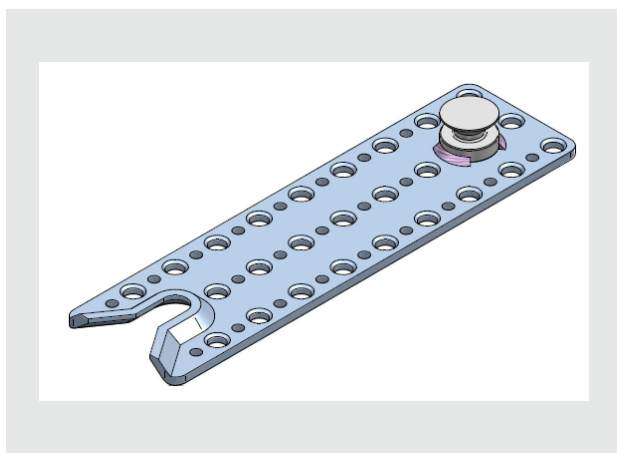


Montageanleitung

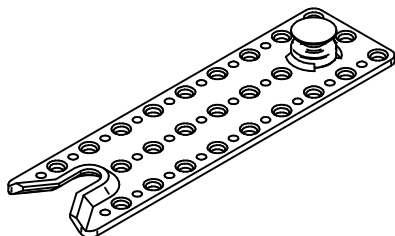
Construction Manual

Notice de montage

VERSION



Art.-Nr.



Montageanleitung

RICON® S 290/80 VS

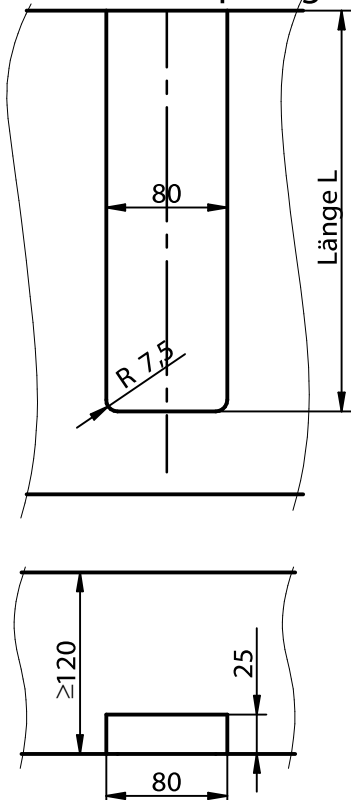
Verschweißter Kragenbolzen

Ausfräsung im Hauptträger

CE
ETA-10/0189

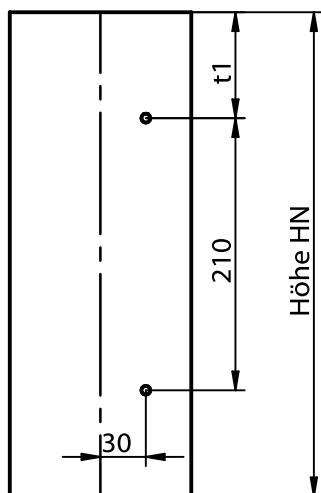
Art.-Nr. K129

1. Fräsen im Hauptträger



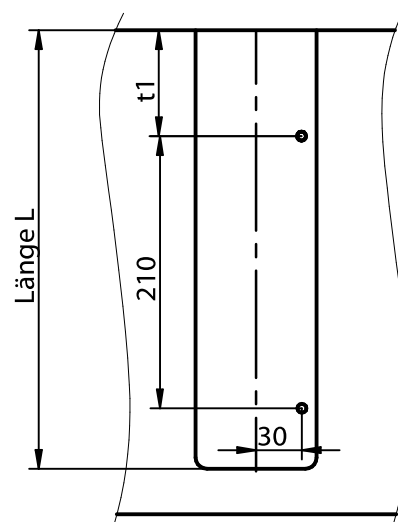
2. Positionierbohrungen

Nebenträger



2 Positionierbohrungen Ø 6 mm
im Hirnholz, Tiefe 50 mm

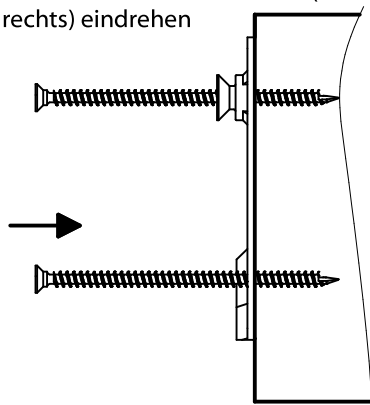
Hauptträger



2 Positionierbohrungen Ø 6 mm
im Längsholz, Tiefe 50 mm

3. Verschrauben

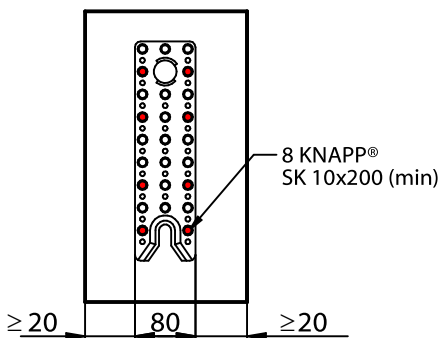
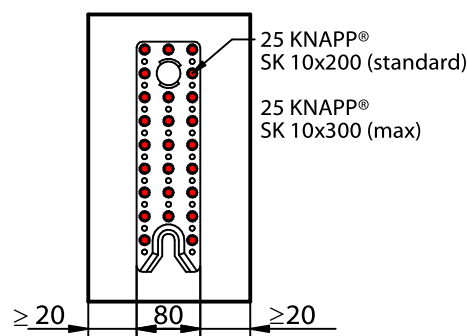
1. Verbinder mit 2 Schrauben in Positionierbohrungen befestigen
2. Alle weiteren selbstbohrende Schrauben it. Schraubenbild (siehe rechts) eindrehen



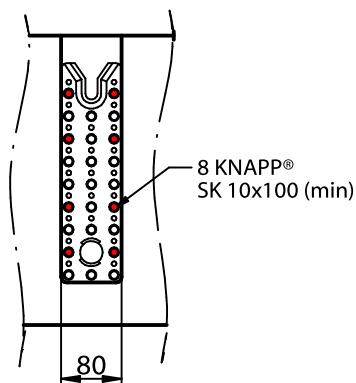
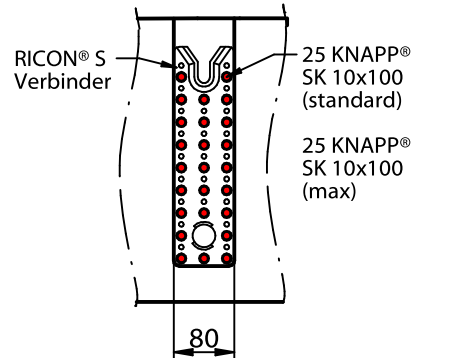
RICON S Schraube	Bruchdrehmoment Mt _{u,k} [Nm]	Anziehdrehmoment [Nm]
10x100	50	40
10x200	50	40
10x300	50	40

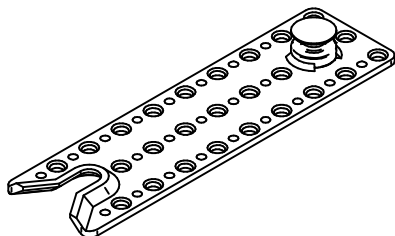
Hinweis:
Schlagbohrer und Impulsschrauber sind
nach EC5 zum Einschrauben nicht geeignet!

