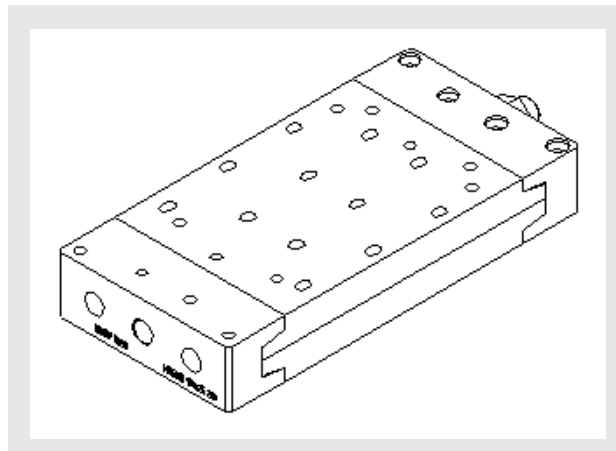


Montageanleitung

Construction Manual

Notice de montage

VERSION

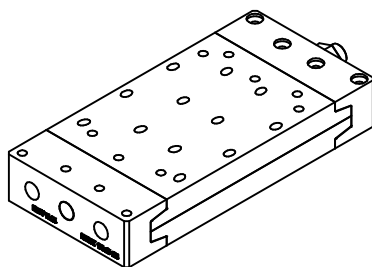


Art.-Nr.



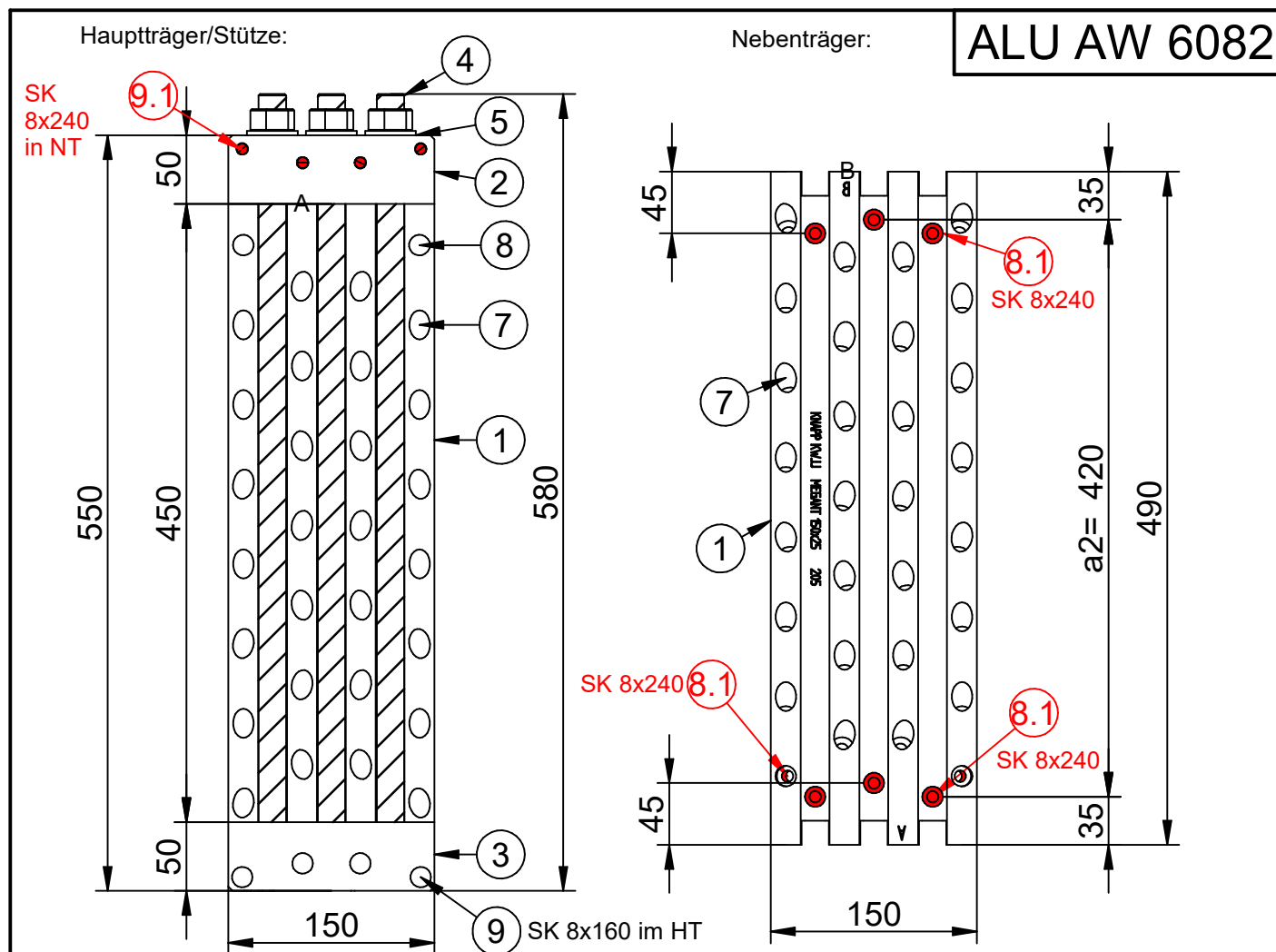
MEGANT® 150x50

[illegible]



MEGANT® 150x50

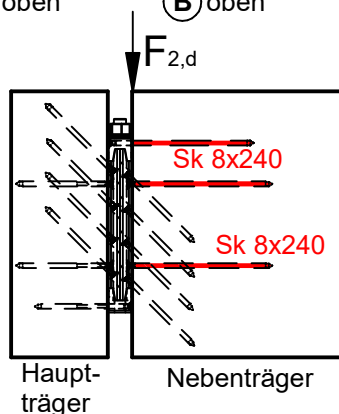
Übersicht Standardgröße



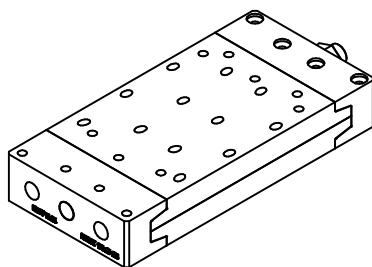
MEGANT 550x150x50
(Art.Nr. K221)

Verbinderplatten Kennzeichnung:

Hauptträger (A) oben
Nebenträger (B) oben



Pos Nr.	Art. Nr.	Bauteil	MEGANT® Größen (ALU AW 6082)		
			310x150x50 Art.Nr. K197	430x150x50 Art. Nr. K220	550x150x50 Art. Nr. K221
1	K197-221	Verbinderplatte	250x150x25	370x150x25	490x150x25
2		Spannbacke oben	50x50x150; D20	50x50x150; D20	50x50x150; D20
3		Spannbacke unten	50x50x150; M20	50x50x150; M20	50x50x150; M20
4		Gewindestange	1xM20x340	2xM20x460	2xM20x580
5		Beilagscheibe	1xM20	2xM20	2xM20
6		Mutter	1xM20	2xM20	2xM20
7	Z581	Schrägverschraubung	24x SK8x160	40x SK8x160	56x SK8x160
8	Z581	Horizontalverschraubung	8x SK8x160	8x SK8x160	8x SK8x160
8.1	Z672	Horizontalverschraubung	8x SK8x240	8x SK8x240	8x SK8x240
9	Z581	Spannbacken-	4x SK8x160	4x SK8x160	4x SK8x160
9.1	Z672	Verschraubung	4 SK 8x240	4 SK 8x240	4 SK 8x240

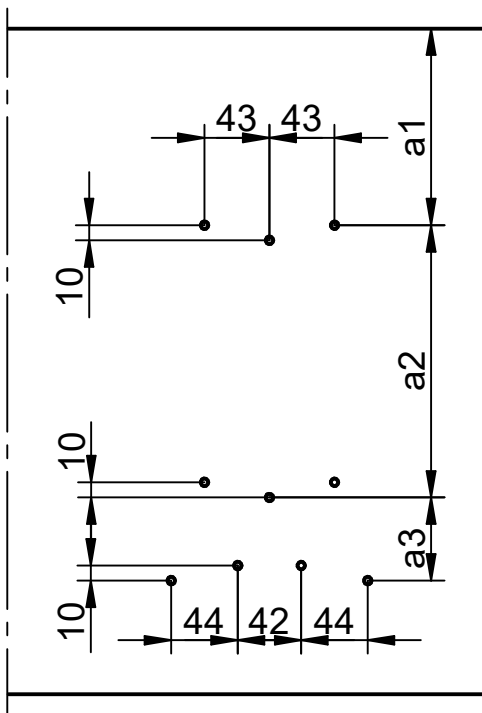


MEGANT® 150x50

Bohrbild sichtbar mittiger Einbau

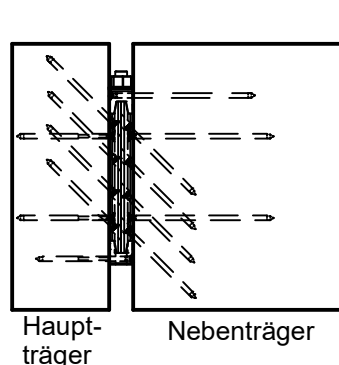
ALU AW 6082

Positionierbohrungen im Hauptträger erstellen !

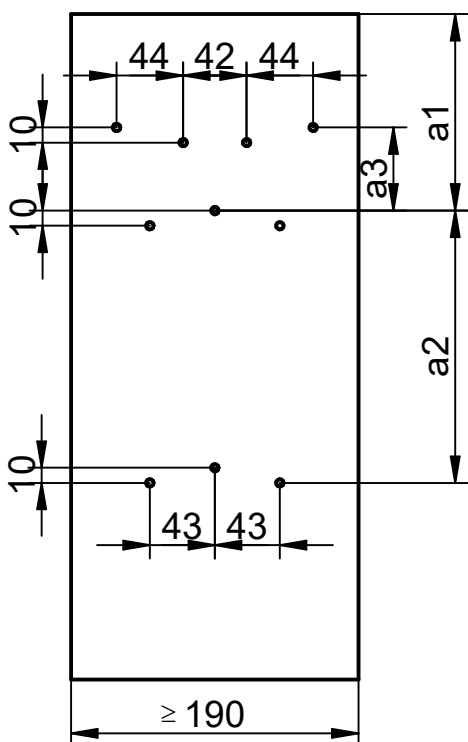


Nadelholz NH:
10x Bohrungen
Ø 5mm,
Tiefe 30 mm

Laubholz LH:
10x Bohrungen
Ø 6mm (LH),
Tiefe: Schrauben-
länge ~120 mm



Positionierbohrungen für mittige Montage im Nebenträger erstellen !



Nadelholz NH:
10x Bohrungen
Ø 5mm,
Tiefe 30 mm

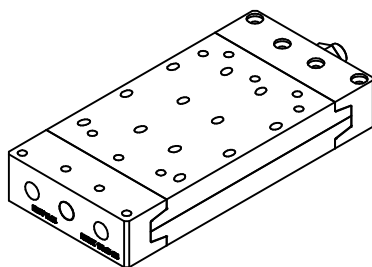
Laubholz LH:
10x Bohrungen
Ø 6mm (LH),
Tiefe: Schrauben-
länge ~120 mm

Bohrmaße bei sichtaren mittigen Einbau

Neben- träger	Bohrabstände a1 in Abhängigkeit der Nebenträgerhöhe H _N [mm]		
	MEGANT® 310x150	MEGANT® 430x150	MEGANT® 550x150
Höhe H _N [mm]			
360	90		
400	110		
440	130		
480	150		
520	170	110	
560	190	130	
600	210	150	
640		170	110
660		180	120
680		190	130
720		210	150
760		230	170
800		250	190
840		270	210
880		290	230
920		310	250
960			270
1000			290

Abstände	MEGANT® 310x150	MEGANT® 430x150	MEGANT® 550x150
a2 [mm]	180	300	420
a3 [mm]	55	55	55

MEGANT® **Anreißschablonen** in jeder Größe für die Horizontalbohrungen sind bei KNAPP® auf Anfrage erhältlich !

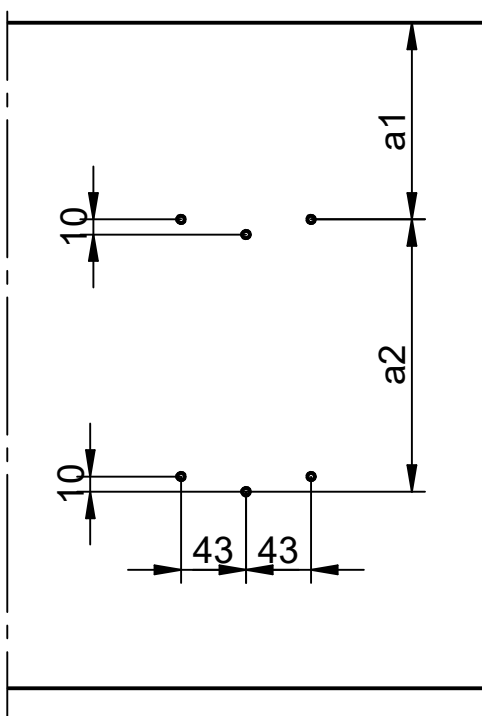


MEGANT® 150x50

Bohrbild verdeckt mittiger Einbau

ALU AW 6082

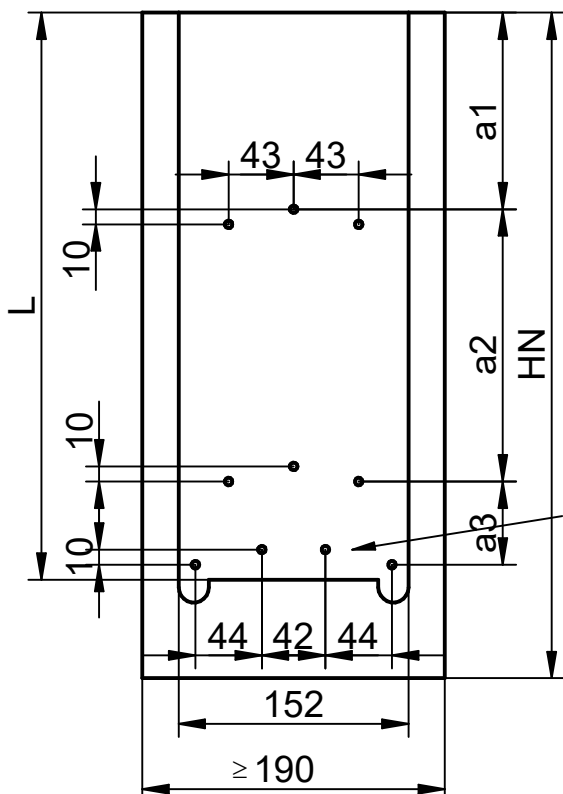
Positionierbohrungen im Hauptträger erstellen !



