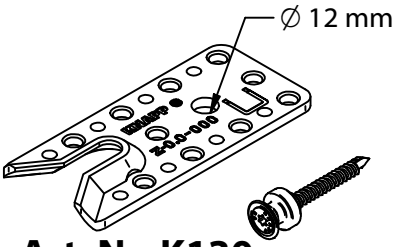


Art. Nr. K130

Montageanleitung

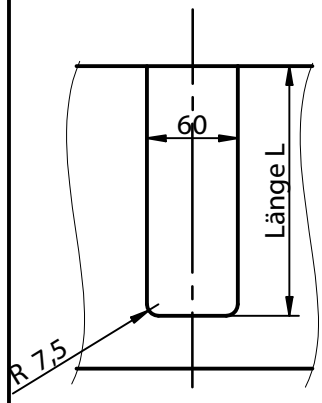
RICON® S 140/60 VK12

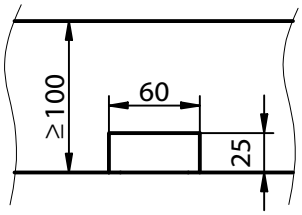
Verschraubter Kragenbolzen

CE
ETA-10/0189

Ausfräsung im Hauptträger

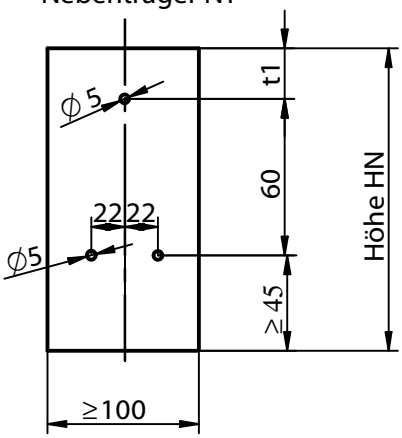
1. Fräsen





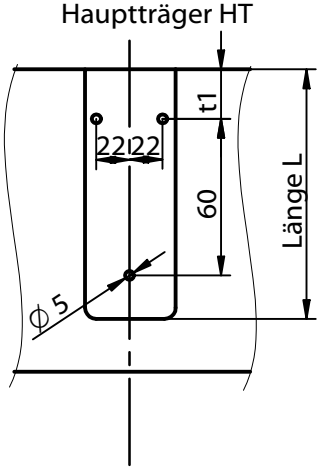
2. Bohrungen

Nebenträger NT



3 Positionierbohrungen ∅ 5 mm
im Hirnholz

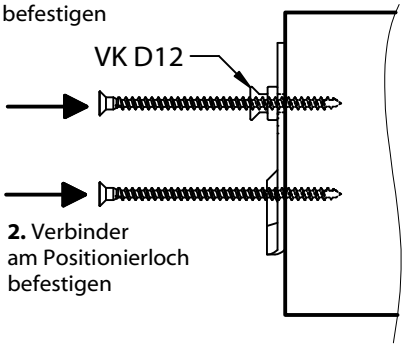
Hauptträger HT



3 Positionierbohrungen ∅ 5 mm
im Längsholz

3. Verschrauben

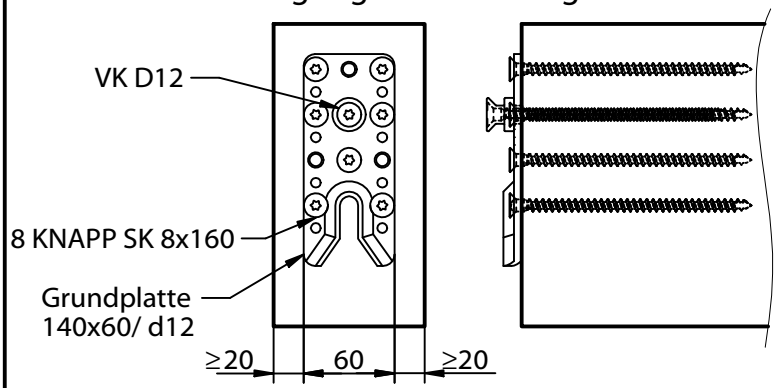
1. Kragenbolzen mit Schraube und Verbinder am Positionierloch befestigen



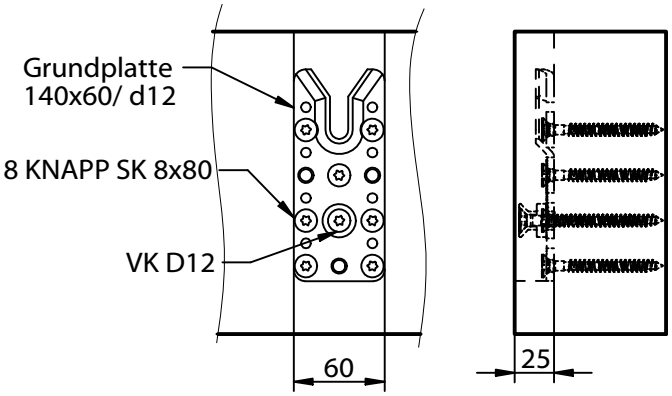
2. Verbinder am Positionierloch befestigen

3. Selbstbohrende Schrauben lt. Schraubenbild (siehe rechts) eindrehen

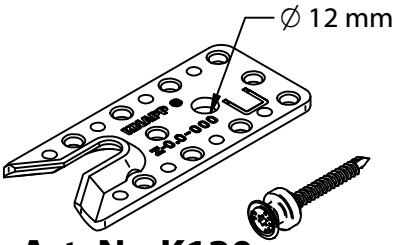
Befestigung im Nebenträger NT



Befestigung im Hauptträger HT



KNAPP®
verbinder.com



Art. Nr. K130

Montageanleitung

RICON® S 140/60 VK12

Verschraubter Kragenbolzen

CE

ETA-10/0189

Ausfräsung im Hauptträger

Einfräslängen L im Hauptträger

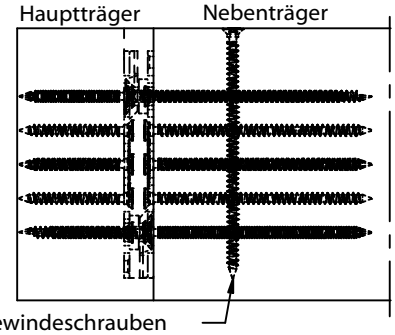
Einfräslänge L im Hauptträger ohne Querzugverstärkung in Abhängigkeit der Nebenträgerhöhe HN				
Nebenträger-höhe HN	RICON S 140x60	RICON S 170x60	RICON S 200x60	RICON S 230x60
	Länge L ohne Verstärkung	Länge L ohne Verstärkung	Länge L ohne Verstärkung	Länge L ohne Verstärkung
[mm]	[mm]	[mm]	[mm]	[mm]
160	155			
180	170	-	-	-
200	180	180	-	-
220	200	200	-	-
240	210	210	210	-
260	-	220	220	-
280	-	-	240	240
300	-	-	250	250
320	-	-	-	265
360	-	-	-	300