Befestigung im Nebenträger NT Schraubenanzahl und Positionen:



Befestigung im Hauptträger HT Schraubenanzahl und Positionen:





Art.-Nr. K129

Montageanleitung

RICON® S 290/80 VS

Verschweißter Kragenbolzen

Ausfräsung im Hauptträger



Einfräslängen L im Hauptträger

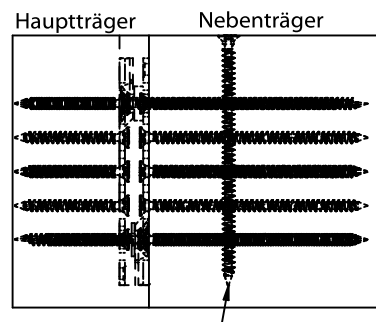
Nebenträger- höhe H_N	RICON® S 290x80
	Länge L ohne Querzugverstärkung
	[mm]
220	-
240	-
260	-
280	-
300	-
320	305
340	315
360	325
380	335
400	345

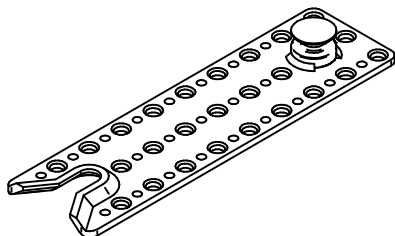
Randabstand der Positionierbohrungen t1 im Haupt- und Nebenträger in Abhängigkeit der Nebenträgerhöhe H_N	
Nebenträger- höhe H_N	RICON® S 290x80
	Randabstand t1 im Nebenträger
	Abstand t1
[mm]	[mm]
220	-
240	-
260	-
280	-
300	-
320	55
340	65
360	75
380	85
400	95

Wichtiger Hinweis:

Sollten geringere Nebenträgerhöhen verwendet werden, muss vom Statiker ein Querzugnachweis durchgeführt werden. Der Querschnitt kann mit Vollgewindeschrauben querzugverstärkt werden, die vom Statiker zu bemessen sind (EN 1995-1-1, NAD) !

Vollgewindeschrauben mit Bohrspitze zur Querzugverstärkung des Nebenträgers





Montageanleitung

RICON® S 290/80 VS

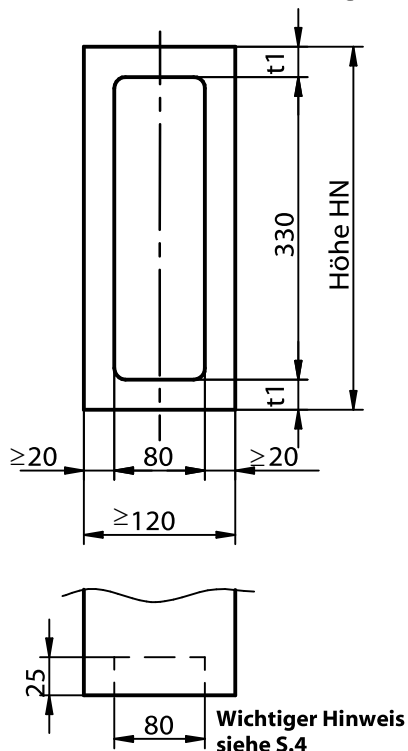
Verschweißter Kragenbolzen



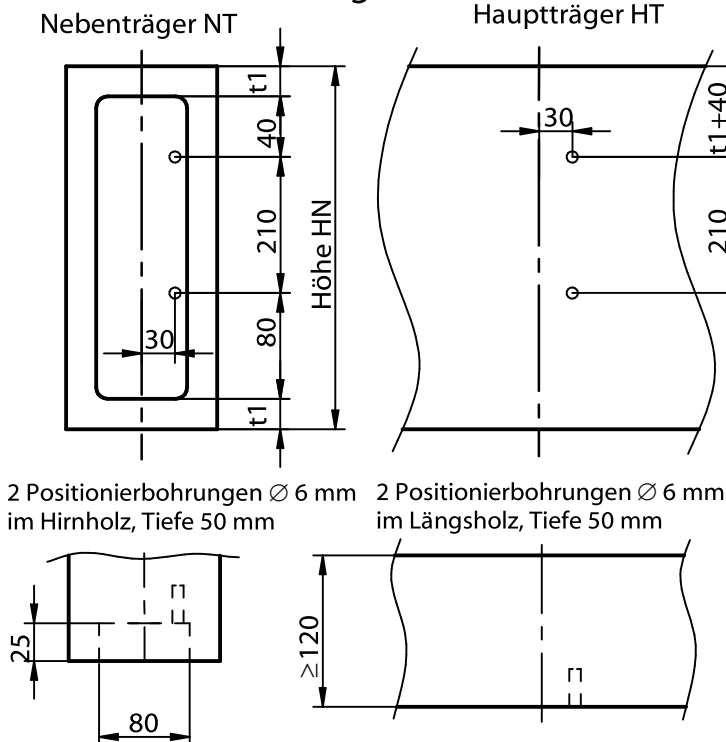
Art.-Nr. K129

Alternativ: Ausfräsung im Nebenträger

1. Fräsen im Nebenträger

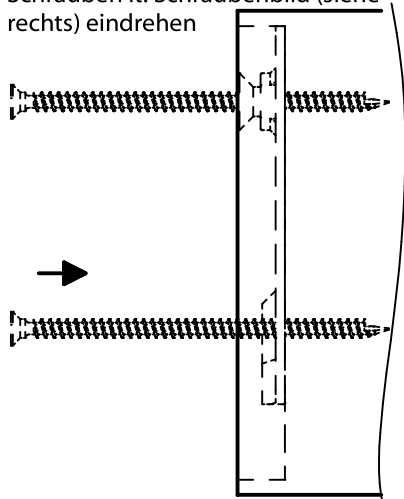


2. Positionierbohrungen



3. Verschrauben

1. Verbinder mit 2 Schrauben in Positionierbohrungen befestigen
2. Alle weiteren selbstbohrende Schrauben in. Schraubenbild (siehe rechts) eindrehen



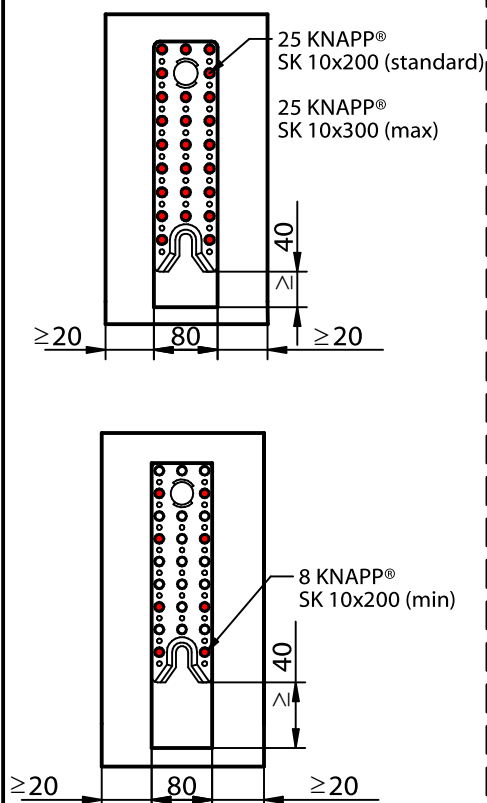
RICON S Schraube	Bruchdrehmoment M _{t,k} [Nm]	Anziehdrehmoment [Nm]
10x100	50	40
10x200	50	40
10x300	50	40

Hinweis:

Schlagbohrer und Impulsschrauber sind nach EC5 zum Einschrauben nicht geeignet!