Nadelholz NH:
6x Bohrungen
Ø 5mm,
Tiefe 30 mm

Laubholz LH:
6x Bohrungen
Ø 6mm (LH),
Tiefe: Schrauben-
länge ~120 mm

Ausfräsung und Positionierbohrungen für mittige Montage im Nebenträger erstellen !



Nadelholz NH:
10x Bohrungen
Ø 5mm,
Tiefe 30 mm

Laubholz LH:
10x Bohrungen
Ø 6mm (LH),
Tiefe: Schrauben-
länge ~120 mm

Einfrästiefe 50 mm

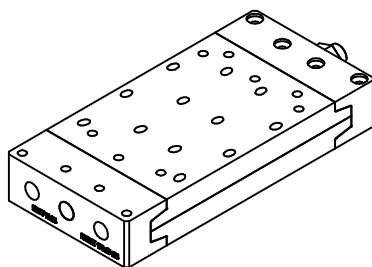
Bohrmaße bei verdeckt mittigen Einbau

Neben- träger	Bohrabstände a1 in Abhängigkeit der Nebenträgerhöhe H _N [mm]		
	MEGANT®	MEGANT®	MEGANT®
Höhe H _N [mm]	310x150	430x150	550x150
360	90		
400	110		
440	130		
480	150		
520	170	110	
560	190	130	
600	210	150	
640		170	110
660		180	120
680		190	130
720		210	150
760		230	170
800		250	190
840		270	210
880		290	230
920		310	250
960			270
1000			290

Abstände	MEGANT®	MEGANT®	MEGANT®
	310x150	430x150	550x150
a2 [mm]	180	300	420
a3 [mm]	55	55	55

Neben- träger	Ausfräslängen L in Abhängigkeit der Nebenträgerhöhe H _N [mm]		
	MEGANT®	MEGANT®	MEGANT®
Höhe H _N [mm]	310x150	430x150	550x150
360	335		
400	355		
440	375		
480	395		
520	415	475	
560	435	495	
600	455	515	
640		535	595
660		545	605
680		555	615
720		575	635
760		595	655
800		615	675
840		635	695
880		655	715
920		675	735
960			755
1000			775

MEGANT® Anreißschablonen in jeder Größe für die Horizontalbohrungen sind bei KNAPP® auf Anfrage erhältlich !

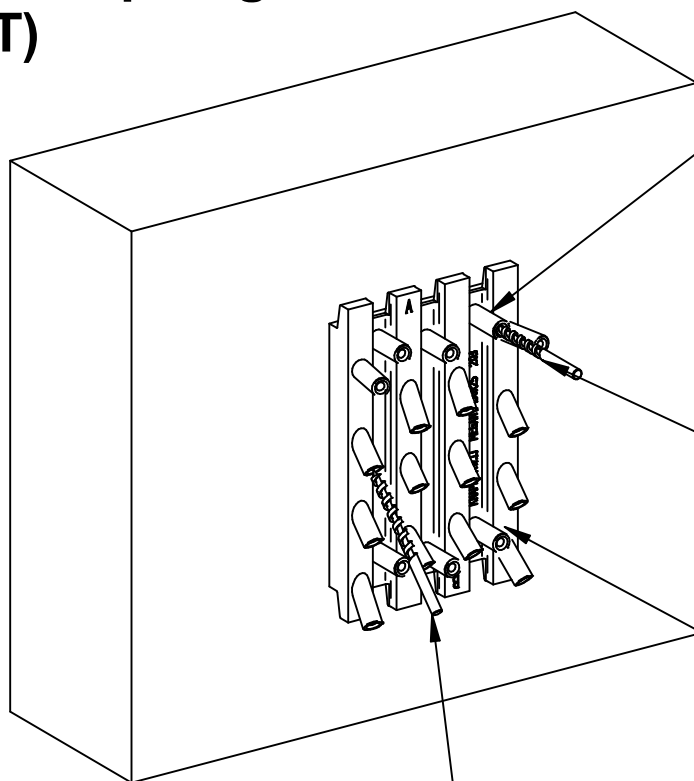


MEGANT® 150x50

Megant in **Laubholz (LH)** vorbohren

LH-Hauptträger (HT)

ALU AW 6082



1.) Knapp Megant-Bohrbuchse in Verbindersplatte einstecken.

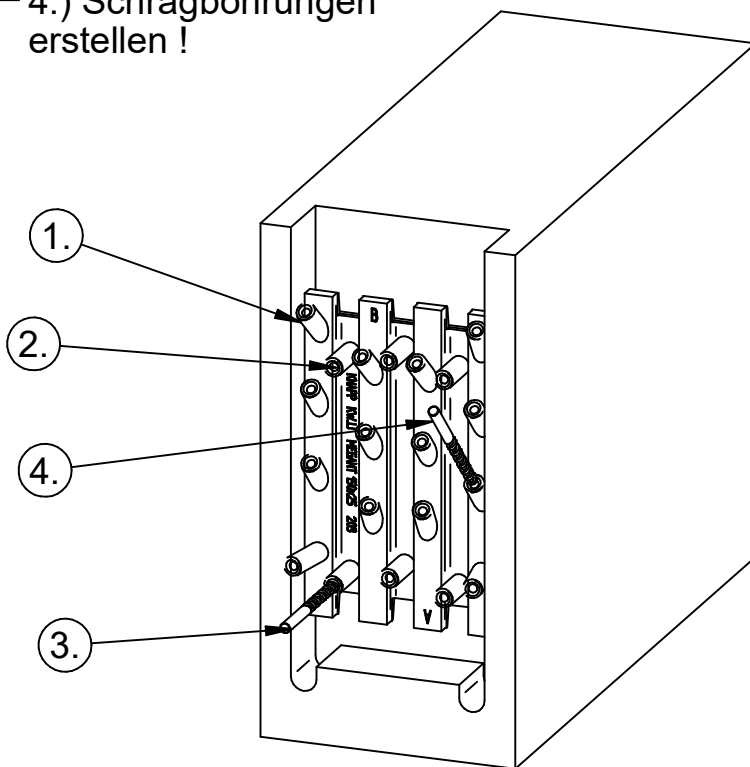


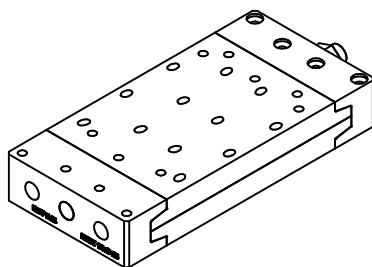
2.) Horizontalschrauben auf volle Schraubenlänge mit d=6mm vorbohren

3.) Schablone in den Horizontalbohrungen festschrauben

4.) Schrägbohrungen erstellen !

LH-Nebenträger (NT)



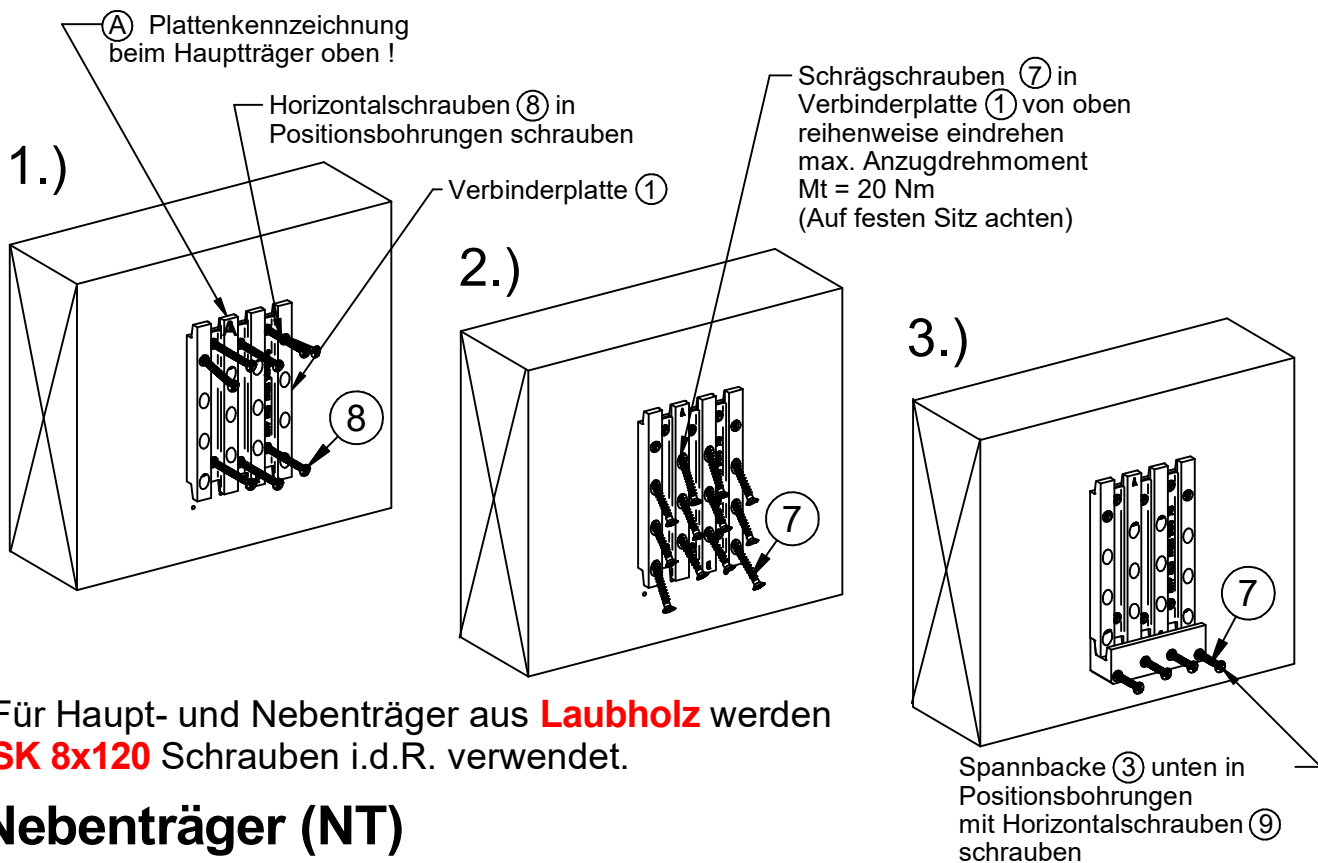


MEGANT® 150x50

Megant sichtbar in HT / NT einbauen

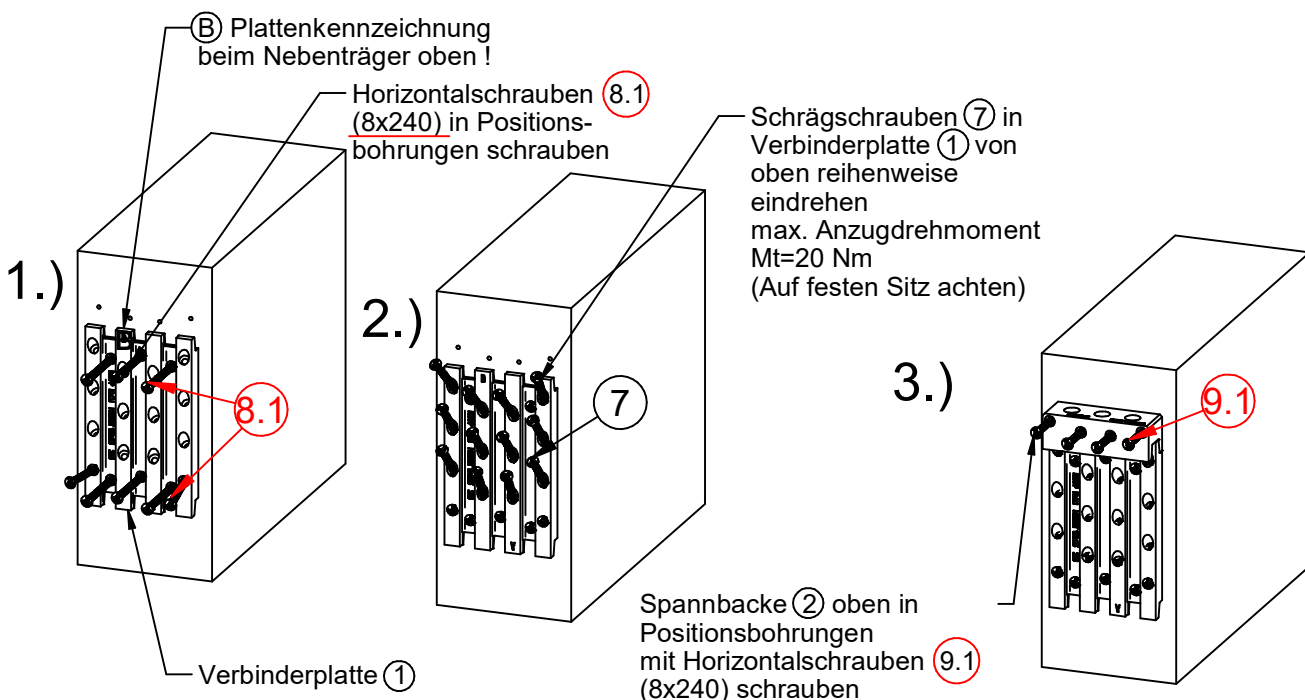
Hauptträger (HT)