Einbohrmaße im Haupt- und Nebenträger

Einbohrmaße t_1 im Haupt- und Nebenträger in Abhängigkeit der Nebenträgerhöhe HN				
Nebenträger-höhe HN	RICON S 140x60	RICON S 170x60	RICON S 200x60	RICON S 230x60
	Einbohrmaße t1 im Nebenträger			
	Abstand t1	Abstand t1	Abstand t1	Abstand t1
[mm]	[mm]	[mm]	[mm]	[mm]
160	55			
180	70			
200	80	50		
220	100	70		
240	110	80	50	
260		90	60	
280			80	50
300			90	60
320				75
360				110

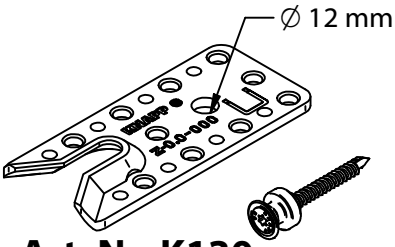
Wichtiger Hinweis:

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 (DIN 1052 , 11.4.3 / EN 1995-1-1, NAD) !



Selbstbohrende Vollgewindeschrauben zur Querzugverstärkung des Nebenträgers

KNAPP® verbinder.com



Art. Nr. K130

Montageanleitung

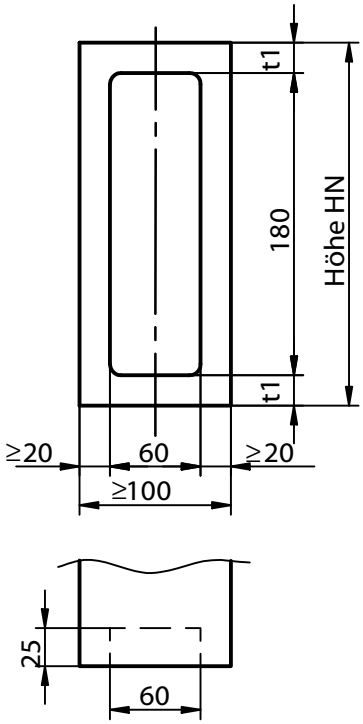
RICON® S 140/60 VK12

Verschraubter Kragenbolzen

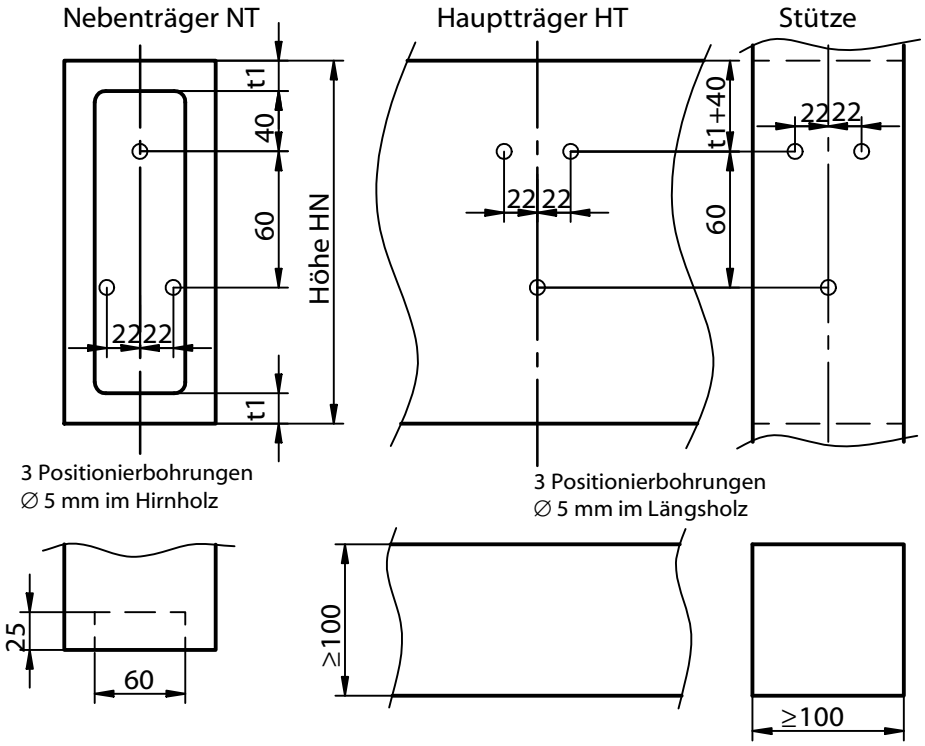
CE
ETA-10/0189

Ausfräsung im Nebenträger

1. Fräsen

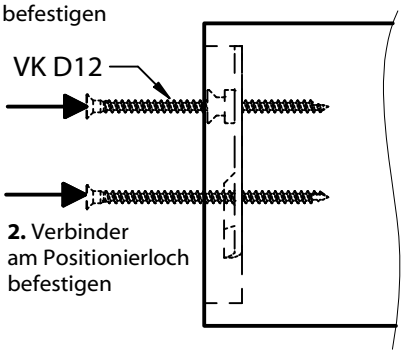


2. Bohrungen



3. Verschrauben

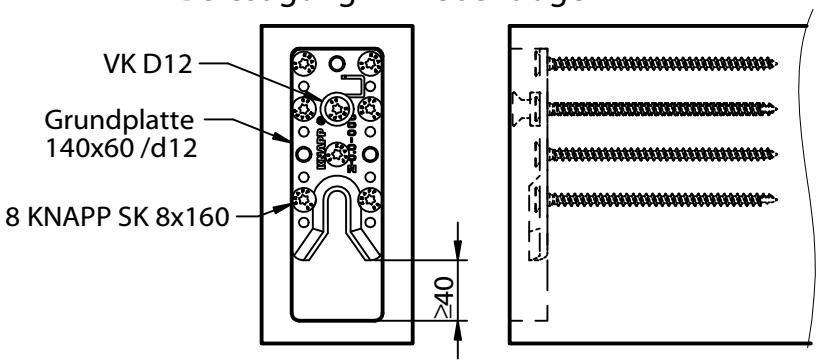
1. Kragenbolzen mit Schraube und Verbinder am Positionierloch befestigen



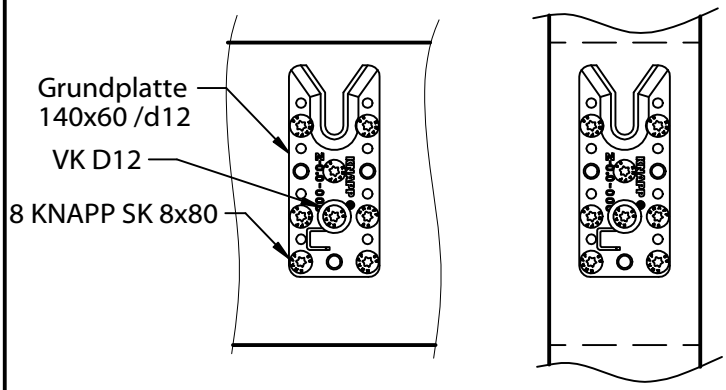
2. Verbinder am Positionierloch befestigen