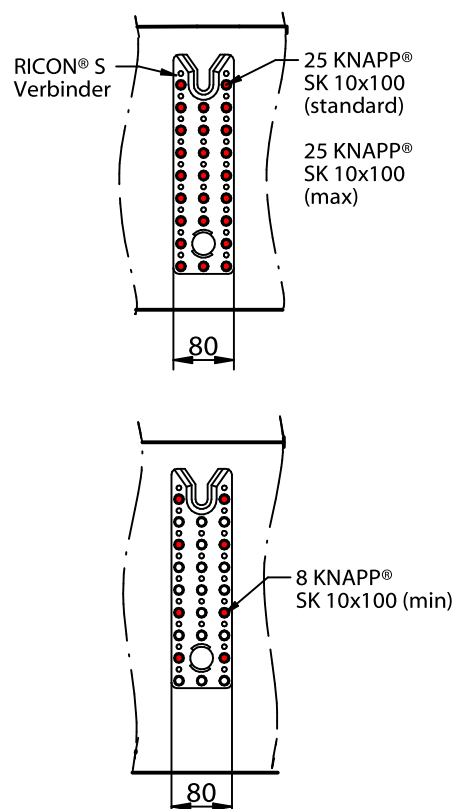
Befestigung im Nebenträger NT

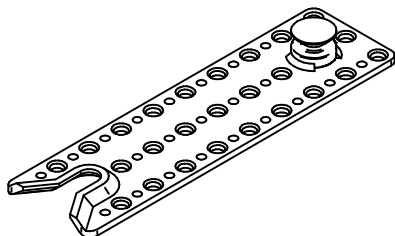
Schraubenanzahl und Positionen:



Befestigung im Hauptträger HT

Schraubenanzahl und Positionen:





Montageanleitung

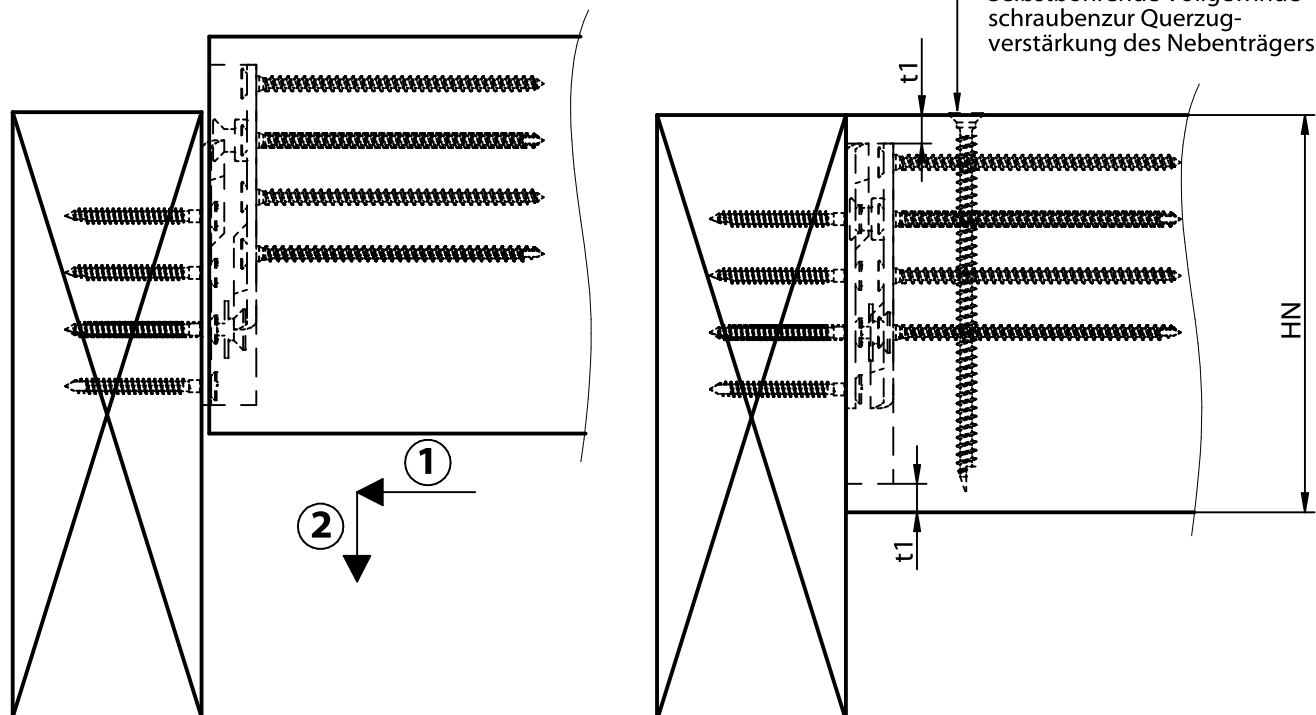
RICON® S 290/80 VS

Verschweißter Kragenbolzen



Art.-Nr. K129

Alternativ: Ausfräsung im Nebenträger



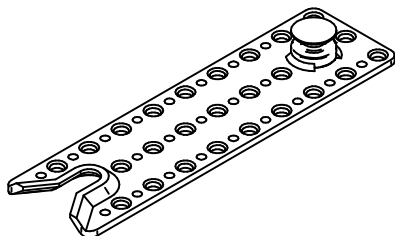
Wichtiger Hinweise:

Bei der Montage des Nebenträgers zwischen zwei fixierten Hauptträgern oder Stützen muss die Ausfräsung nach unten durchgefräst werden um den Träger einhängen zu können.

Nebenträger- höhe	Randabstand t1 in Abhängigkeit der Nebenträgerhöhe H_N
H_N	Abstand t1
[mm]	[mm]
260	-
280	-
320	-
360	15
400	35
440	55
480	75
520	95

Wichtiger Hinweis:

Sollten geringere Nebenträgerhöhen verwendet werden, muss vom Statiker ein Querkug-nachweis durchgeführt werden. Der Querschnitt kann mit Vollgewindeschrauben querkug-verstärkt werden, die vom Statiker zu bemessen sind (EN 1995-1-1, NAD) !



Art.-No. K129

Assembly instructions

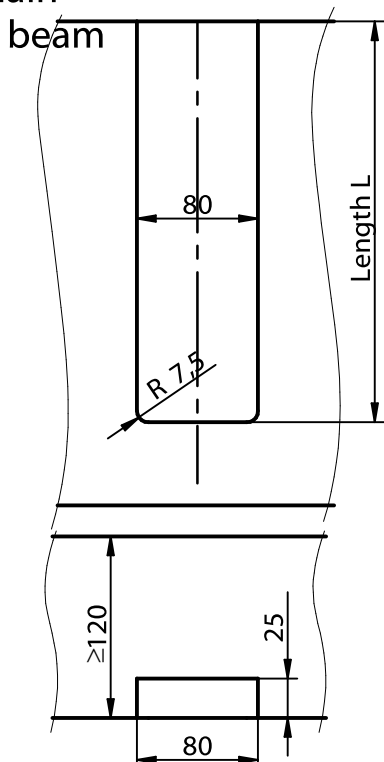
RICON® S 290/80 VS

Welded collar bolt

Milling the main beam

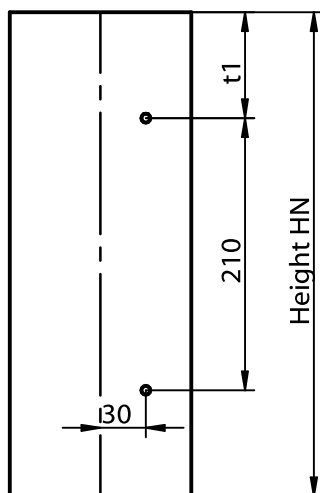


1. Milling pattern main beam



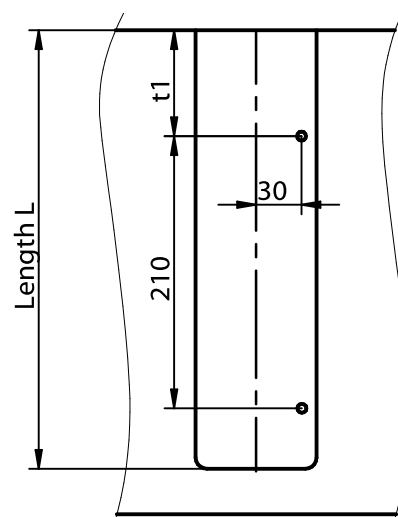
2. Pre drilling centered installation of connector