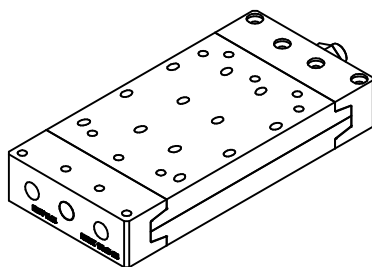
ALU AW 6082



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

Nebenträger (NT)



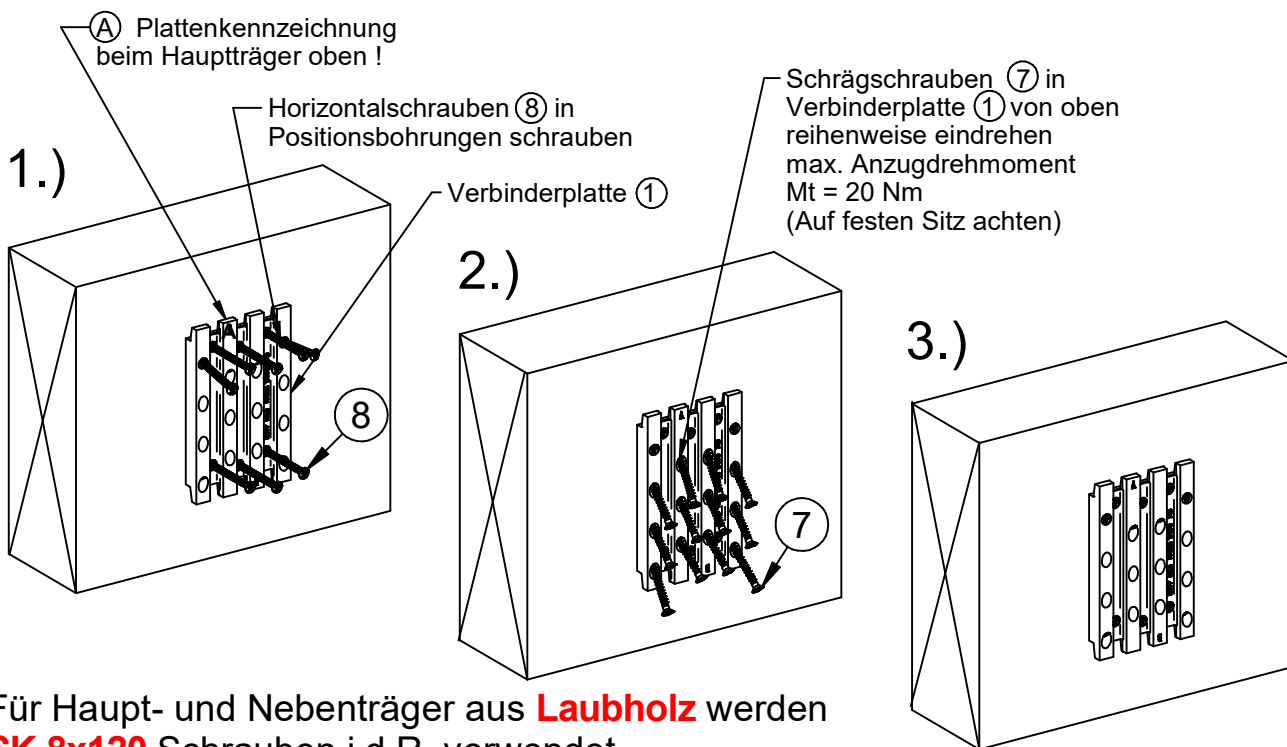


MEGANT® 150x50

Megant verdeckt in HT / NT einbauen

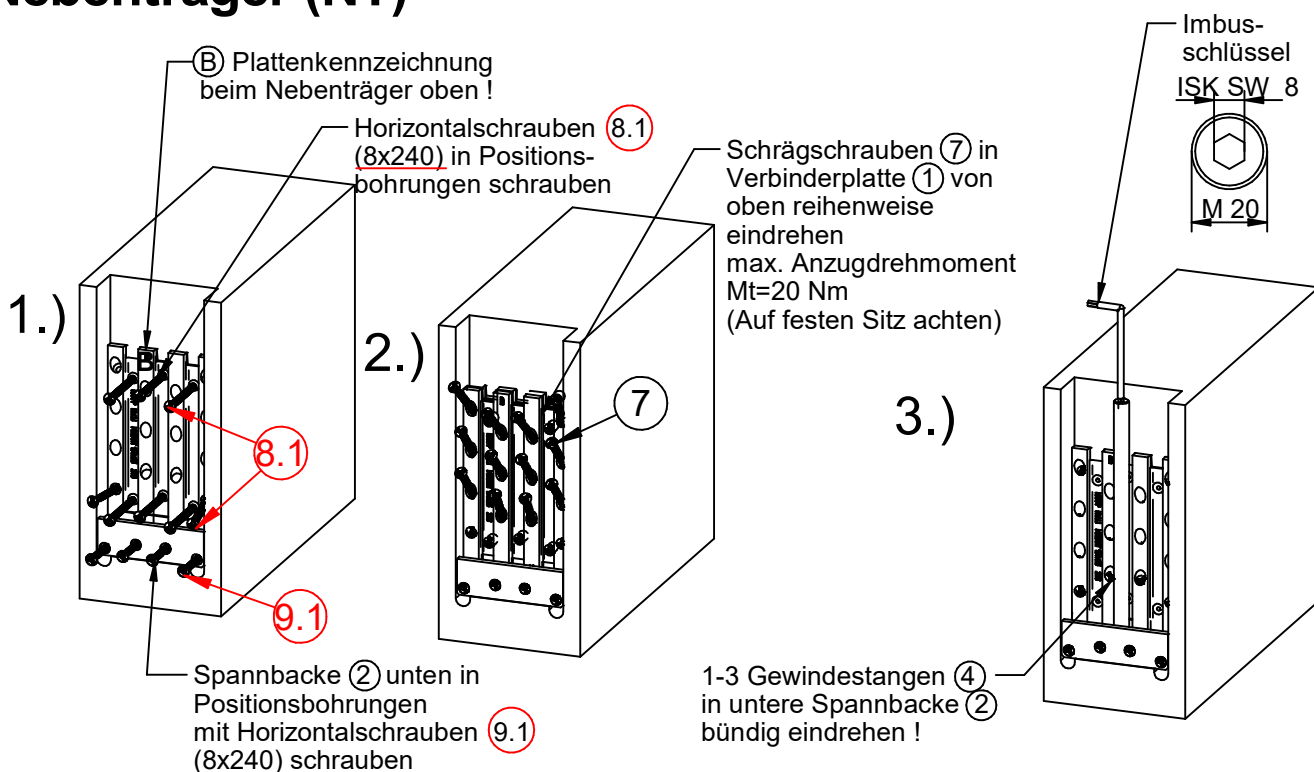
Hauptträger (HT)

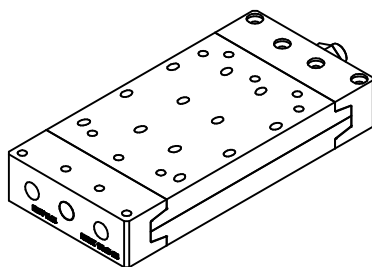
ALU AW 6082



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

Nebenträger (NT)





Montageanleitung MEGANT® 150x50

Ablauf sichtbarer Montage

ALU AW 6082

1. Nebenträger einhängen

Hauptträger Nebenträger

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

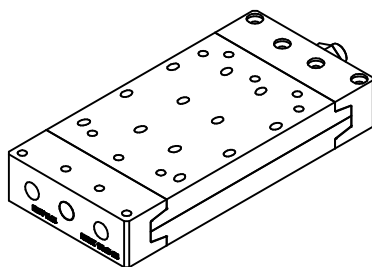
Hauptträger Nebenträger

3. Spannbacke, Beilagscheibe und Mutter M20 aufsetzen

Hauptträger Nebenträger

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

Hauptträger Nebenträger

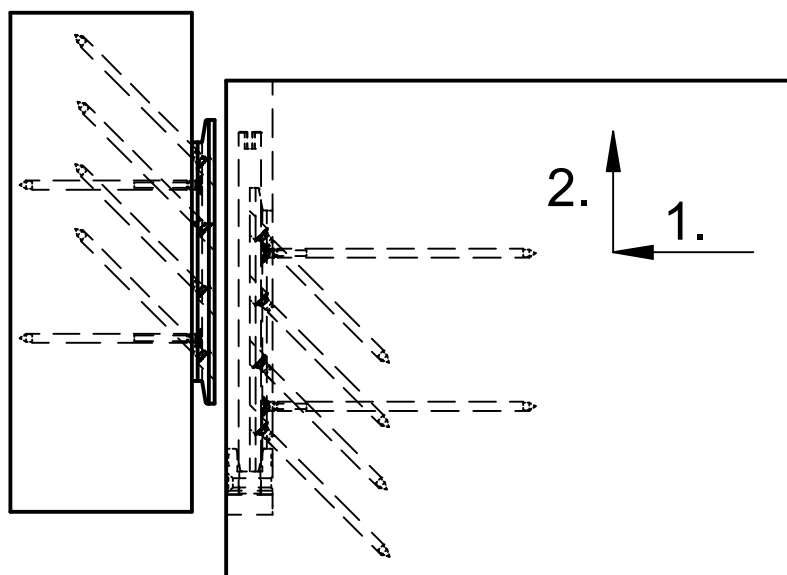


MEGANT® 150x50

Ablauf verdeckter Montage

1. Nebenträger von unten einhängen

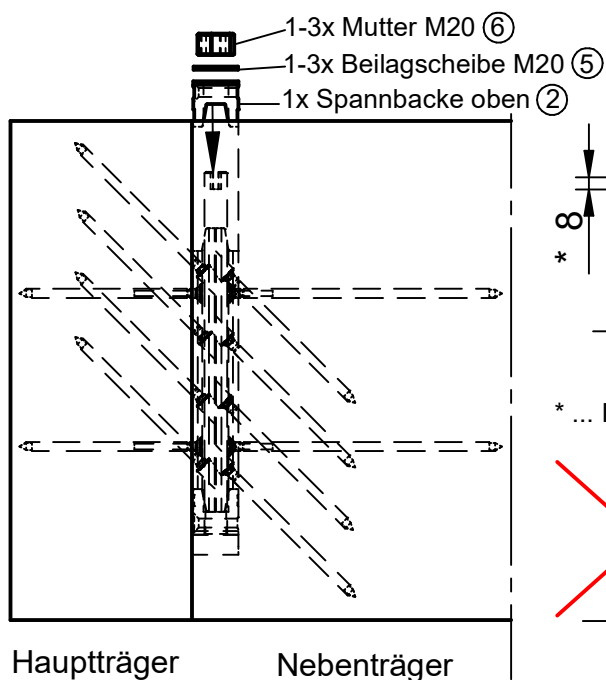
ALU AW 6082



Hauptträger

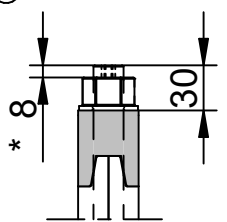
Nebenträger

2. Spannbacke, Beilagscheibe und Mutter M20 aufsetzen und mit Steckschlüssel (SW30) 40 Nm festziehen

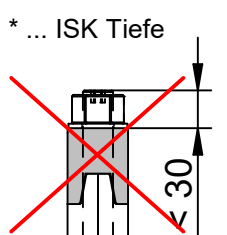


Hauptträger

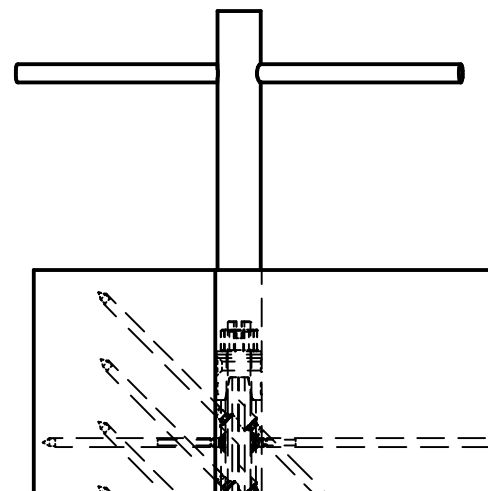
Nebenträger



✓ OK



* ... ISK Tiefe





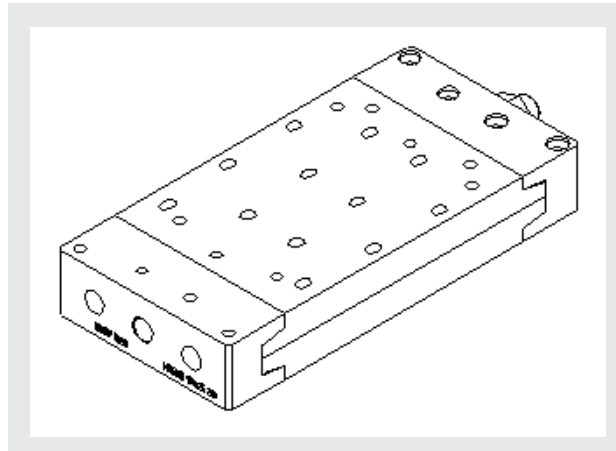
Knapp GmbH ■ Wassergasse 31 ■ A-3324 Euratsfeld ■ Tel.: +43 (0)7474 / 799 10 ■ Fax: +43 (0)7474 / 799 10 99
Knapp GmbH ■ Vertrieb Deutschland ■ Föhrenweg 1 ■ D-85591 Vaterstetten ■ Tel.: +49 (0)8106 / 99 55 99 0 ■ Fax: +49 (0)8106 / 99 55 99 20 ■ E-Mail: info@knapp-verbinder.com
Knapp GmbH Sàrl ■ Filiale 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

