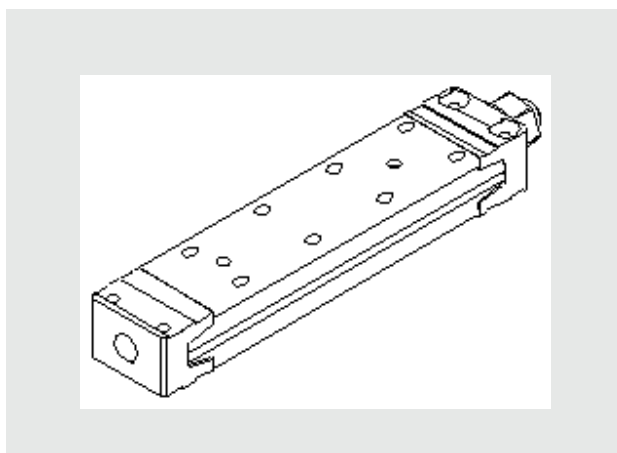


Montageanleitung

Construction Manual

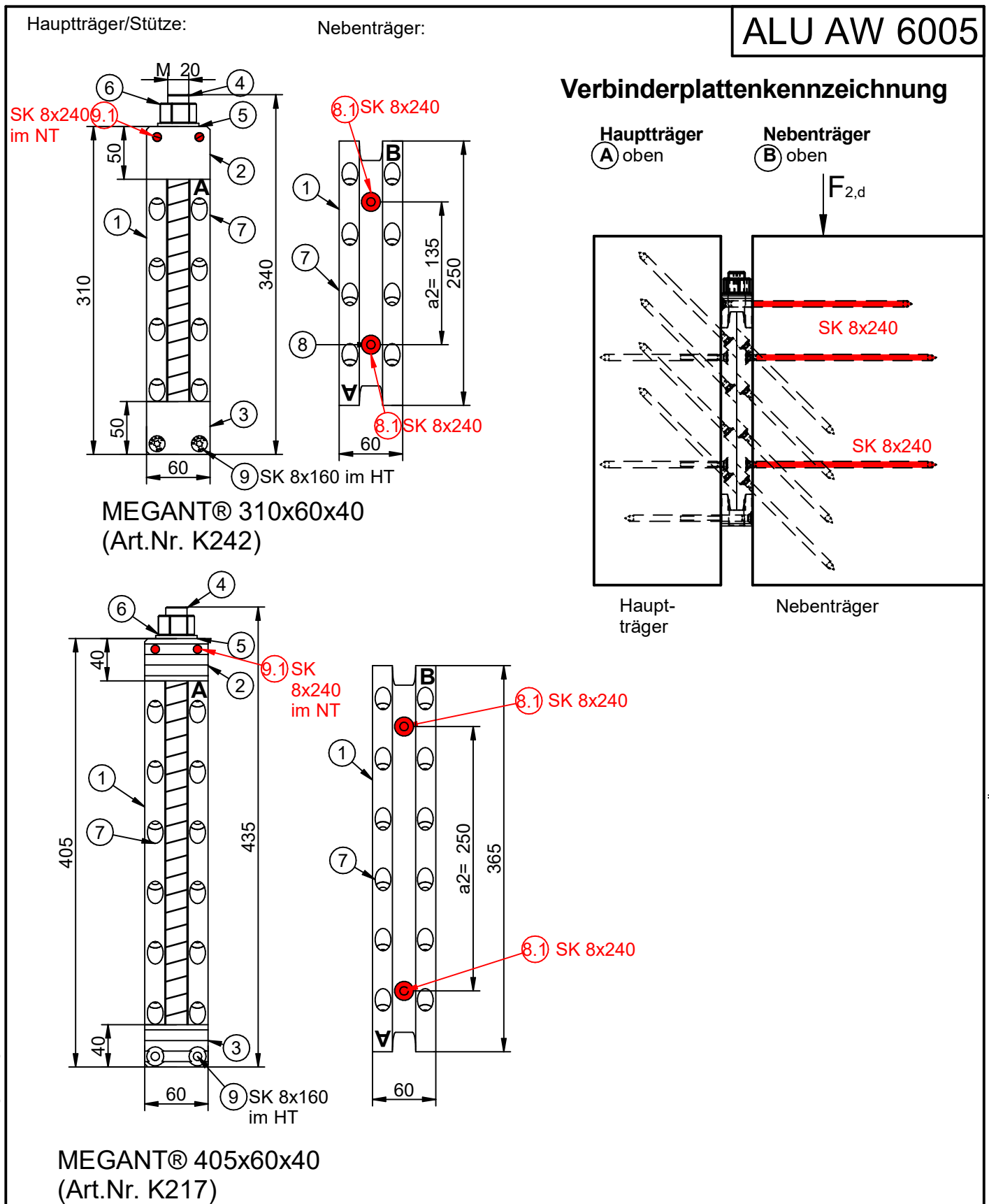
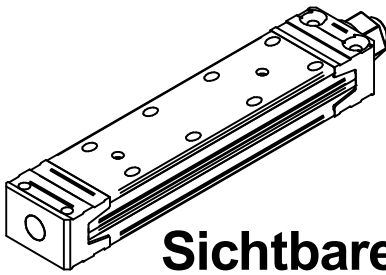
Notice de montage

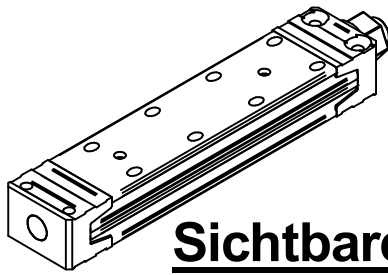
VERSION



Art.-Nr.

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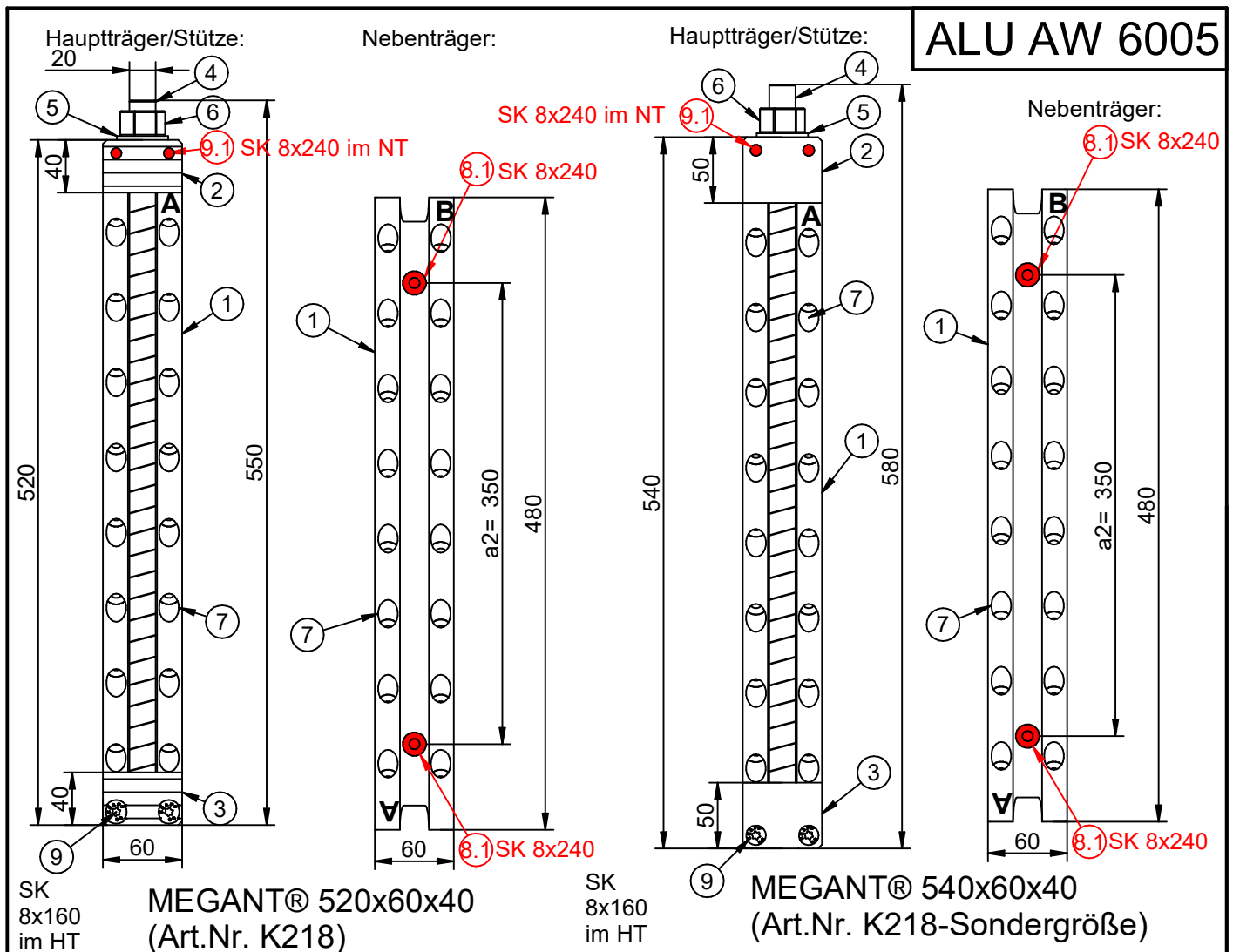




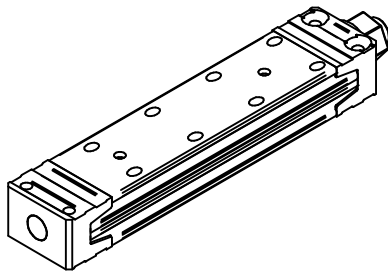
# MEGANT® 60

**Sichtbarer Einbau**

Übersicht Standardgrößen



| Pos Nr. | Art. Nr.   | Bauteil             | MEGANT Größen (AW6005) |               |               |                  |
|---------|------------|---------------------|------------------------|---------------|---------------|------------------|
|         |            |                     | 310x60x40              | 405x60x40     | 520x60x40     | 540x60x40        |
|         |            |                     | Art.Nr. K242           | Art. Nr. K217 | Art. Nr. K218 | Art. Nr. K218 So |
| 1       | K200-K202  | Verbinderplatte     | 250x60x20              | 365x60x20     | 480x60x20     | 480x60x20        |
| 2       | K207       | Spannbacke oben     | 50x40x60; D20          | 40x40x60; D20 | 40x40x60; D20 | 50x40x60; D20    |
| 3       | K208       | Spannbacke unten    | 50x40x60; M20          | 40x40x60; M20 | 40x40x60; D20 | 50x40x60; D20    |
| 4       | Z924/Länge | Gewindestange       | 1xM20x340              | 1xM20x435     | 1xM20x550     | 1xM20x580        |
| 5       | Z657       | Beilagscheibe       | 1xM20                  | 1xM20         | 1xM20         | 1xM20            |
| 6       | Z656       | Mutter              | 1xM20                  | 1xM20         | 1xM20         | 1xM20            |
| 7       | Z581       | Schrägverschraubung | 16x SK8x160            | 24x SK8x160   | 32x SK8x160   | 32x SK8x160      |
| 8       | Z581       | H-Verschraubung     | 2x SK8x160             | 2x SK8x160    | 2x SK8x160    | 2x SK8x160       |
| 8.1     | Z672       | H-Verschraubung     | 2x SK8x240             | 2x SK8x240    | 2x SK8x240    | 2x SK8x240       |
| 9       | Z581       | Spannbacken-        | 2x SK8x160             | 2x SK8x160    | 2x SK8x160    | 2x SK8x160       |
| 9.1     | Z672       | Verschraubung       | 2x SK8x240             | 2x SK8x240    | 2x SK8x240    | 2x SK8x240       |

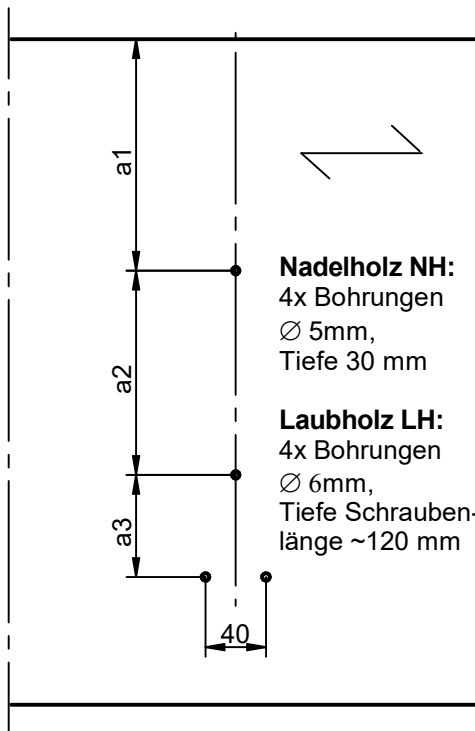


# MEGANT® 60

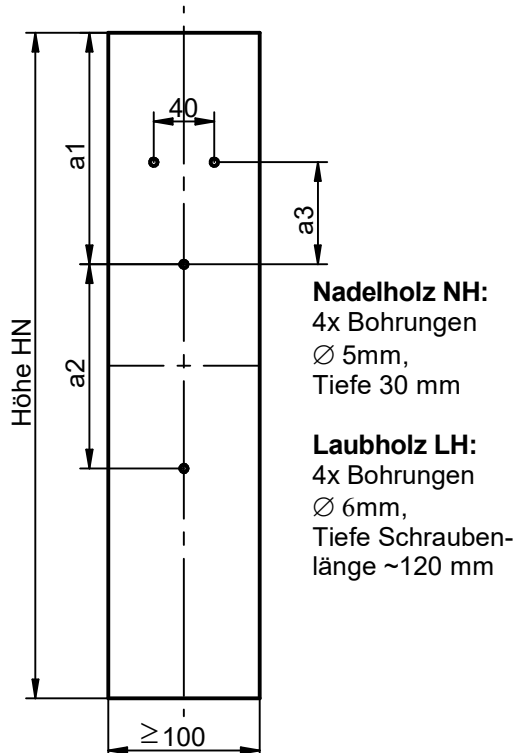
## Bohrbild sichtbarer mittiger Einbau

### Positionierbohrungen im Hauptträger erstellen !

ALU AW 6005

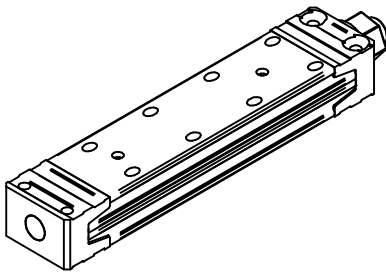


### Positionierbohrungen für mittige Montage im Nebenträger erstellen !



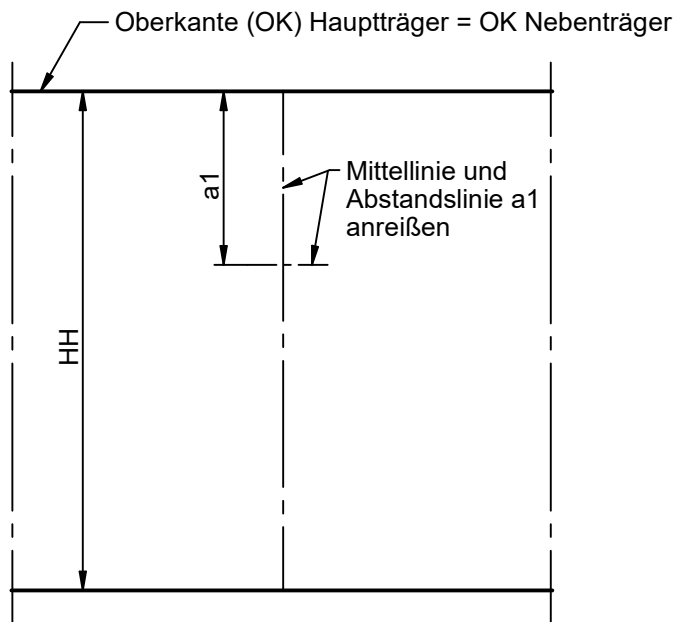
| Bohrmaße bei aufgeschraubten sichtbaren Einbau |                                                                         |         |         |         |
|------------------------------------------------|-------------------------------------------------------------------------|---------|---------|---------|
| Neben-träger                                   | Bohrabstände a1 in Abhängigkeit der Nebenträgerhöhe H <sub>N</sub> [mm] |         |         |         |
| Höhe                                           | MEGANT®                                                                 | MEGANT® | MEGANT® | MEGANT® |
| H <sub>N</sub> [mm]                            | 310x60                                                                  | 405x60  | 520x60  | 540x60  |
| 400                                            | 133                                                                     |         |         |         |
| 440                                            | 153                                                                     |         |         |         |
| 480                                            | 173                                                                     |         |         |         |
| 520                                            | 193                                                                     | 135     |         |         |
| 560                                            | 213                                                                     | 155     |         |         |
| 600                                            | 233                                                                     | 175     |         |         |
| 640                                            |                                                                         | 195     | 145     | 145     |
| 680                                            |                                                                         | 215     | 165     | 165     |
| 700                                            |                                                                         | 225     | 175     | 175     |
| 720                                            |                                                                         | 235     | 185     | 185     |
| 760                                            |                                                                         | 255     | 205     | 205     |
| 800                                            |                                                                         | 275     | 225     | 225     |
| 840                                            |                                                                         |         | 245     | 245     |
| 880                                            |                                                                         |         | 265     | 265     |
| 920                                            |                                                                         |         | 285     | 285     |
| 960                                            |                                                                         |         | 305     | 305     |
| 1000                                           |                                                                         |         | 325     | 325     |

| Abstände | MEGANT® | MEGANT® | MEGANT® | MEGANT® |
|----------|---------|---------|---------|---------|
|          | 310x60  | 405x60  | 520x60  | 540x60  |
| a2 [mm]  | 135     | 250     | 350     | 350     |
| a3 [mm]  | 78      | 68      | 75      | 85      |