Secondary beam



2 x holes $\varnothing$ 6,
depth 50 mm

Main beam

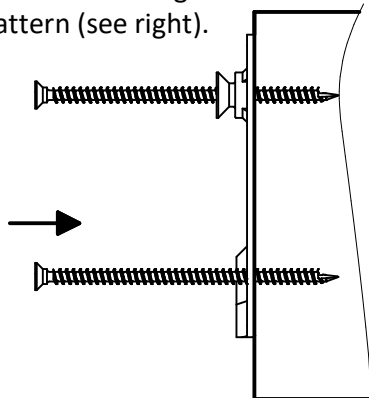


2 x holes $\varnothing$ 6,
depth 50 mm

3. Screw connection:

1. Fasten the connector using pre drilled positioning holes for 2 screws.

2. Screw in all other self-taping screws according to the screw pattern (see right).



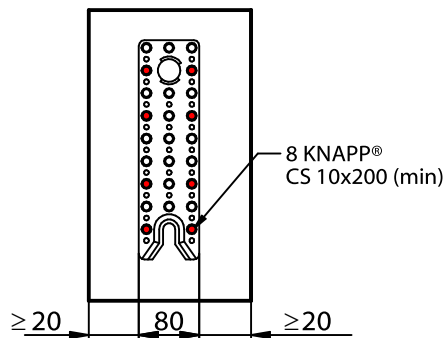
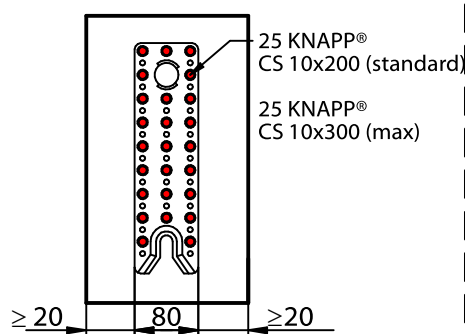
RICON S Screw	Breaking Torque M _{t.u.k} [Nm]	tightening torque [Nm]
10x100	50	40
10x200	50	40
10x300	50	40

Note:

Impact drills and impulse screwdrivers are not suitable for fastening screws according to EC5!

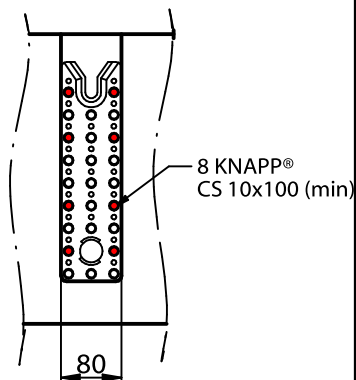
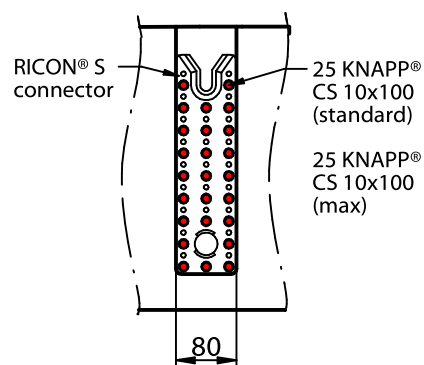
Screw pattern secondary beam

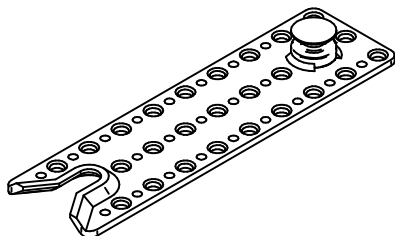
Number and position of screws:



Screw pattern main beam

Number and position of screws:





Art.-No. K129

Assembly instructions

RICON® S 290/80 VS

Welded collar bolt

Milling the main beam



Milling length L in the main beam depending on the secondary beam height H_N

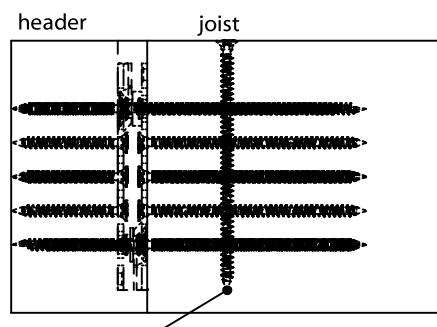
Secondary beam height H_N	RICON® S 290x80	
	Length L without shear reinforcement	
[mm]	[mm]	
220	-	
240	-	
260	-	
280	-	
300	-	
320	305	
340	315	
360	325	
380	335	
400	345	

Edge distance of the positioning holes t_1 in the main and secondary beam depending on the secondary beam height H_N

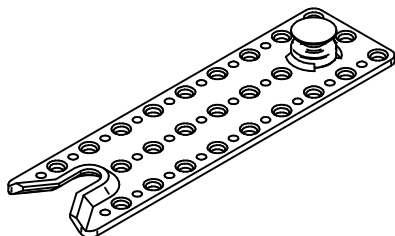
Secondary beam height H_N	RICON® S 290x80	
	Distance t_1 for secondary beam	
	Distance t_1	
[mm]	[mm]	
220	-	
240	-	
260	-	
280	-	
300	-	
320	55	
340	65	
360	75	
380	85	
400	95	

Important Note:

If lower secondary beam heights are used, a shear force verification must be carried out. The cross-section can be reinforced for shear force with fully-threaded screws. The shear force reinforcement has to be verified by a structural engineer (EN 1995-1-1, NAD)!