3. Selbstbohrende Schrauben lt. Schraubenbild (siehe rechts) eindrehen

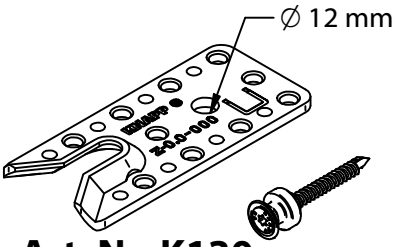
Befestigung im Nebenträger NT



Befestigung im Hauptträger HT und Stütze



KNAPP®
verbinder.com



Art. Nr. K130

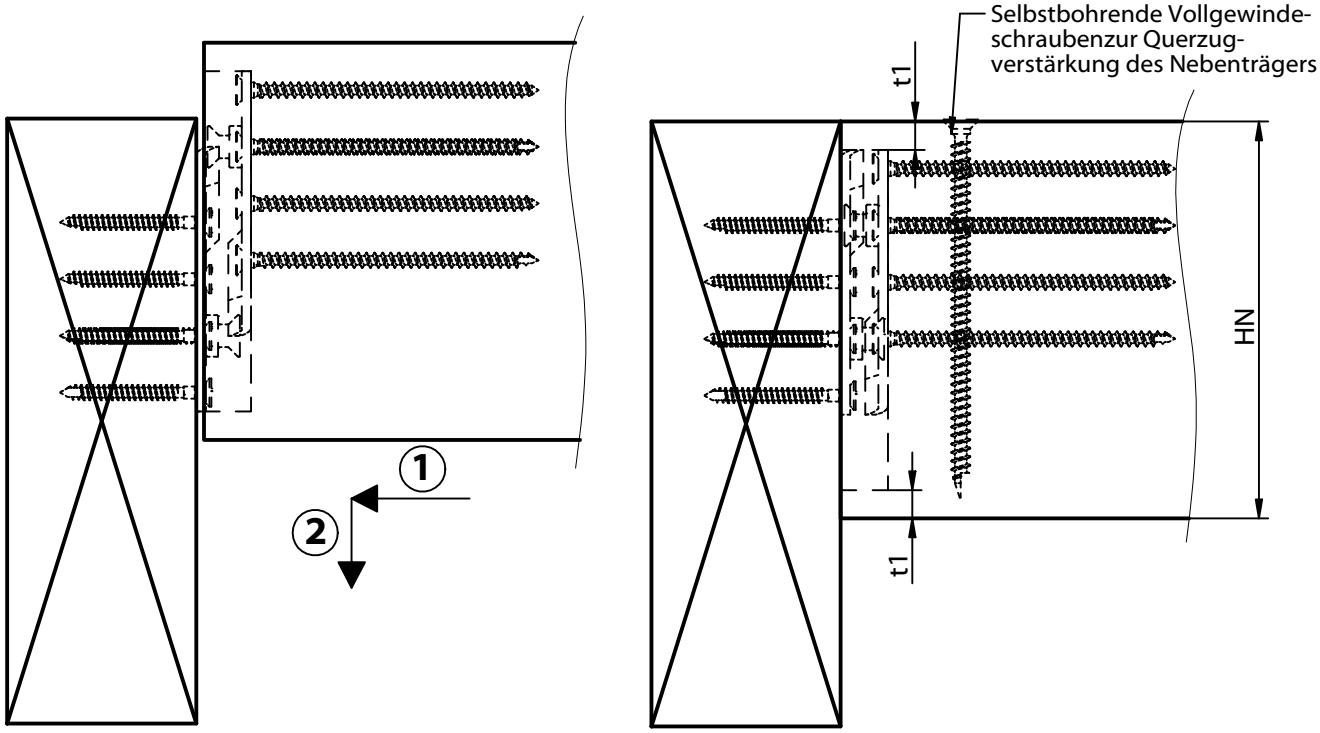
Montageanleitung

RICON® S 140/60 VK12

Verschraubter Kragenbolzen

CE
ETA-10/0189

Ausfräsung im Nebenträger

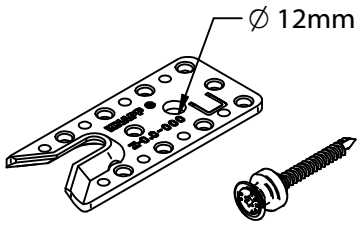


Randabstände t1 in Abhängigkeit der Nebenträger-höhe HN und der RICON® S Größe

Nebenträger-	Randabstand t1 in Abhängigkeit der Nebenträgerhöhe HN			
höhe	RICON S 140x60	RICON S 170x60	RICON S 200x60	RICON S 230x60
HN	Abstand t1	Abstand t1	Abstand t1	Abstand t1
[mm]	[mm]	[mm]	[mm]	[mm]
200	10	-	-	-
220	20	-	-	-
240	30	15	-	-
260	-	25	10	-
280	-	35	20	-
300	-	-	30	15
320	-	-	40	25
340	-	-	-	35
360	-	-	-	45

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 (DIN 1052 , 11.4.3 / EN 1995-1-1, NAD) !