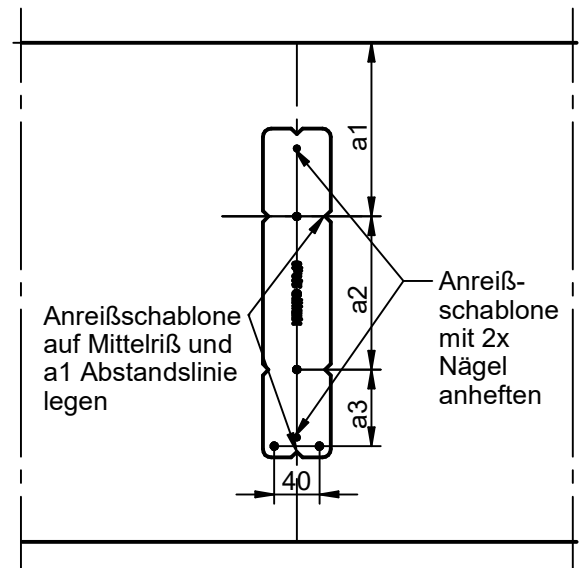


ALU AW 6005

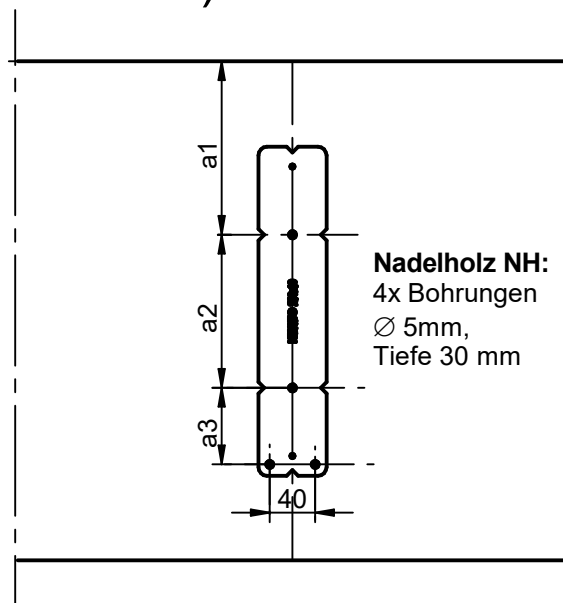
### 1.) Anreißen

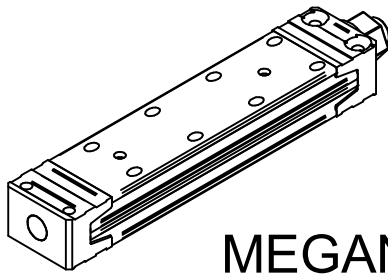


### 2.) Schablone auflegen



### 3.) Bohren



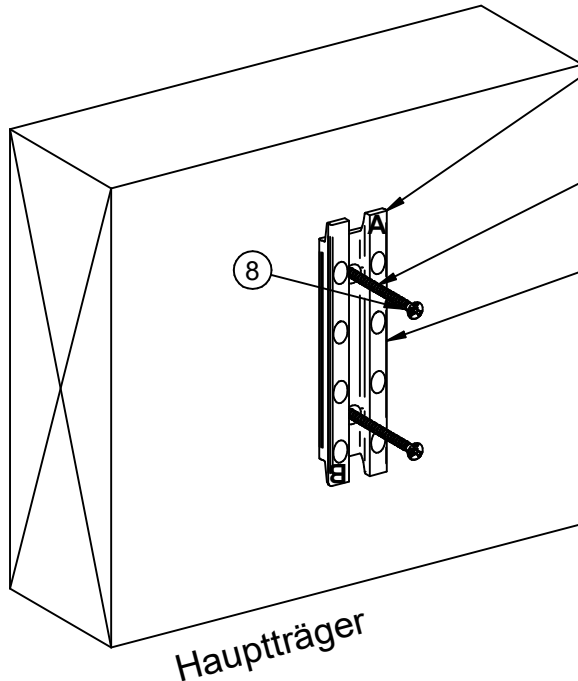


# MEGANT® 60

MEGANT sichtbar mit Hauptträger verschrauben

ALU AW 6005

1.)



(A) Plattenkennzeichnung  
beim Hauptträger oben !

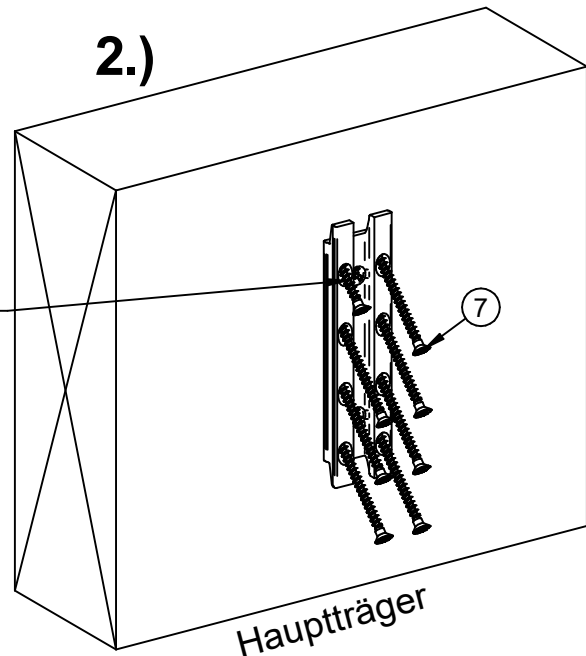
Horizontalschrauben (8) in  
Positionsbohrungen schrauben

Verbindeplatte (1)

Hauptträger

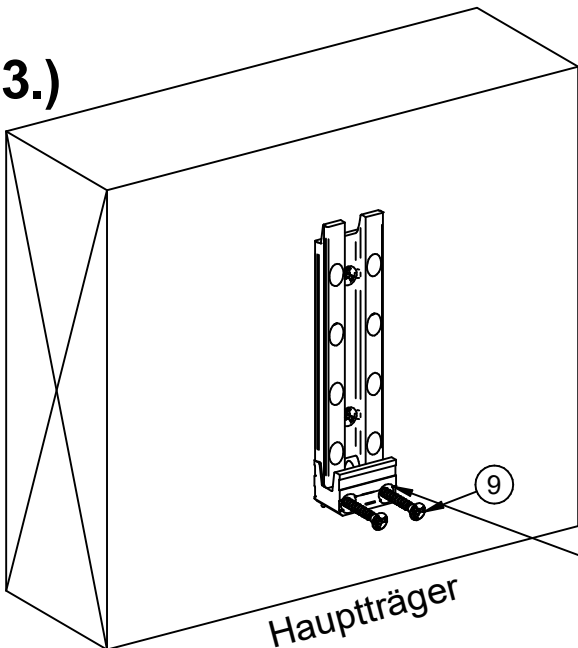
Schrägschrauben (7) in  
Verbindeplatte (1) von oben  
reihenweise eindrehen  
max. Anzugsdrehmoment  
Mt = 20 Nm  
(Auf festen Sitz achten)

2.)



Hauptträger

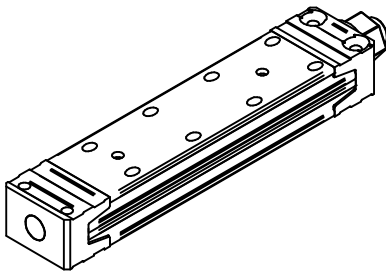
3.)



Hauptträger

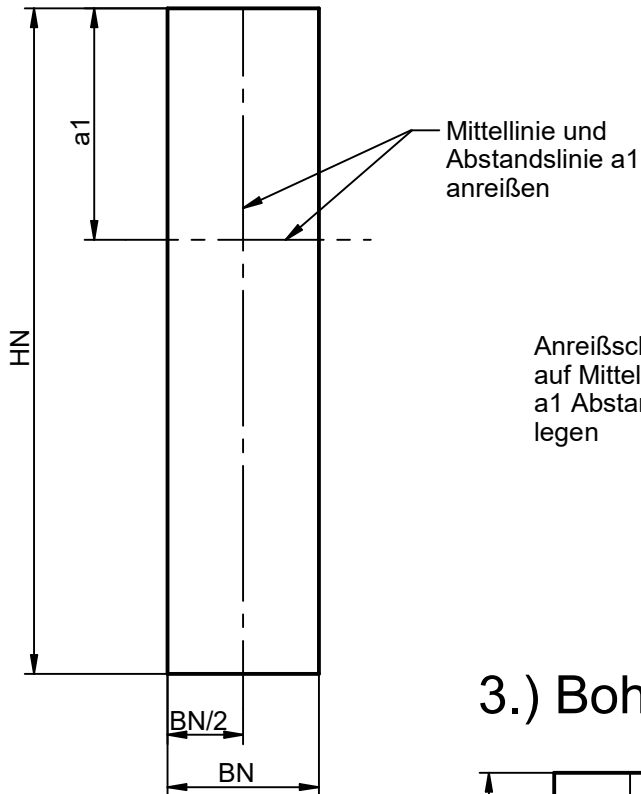
Für Hauptträger aus **Laubholz** werden  
**SK 8x120** Schrauben i.d.R. verwendet.

Spannbacke (3) unten in  
Positionsbohrungen  
mit Horizontalschrauben (9)  
schrauben