full thread screw with self tapping tip



Assembly instructions

RICON® S 290/80 VS

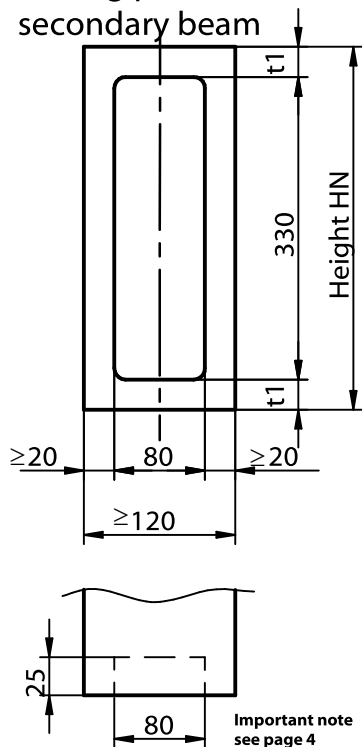
Welded collar bolt



Art.-No. K129

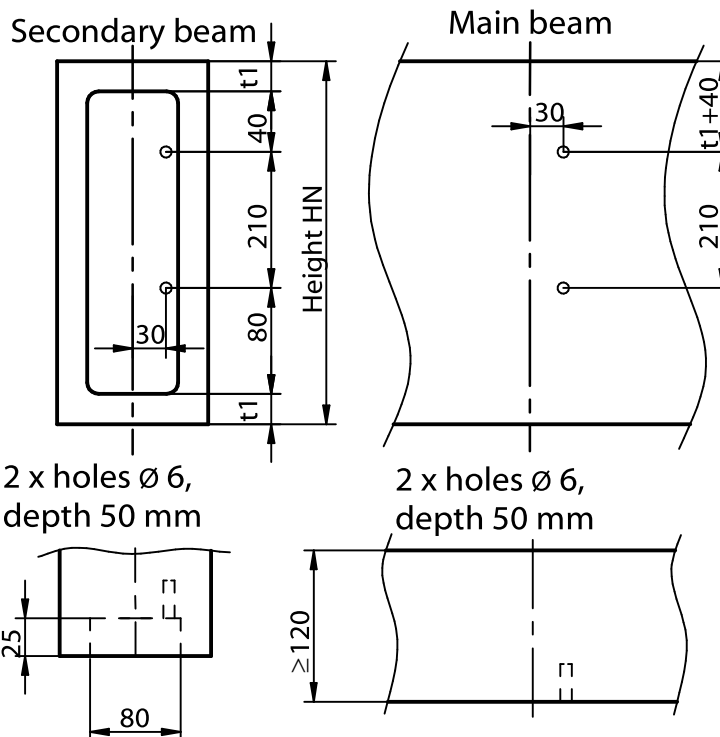
Milling the secondary beam

1. Milling pattern secondary beam



Important note
see page 4

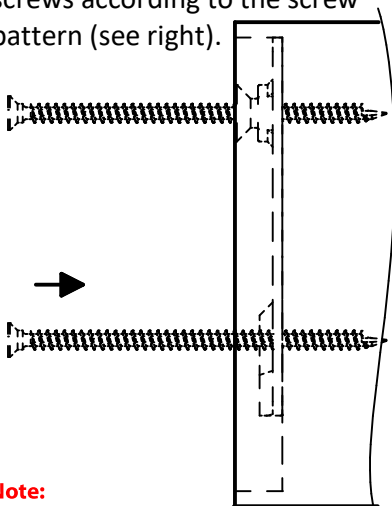
2. Pre drilling centered installation of connector



3. Screw connection:

1. Fasten the connector using pre drilled positioning holes for 2 screws.

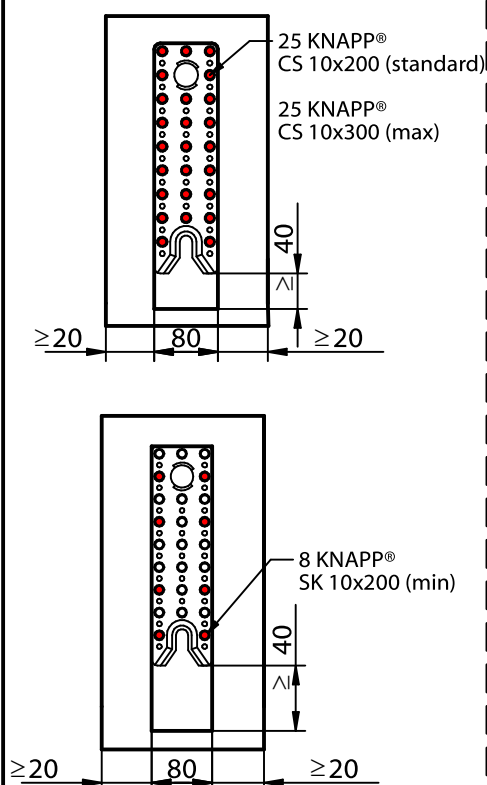
2. Screw in all other self-taping screws according to the screw pattern (see right).



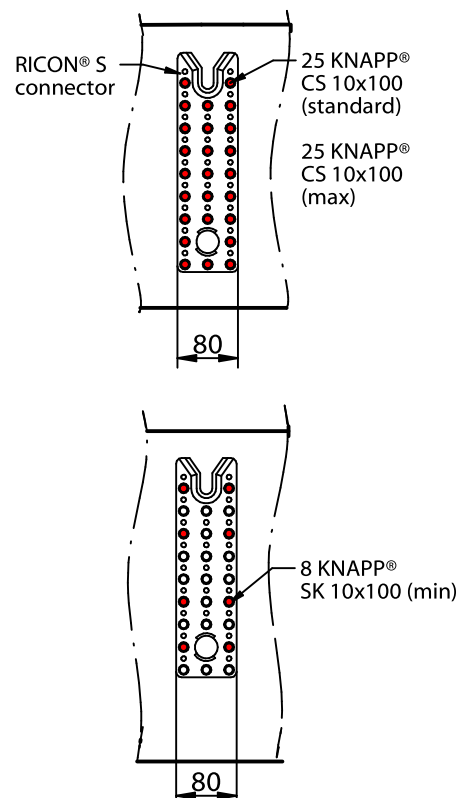
Note:
Impact drills and impulse screwdrivers are not suitable for fastening screws according to EC5!

RICON S Screw	Breaking Torque M _{t,u,k} [Nm]	tightening torque [Nm]
10x100	50	40
10x200	50	40
10x300	50	40

Screw pattern secondary beam Number and position of screws:

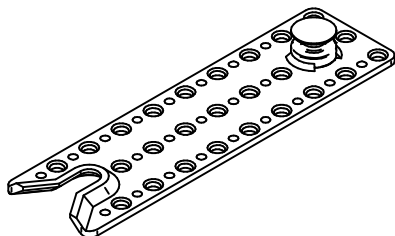


Screw pattern main beam Number and position of screws:



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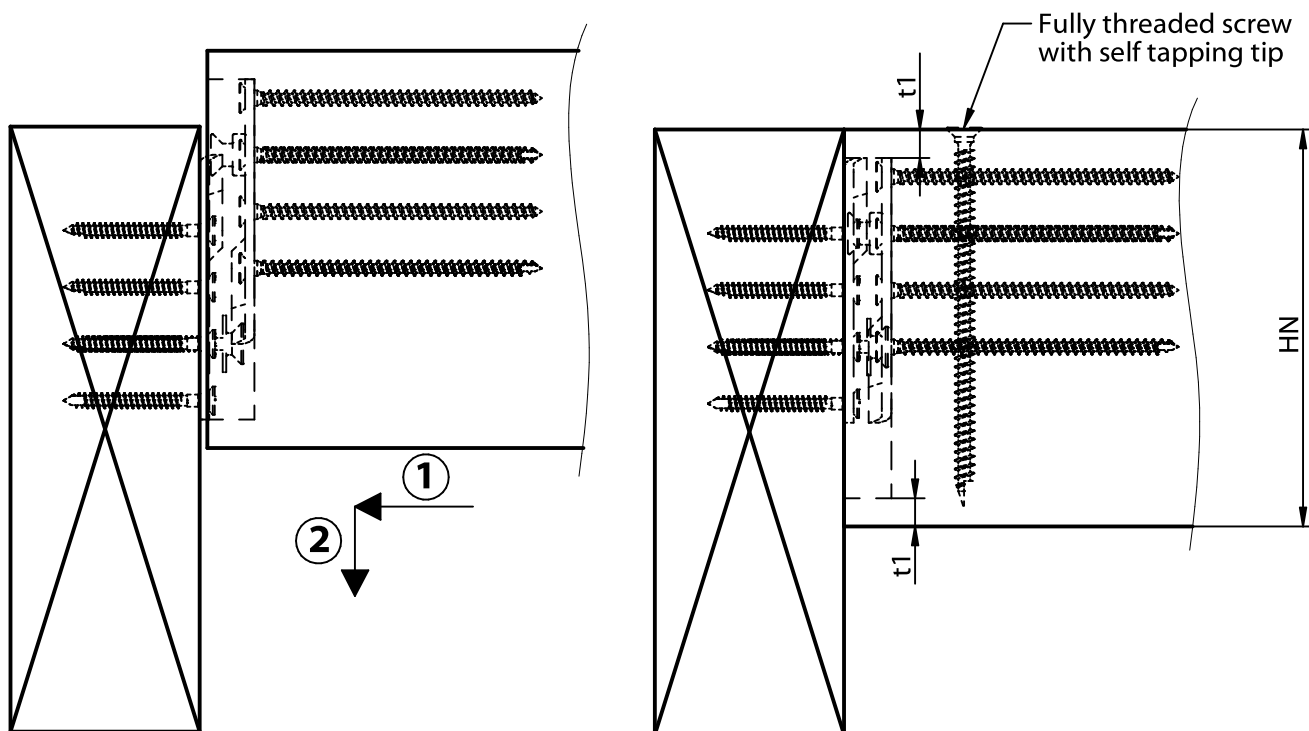
Art.-No. K129

