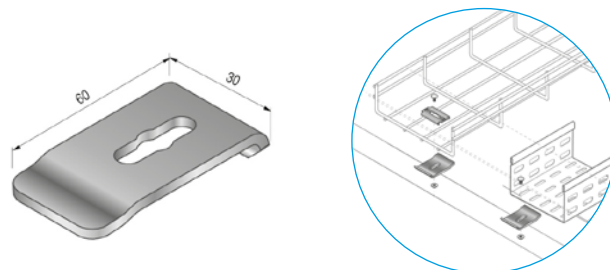
| ÉPAISSEUR<br>À SERRER (MM)       | PROFIL<br>OU PRODUIT<br>À FIXER                                                                                        | CODE                                 | CRAPAUDS                                                                 | BOULONNERIE                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5>9<br>10>14                     | <b>STRUT 41</b><br>                 | 195800<br>195909                     | Crapaud HSK.10<br>Crapaud HSK.15                                         | <br>GC<br>Prévoir : boulonnerie M10x30 + écrou H ou losange M10 |
| 15>19<br>20>24                   |                                                                                                                        | 196104<br>196203                     | Crapaud HSK.20<br>Crapaud HSK.25                                         |                                                                                                                                                      |
| 25>29<br>30>34<br>35>39          | <b>UPN 40</b><br><b>U.5050*</b><br> | 196005<br>196302<br>196401           | Crapaud HSK.30<br>Crapaud HSK.35<br>Crapaud HSK.40                       | Prévoir : boulonnerie M10x60 + écrou H ou losange M10                                                                                                |
| 5>9<br>10>14<br>15>19            | <b>STRUT 41</b><br>                 | 196425<br>196432<br>196449           | Crapaud HSKS.10<br>Crapaud HSKS.15<br>Crapaud HSKS.20                    | <br>Prévoir : boulonnerie M12x35 + écrou H ou losange M12       |
| 20>24<br>25>29<br>30>34<br>35>39 |                                                                                                                        | 196456<br>196463<br>196470<br>196487 | Crapaud HSKS.25<br>Crapaud HSKS.30<br>Crapaud HSKS.35<br>Crapaud HSKS.40 |                                                                                                                                                      |
|                                  | <b>UPN 40</b><br><b>U.5050*</b><br> |                                      |                                                                          | Prévoir : boulonnerie M12x50 + écrou H ou losange M12                                                                                                |

\*Pour accessoires U.5050 : prévoir boulon losange HK



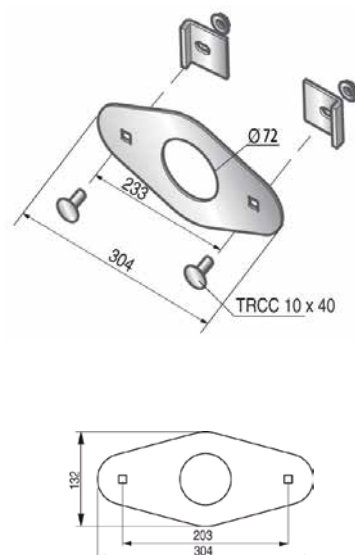
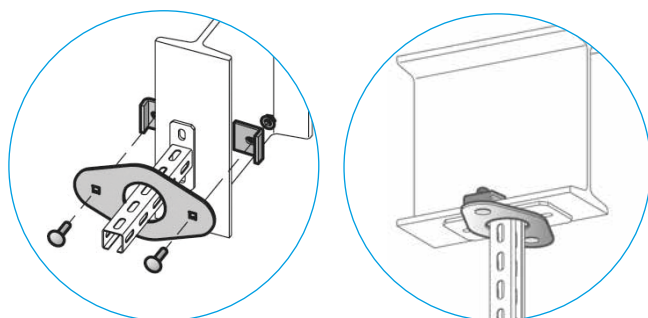
**CRAPAUDS ET FIXATIONS IPN**
**CLAMES SL**

|           | p   | Désignation | Code          | Masse<br>kg/p |
|-----------|-----|-------------|---------------|---------------|
| <b>SZ</b> | 100 | CLAME SL SZ | <b>578995</b> | 0.041         |
|           | p   | Désignation | Code          | Masse<br>kg/p |
| <b>GC</b> | 100 | CLAME SL GC | <b>579995</b> | 0.041         |

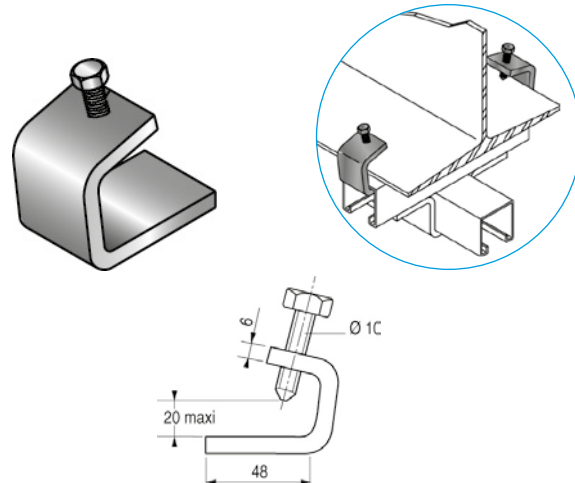

**BRIDE SU 35**

|           | p  | Désignation       | Code          | Masse<br>kg/p | Ep.<br>mm |
|-----------|----|-------------------|---------------|---------------|-----------|
| <b>GC</b> | 10 | BRIDE SU 35 45 GC | <b>012277</b> | 1.335         | 5.00      |