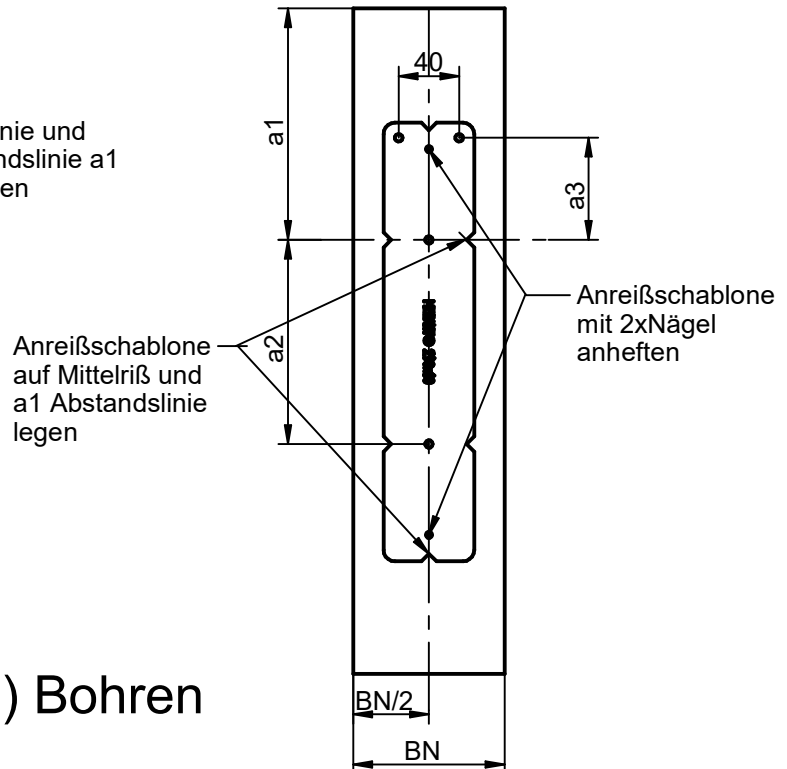


ALU AW 6005

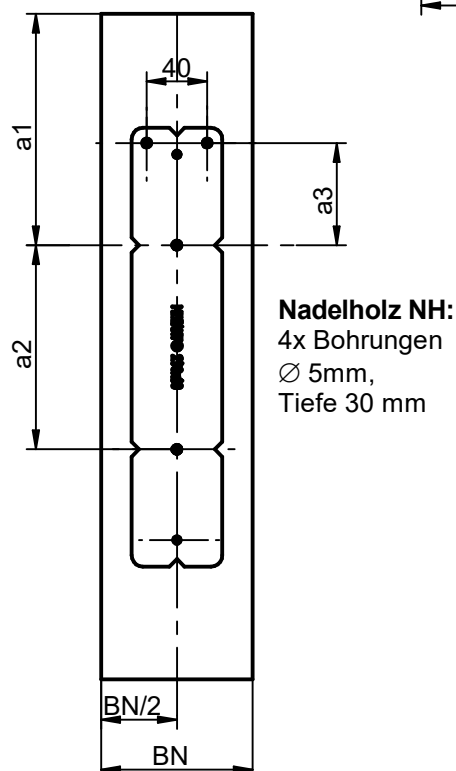
### 1.) Anreißen

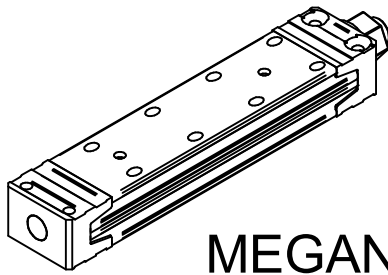


### 2.) Schablone auflegen



### 3.) Bohren



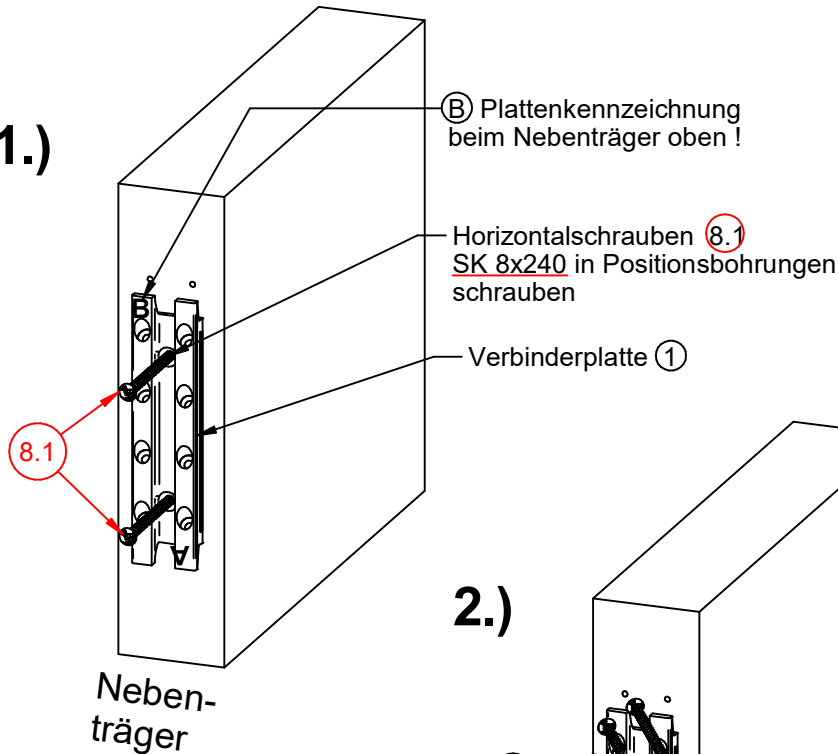


# MEGANT® 60

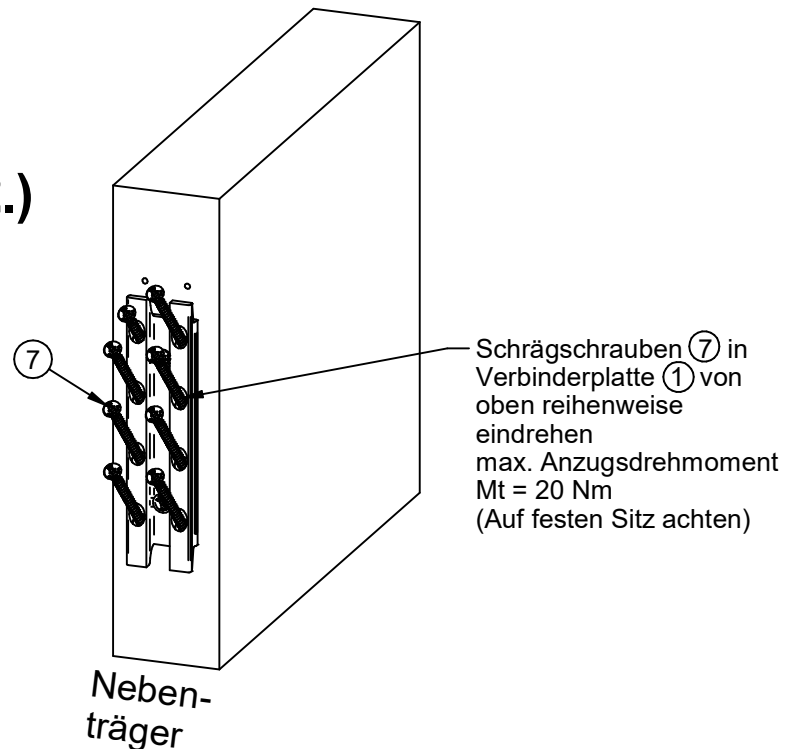
MEGANT sichtbar mit Nebenträger verschrauben

ALU AW 6005

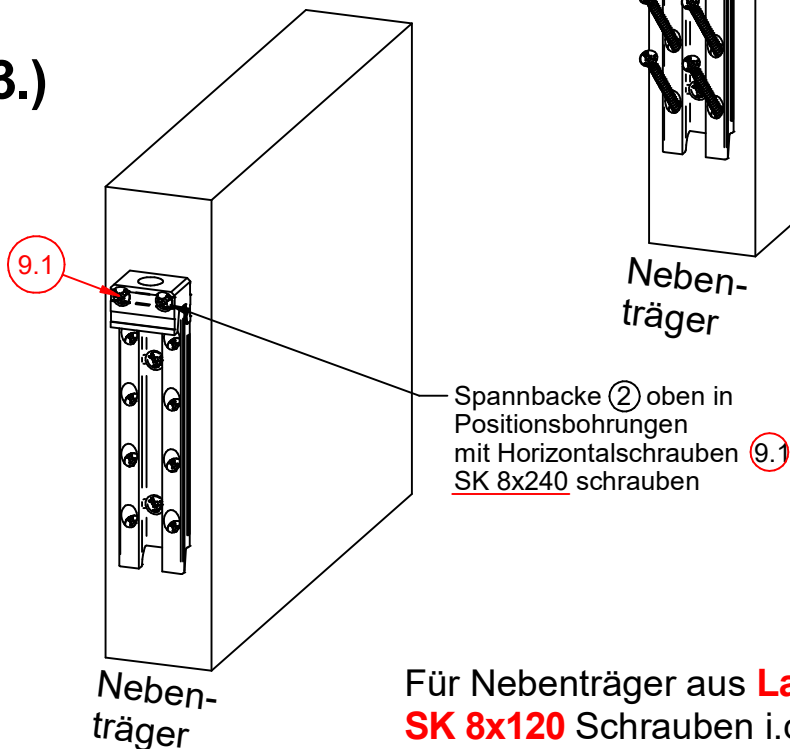
1.)



2.)

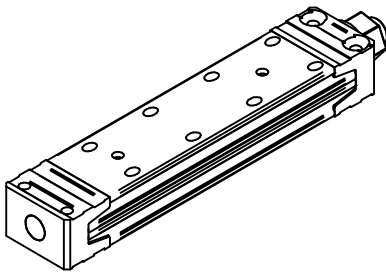


3.)



Für Nebenträger aus **Laubholz** werden **SK 8x120** Schrauben i.d.R. verwendet.



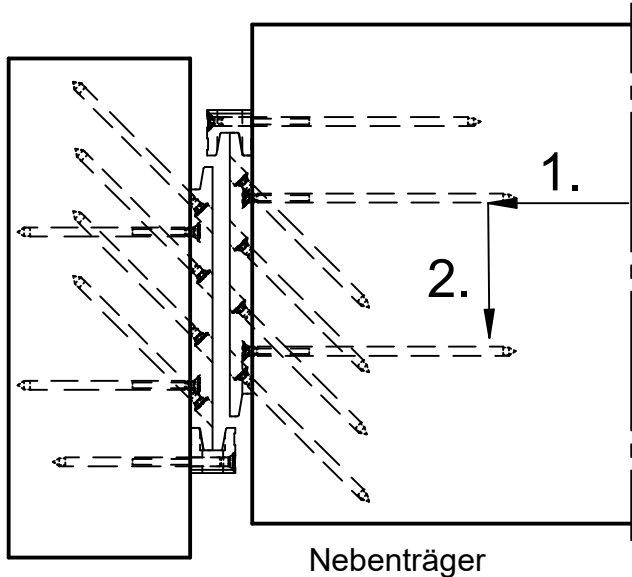


# Montageanleitung MEGANT® 60

## Ablauf sichtbarer Montage

ALU AW 6005

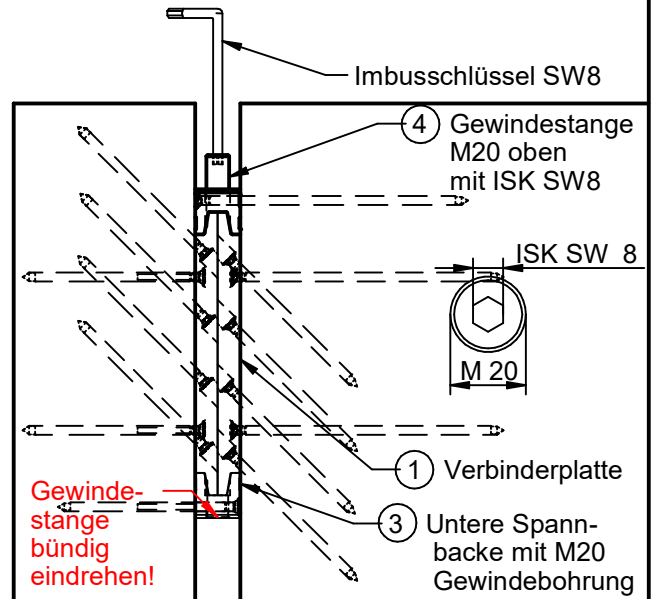
### 1. Nebenträger einhängen



Hauptträger

Nebenträger

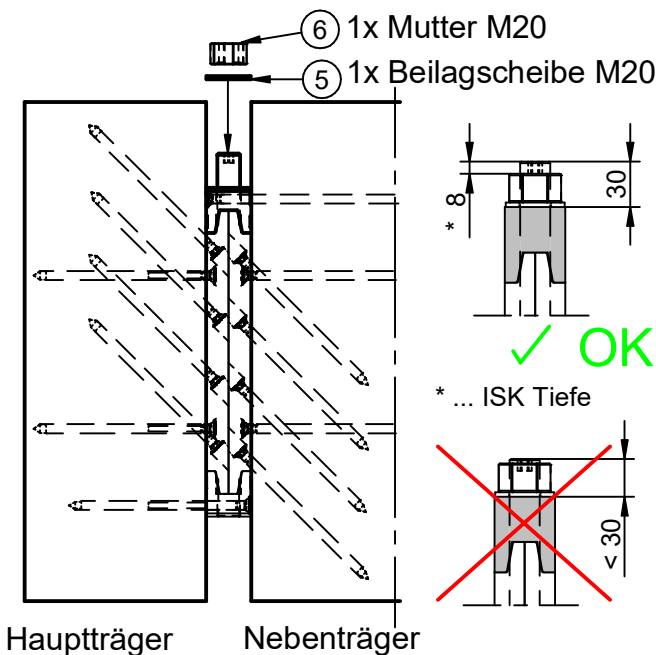
### 2. Gewindestange ④ (M20) in untere Spannbacke ③ **bündig** eindrehen



Hauptträger

Nebenträger

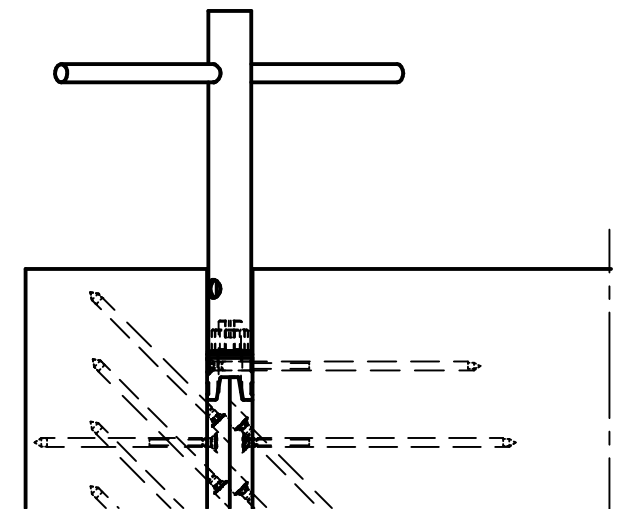
### 3. Spannbacke, Beilagscheibe und Mutter M20 aufsetzen



Hauptträger

Nebenträger

### 4. M20 Mutter mit Steckschlüssel (SW30) 40 Nm festziehen !





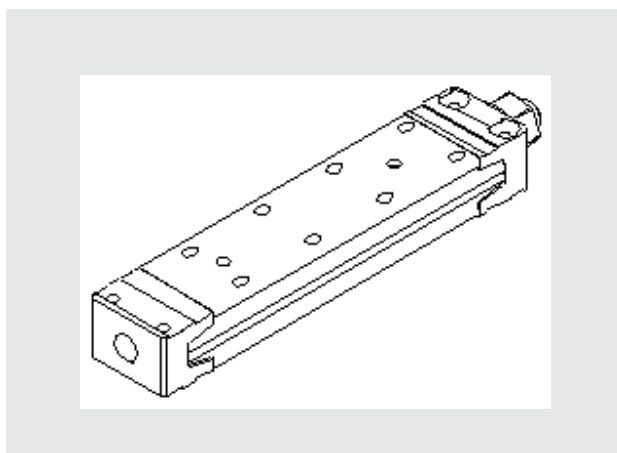
Knapp GmbH ■ Wassergasse 31 ■ A-3324 Euratsfeld ■ Tel.: +43 (0)7474 / 799 10 ■ Fax: +43 (0)7474 / 799 10 99  
Knapp GmbH ■ Vertrieb Deutschland ■ Föhrenweg 1 ■ D-85591 Vaterstetten ■ Tel.: +49 (0)8106 / 99 55 99 0 ■ Fax: +49 (0)8106 / 99 55 99 20 ■ E-Mail: [info@knapp-verbinder.com](mailto:info@knapp-verbinder.com)  
Knapp GmbH Sàrl ■ Filiale France ■ 1A Rue du Stade ■ F - 67880 Innenheim Tel. : +33 (0)3 88 48 17 87 ■ Fax: +33 (0)9 70 62 81 87 ■ E-Mail : [france@knapp-connectors.com](mailto:france@knapp-connectors.com)

Montageanleitung

Construction Manual

Notice de montage

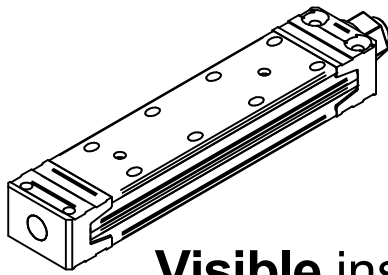
VERSION



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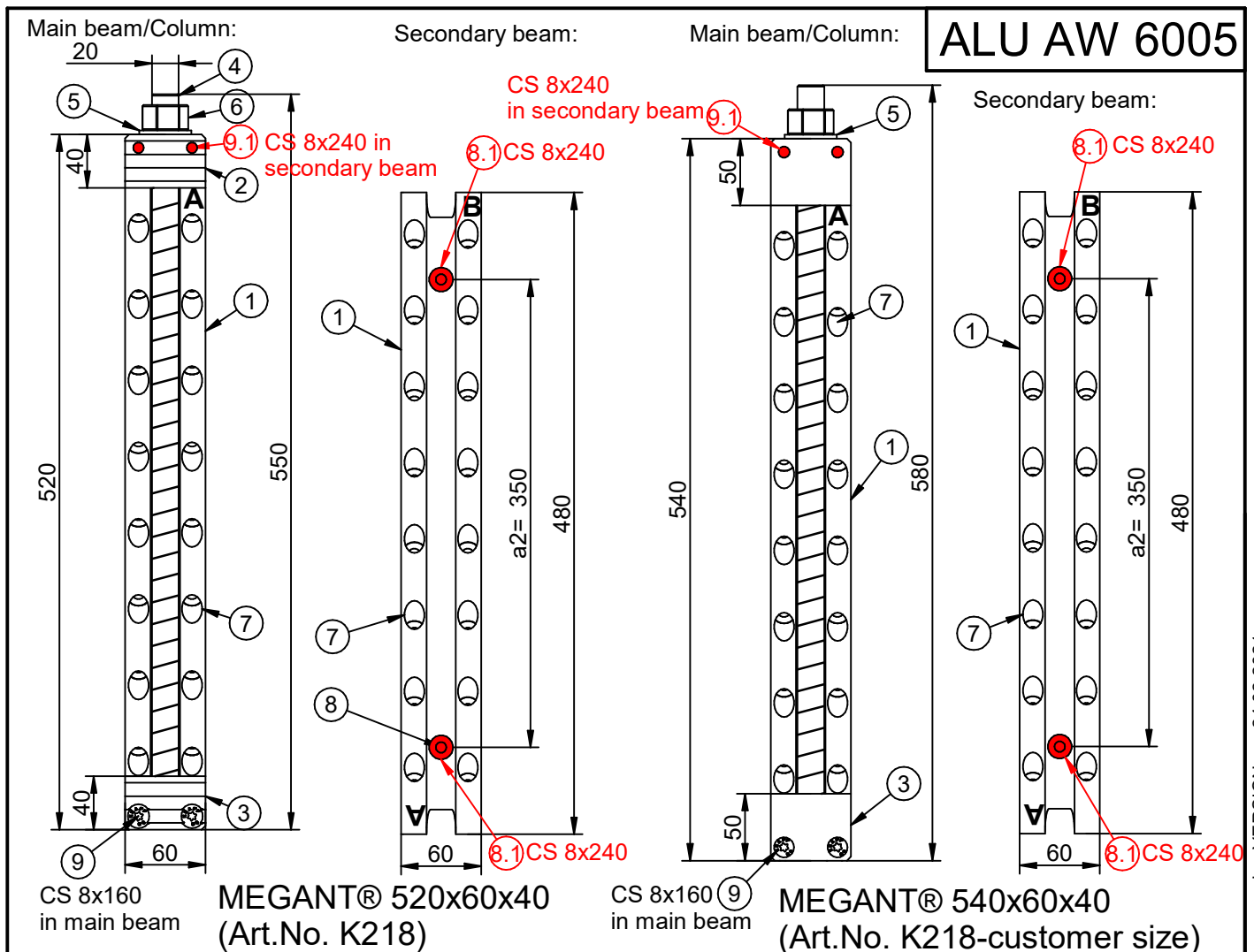