KNAPP® verbinder.com



Construction Manual

RICON® S 140/60 VK12

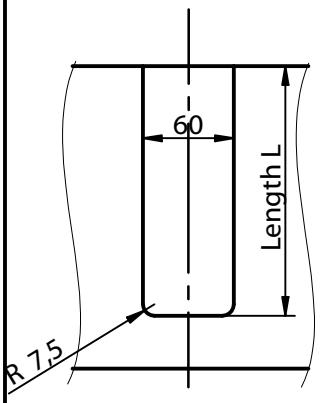
Screwed collar bolt

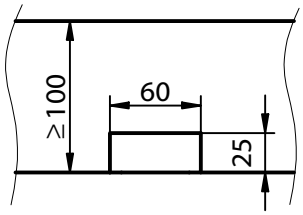
CE
ETA-10/0189

Art. No. K130

Machined edge of the header

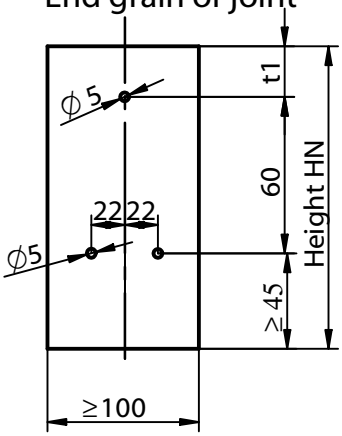
1. Machined edge



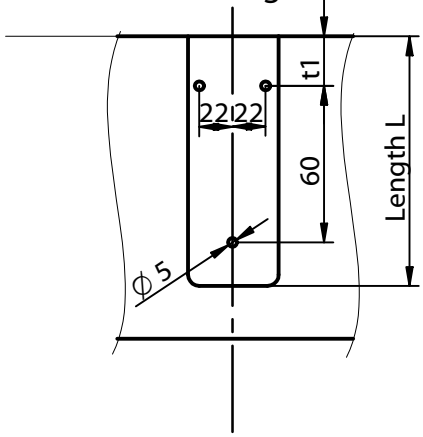


2. Drilling template

End grain of joint



Header side grain

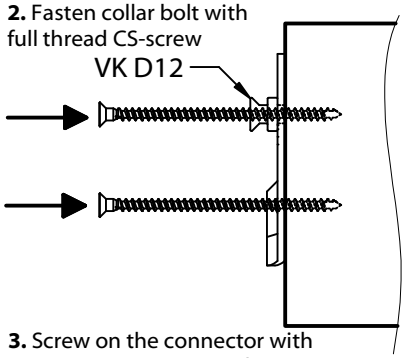


Version VK:
Bore 3 holes:
Diameter: 5 mm
Depth: 50 mm

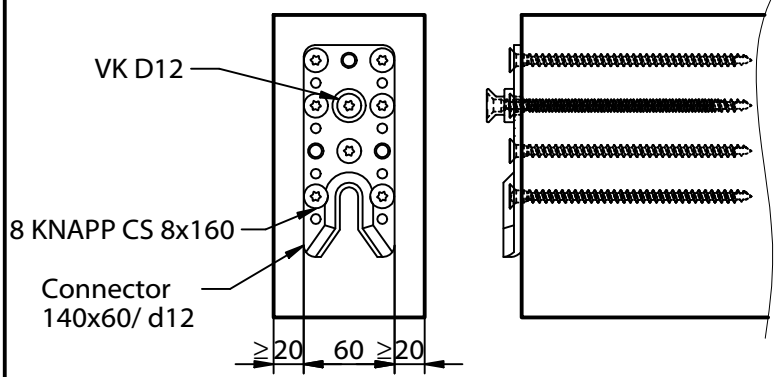
3. Screwing:

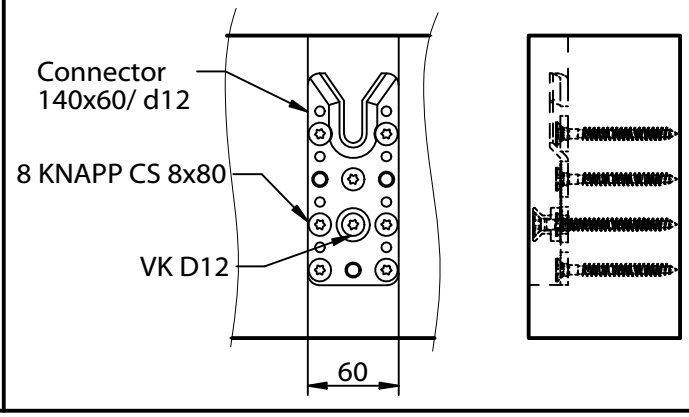
1. Position collar bolt into the hole provided

2. Fasten collar bolt with full thread CS-screw

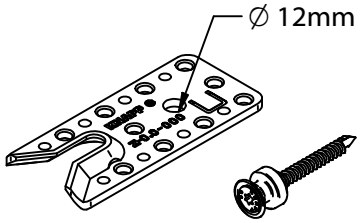


3. Screw on the connector with KNAPP CS-screws according to the screw picture





KNAPP®
connectors.com



Construction Manual

RICON® S 140/60 VK12

Screwed collar bolt

CE
ETA-10/0189

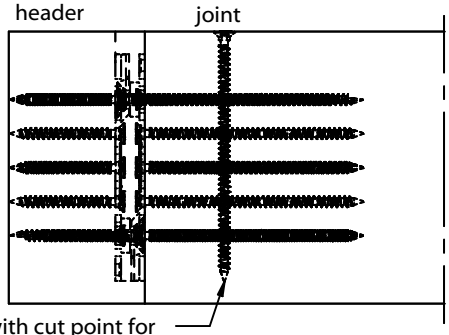
Art. No. K130

Machined edge of the header

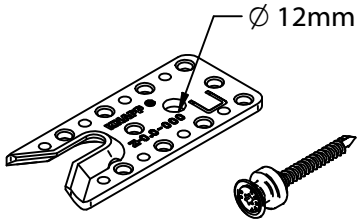
Rabbet length L for header without lateral tension reinforcement in reference of the height HN of the joint				
Joint height HN	RICON S 140x60	RICON S 170x60	RICON S 200x60	RICON S 230x60
	Length L without lateral tension reinforcement	Length L without lateral tension reinforcement	Length L without lateral tension reinforcement	Length L without lateral tension reinforcement
[mm]	[mm]	[mm]	[mm]	[mm]
160	155			
180	170	-	-	-
200	180	180	-	-
220	200	200	-	-
240	210	210	210	-
260	-	220	220	-
280	-	-	240	240
300	-	-	250	250
320	-	-	-	265
360	-	-	-	300

Bore measure t_1 for header and joint in reference to the height HN of the joint				
Joint height HN	RICON S 140x60	RICON S 170x60	RICON S 200x60	RICON S 230x60
	Bore measure t_1 for joint			
	Distance t_1	Distance t_1	Distance t_1	Distance t_1
[mm]	[mm]	[mm]	[mm]	[mm]
160	55			
180	70			
200	80	50		
220	100	70		
240	110	80	50	
260		90	60	
280			80	50
300			90	60
320				75
360				110

Important Information:
If you use smaller joint dimensions, please contact a structural engineer, who has to proof the tensile strength perpendicular to the grain (EN1995-1-1 and NA). Full thread screws with cut point can be used for lateral tension reinforcement of the joint.