Montageanleitung

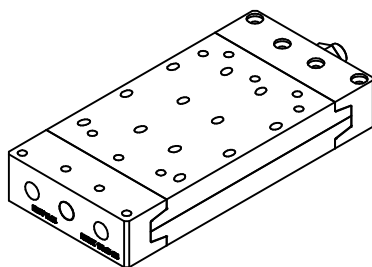
Construction Manual

Notice de montage

VERSION

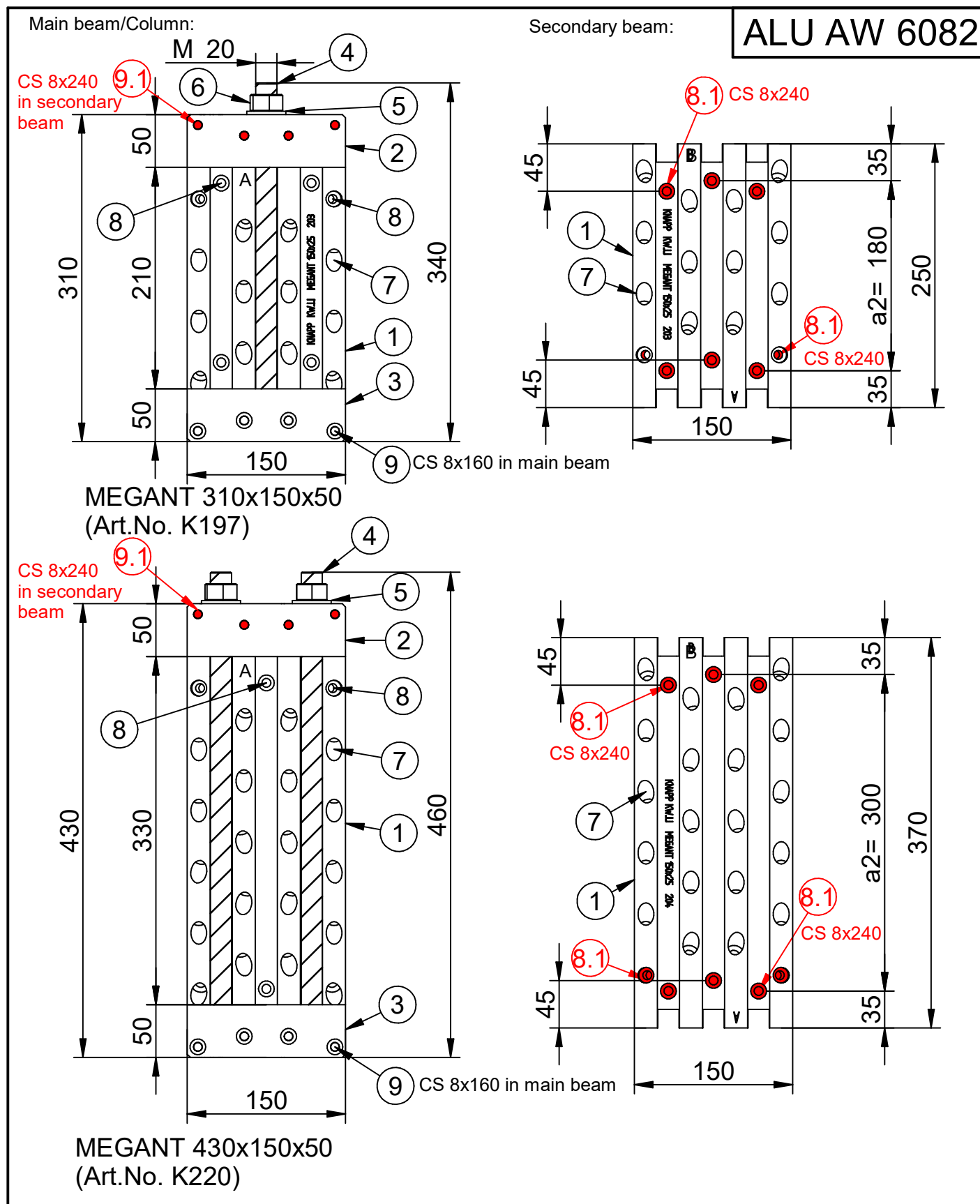


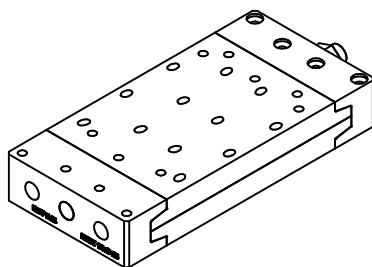
Art.-No.



MEGANT® 150x50

Overview of standard sizes



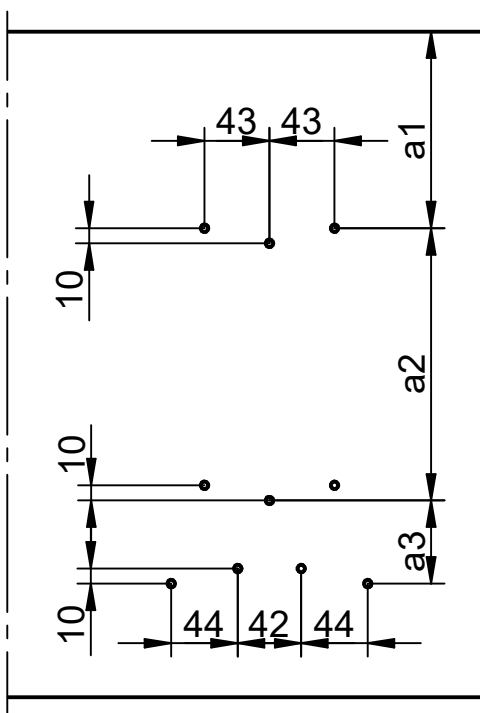


MEGANT® 150x50

Drilling pattern visible central installation

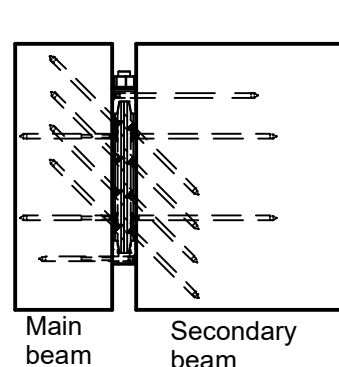
ALU AW 6082

Drill pattern main beam !



Softwood:
10x holes
Ø 5mm,
depth 30 mm

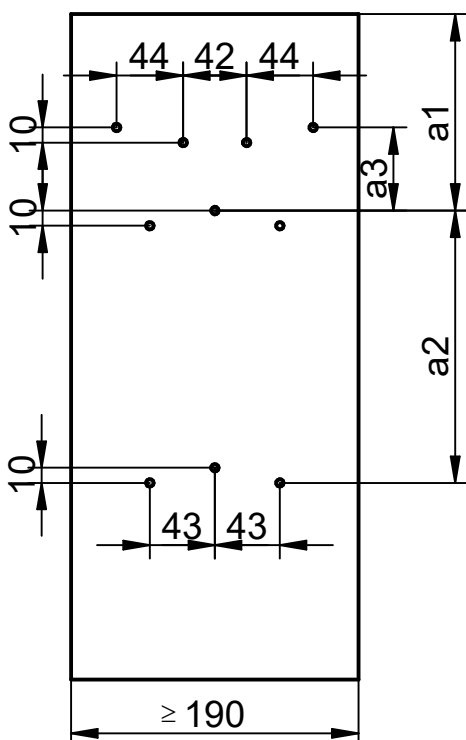
Hardwood:
10x holes
Ø 6mm,
depth screw
length~120 mm



Main
beam

Secondary
beam

Drilling positions for centered, visibe mounting in secondary beam !



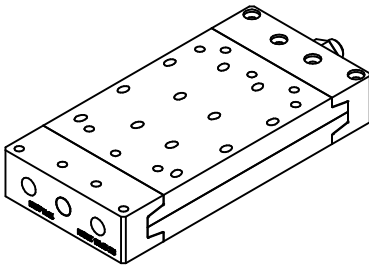
Softwood:
10x holes
Ø 5mm,
depth 30 mm

Hardwood:
10x holes
Ø 6mm,
depth screw
length~120 mm

Drilling dimensions with visible central installation			
Secondary beam	Drilling distances a1 depending on the secondary beam height H _N [mm]		
Height	MEGANT®	MEGANT®	MEGANT®
H _N [mm]	310x150	430x150	550x150
360	90		
400	110		
440	130		
480	150		
520	170	110	
560	190	130	
600	210	150	
640		170	110
680		190	130
720		210	150
760		230	170
800		250	190
840		270	210
880		290	230
920		310	250
960			270
1000			290

Distances	MEGANT®	MEGANT®	MEGANT®
	310x150	430x150	550x150
a2 [mm]	180	300	420
a3 [mm]	55	55	55

MEGANT marking templates
in any size for the horizontal drilling
are available on request.

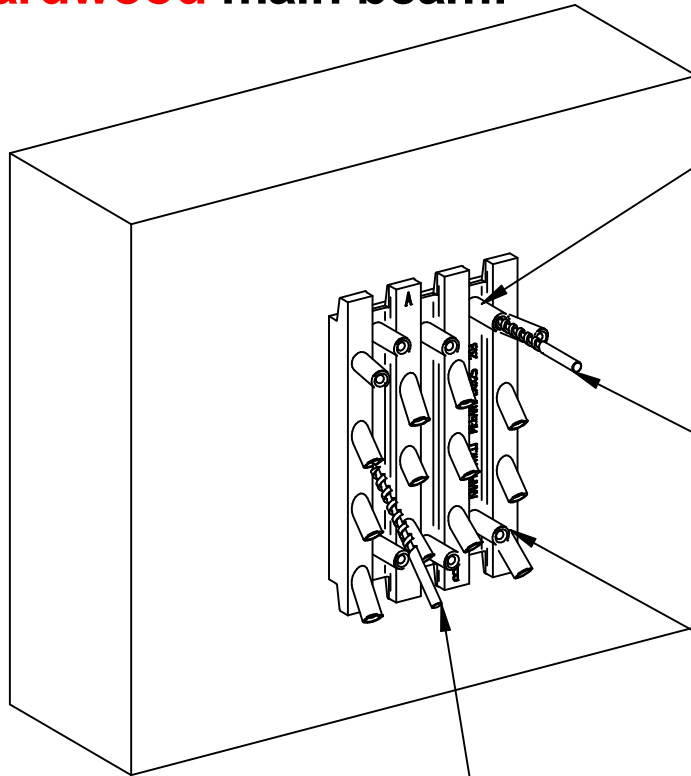


MEGANT® 150x50

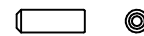
Pre-drilling Megant in **Hardwood**

Hardwood main beam:

ALU AW 6082



1.) Plug in Megant-KNAPP-drill-bushing into connector plate !

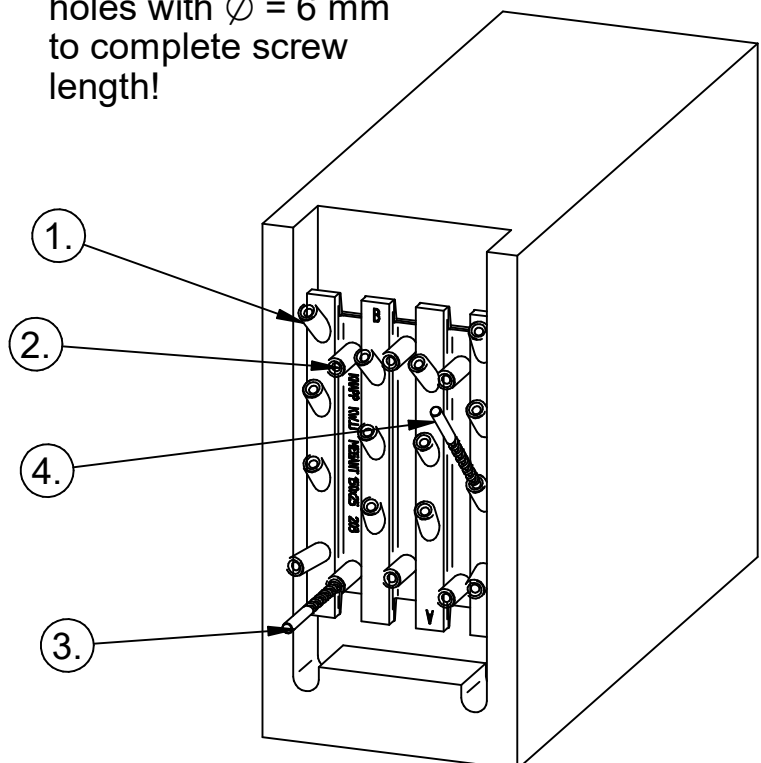


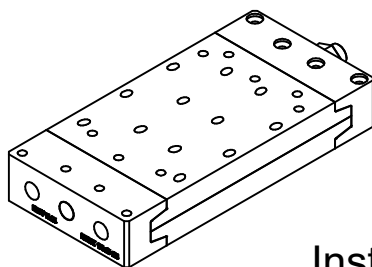
2.) Pre-drill horizontal screws with $\varnothing = 6$ mm to complete screw length

3.) Fix the template in the horizontal bore holes

4.) Pre-drill the inclined holes with $\varnothing = 6$ mm to complete screw length!