# Assembly Instructions

# MEGANT® 60

## Visible installation

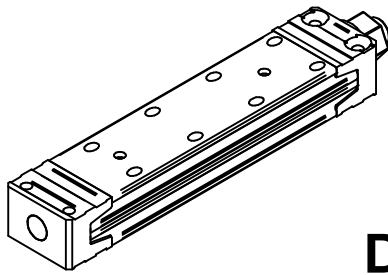
## Overview of standard sizes



| Pos No. | Art. No.    | part description          | MEGANT® sizes (ALU AW 6005) |               |               |                  |
|---------|-------------|---------------------------|-----------------------------|---------------|---------------|------------------|
|         |             |                           | 310x60x40                   | 405x60x40     | 520x60x40     | 540x60x40        |
|         |             |                           | Art. No. K242               | Art. No. K217 | Art. No. K218 | Art. No. K218 So |
| 1       | K200-K202   | connector plates          | 250x60x20                   | 365x60x20     | 480x60x20     | 480x60x20        |
| 2       | K207        | clamping jaw top          | 50x40x60; D20               | 40x40x60; D20 | 40x40x60; D20 | 50x40x60; D20    |
| 3       | K208        | clamping jaw bottom       | 50x40x60; M20               | 40x40x60; M20 | 40x40x60; D20 | 50x40x60; D20    |
| 4       | Z924/Length | threaded rod              | 1xM20x340                   | 1xM20x435     | 1xM20x550     | 1xM20x580        |
| 5       | Z657        | washer                    | 1xM20                       | 1xM20         | 1xM20         | 1xM20            |
| 6       | Z656        | nut                       | 1xM20                       | 1xM20         | 1xM20         | 1xM20            |
| 7       | Z581        | Inclined screw connection | 16x CS 8x160                | 24x CS 8x160  | 32x CS 8x160  | 32x CS 8x160     |
| 8       | Z581        | horizontal screws         | 2x CS 8x160                 | 2x CS 8x160   | 2x CS 8x160   | 2x CS 8x160      |
| 8.1     | Z672        | horizontal screws         | 2x CS 8x240                 | 2x CS 8x240   | 2x CS 8x240   | 2x CS 8x240      |
| 9       | Z581        | Clamping jaw screws       | 2x CS 8x160                 | 2x CS 8x160   | 2x CS 8x160   | 2x CS 8x160      |
| 9.1     | Z672        | Clamping jaw screws       | 2x CS 8x240                 | 2x CS 8x240   | 2x CS 8x240   | 2x CS 8x240      |

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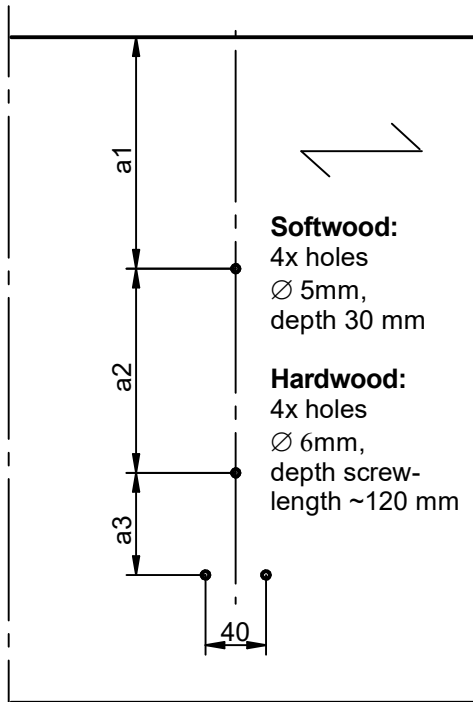


# MEGANT® 60

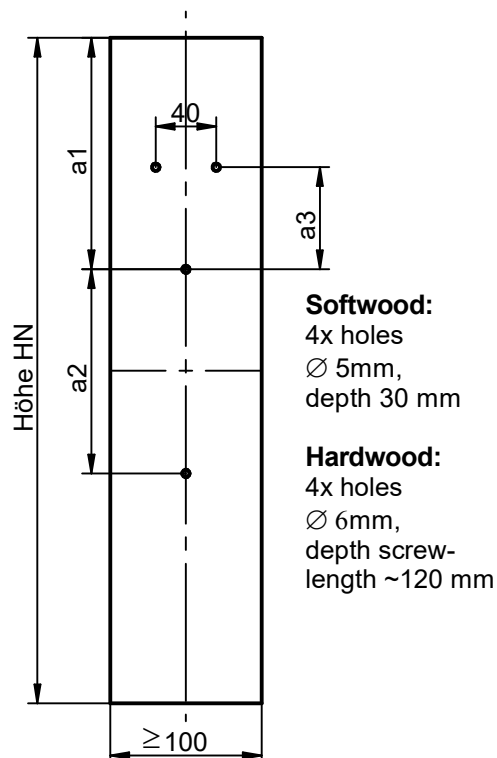
## Drilling pattern visible central installation

ALU AW 6005

### Drill pattern main beam !

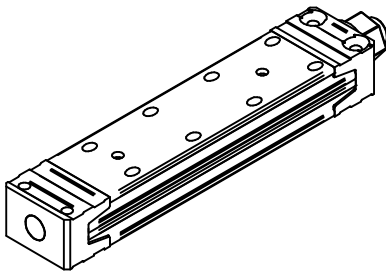


### Drilling positions for centered, visibe mounting in secondary beam !



| Drilling dimensions with visible central installation |                                                                      |         |         |         |
|-------------------------------------------------------|----------------------------------------------------------------------|---------|---------|---------|
| Secondary beam                                        | Drilling distances a1 depending on the secondary beam height HN [mm] |         |         |         |
| Heigth                                                | MEGANT®                                                              | MEGANT® | MEGANT® | MEGANT® |
| H <sub>N</sub> [mm]                                   | 310x60                                                               | 405x60  | 520x60  | 540x60  |
| 400                                                   | 133                                                                  |         |         |         |
| 440                                                   | 153                                                                  |         |         |         |
| 480                                                   | 173                                                                  |         |         |         |
| 520                                                   | 193                                                                  | 135     |         |         |
| 560                                                   | 213                                                                  | 155     |         |         |
| 600                                                   | 233                                                                  | 175     |         |         |
| 640                                                   |                                                                      | 195     | 145     | 145     |
| 680                                                   |                                                                      | 215     | 165     | 165     |
| 700                                                   |                                                                      | 225     | 175     | 175     |
| 720                                                   |                                                                      | 235     | 185     | 185     |
| 760                                                   |                                                                      | 255     | 205     | 205     |
| 800                                                   |                                                                      | 275     | 225     | 225     |
| 840                                                   |                                                                      |         | 245     | 245     |
| 880                                                   |                                                                      |         | 265     | 265     |
| 920                                                   |                                                                      |         | 285     | 285     |
| 960                                                   |                                                                      |         | 305     | 305     |
| 1000                                                  |                                                                      |         | 325     | 325     |

| Distance | MEGANT® | MEGANT® | MEGANT® | MEGANT® |
|----------|---------|---------|---------|---------|
|          | 310x60  | 405x60  | 520x60  | 540x60  |
| a2 [mm]  | 135     | 250     | 350     | 350     |
| a3 [mm]  | 78      | 68      | 75      | 85      |



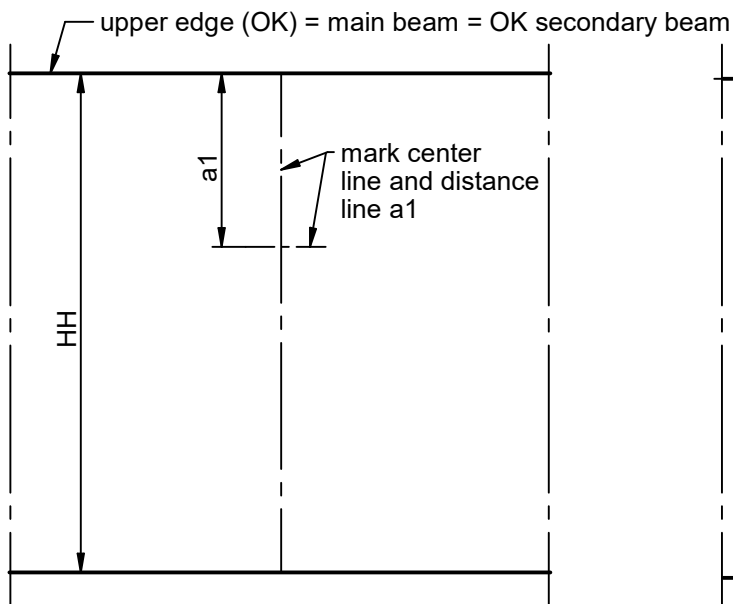
# Assembly Instructions

## MEGANT® 60

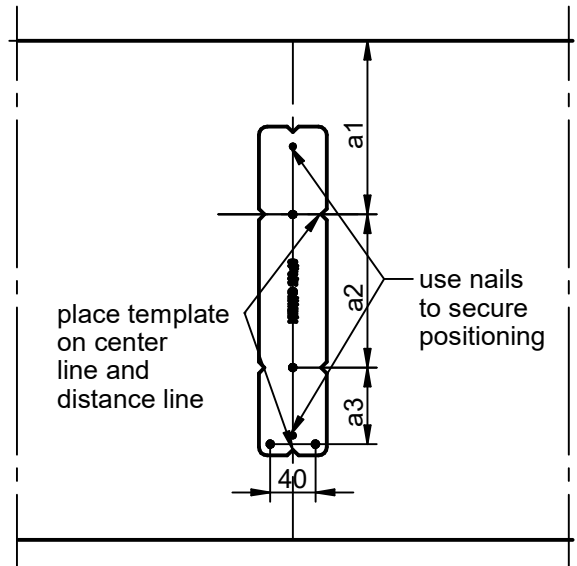
### Main beam pre-drilling with template

ALU AW 6005

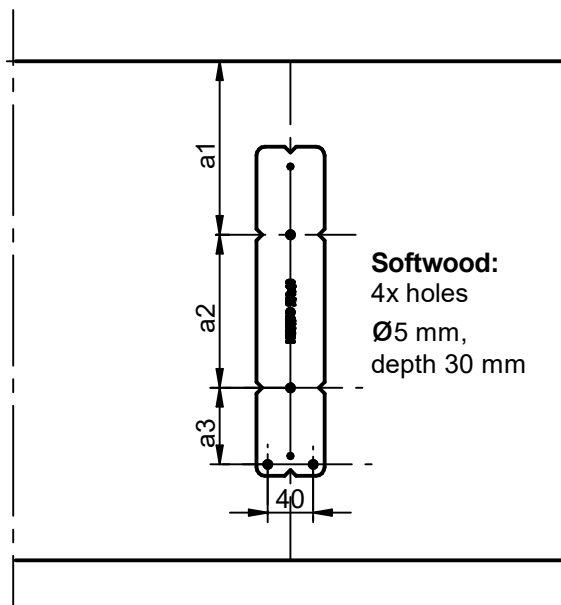
#### 1.) Marking

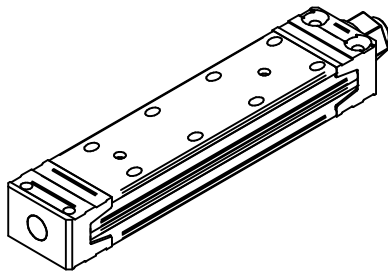


#### 2.) Place template



#### 3.) Drilling



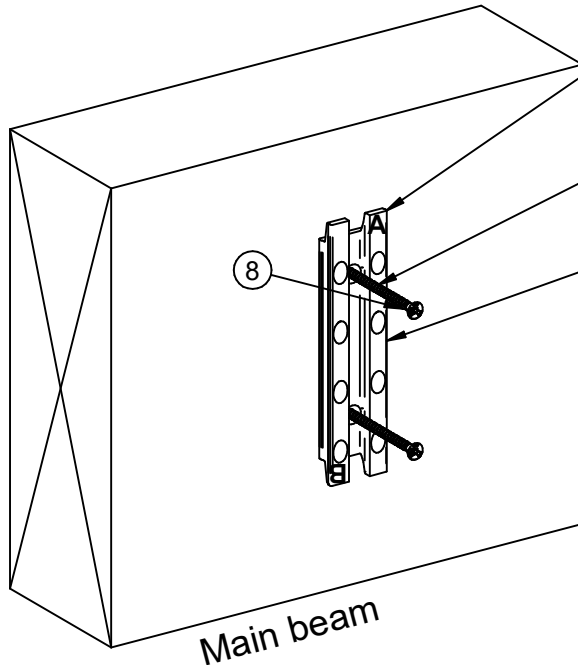


# MEGANT® 60

Install MEGANT visibly on main beam

ALU AW 6005

1.)



Make sure plate marking A is at the top for main beam installation

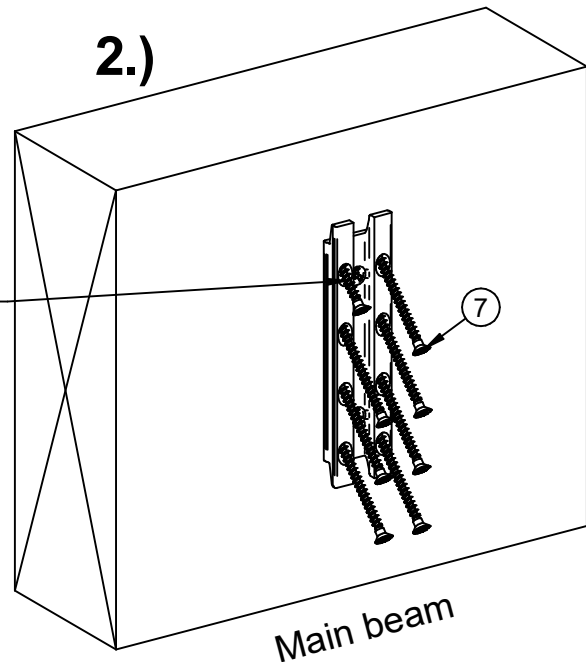
install horizontal screws (8)

connector plate (1)

Main beam

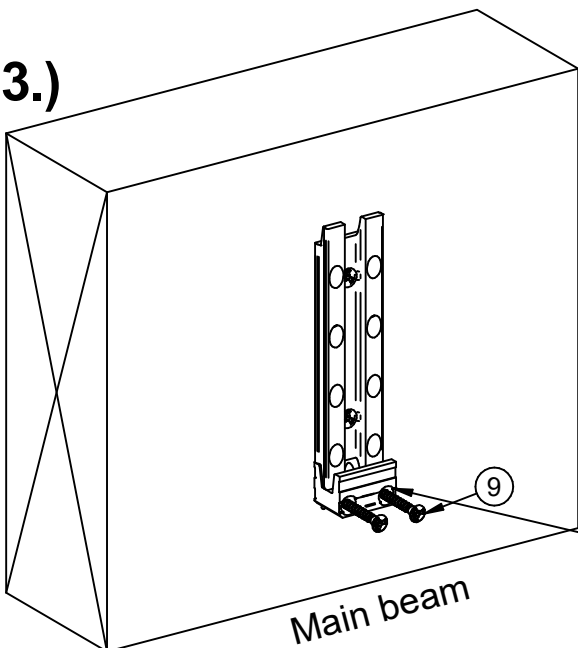
Screw inclined screws (7) into connector plate (1) from top to bottom in rows max. tightening torque  $M_t = 20\text{Nm}$  (ensure they are tightened firmly)

2.)