KNAPP®
connectors.com



Construction Manual

RICON® S 140/60 VK12

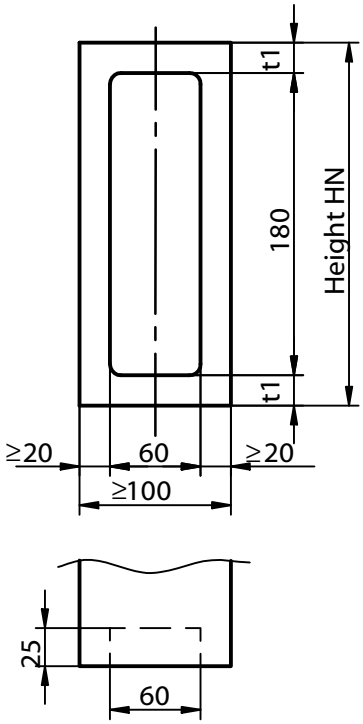
Screwed collar bolt

CE
ETA-10/0189

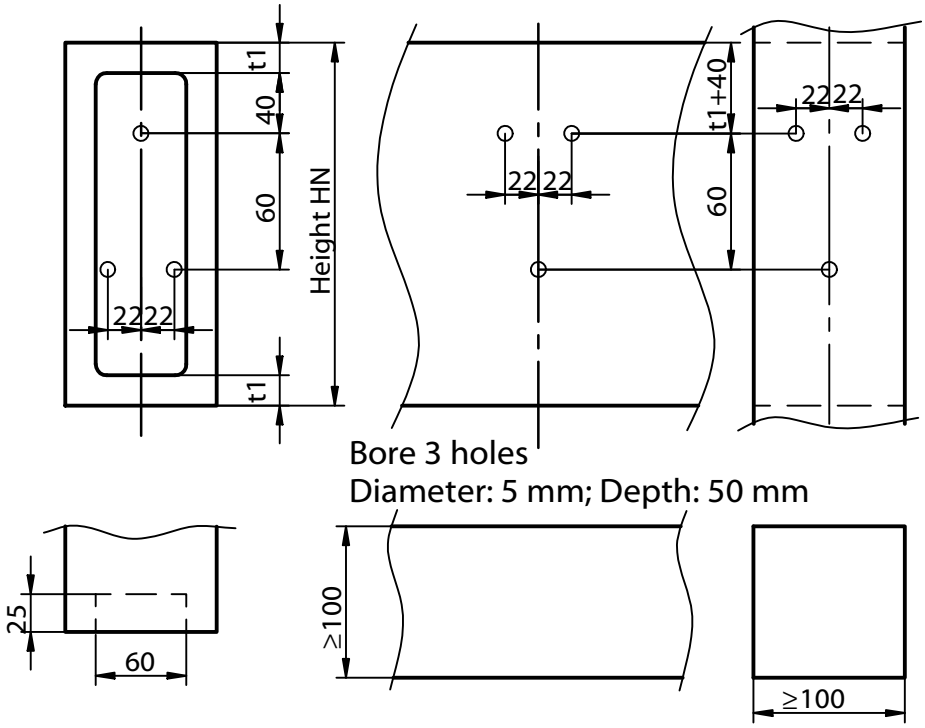
Art. No. K130

Machined edge of the joint

1. Machined edge

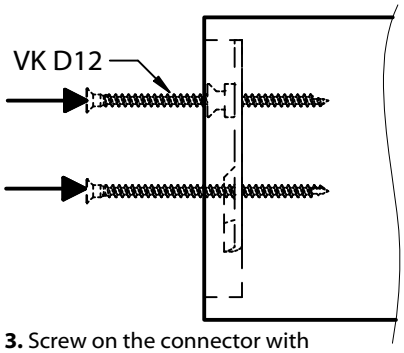


2. Drilling template

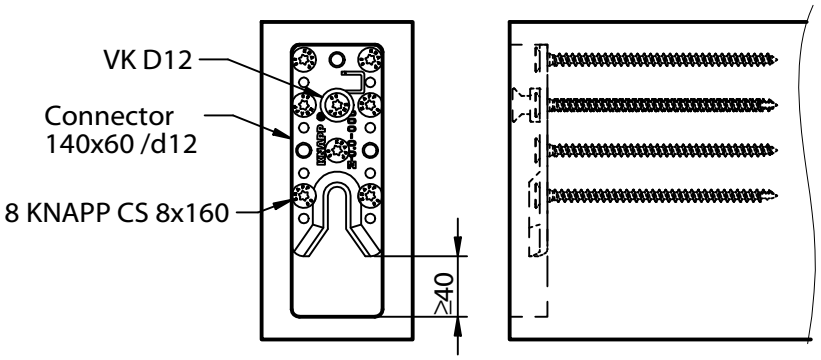


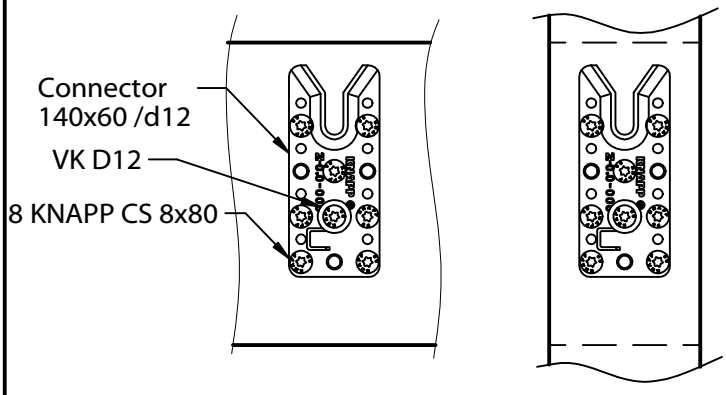
3. Screwing:

1. Position collar bolt into the hole provided
2. Fasten collar bolt with full thread CS-screw

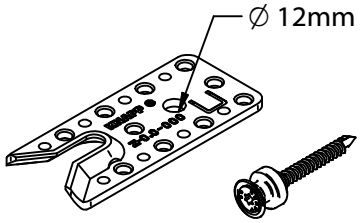


3. Screw on the connector with KNAPP CS-screws according to the screw picture





KNAPP®
connectors.com



Construction Manual

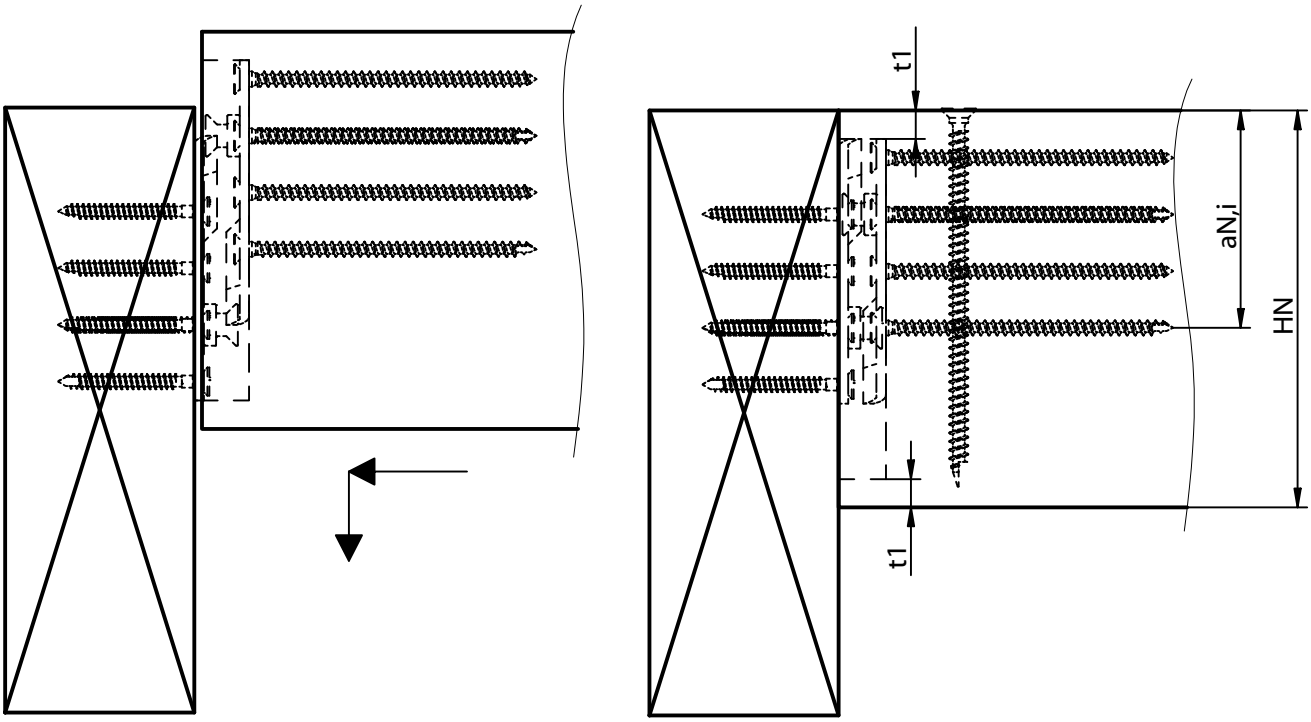
RICON® S 140/60 VK12

Screwed collar bolt

CE
ETA-10/0189

Art. No. K130

Machined edge of the joint

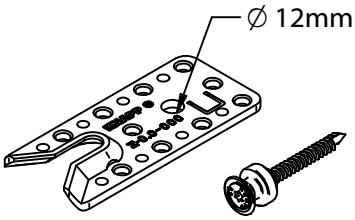


Secondary beam height HN	Edge distance t_1 in reference of the height H_N of the secondary beam			
	RICON S 140x60	RICON S 170x60	RICON S 200x60	RICON S 230x60
	Distance t_1	Distance t_1	Distance t_1	Distance t_1
[mm]	[mm]	[mm]	[mm]	[mm]
200	10	-	-	-
220	20	-	-	-
240	30	15	-	-
260	-	25	10	-
280	-	35	20	-
300	-	-	30	15
320	-	-	40	25
340	-	-	-	35
360	-	-	-	45

Important Information:

Provided that aN,i > 0,7 HN or the splitting of the ancillary load bearing element is prevented by a transverse tension reinforcement element with self-sinking full-thread screws in accordance with general construction supervisory approval, the proof of transverse tension on ancillary load-bearing members may be waived. Please contact a structural engineer, who has to proof the tensile strength perpendicular to the grain (see ConstructionSupervisory Approval Z-9.1-698).

KNAPP®
connectors.com



Notice de montage

RICON® S 140/60 VK12

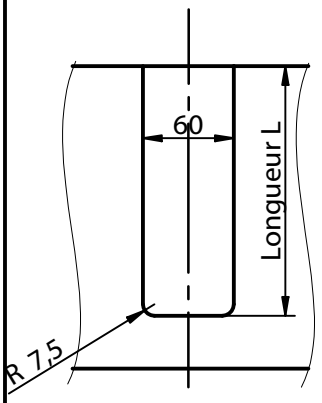
Pièce d'accroche vissée

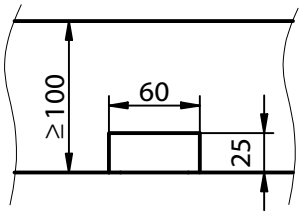
Réf. K130

Encastrement sur la poutre principale

CE
ETA-10/0189

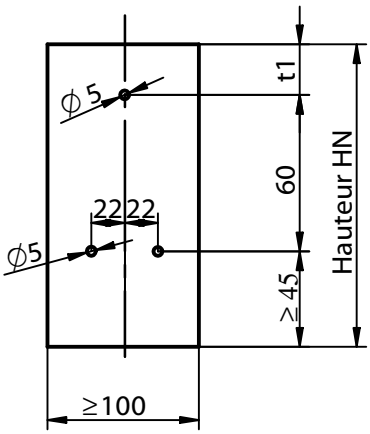
1. Fraiser





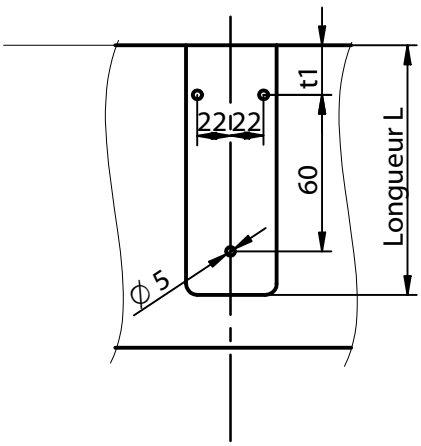
2. Percer

Poutre secondaire



3 perçages de position ∅ 5 mm sur bois de bout

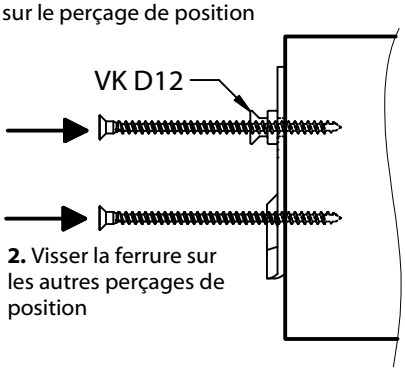
Poutre principale



3 perçage de position ∅ 5 mm sur bois de fil

3. Visser

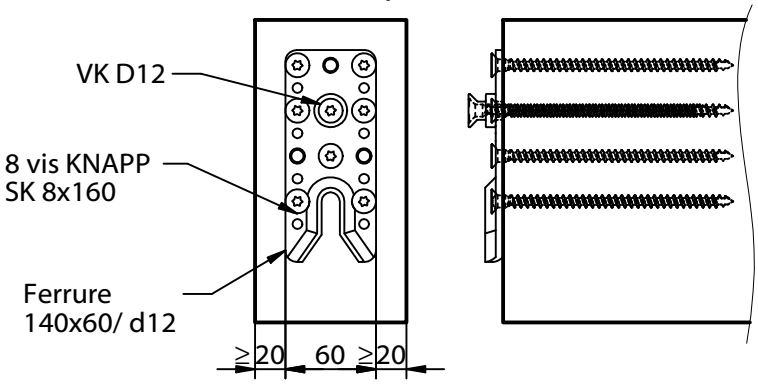
1. Fixer la ferrure avec la pièce d'accroche et sa vis sur le perçage de position