Assembly instructions

RICON® S 290/80 VS

Welded collar bolt

Milling the secondary beam



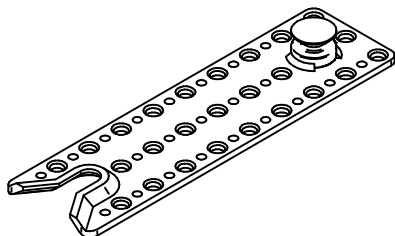
Important NOTE:

When assembling the secondary beam between two main beams or posts, the recess must be milled through on the lower side of the beam in order to be able to hang the beam.

Secondary beam height H_N [mm]	Distance t_1 with respect to secondary beam height H_N
	RICON® S 290x80
	Distance t_1 [mm]
260	-
280	-
320	-
360	15
400	35
440	55
480	75
520	95

Important NOTE:

If lower secondary beam heights are used, a shear force verification must be carried out. The cross-section can be reinforced for shear force with fully- threaded screws. The shear force reinforcement has to be verified by a structural engineer (EN 1995-1-1, NAD)!



Assembly instructions

RICON® S 290/80 VS

Welded collar bolt

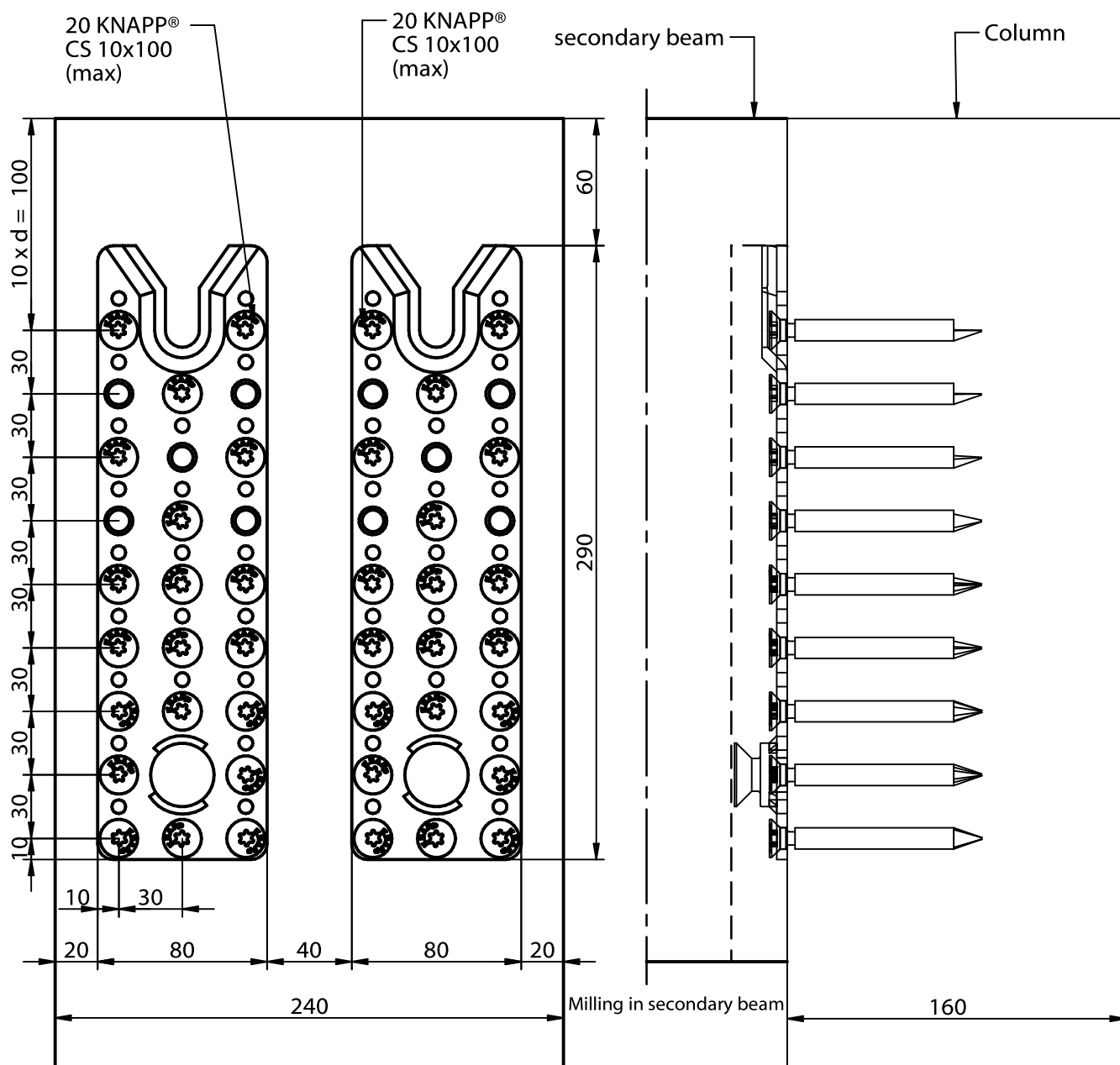
CE

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Art.-No. K129

Column connection

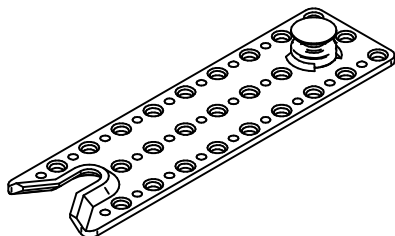
Number of screws and position (max . screw connection)



Minimum cross section for column connection 2 RICON S 290x80 VS side by side

Minimum cross-sections apply to glulam.

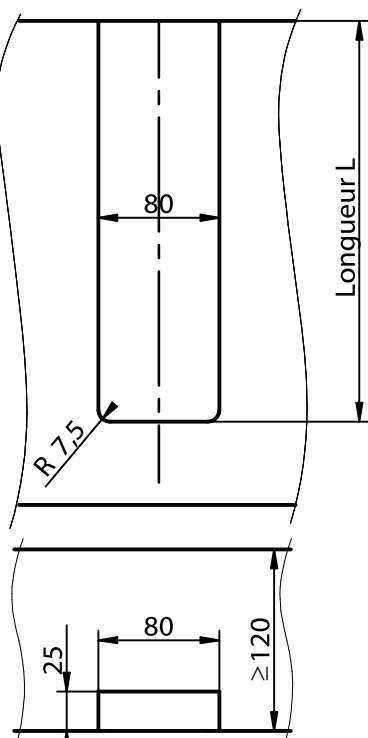
In solid softwood, the 10x100 mm screws with diameter 6 mm must be pre-drilled over their full length!