Main beam

3.)

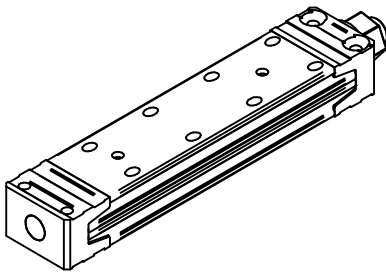


Main beam

**CS 8x120** screws are usually used for main and secondary beams made of hardwood

Screw the clamping jaw (3) down in the positioning hole with horizontal screws (9)



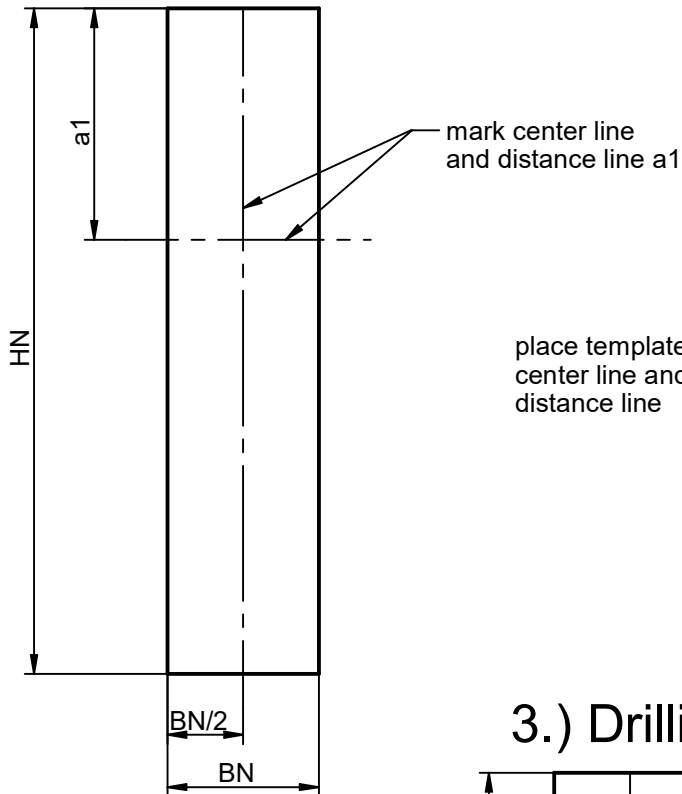


# MEGANT® 60

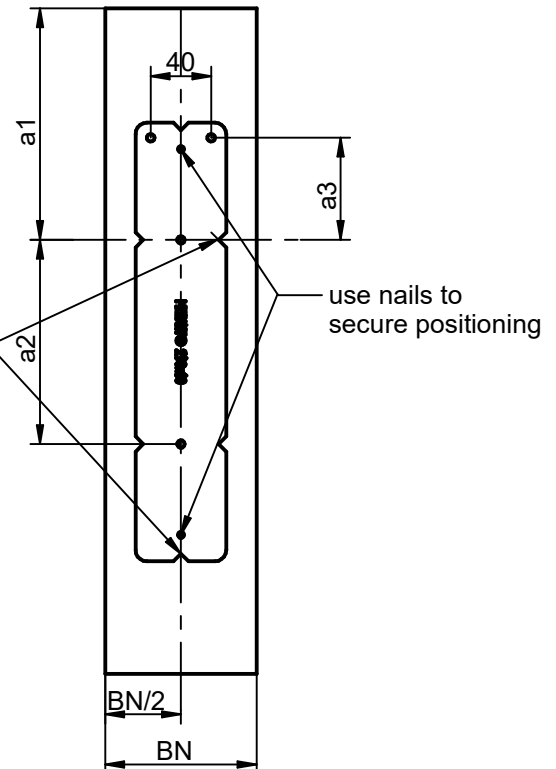
## Secondary beam pre-drilling with template

ALU AW 6005

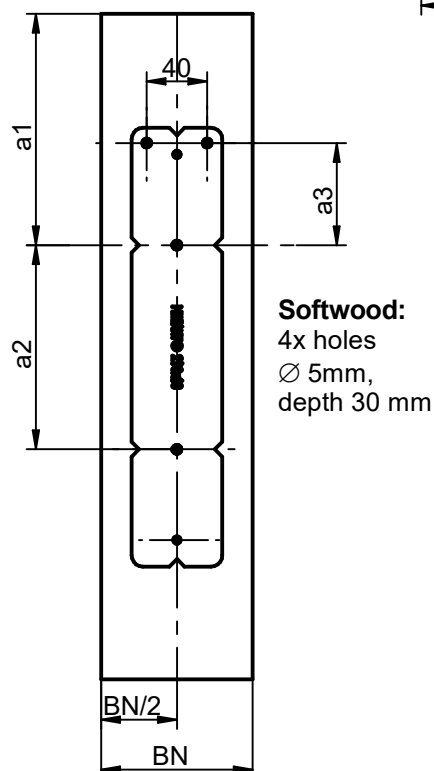
### 1.) Marking

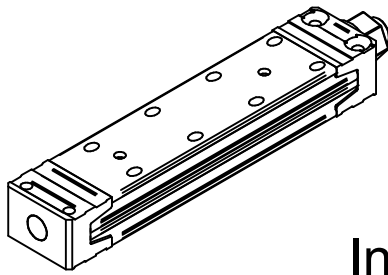


### 2.) Place template



### 3.) Drilling



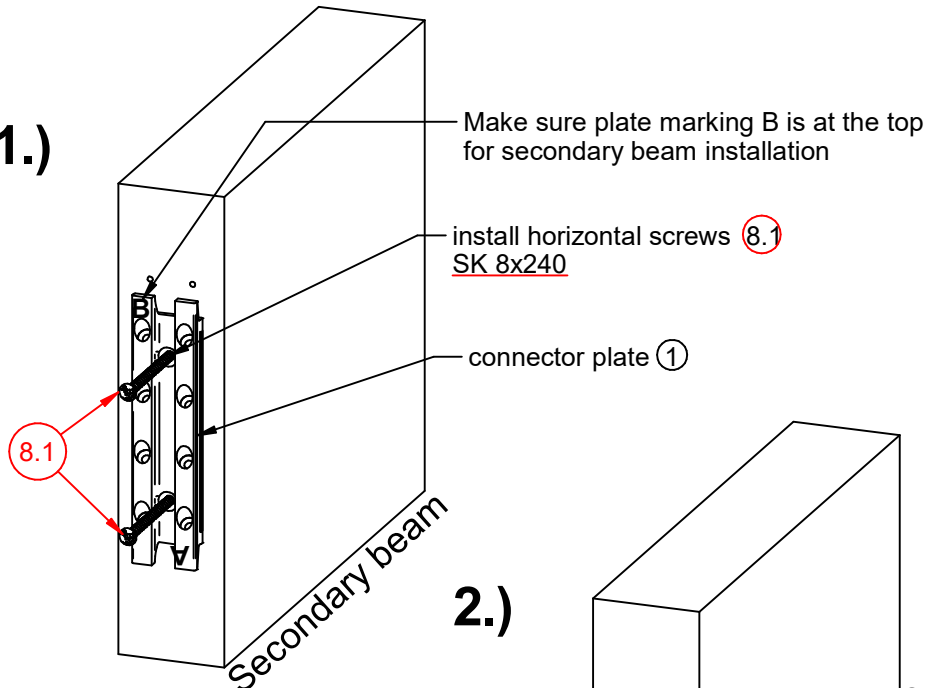


# MEGANT® 60

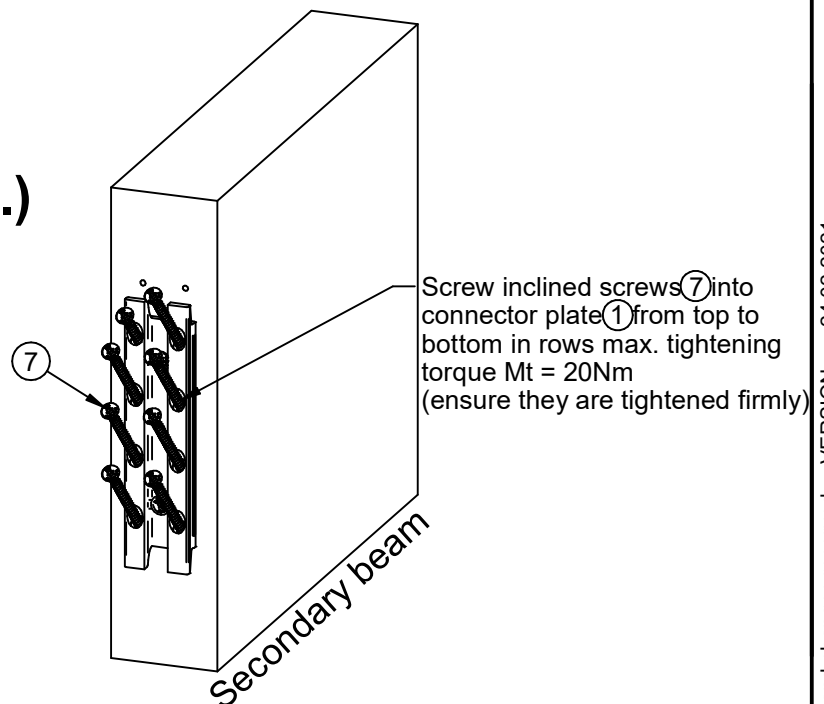
Install MEGANT visibly on secondary beam

ALU AW 6005

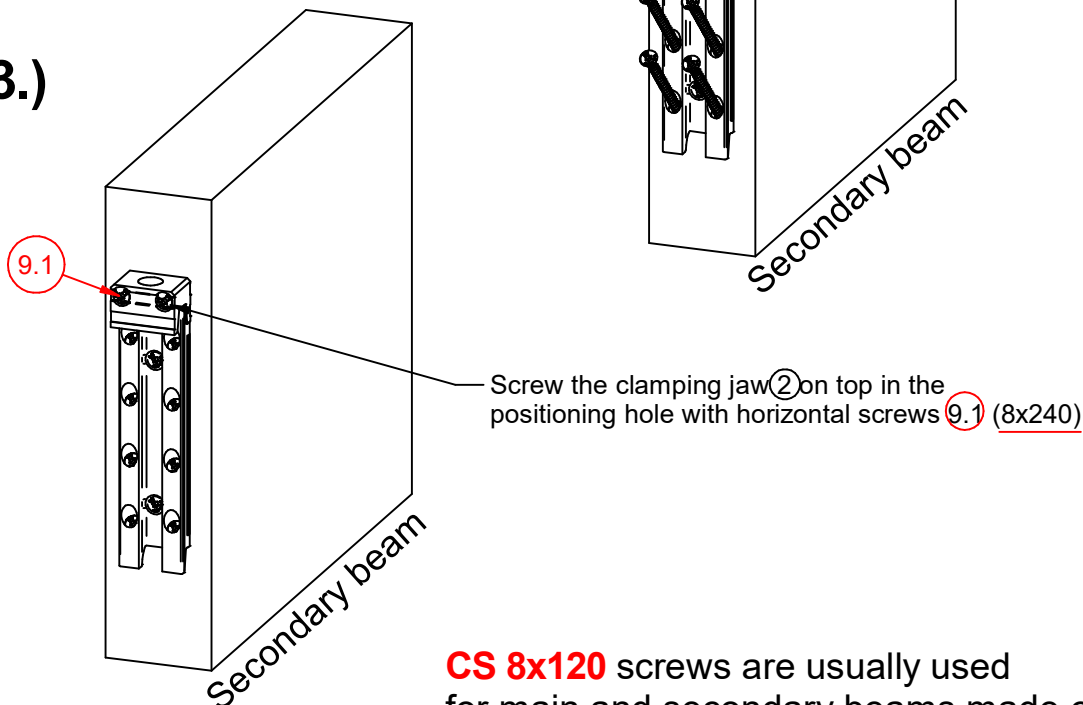
1.)



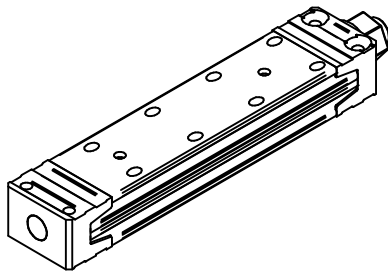
2.)



3.)



