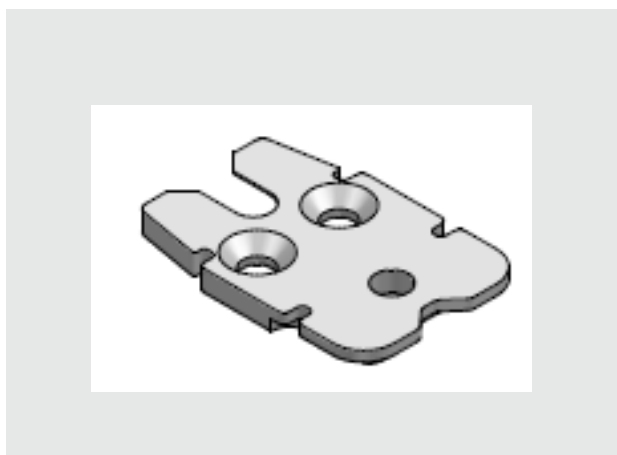




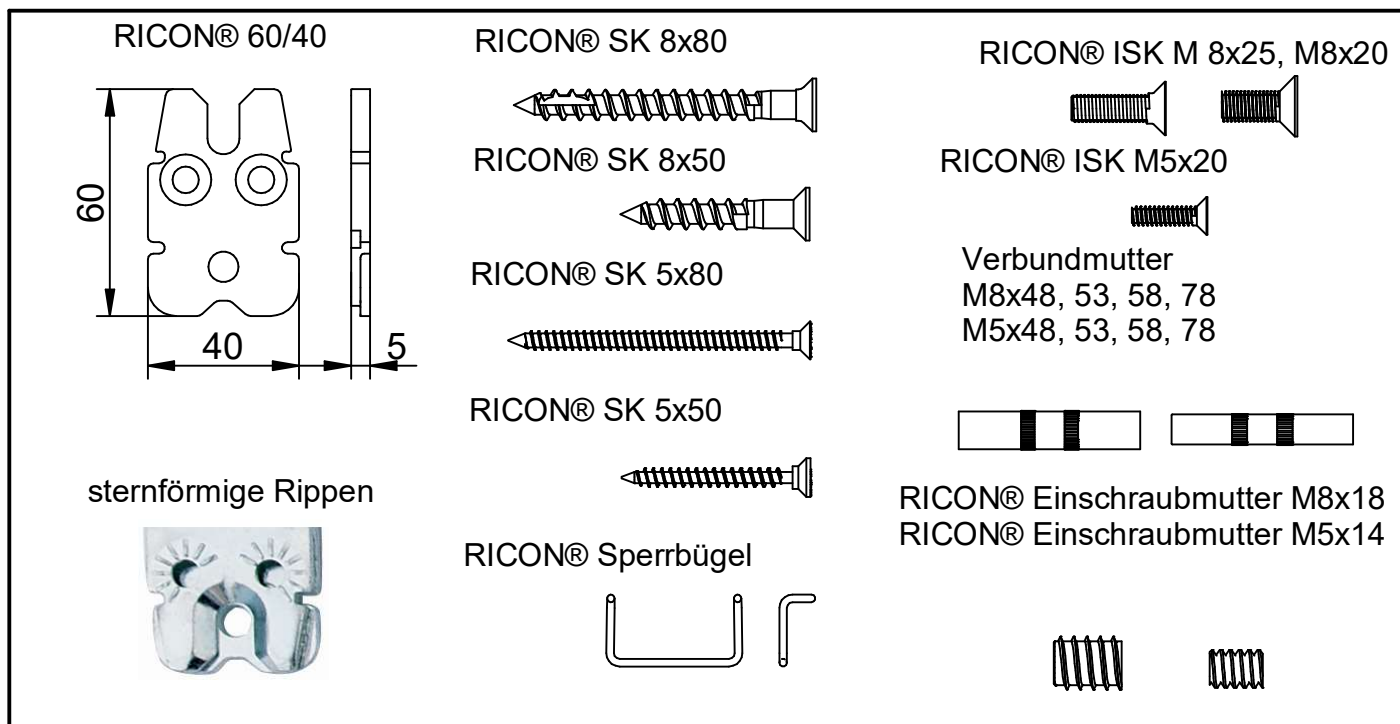
Art.-Nr.