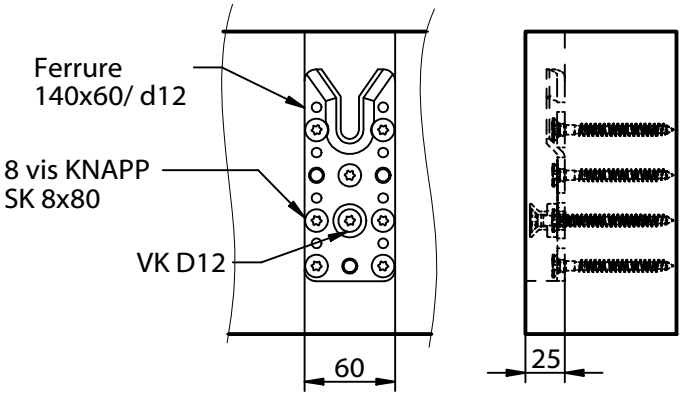
2. Visser la ferrure sur les autres perçages de position

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

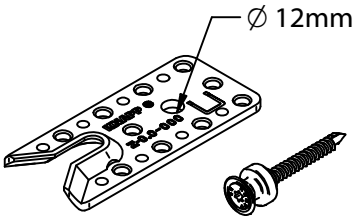
Fixation sur la poutre secondaire



Fixation sur la poutre principale



KNAPP®
connectors.com



Notice de montage
RICON® S 140/60 VK12

Pièce d'accroche vissée

CE
ETA-10/0189

Réf. K130

Encastrement sur la poutre principale

Longueur de fraisage L dans 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 [mm]	RICON S 140x60 Longueur L sans renfort [mm]	RICON S 170x60 Longueur L sans renfort [mm]	RICON S 200x60 Longueur L sans renfort [mm]	RICON S 230x60 Longueur L sans renfort [mm]
160	155			
180	170	-	-	-
200	180	180	-	-
220	200	200	-	-
240	210	210	210	-
260	-	220	220	-
280	-	-	240	240
300	-	-	250	250
320	-	-	-	265
360	-	-	-	300

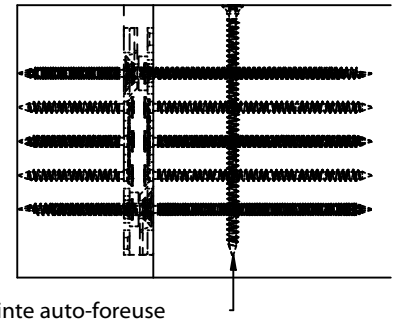
Position des perçages sur la poutre principale et secondaire

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

Hauteur de poutre secondaire H_N [mm]	RICON S 140x60	RICON S 170x60	RICON S 200x60	RICON S 230x60
	Position de perçage t_1 sur la poutre secondaire			
	Distance t_1 [mm]	Distance t_1 [mm]	Distance t_1 [mm]	Distance t_1 [mm]
160	55			
180	70			
200	80	50		
220	100	70		
240	110	80	50	
260		90	60	
280			80	50
300			90	60
320				75
360				110

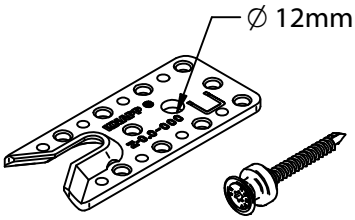
Remarque importante:

Faire contrôler par un B.E. compétant dans le cas où la hauteur de la poutre secondaire et plus faible qu'indiqué ci-dessus. Une section plus faible peut être renforcée par des vis de renfort traversantes (EN 1995-1-1, NAD et DIN 1052,11.4.3) !