**CS 8x120** screws are usually used for main and secondary beams made of hardwood

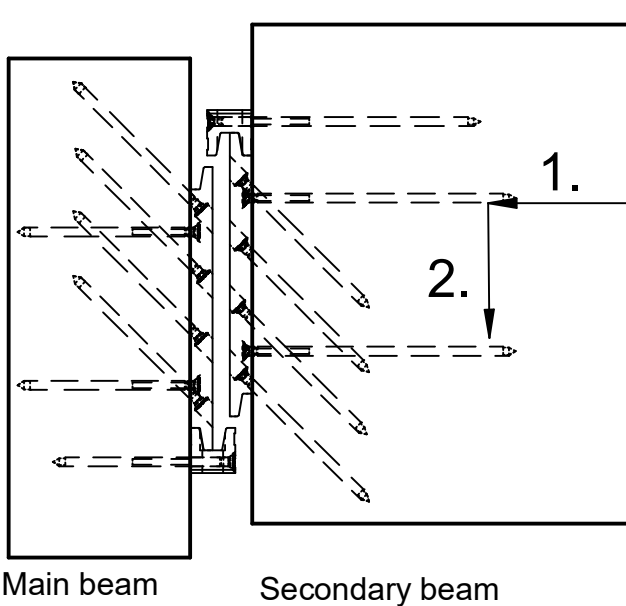


## MEGANT® 60

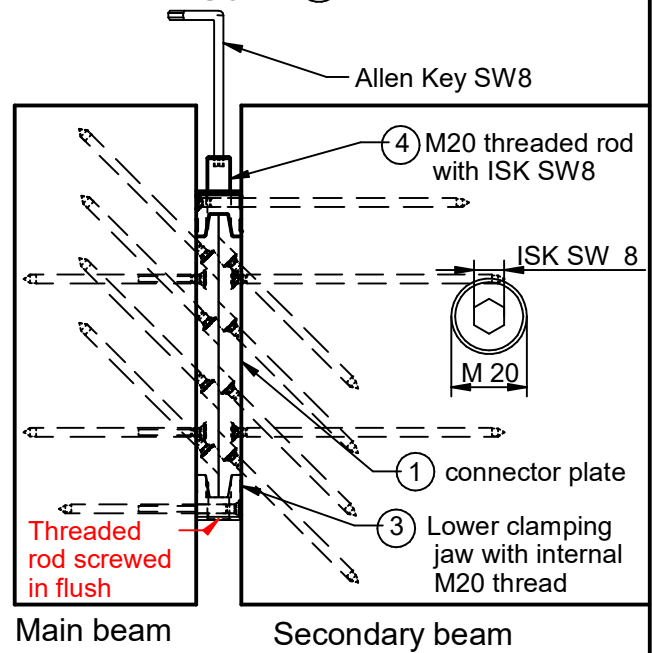
### Process of visible assembly

ALU AW 6005

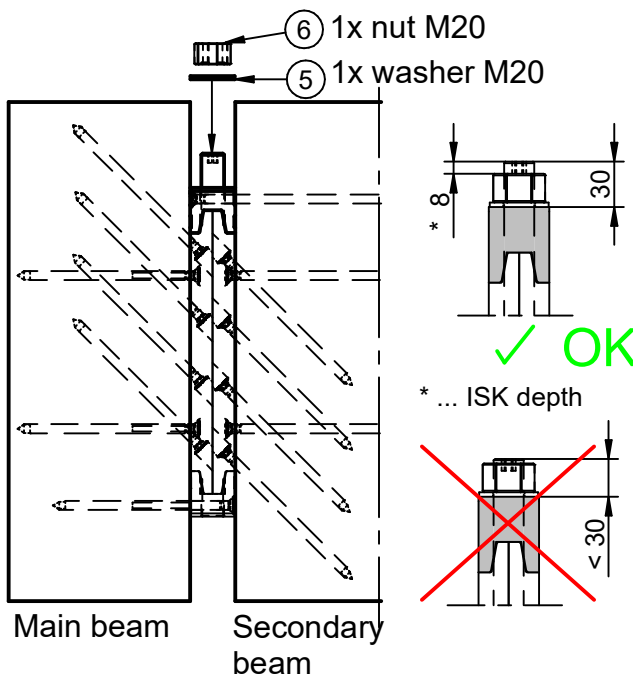
#### 1. Install secondary beam



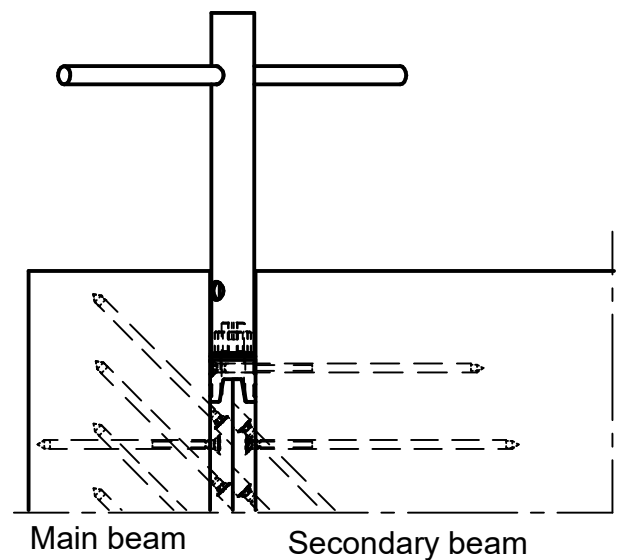
#### 2. Install M20 threaded rod ④ in lower clamping jaw ③ flush



#### 3. Install clamping jaw, washer and M20 nut



#### 4. Tighten M20 nut with SW 30 wrench (40 Nm) !





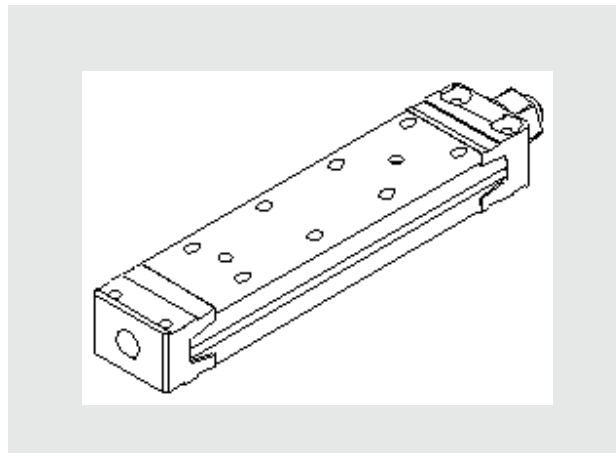
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Knapp GmbH ■ Vertrieb Deutschland ■ Föhrenweg 1 ■ D-85591 Vaterstetten ■ Tel.: +49 (0)8106 / 99 55 99 0 ■ Fax: +49 (0)8106 / 99 55 99 20 ■ E-Mail: [info@knapp-verbinder.com](mailto:info@knapp-verbinder.com)  
Knapp GmbH Sàrl ■ Filiale France ■ 1A Rue du Stade ■ F - 67880 Innenheim Tel. : +33 (0)3 88 48 17 87 ■ Fax: +33 (0)9 70 62 81 87 ■ E-Mail : [france@knapp-connectors.com](mailto:france@knapp-connectors.com)

Montageanleitung

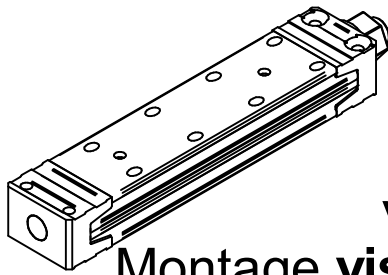
Construction Manual

Notice de montage

VERSION



Réf.



# MEGANT® 60

Vue d'ensemble des dimensions spéciales  
- disponibles sur demande

Montage **visible**

Poutres principales/poteaux (P.P.):

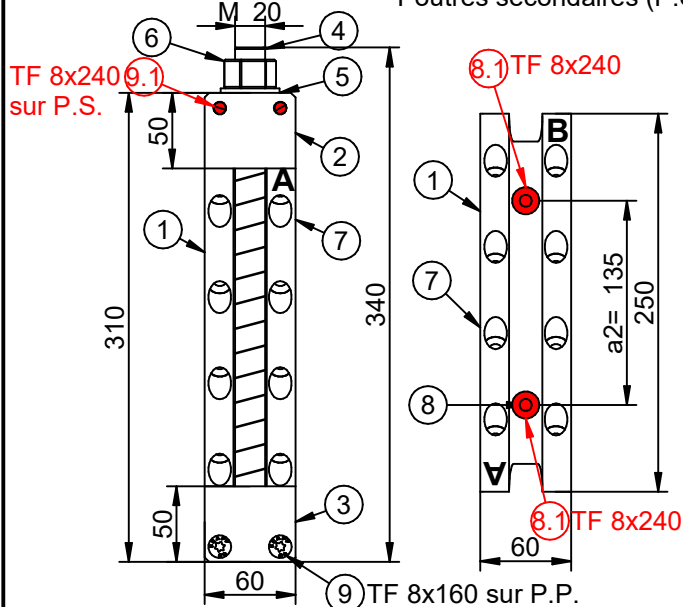
ALU AW 6005

Poutres secondaires (P.S.):

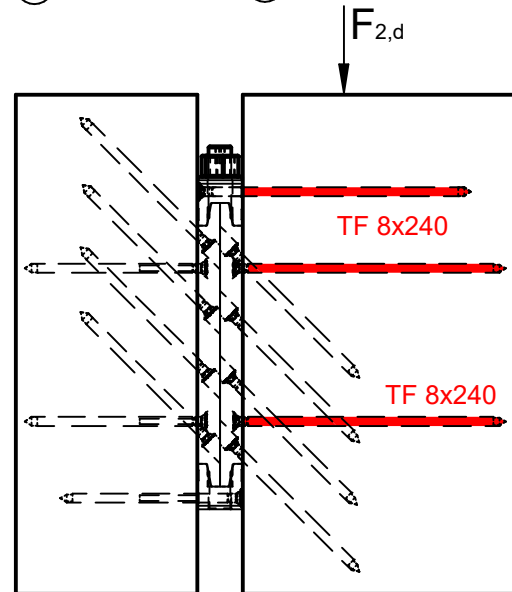
Repérage des plaques:

Poutre principale  
A en haut

Poutre secondaire  
B en haut

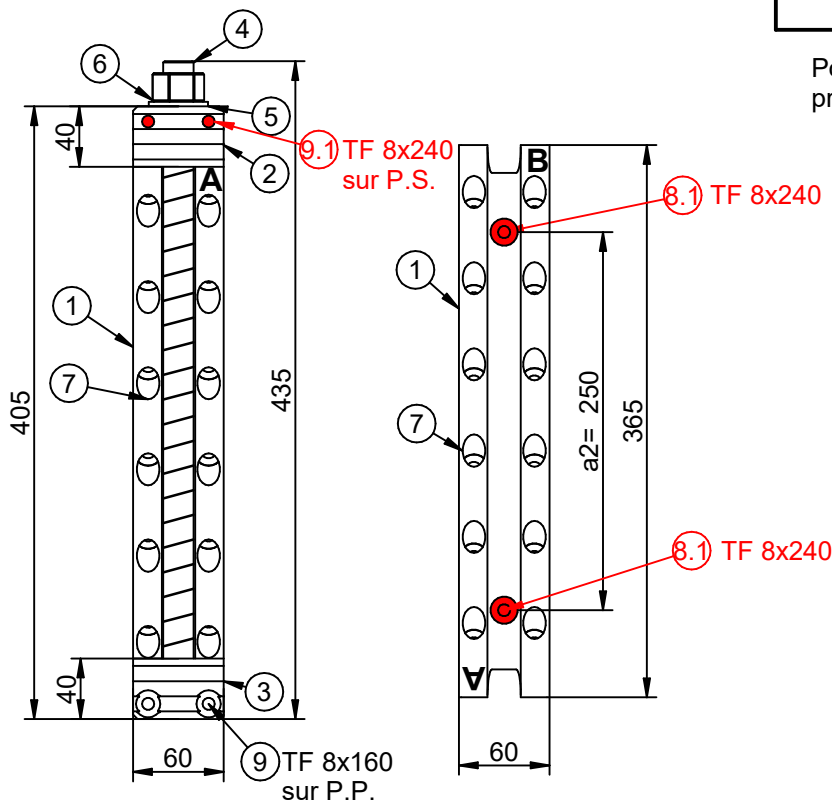


MEGANT® 310x60x40  
(Réf. K242)

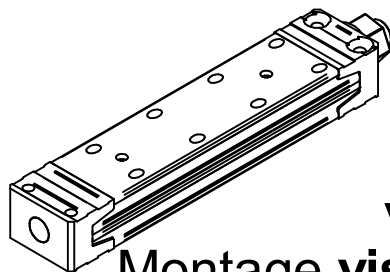


Poutre principale

Poutre secondaire



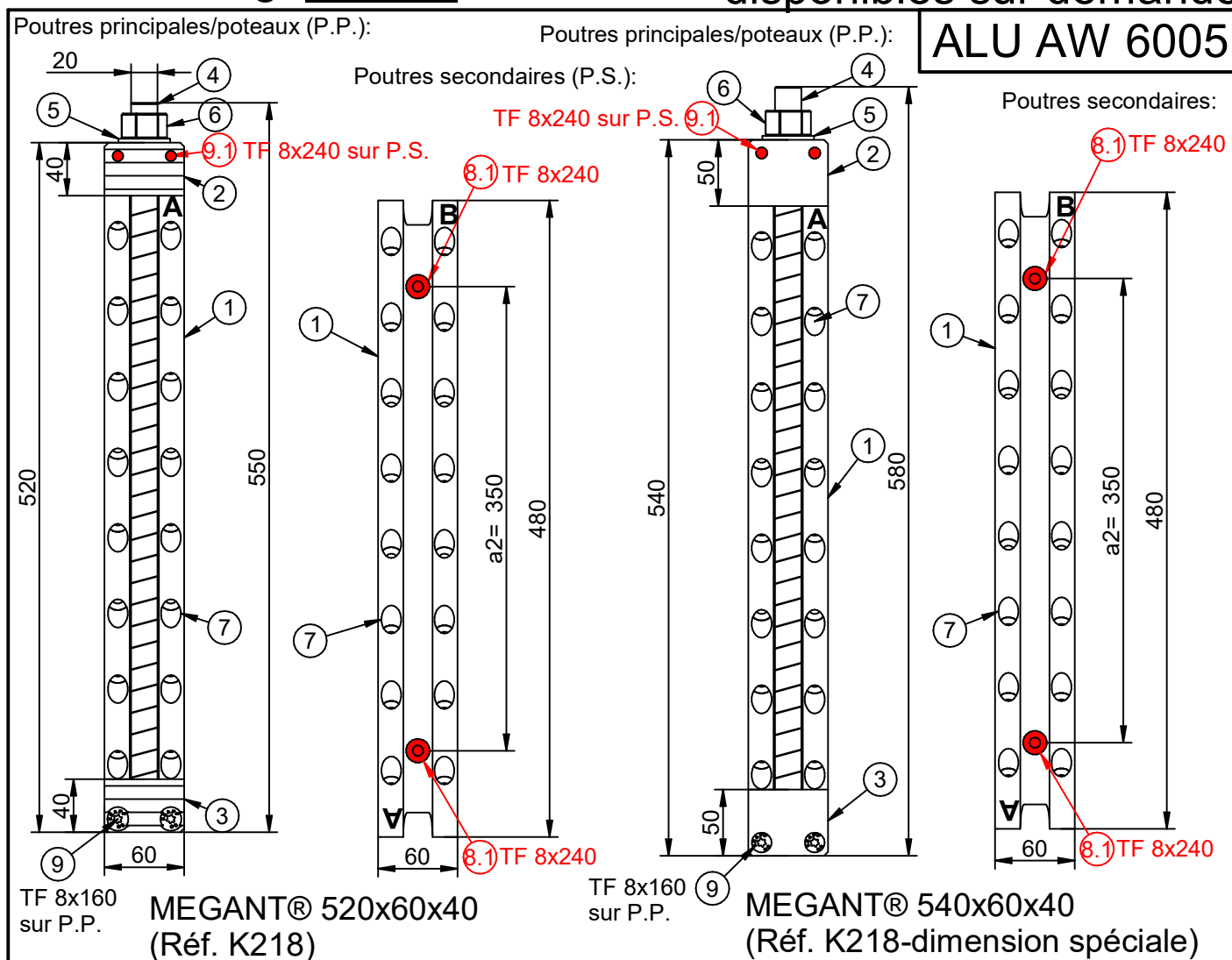
MEGANT® 405x60x40  
(Réf. K217)



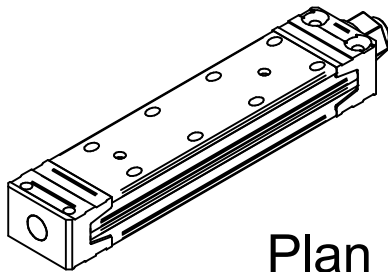
# MEGANT® 60

Vue d'ensemble des dimensions spéciales  
- disponibles sur demande

Montage **visible**



| N° pos. | Réf.          | Désignations        | Dimensions MEGANT (AW6005) |               |               |               |
|---------|---------------|---------------------|----------------------------|---------------|---------------|---------------|
|         |               |                     | 310x60x40                  | 405x60x40     | 520x60x40     | 540x60x40     |
|         |               |                     | Réf. K242                  | Réf. K217     | Réf. K218     | Réf. K218     |
| 1       | K200-K202     | Plaques principales | 250x60x20                  | 365x60x20     | 480x60x20     | 480x60x20     |
| 2       | K207          | Mâchoire haute      | 50x40x60; D20              | 40x40x60; D20 | 40x40x60; D20 | 50x40x60; D20 |
| 3       | K208          | Mâchoire basse      | 50x40x60; M20              | 40x40x60; M20 | 40x40x60; D20 | 50x40x60; D20 |
| 4       | Z924/Longueur | Tige filetée        | 1xM20x340                  | 1xM20x435     | 1xM20x550     | 1xM20x580     |
| 5       | Z657          | Rondelle            | 1xM20                      | 1xM20         | 1xM20         | 1xM20         |
| 6       | Z656          | Écrou               | 1xM20                      | 1xM20         | 1xM20         | 1xM20         |
| 7       | Z581          | Vissage biais       | 16x TF 8x160               | 24x TF 8x160  | 32x TF 8x160  | 32x TF 8x160  |
| 8       | Z581          | Vissage horizontal  | 2x TF 8x160                | 2x TF 8x160   | 2x TF 8x160   | 2x TF 8x160   |
| 8.1     | Z672          | Vissage horizontal  | 2x TF 8x240                | 2x TF 8x240   | 2x TF 8x240   | 2x TF 8x240   |
| 9       | Z581          |                     | 2x TF 8x160                | 2x TF 8x160   | 2x TF 8x160   | 2x TF 8x160   |
| 9.1     | Z672          | Vissage mâchoires   | 2x TF 8x240                | 2x TF 8x240   | 2x TF 8x240   | 2x TF 8x240   |