Pour IPE et IPN de dimensions comprises entre 80 et 300 mm  
 Livrée avec boulons et accessoires  
 Compatible **consoles SU 35** et **pendard SU 45**


**PINCE IPN**

|           | p  | Désignation          | Code          | Masse<br>kg/p | Ep.<br>mm |
|-----------|----|----------------------|---------------|---------------|-----------|
| <b>GC</b> | 25 | PINCE IPN H20+VIS GC | <b>678086</b> | 0.177         | 6         |

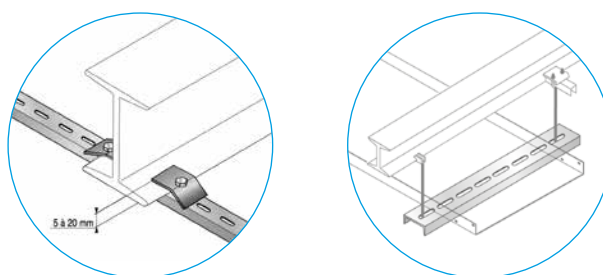
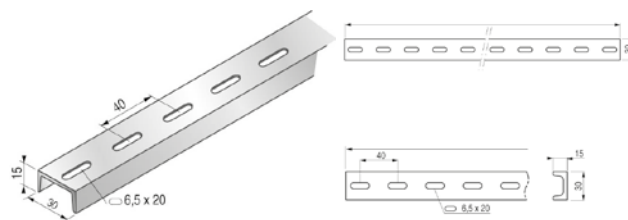


## UPN PERFORÉS

Applications pour supports lourds mécano soudés à dimension

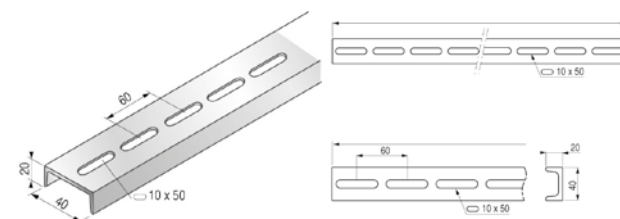
### UPN PERFORÉS 30

|     | m | Désignation         | Code          | Masse<br>kg/ml | Ep.<br>mm |
|-----|---|---------------------|---------------|----------------|-----------|
| LAC | 3 | UPN 15x30x15 3M LAC | <b>641006</b> | 1.490          | 4.00      |
|     | 6 | UPN 15x30x15 6M LAC | <b>641001</b> | 1.490          | 4.00      |
|     | m | Désignation         | Code          | Masse<br>kg/ml | Ep.<br>mm |
| GC  | 3 | UPN 15x30x15 3M GC  | <b>642006</b> | 1.638          | 4.00      |
|     | 6 | UPN 15x30x15 6M GC  | <b>642001</b> | 1.638          | 4.00      |



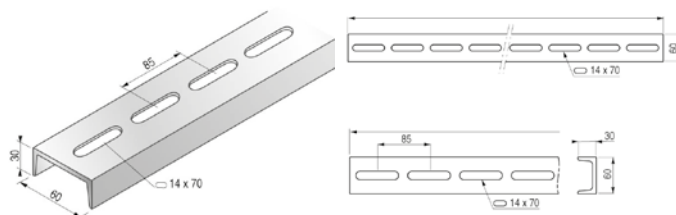
### UPN PERFORÉS 40

|     | m | Désignation         | Code          | Masse<br>kg/ml | Ep.<br>mm |
|-----|---|---------------------|---------------|----------------|-----------|
| LAC | 3 | UPN 20x40x20 3M LAC | <b>641003</b> | 2.420          | 5.00      |
|     | 6 | UPN 20x40x20 6M LAC | <b>641002</b> | 2.420          | 5.00      |
|     | m | Désignation         | Code          | Masse<br>kg/ml | Ep.<br>mm |
| GC  | 3 | UPN 20x40x20 3M GC  | <b>642003</b> | 2.660          | 5.00      |
|     | 6 | UPN 20x40x20 6M GC  | <b>642002</b> | 2.660          | 5.00      |



### UPN PERFORÉS 60

|     | m | Désignation         | Code          | Masse<br>kg/ml | Ep.<br>mm |
|-----|---|---------------------|---------------|----------------|-----------|
| LAC | 3 | UPN 30x60x30 3M LAC | <b>641007</b> | 4.220          | 6.00      |
|     | 6 | UPN 30x60x30 6M LAC | <b>641004</b> | 4.220          | 6.00      |
|     | m | Désignation         | Code          | Masse<br>kg/ml | Ep.<br>mm |
| GC  | 3 | UPN 30x60x30 3M GC  | <b>642007</b> | 4.647          | 6.00      |
|     | 6 | UPN 30x60x30 6M GC  | <b>642004</b> | 4.647          | 6.00      |



### UPN PERFORÉS 80

|     | m | Désignation         | Code          | Masse<br>kg/ml | Ep.<br>mm |
|-----|---|---------------------|---------------|----------------|-----------|
| LAC | 3 | UPN 45x80x45 3M LAC | <b>641008</b> | 6.870          | 6.00      |
|     | 6 | UPN 45x80x45 6M LAC | <b>641005</b> | 6.870          | 6.00      |
|     | m | Désignation         | Code          | Masse<br>kg/ml | Ep.<br>mm |
| GC  | 3 | UPN 45x80x45 3M GC  | <b>642008</b> | 7.557          | 6.00      |
|     | 6 | UPN 45x80x45 6M GC  | <b>642005</b> | 7.557          | 6.00      |