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

KNAPP®
connectors.com



Notice de montage

RICON® S 140/60 VK12

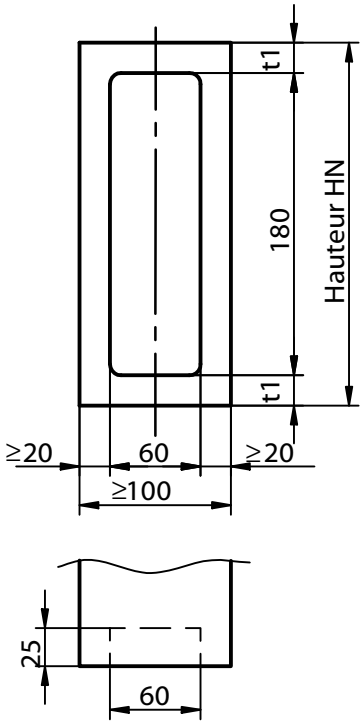
Pièce d'accroche vissée

CE
ETA-10/0189

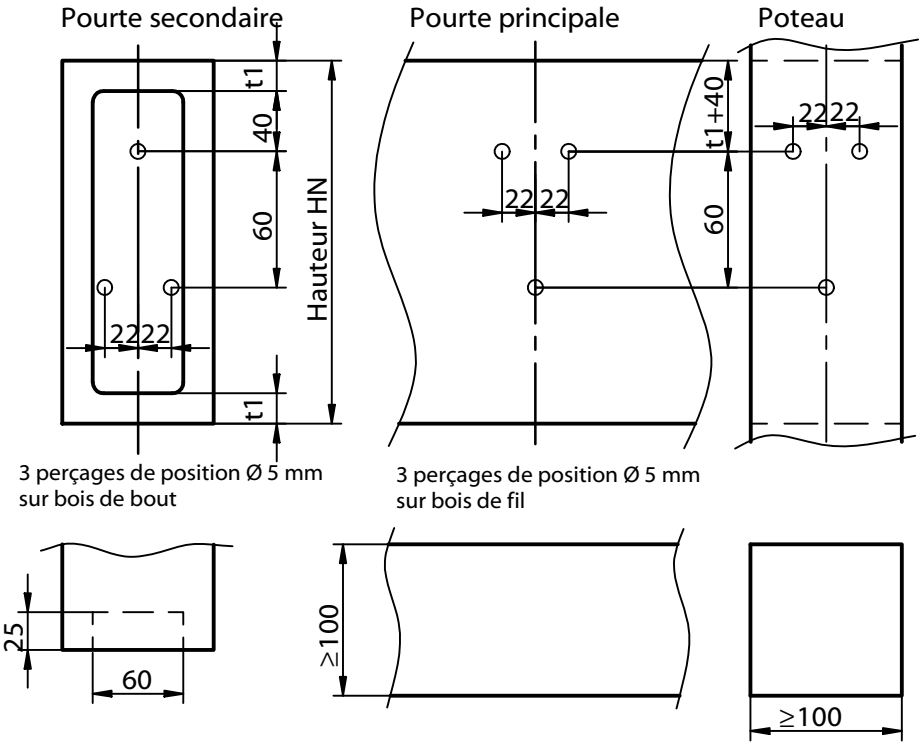
Réf. K130

Encastrement sur la poutre secondaire

1. Fraiser

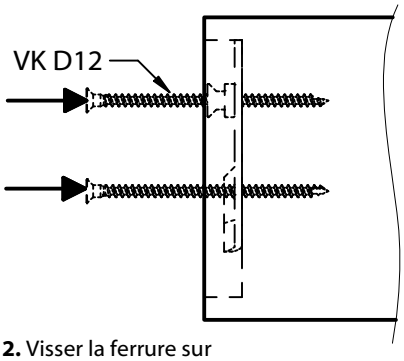


2. Percer



3. Visser

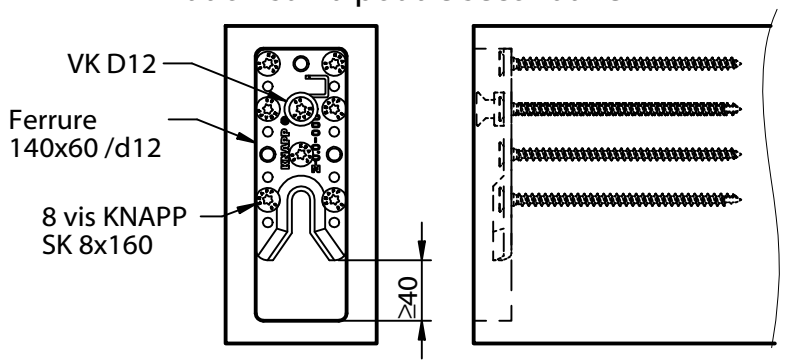
1. Fixer la ferrure avec la pièce d'accroche et sa vis sur le perçage de position



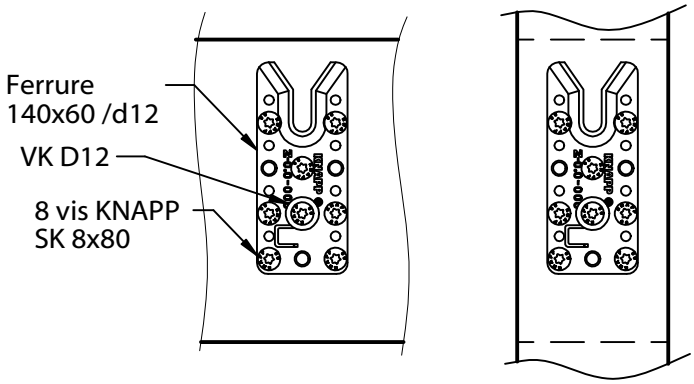
2. Visser la ferrure sur les autres perçages de position

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

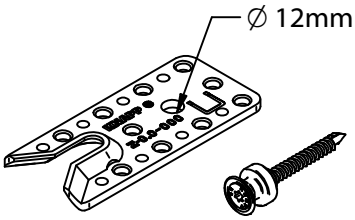
Fixation sur la poutre secondaire



Fixation sur la poutre principale ou le poteau



KNAPP®
connectors.com



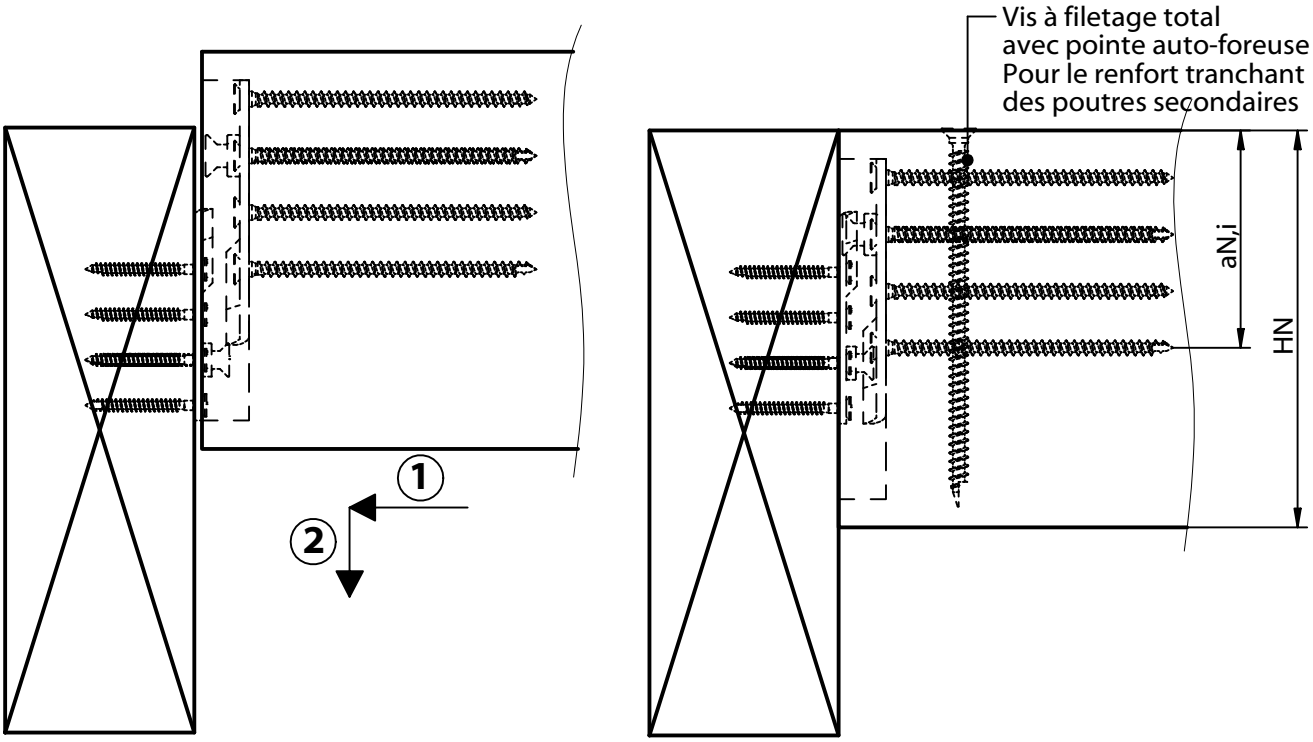
Notice de montage
RICON® S 140/60 VK12

Pièce d'accroche vissée

CE
ETA-10/0189

Réf. K130

Encastrement sur la poutre secondaire



Distance du bord t_1 en relation avec la hauteur de la poutre secondaire H_N et de la taille de RICON® S

Hauteur de poutre secondaire	Distance du bord t_1 en relation avec la hauteur de la poutre secondaire H_N			
	RICON S 140x60	RICON S 170x60	RICON S 200x60	RICON S 230x60
H_N	Distance t_1	Distance t_1	Distance t_1	Distance t_1
[mm]	[mm]	[mm]	[mm]	[mm]
200	10	-	-	-
220	20	-	-	-
240	30	15	-	-
260	-	25	10	-
280	-	35	20	-
300	-	-	30	15
320	-	-	40	25
340	-	-	-	35
360	-	-	-	45

Remarque importante:
Faire contrôler par un B.E. compétant dans le cas où la hauteur de la poutre secondaire et plus faible qu'indiqué ci-dessus. Une section plus faible peut être renforcée par des vis de renfort traversantes (EN 1995-1-1, NAD et DIN 1052,11.4.3) !

KNAPP®
connectors.com