Réf. K129

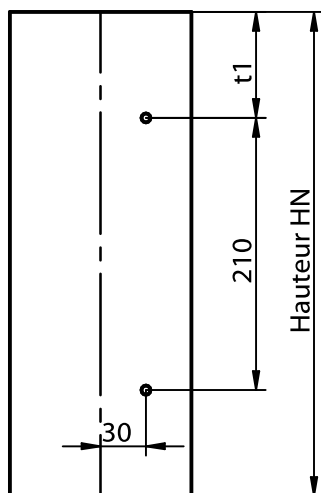
Encastrement sur la poutre principale

1. Fraiser la poutre principale



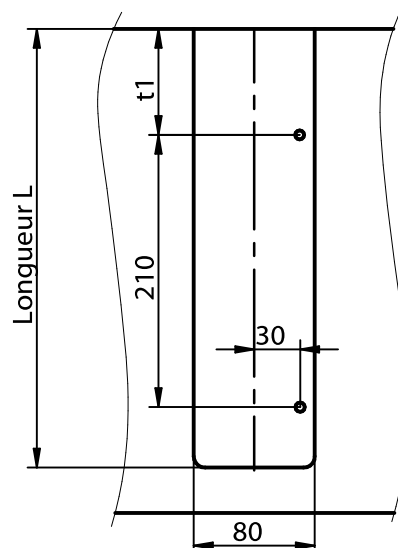
2. Percer

Poutre secondaire



2 perçages de position Ø 6 mm en bout de poutre, profondeur 50 mm

Poutre principale

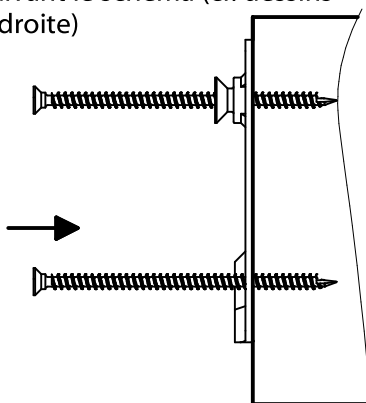


2 perçages de position Ø 6 mm sur la face de la poutre, profondeur 50 mm

3. Visser

1. Visser la ferrure sur les perçages de position

2. Visser le reste des vis suivant le schéma (cf. dessins à droite)



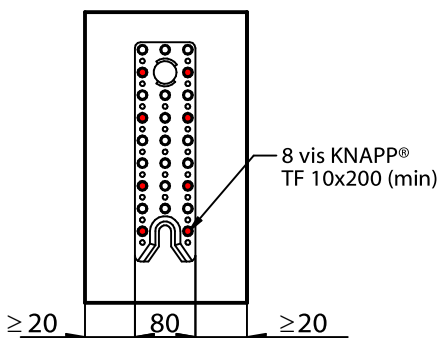
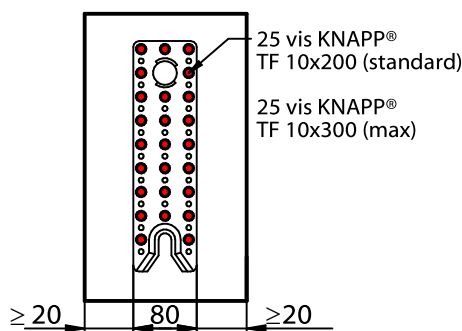
Vis RICON S	Couple de rupture M _{t,w,k} [Nm]	Couple de serrage [Nm]
10x100	50	40
10x200	50	40
10x300	50	40

Remarque :

D'après l'EC5, les visseuses à chocs ou à impulsions ne sont pas appropriées pour le vissage !

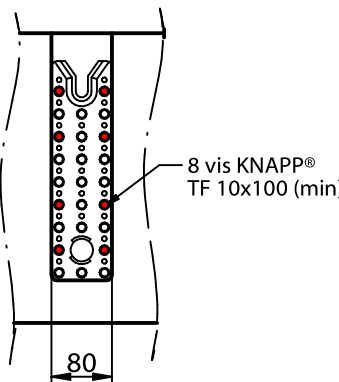
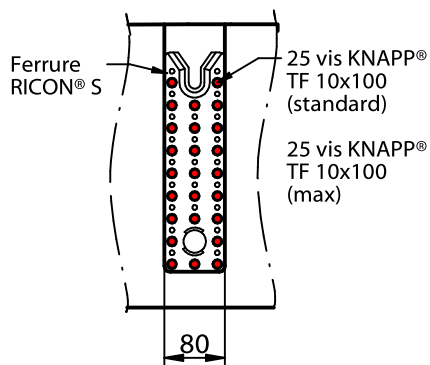
Fixation sur la poutre secondaire (PS)

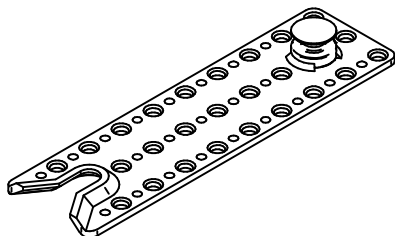
Nombre et position de vis :



Fixation sur la poutre principale (PP)

Nombre et position de vis :





Longueur de fraisage L sur la poutre principale

Longueur de fraisage L dans la poutre principale sans vissage de renfort traversant, en relation avec la hauteur de poutre secondaire H_N

Hauteur de poutre secondaire H_N	RICON® S 290x80	
	Longueur L sans renfort de traction transversale	
[mm]	[mm]	
220	-	
240	-	
260	-	
280	-	
300	-	
320	305	
340	315	
360	325	
380	335	

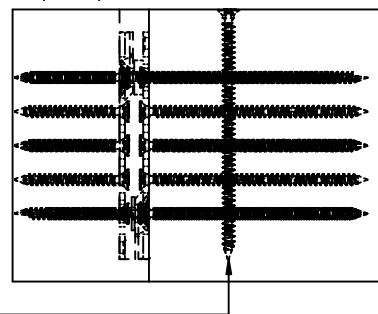
Position de perçage t_1 sur la poutre principale et secondaire en relation avec la hauteur de poutre secondaire H_N

Hauteur de poutre secondaire H_N	RICON® S 290x80	
	Position de perçage t_1 sur la poutre secondaire	
	Distance t_1	
[mm]	[mm]	
220	-	
240	-	
260	-	
280	-	
300	-	
320	55	
340	65	
360	75	
380	85	
400	95	

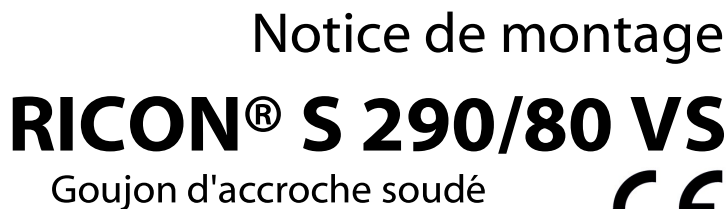
Remarque importante :

Faire contrôler par un B.E. compétant dans le cas où la hauteur de la poutre secondaire et plus faible qu'indiquée ci-dessus. Une section plus faible peut être renforcée par des vis de renfort transversales. (EN 1995-1-1, NAD)

Poutre principale Poutre secondaire



Vis à filetage total avec pointe auto-foreuse
Pour le renfort tranchant des poutres secondaires