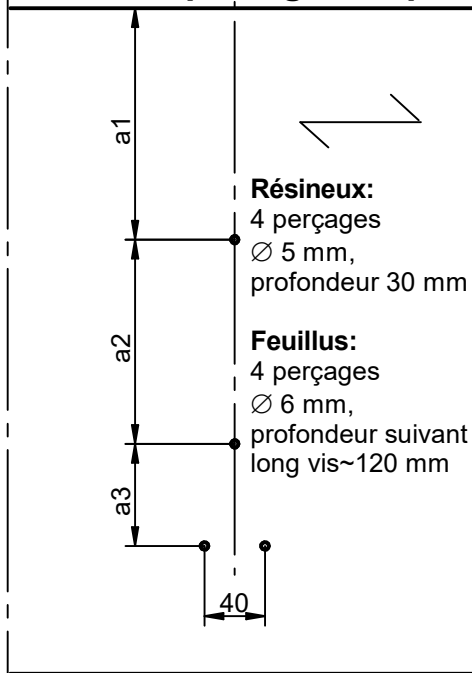


# MEGANT® 60

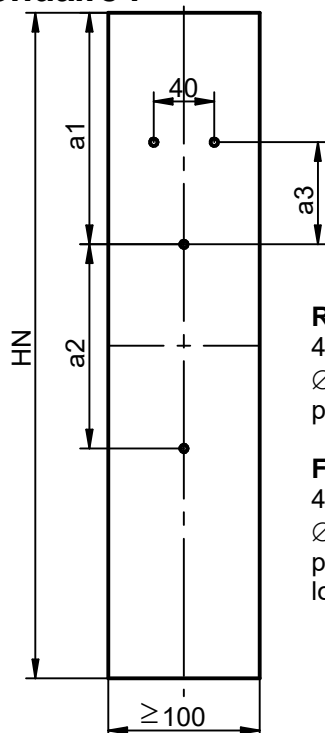
## Plan de perçage pour montage centré et visible

ALU AW 6005

**Réaliser les perçages de positionnement sur la poutre principale !**



**Réaliser les perçages de positionnement sur la poutre secondaire !**

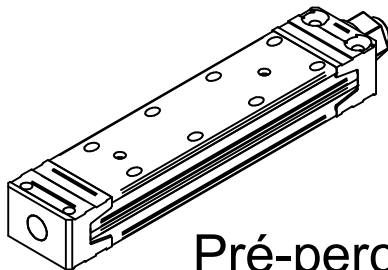


Perçages pour mise en oeuvre en applique (visible)

| Poutre secondaire | Distance de perçage a1 en relation avec la hauteur de poutre secondaire HN [mm] |         |         |         |
|-------------------|---------------------------------------------------------------------------------|---------|---------|---------|
| Hauteur           | MEGANT®                                                                         | MEGANT® | MEGANT® | MEGANT® |
| HN [mm]           | 310x60                                                                          | 405x60  | 520x60  | 540x60  |
| 400               | 133                                                                             |         |         |         |
| 440               | 153                                                                             |         |         |         |
| 480               | 173                                                                             |         |         |         |
| 520               | 193                                                                             | 135     |         |         |
| 560               | 213                                                                             | 155     |         |         |
| 600               | 233                                                                             | 175     |         |         |
| 640               |                                                                                 | 195     | 145     | 145     |
| 680               |                                                                                 | 215     | 165     | 165     |
| 700               |                                                                                 | 225     | 175     | 175     |
| 720               |                                                                                 | 235     | 185     | 185     |
| 760               |                                                                                 | 255     | 205     | 205     |
| 800               |                                                                                 | 275     | 225     | 225     |
| 840               |                                                                                 |         | 245     | 245     |
| 880               |                                                                                 |         | 265     | 265     |
| 920               |                                                                                 |         | 285     | 285     |
| 960               |                                                                                 |         | 305     | 305     |
| 1000              |                                                                                 |         | 325     | 325     |

| Distance | MEGANT® | MEGANT® | MEGANT® | MEGANT® |
|----------|---------|---------|---------|---------|
|          | 310x60  | 405x60  | 520x60  | 540x60  |
| a2 [mm]  | 135     | 250     | 350     | 350     |
| a3 [mm]  | 78      | 68      | 75      | 85      |



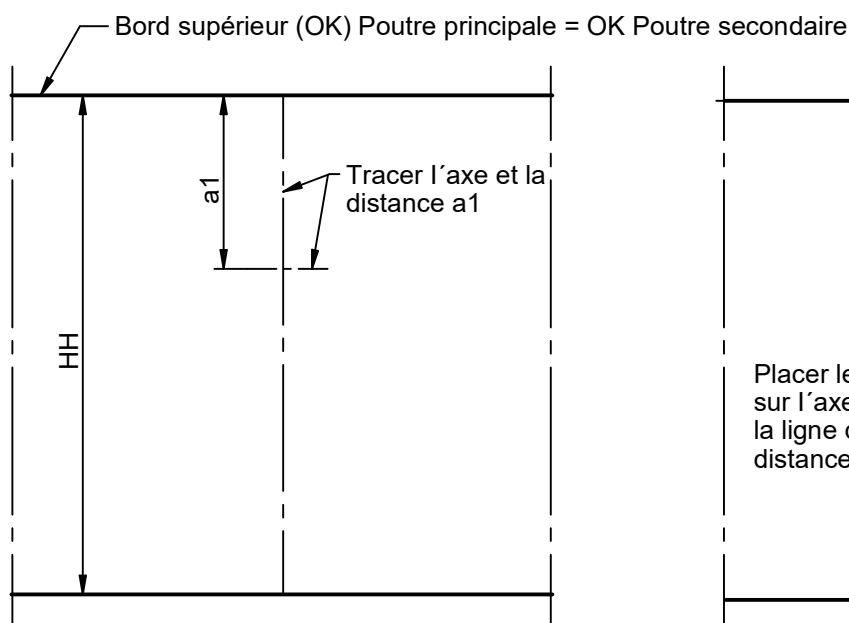


# MEGANT® 60

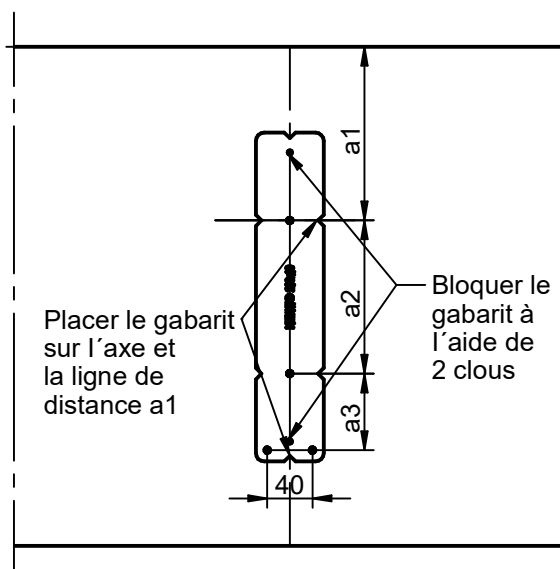
## Pré-perçage de la poutre principale avec le gabarit

ALU AW 6005

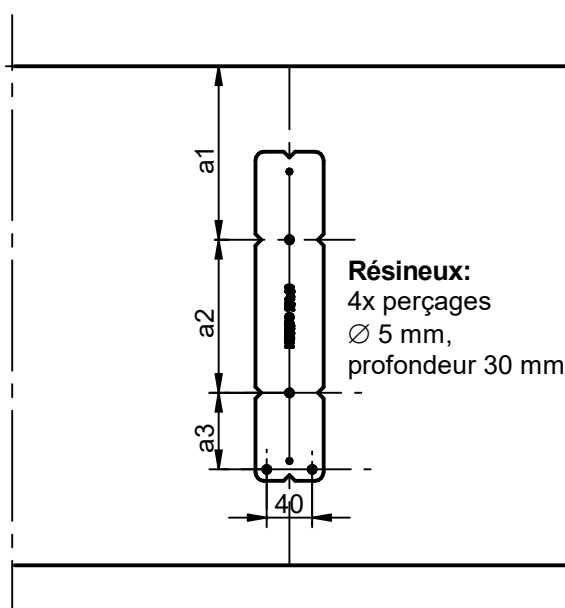
### 1.) Tracer

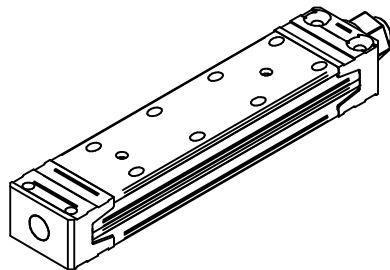


### 2.) Positionner le gabarit



### 3.) Percer



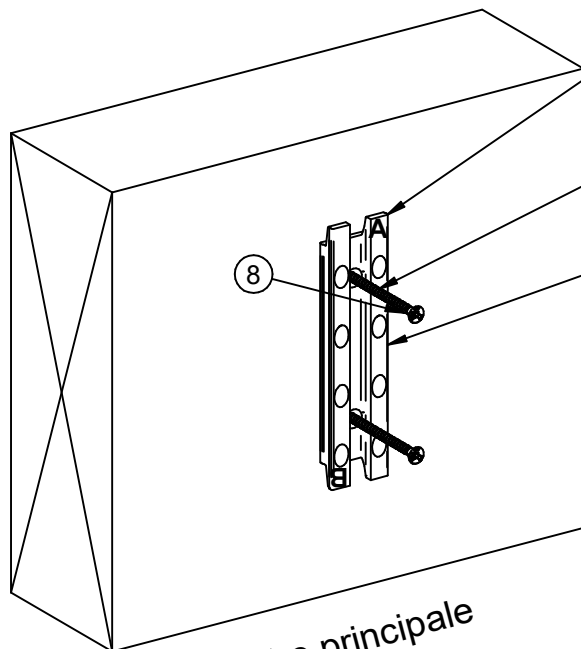


# MEGANT® 60

## Vissage sur poutre principale

ALU AW 6005

1.)



Sur la poutre principale,  
placer le repère **A** en haut !

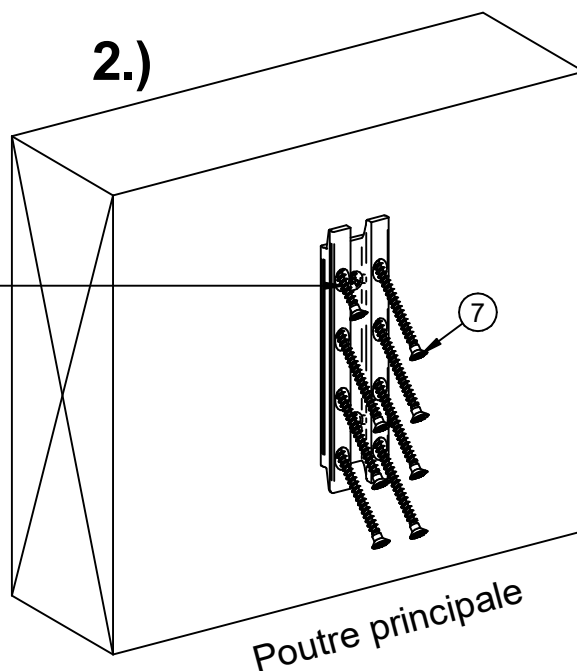
Visser les vis de positionnement  
horizontale **8**

Plaque principale **1**

Poutre principale

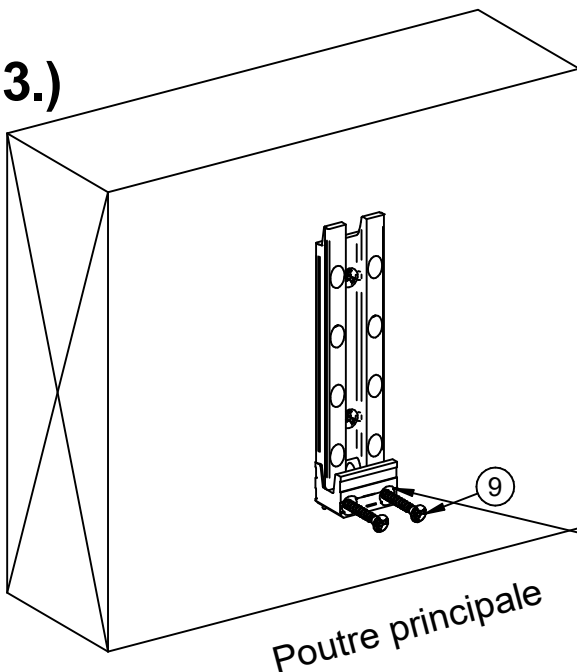
Visser les vis biais **7** sur la  
plaque principale **1** en  
commençant par le haut  
Couple de serrage  
max. Mt = 20 Nm  
(visser les vis bien à fond)

2.)



Poutre principale

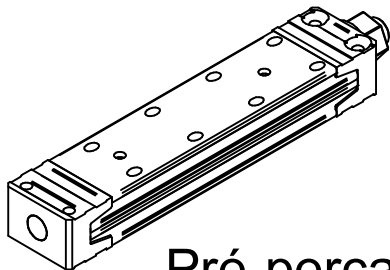
3.)