Hardwood secondary beam:





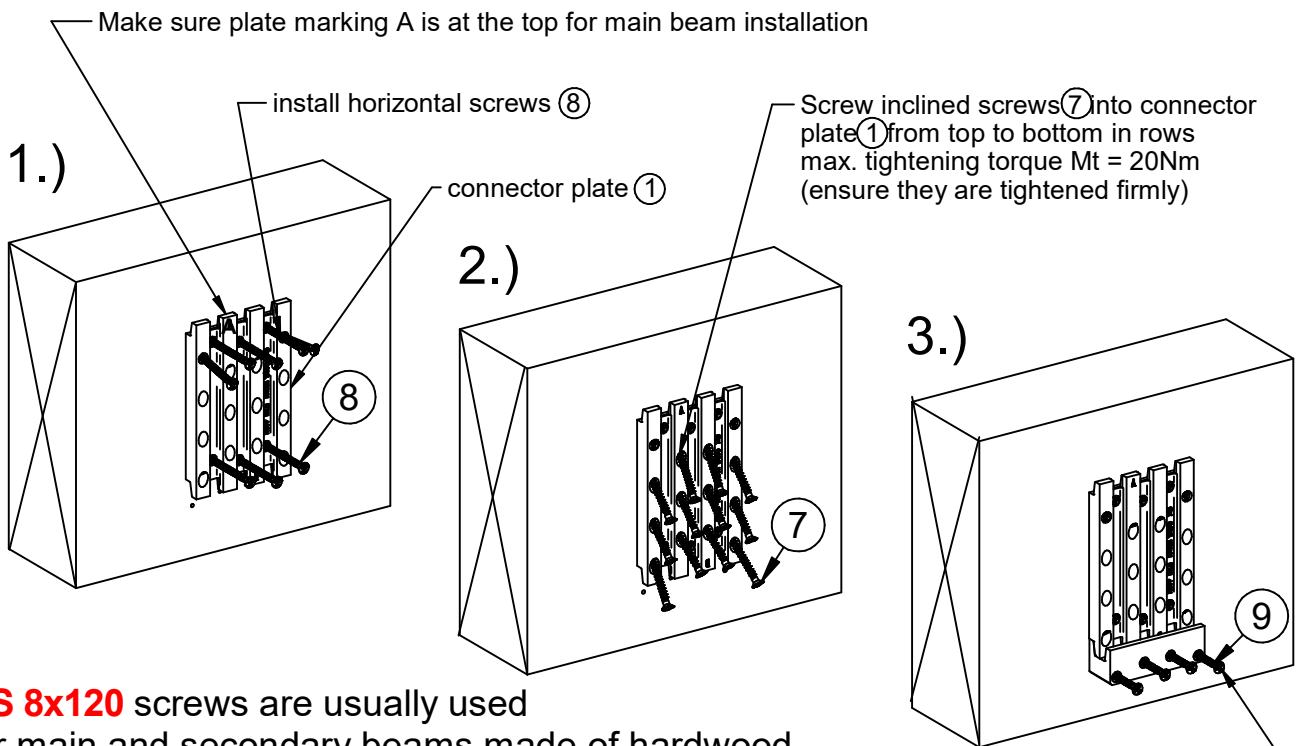
Assembly Instructions

MEGANT® 150x50

Install MEGANT **Visible** in the main and secondary beam

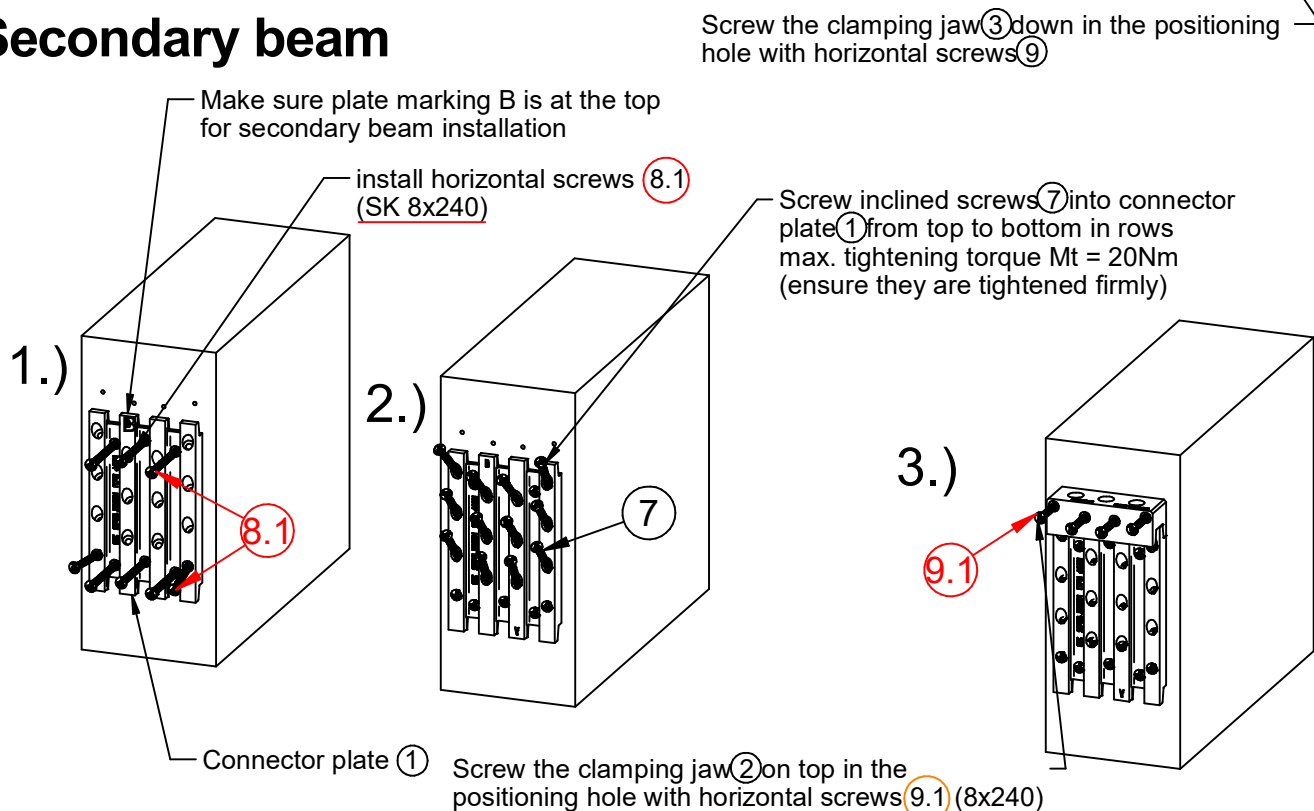
ALU AW 6082

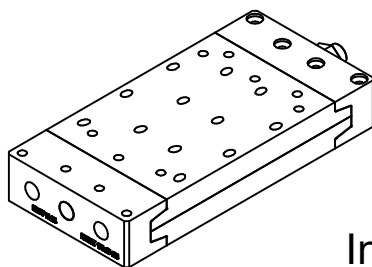
Main beam



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

Secondary beam



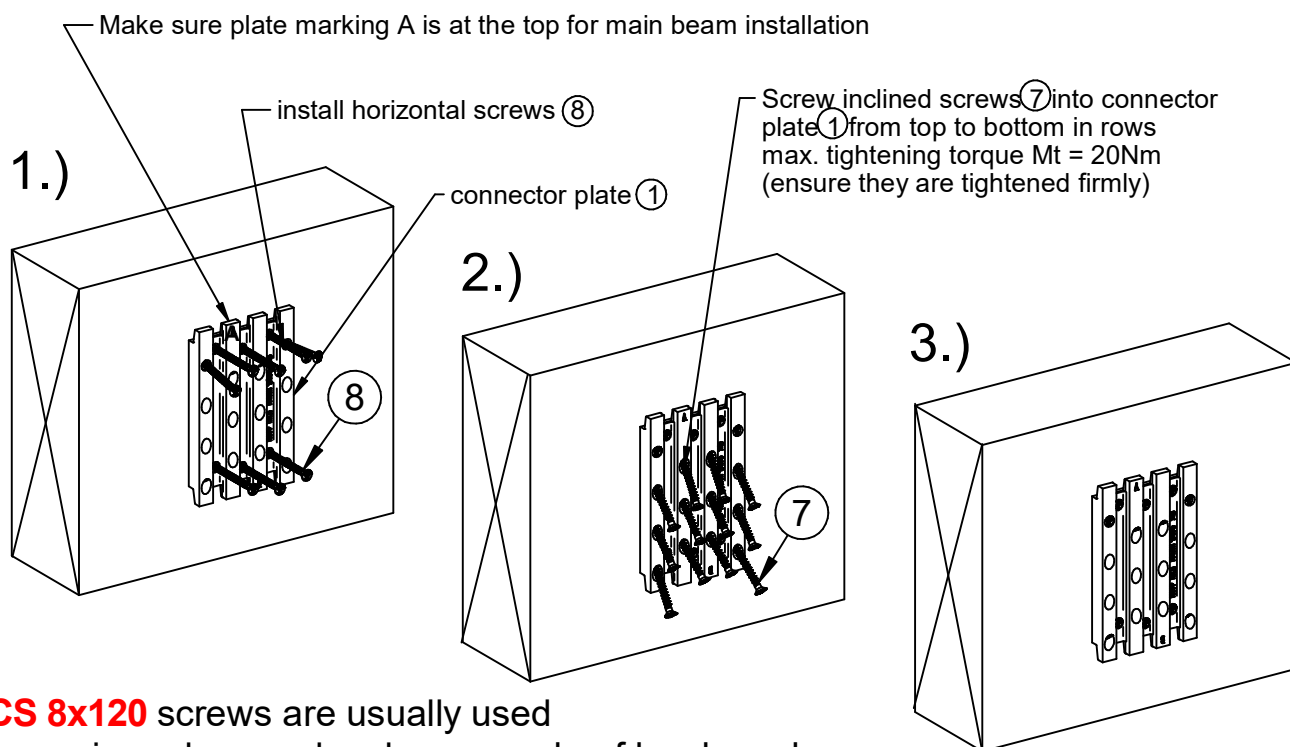


MEGANT® 150x50

Install Megant Concealed in main and secondary beam

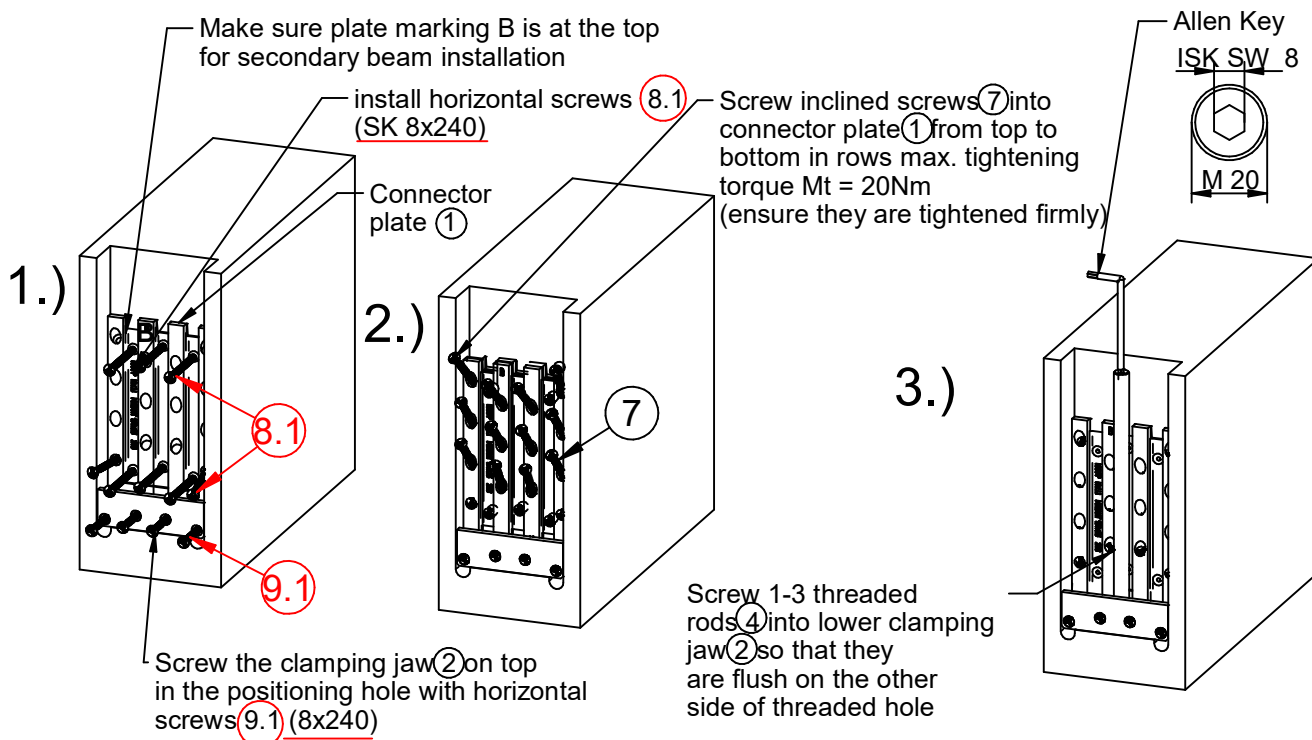
Main beam

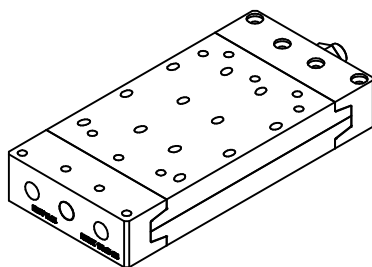
ALU AW 6082



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

Secondary beam





Assembly Instructions

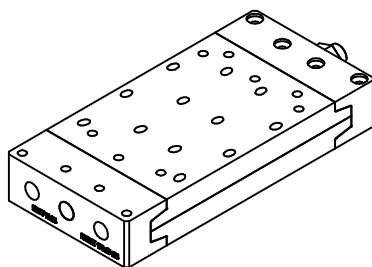
MEGANT® 150x50

Process of visible assembly

1. Install secondary beam Main beam Secondary beam	ALU AW 6082 2. Install M20 threaded rod ④ in lower clamping jaw ③ flush Allen Key SW8 ④ M20 threaded rod with ISK SW 8 M 20 ① connector plate ③ lower clamping jaw with internal M20 thread Threaded rod screwed in flush Main beam Secondary beam
3. Install clamping jaw, washer and M 20 nut ⑥ 1-3x nut M20 ⑤ 1-3x washer M20 30 ✓ OK * ... ISK depth < 30 Main beam Secondary beam	4. Tighten M20 nut with SW 30 wrench (40 Nm)! Main beam Secondary beam

This drawing is the property of Knapp GmbH.