Goujon d'accroche soudé



ETA-10/0189

Réf. K129

Variante : Encastrement sur la poutre secondaire

1. Fraiser la poutre secondaire



Poutre secondaire



2 perçages de position $\varnothing 6$ mm sur la face de la poutre, profondeur 50 mm

3. Visser

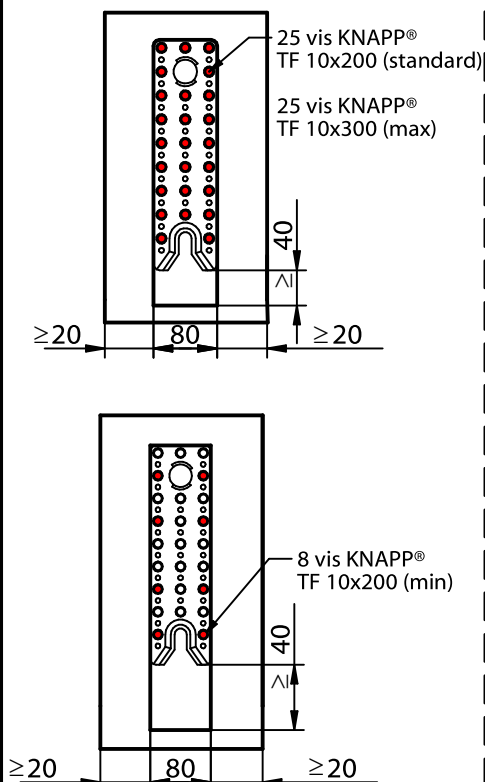
1. Visser la ferrure sur les perçages de position
2. Visser le reste des vis suivant le schéma (cf. dessins à droite)



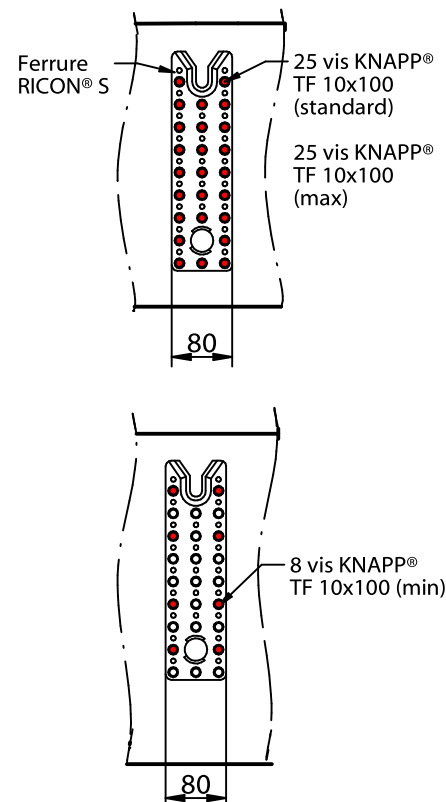
D'après l'EC5, les visseuses à chocs ou à impulsions ne sont pas appropriées pour le vissage !

Vis RICON S	Couple de rupture M _{tu,k} [Nm]	Couple de serrage [Nm]
10x100	50	40
10x200	50	40
10x300	50	40

Fixation sur la poutre secondaire (PS)
Nombre et position de vis :

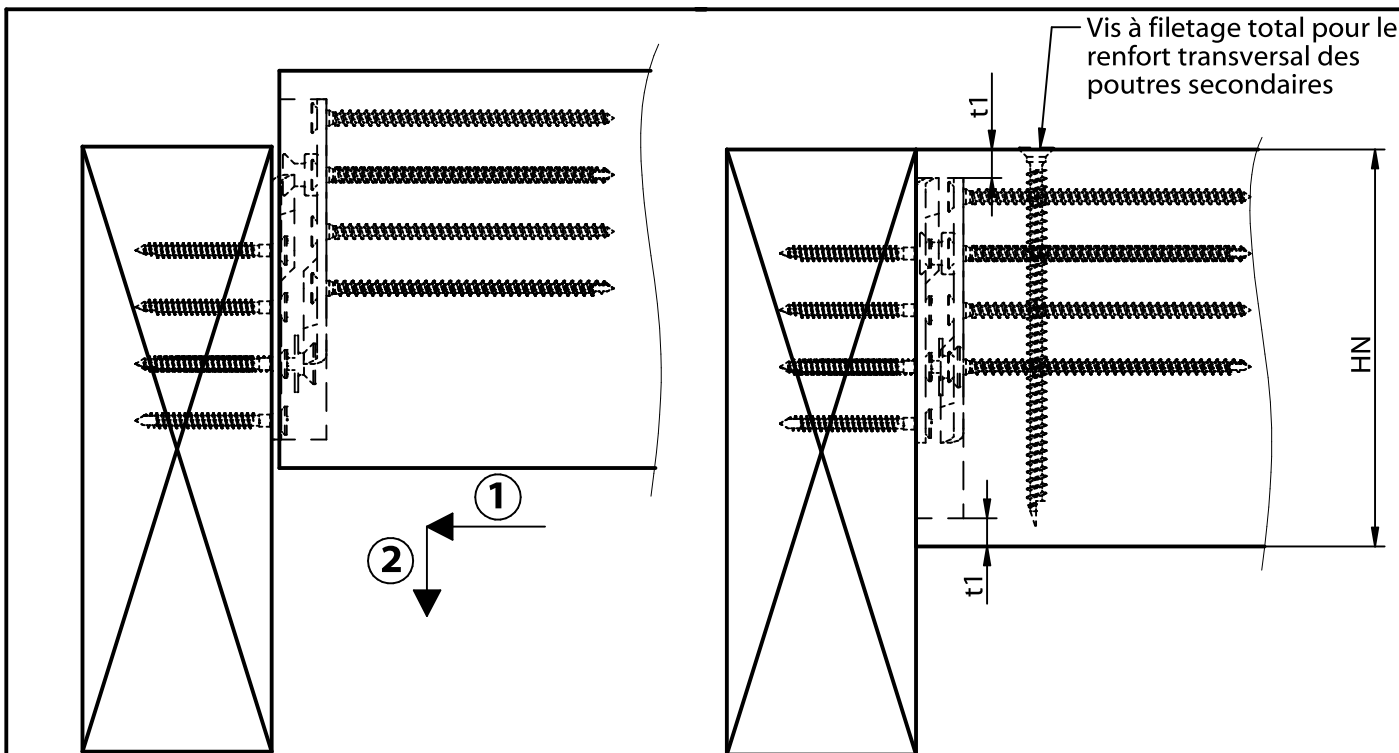
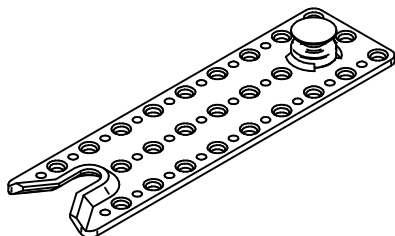


Fixation sur la poutre principale (PP)
Nombre et position de vis :



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Remarque importante :

Lors de montage de poutres secondaires entre 2 poutres principales ou 2 poteaux, il est nécessaire de réaliser les usinages débouchants par-dessous pour permettre l'emboîtement.

Hauteur de poutre secondaire H_N	Distance du bord t_1 en relation avec la hauteur de la poutre secondaire H_N RICON® S 290x80	
	Distance t_1	
[mm]	[mm]	
260	-	
280	-	
320	-	
360	15	
400	35	
440	55	
480	75	
520	95	

Remarque importante :

Faire contrôler par un B.E. compétant dans le cas où la hauteur de la poutre secondaire et plus faible qu'indiquée ci-dessus. Une section plus faible peut être renforcée par des vis de renfort transversales. (EN 1995-1-1, NAD)



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