Montageanleitung RICON® 60/40



ETA-10/0189

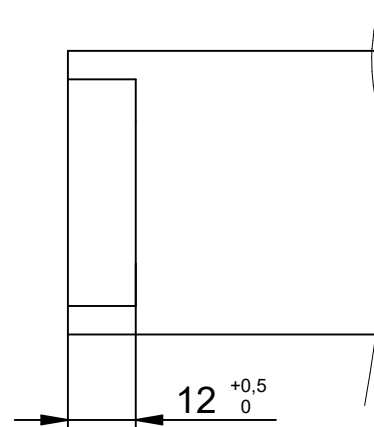
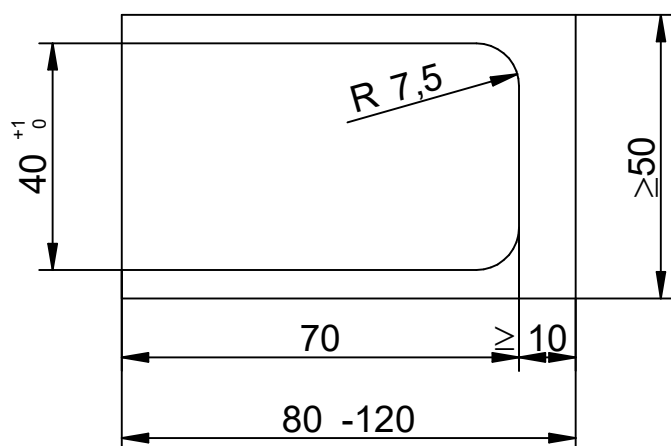
Pfosten-Riegelverbindung
mit ETA Zulassung

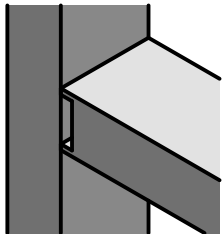


Einzel und Doppelanschluss

Pfosten-Riegelverbindung

Riegel Fräsbild



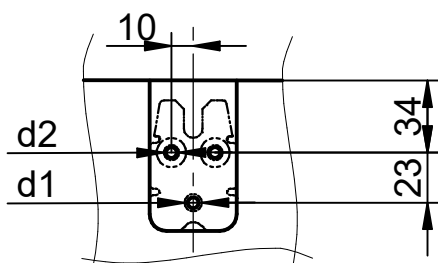


RICON® 60/40 EA

Art. Nr. K360

Einzelanschluss
Pfosten-Riegelverbindung

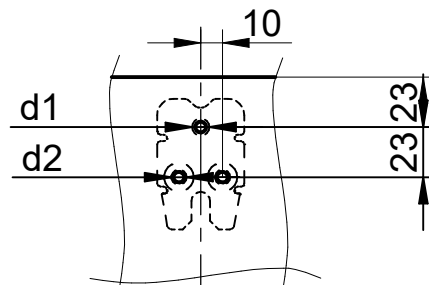
Bohrbild im Riegel



d1...Ø 5mm, 30mm tief vorbohren

d2...Ø 5mm, 10mm tief vorbohren im Nadelholz
d2...Ø 3,5mm, 50mm tief vorbohren im Laubholz