© Knapp GmbH. All measures in mm - Errors, misprints and changes reserved. VERSION 24.02.2021

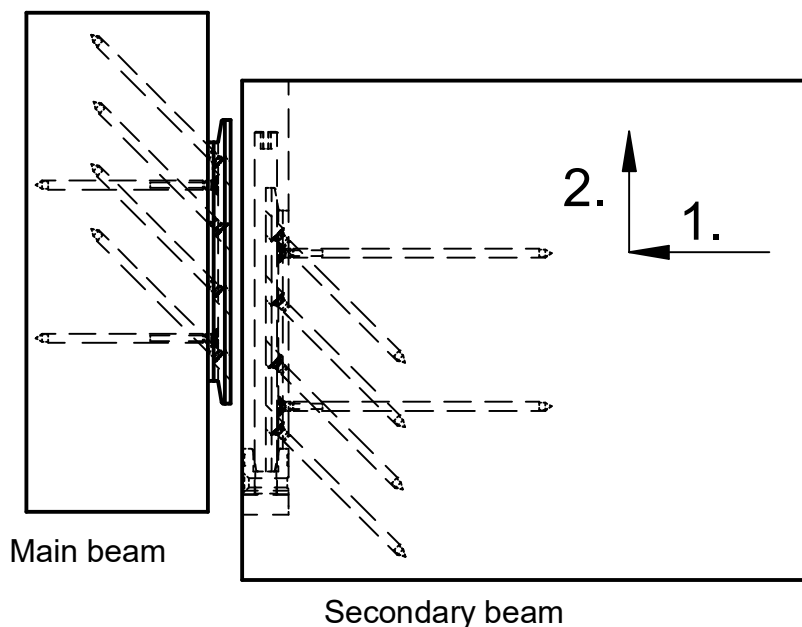


MEGANT® 150x50

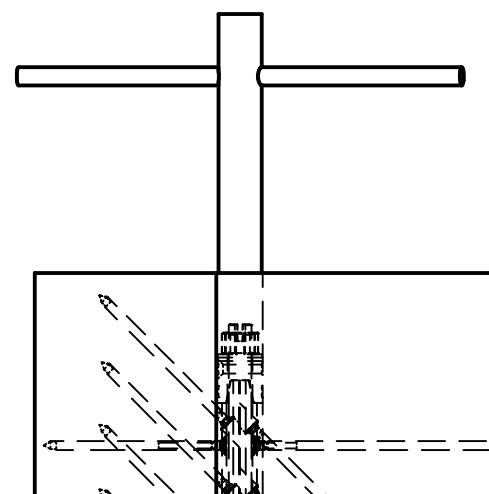
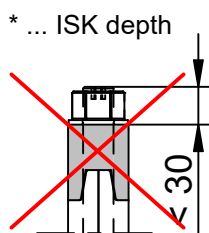
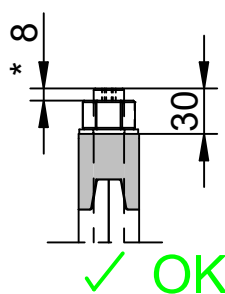
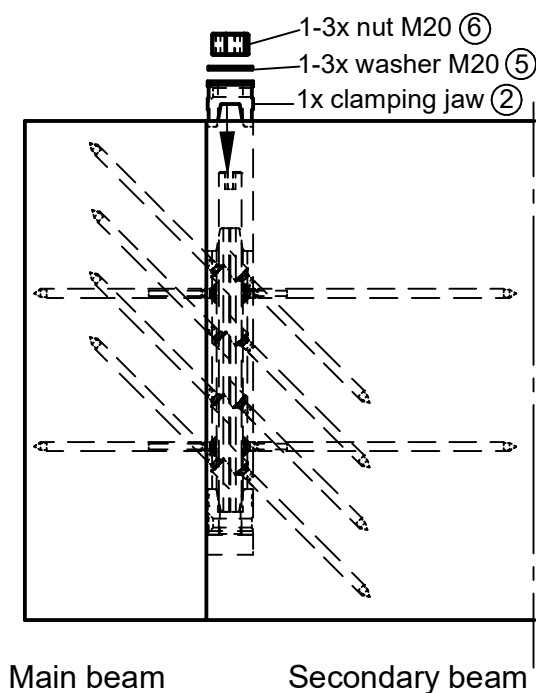
Process of concealed assembly

1. Install the secondary beam from below

ALU AW 6082



2. Put on the clamping jaw, washer and M20 nut and tighten with a socket wrench (SW30) to 40 Nm!





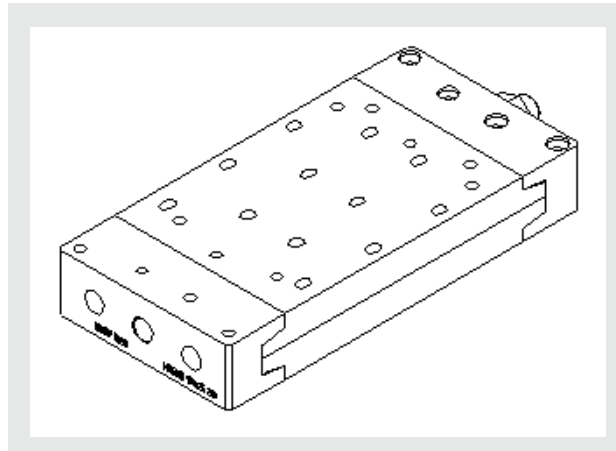
Knapp GmbH ■ Wassergasse 31 ■ A-3324 Euratsfeld ■ Tel.: +43 (0)7474 / 799 10 ■ Fax: +43 (0)7474 / 799 10 99
Knapp GmbH ■ Vertrieb Deutschland ■ Föhrenweg 1 ■ D-85591 Vaterstetten ■ Tel.: +49 (0)8106 / 99 55 99 0 ■ Fax: +49 (0)8106 / 99 55 99 20 ■ E-Mail: info@knapp-verbinder.com
Knapp GmbH Sàrl ■ Filiale 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

Montageanleitung

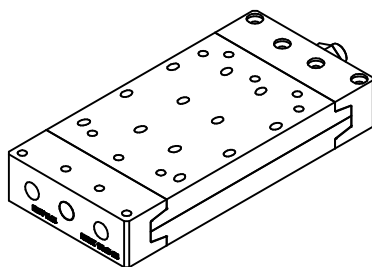
Construction Manual

Notice de montage

VERSION

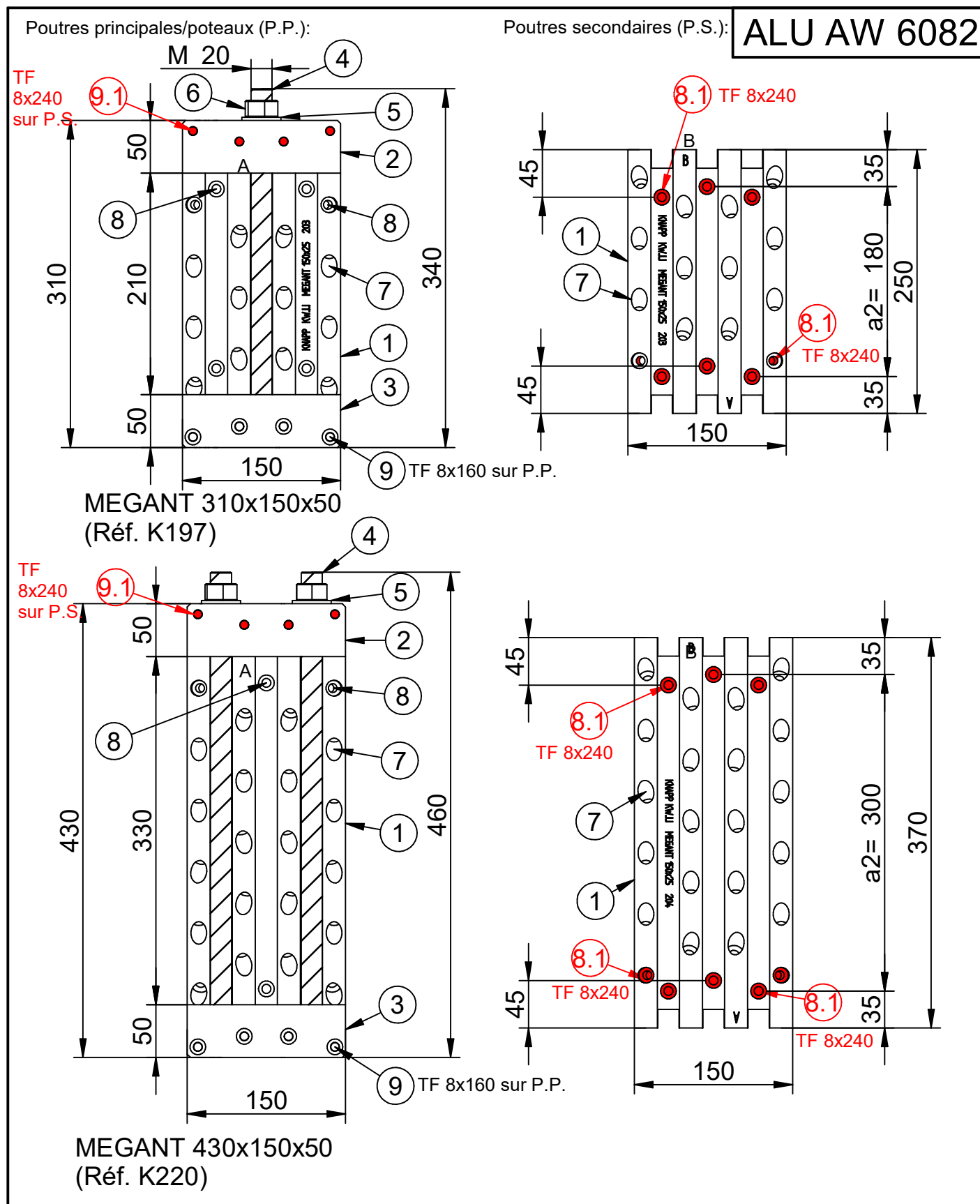


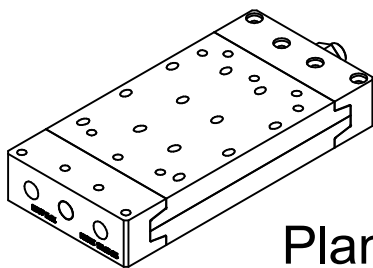
Réf.



MEGANT® 150x50

Vue d'ensemble des dimensions standards



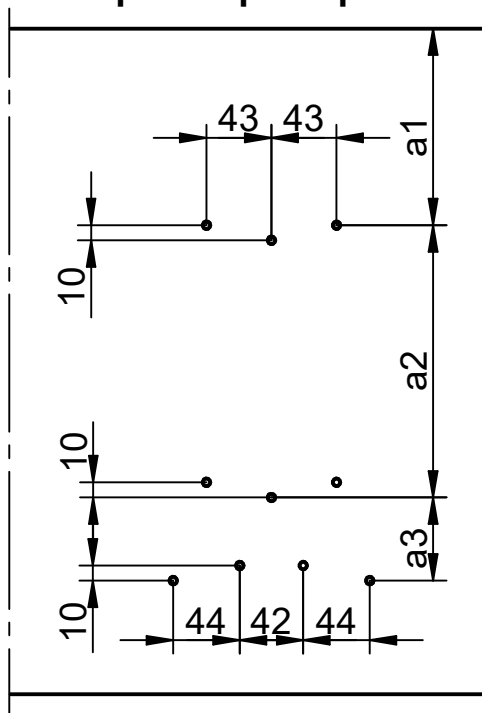


MEGANT® 150x50

Plan de perçage pour montage centré et visible

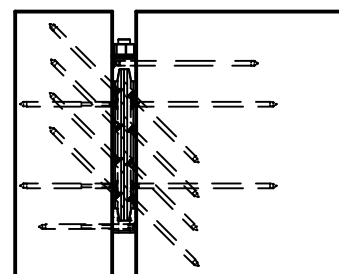
Réaliser les perçages de positionnement sur la poutre principale !

ALU AW 6082



Résineux:
10 perçages
Ø 5 mm,
profondeur 30 mm

Feuillus:
10 perçages
Ø 6 mm,
profondeur suivant
long vis ~120 mm



Poutre principale

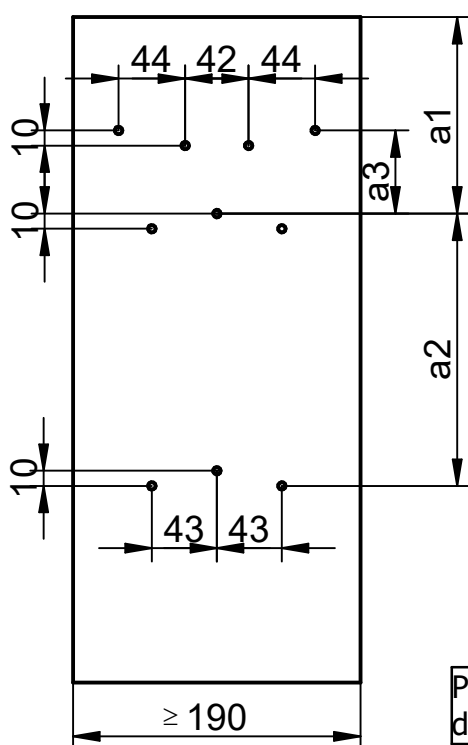
Poutre secondaire

Dimensions de perçages pour montage centré et visible

Poutre secondaire	Distances de perçage a1 en relation avec la hauteur de poutre secondaire H _N [mm]		
Hauteur H _N [mm]	MEGANT® 310x150	MEGANT® 430x150	MEGANT® 550x150
360	90		
400	110		
440	130		
480	150		
520	170	110	
560	190	130	
600	210	150	
640		170	110
660		180	120
680		190	130
720		210	150
760		230	170
800		250	190
840		270	210
880		290	230
920		310	250
960			270
1000			290

Distances	MEGANT® 310x150	MEGANT® 430x150	MEGANT® 550x150
a2 [mm]	180	300	420
a3 [mm]	55	55	55

Réaliser les perçages de positionnement sur la poutre secondaire !



Résineux:
10 perçages
Ø 5 mm,
profondeur 30 mm

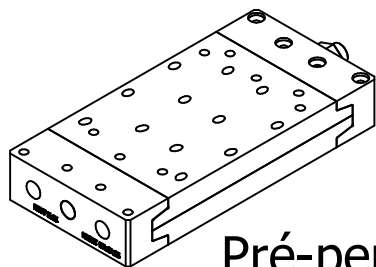
Feuillus:
10 perçages
Ø 6 mm,
profondeur suivant
long vis ~120 mm

Platines de pointage pour la réalisation des perçages horizontaux, disponibles sur demande pour chaque dimensions MEGANT®.