Poutre principale

Pour les poutres principales en **feuilus**  
utiliser des vis **TF 8x120**

Visser la mâchoire **3** en partie  
basse dans les perçages de  
position avec les vis pour  
mâchoire **9**

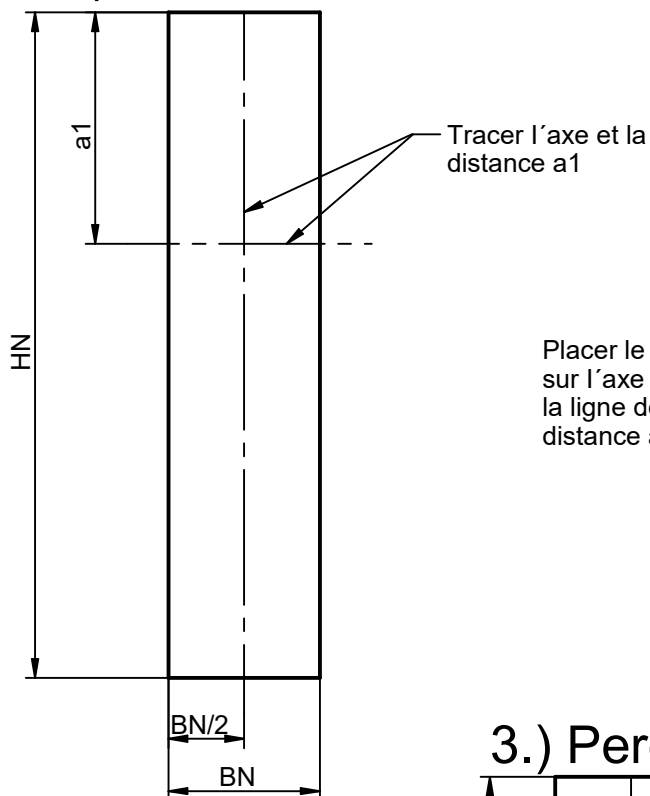


# MEGANT® 60

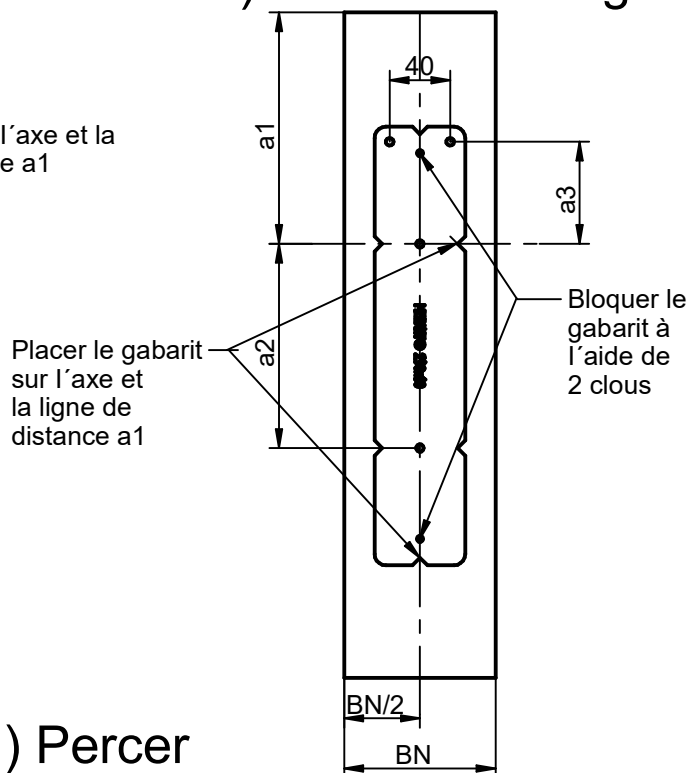
## Pré-perçage de la poutre secondaire avec le gabarit

ALU AW 6005

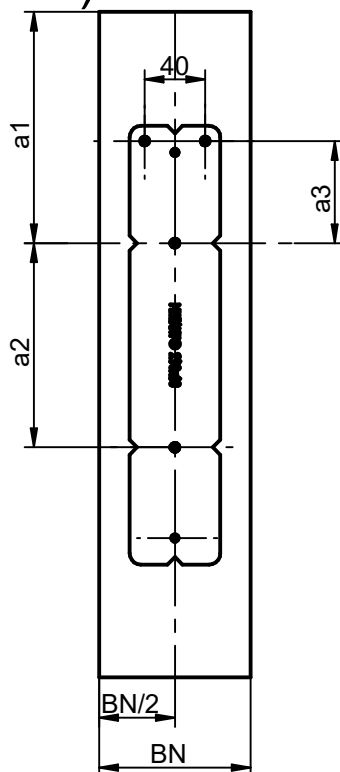
### 1.) Tracer



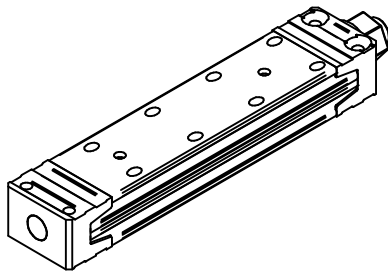
### 2.) Positionner le gabarit



### 3.) Percer



**Résineux:**  
4x perçages  
 $\varnothing$  5 mm,  
profondeur 30 mm

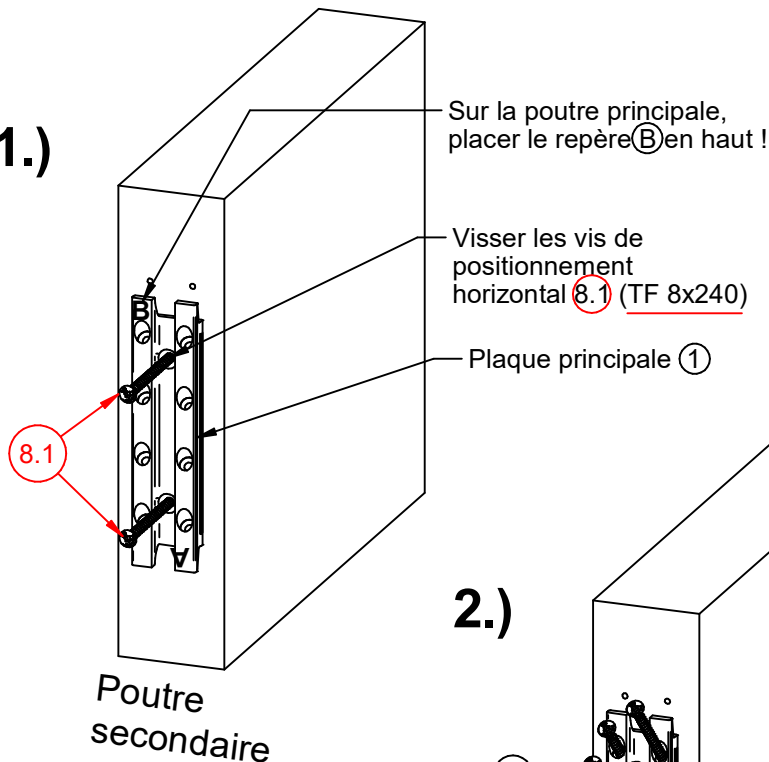


# MEGANT® 60

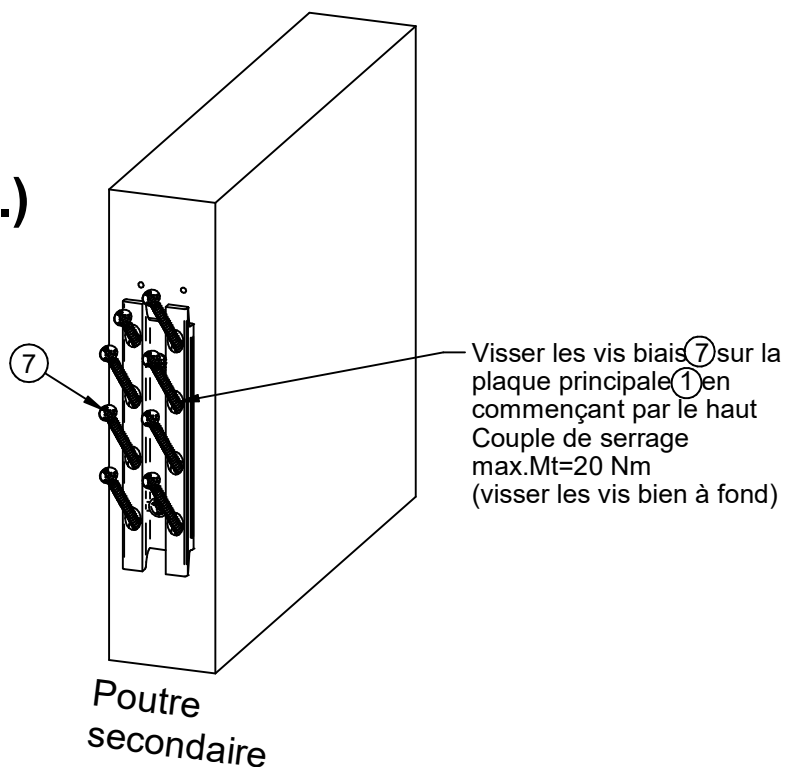
## Vissage sur poutre secondaire

ALU AW 6005

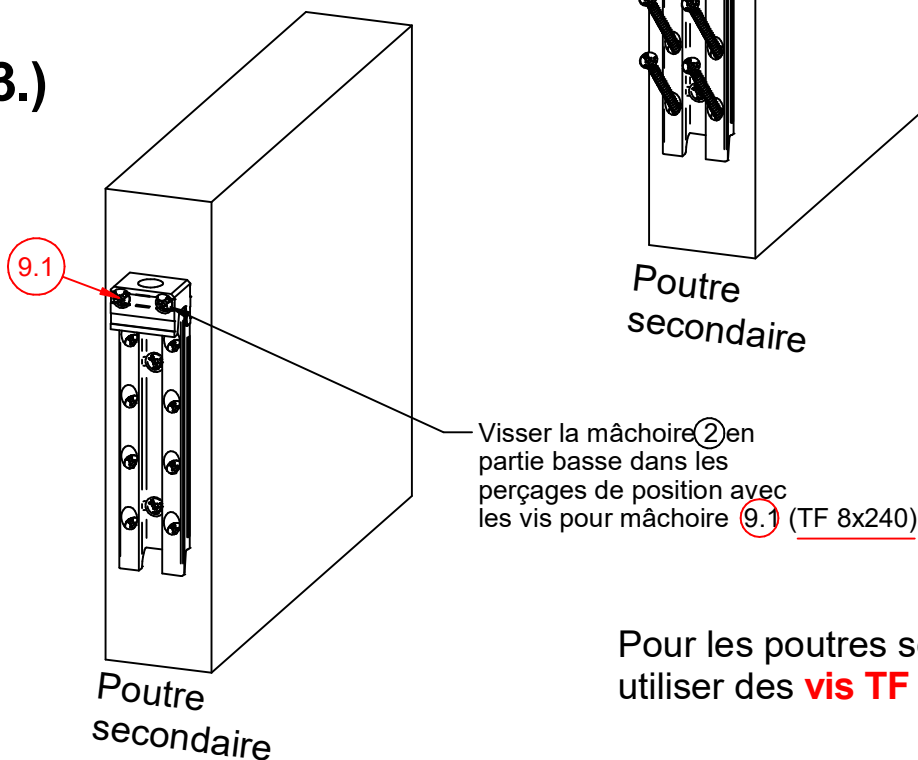
1.)



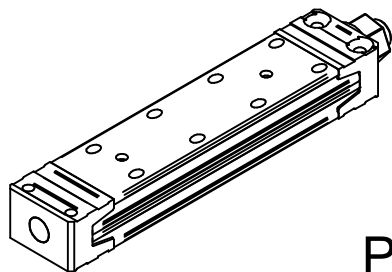
2.)



3.)



Pour les poutres secondaires en **feuillus**  
utiliser des **vis TF 8x120**

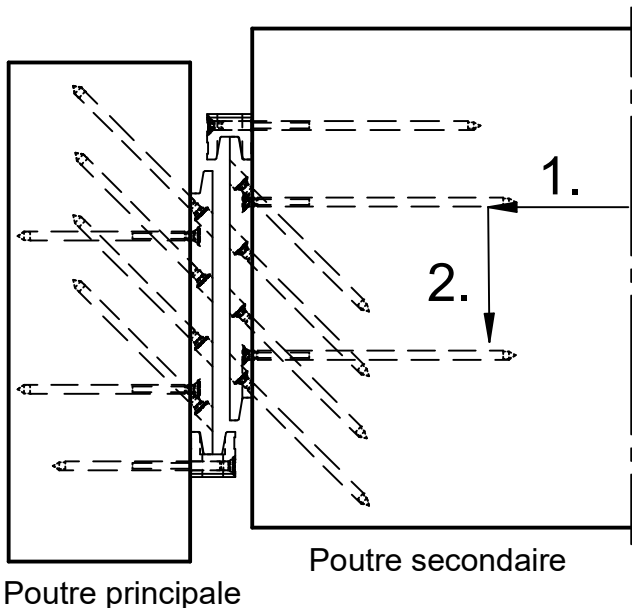


# MEGANT® 60

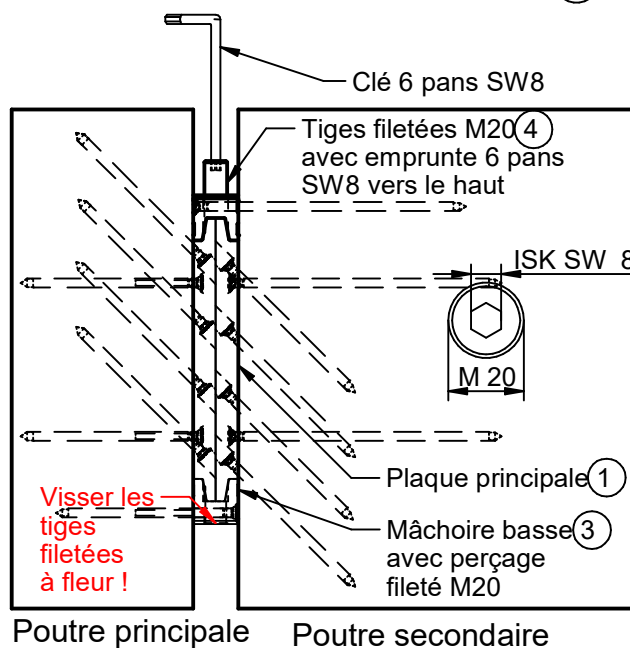
## Procédure de montage connecteurs visibles

ALU AW 6005

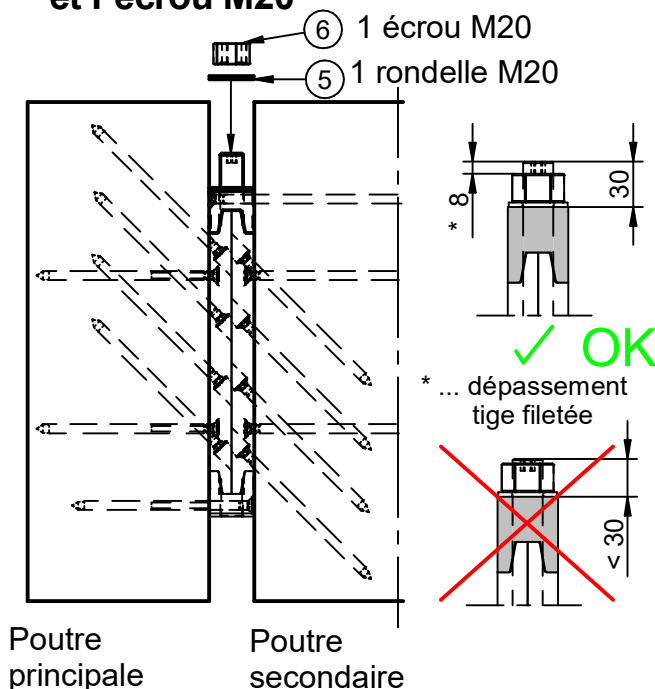
### 1. Accroche de la poutre secondaire



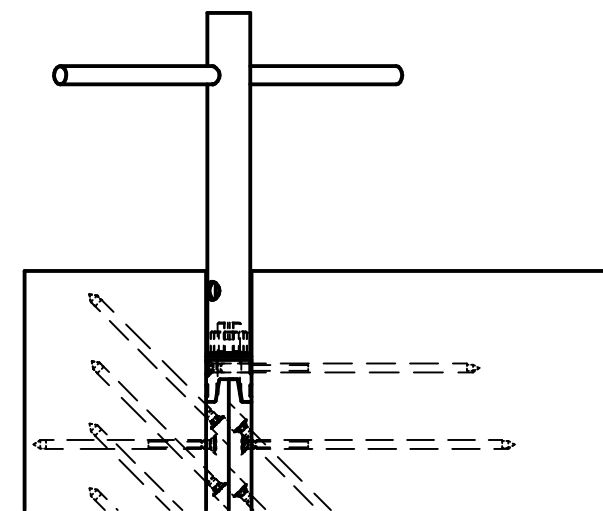
### 2. Visser les tiges filetées ④ (M20) à fleur dans la mâchoire inférieure ③



### 3. Mettre en place la mâchoire supérieure, la rondelle et l'écrou M20



### 4. Serrer l'écrou M20 avec une clé à douille (SW30) 40 Nm !





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Knapp GmbH Sàrl ■ Filiale France ■ 1A Rue du Stade ■ F - 67880 Innenheim Tel. : +33 (0)3 88 48 17 87 ■ Fax: +33 (0)9 70 62 81 87 ■ E-Mail : [france@knapp-connectors.com](mailto:france@knapp-connectors.com)