Plan de perçage pour montage **centré et encastré**

ALU AW 6082

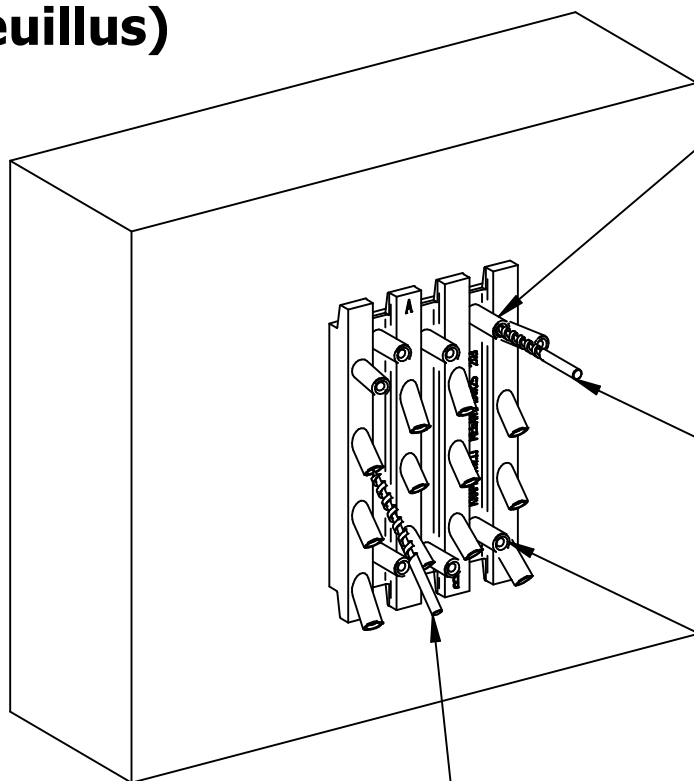


MEGANT® 150x50

Pré-perçage Megant pour mise en oeuvre sur **feuillus**

Poutre principale (feuillus)

ALU AW 6082



1.) Insérer les douilles de perçage Knapp Megant sur la plaque principale.

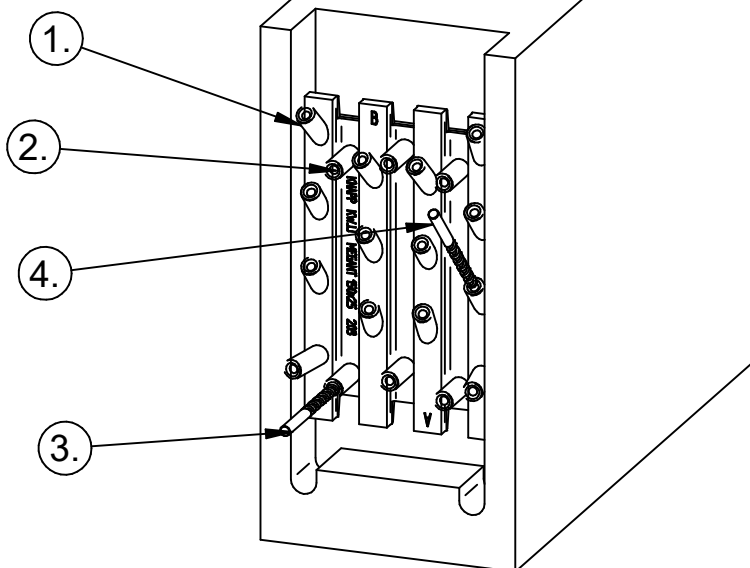


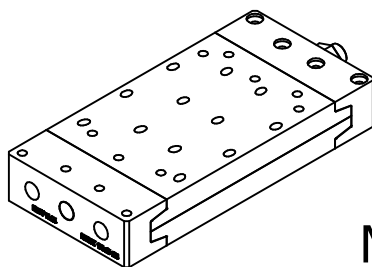
2.) Réaliser les perçages Ø 6mm sur la longueur totale des vis horizontales.

3.) Visser les vis horizontales

4.) Réaliser les perçages Ø 6mm sur la longueur totale des vis biais.

Poutre secondaire (feuillus)



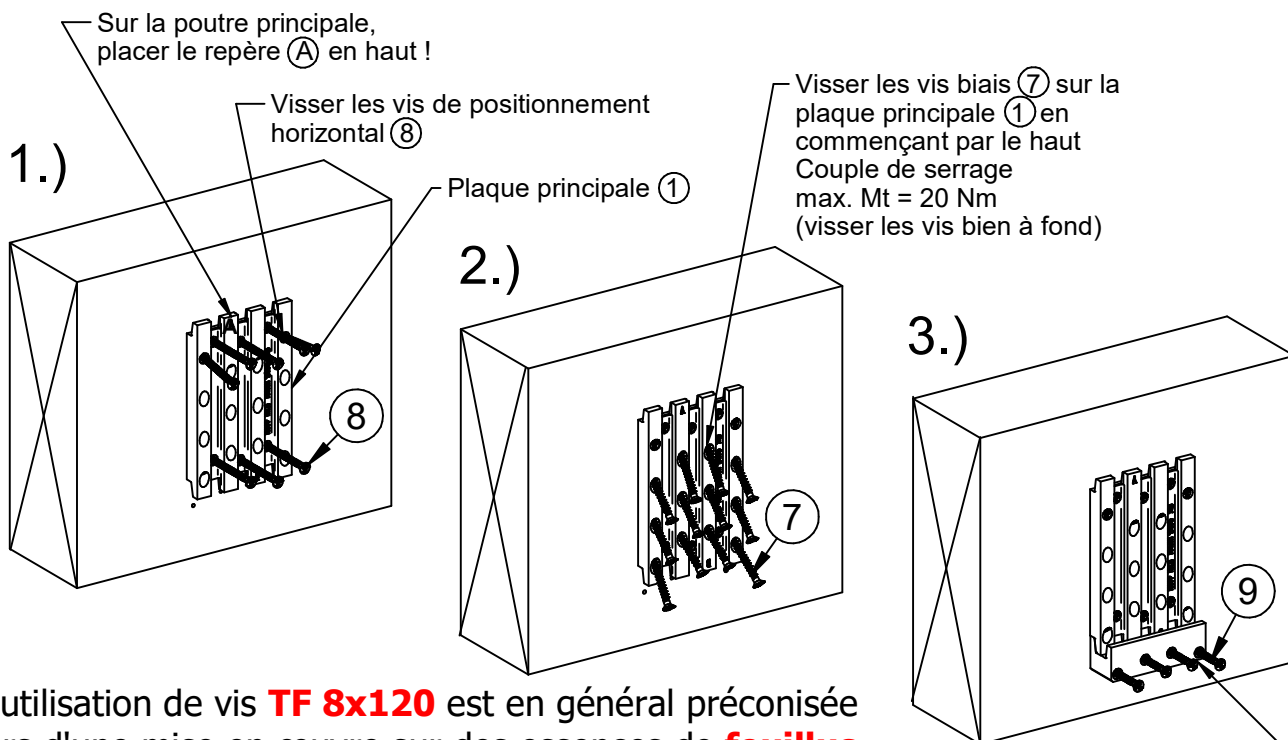


MEGANT® 150x50

Mise en oeuvre Megant **visible**, sur P.P./P.S.

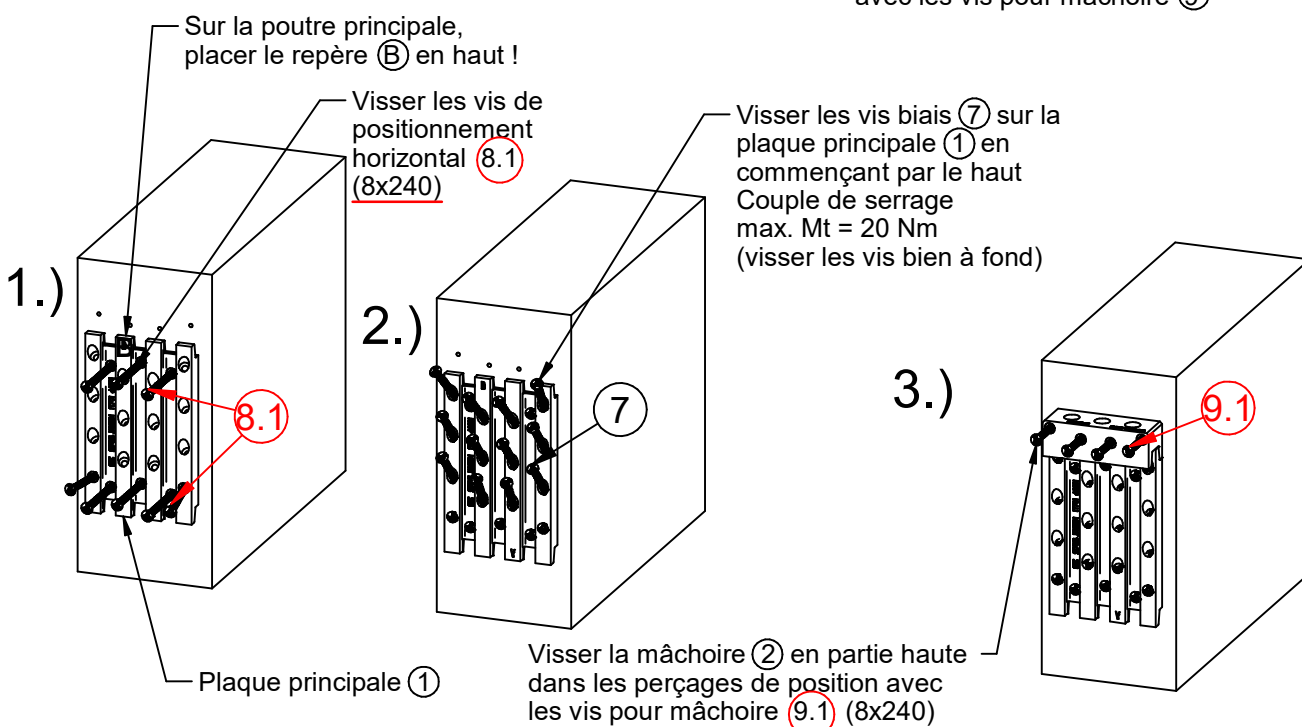
ALU AW 6082

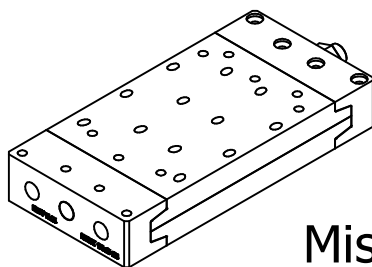
Poutre principale (P.P.)



L'utilisation de vis **TF 8x120** est en général préconisée lors d'une mise en œuvre sur des essences de **feuillus**.

Poutre secondaire (P.S.)



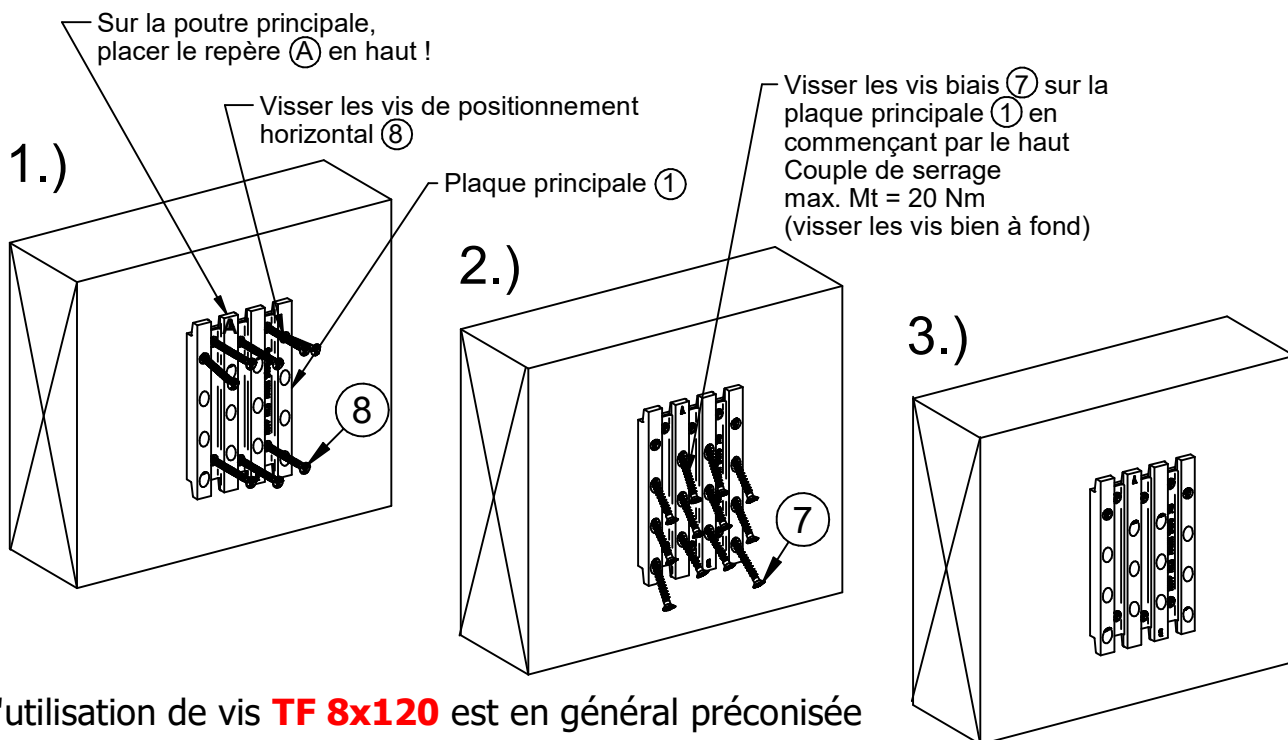


MEGANT® 150x50

Mise en oeuvre Megant **encastré**, sur P.P./P.S.

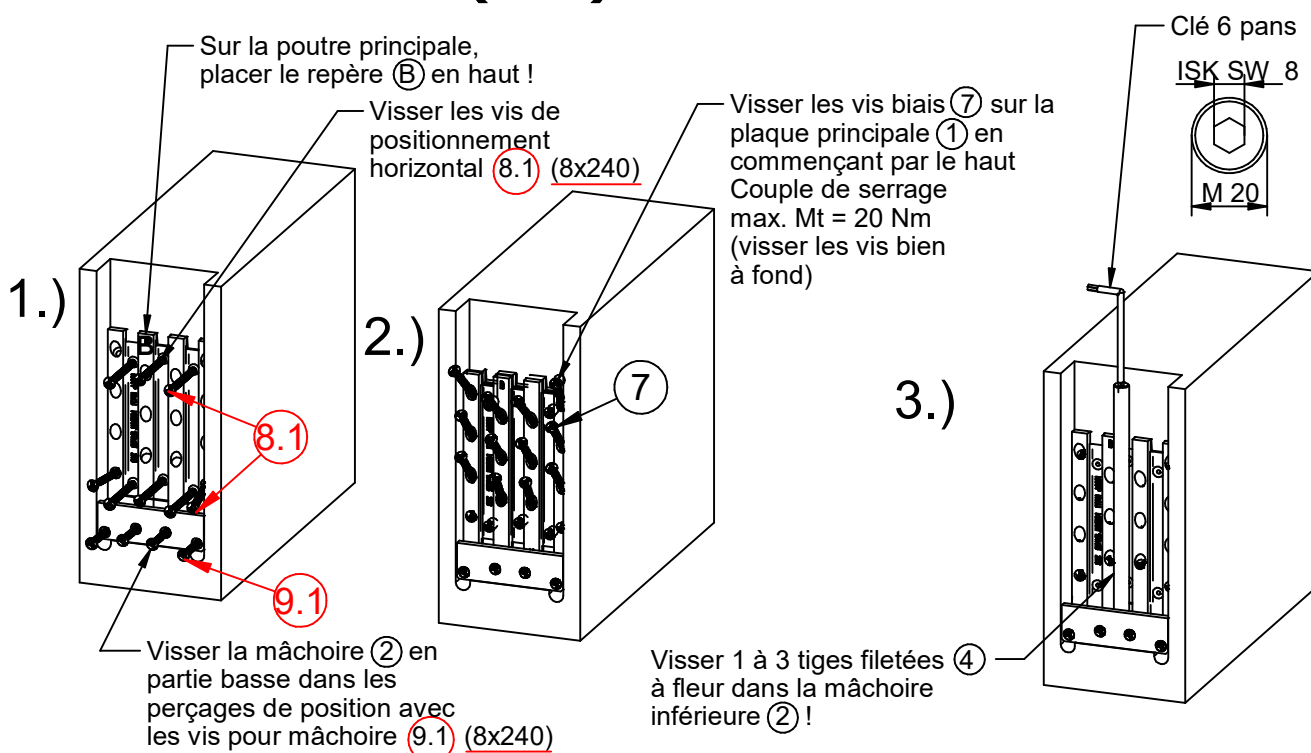
ALU AW 6082

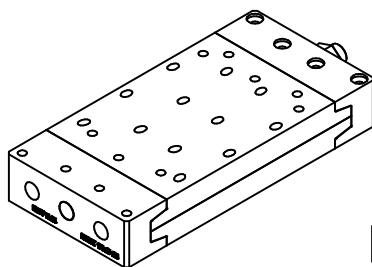
Poutre principale (P.P.)



L'utilisation de vis **TF 8x120** est en général préconisée lors d'une mise en œuvre sur des essences de **feuillus**.

Poutre secondaire (P.S.)



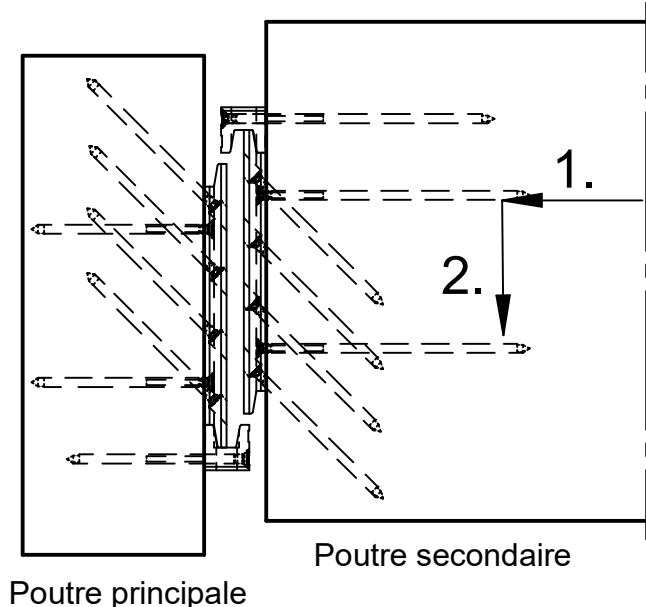


MEGANT® 150x50

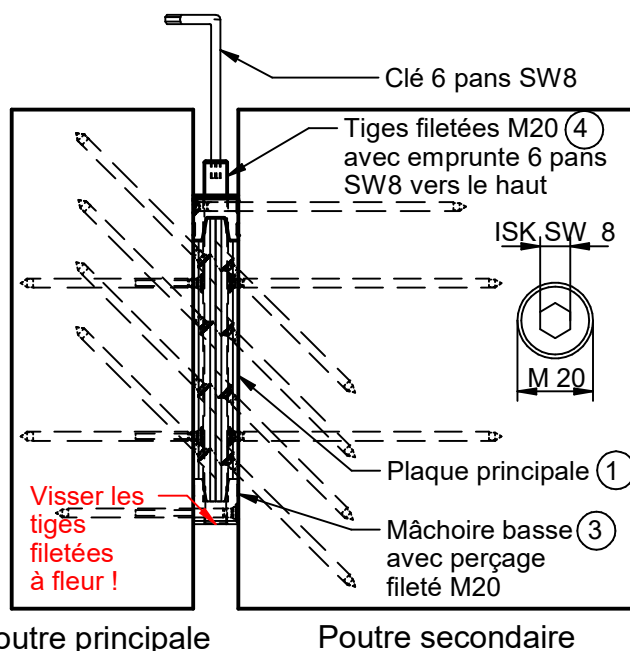
Procédure de montage connecteurs **visibles**

ALU AW 6082

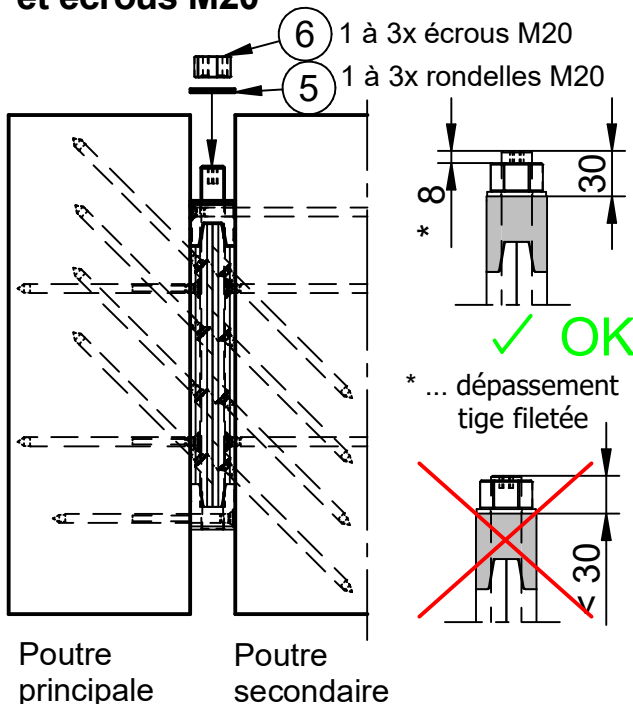
1. Accroche de la poutre secondaire



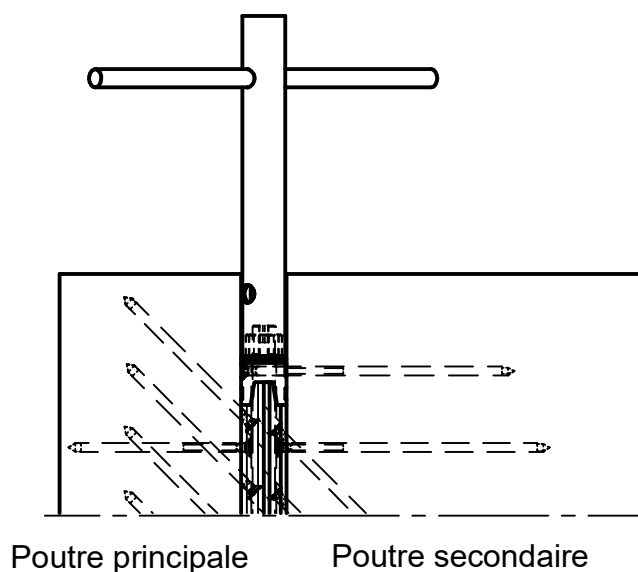
2. Visser les tiges filetées (4) (M20) à fleur dans la mâchoire inférieure (3)

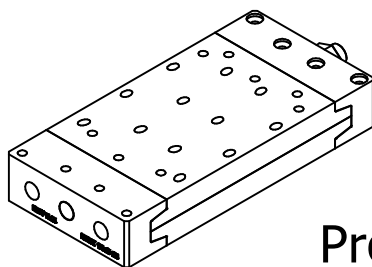


3. Mettre en place la mâchoire supérieure, les rondelles et écrous M20



4. Serrer l'écrou M20 avec une clé à douille (SW 30) 40 Nm !



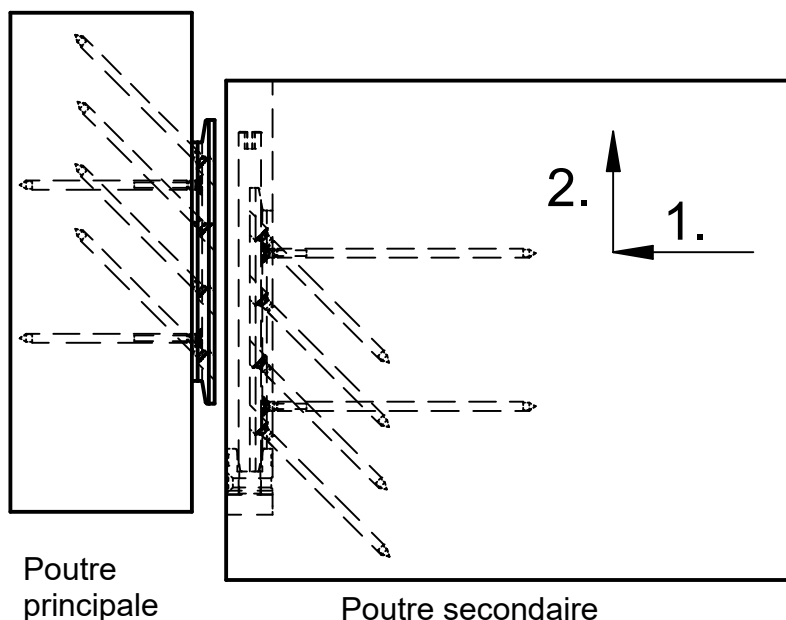


MEGANT® 150x50

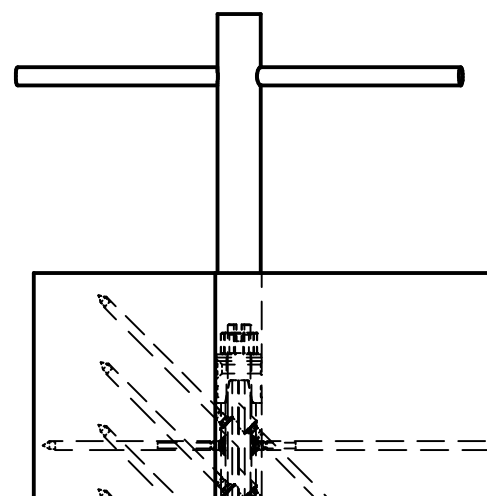
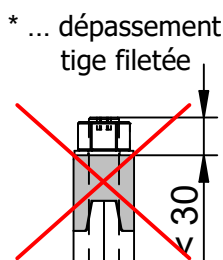
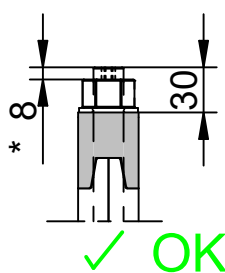
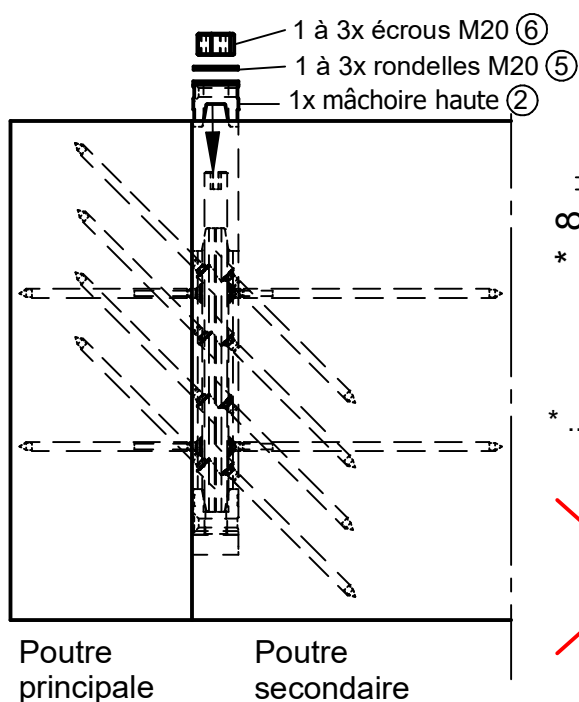
Procédure de montage connecteurs **invisibles**

1. Emboîter la poutre secondaire de bas en haut

ALU AW 6082



2. Mettre en place la mâchoire supérieure, les rondelles et les écrous M20 et serrer avec une clé à douille (SW 30) 40 Nm





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
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