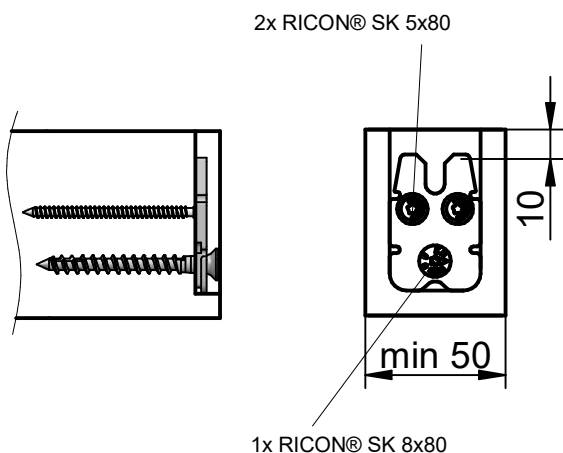
Bohrbild im Pfosten



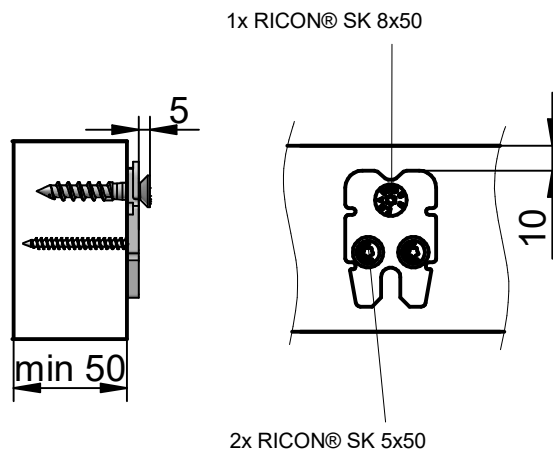
d1...Ø 5mm, 30mm tief vorbohren

d2...Ø 5mm, 10mm tief vorbohren im Nadelholz
d2...Ø 3,5mm, 30mm tief vorbohren im Laubholz

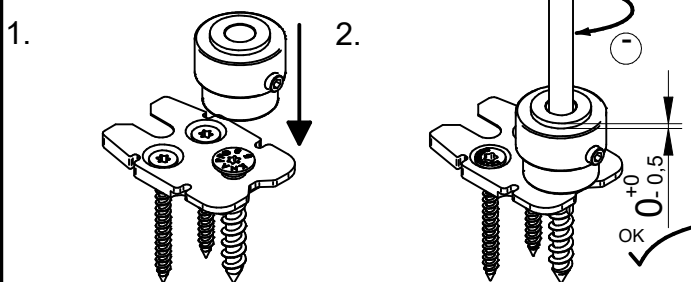
Schraubenbild im Riegel



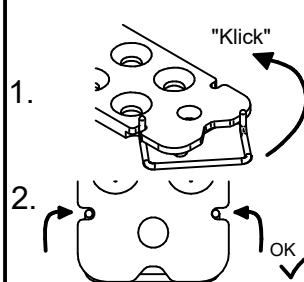
Schraubenbild im Pfosten



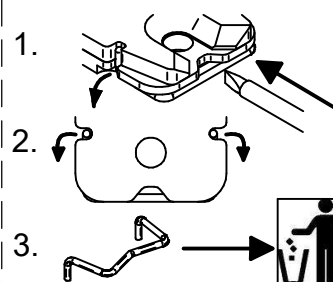
Einstellen der Schraube

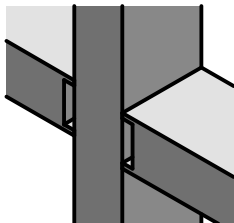


Sperrbügel einlegen



Sperrbügel lösen



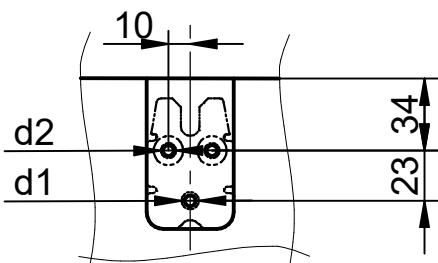


RICON® 60/40 DA

Art. Nr. K160/48;
K160/58; K160/78

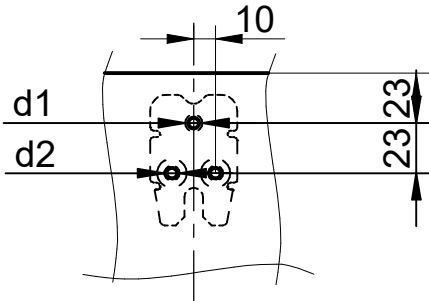
Doppelanschluss
Pfosten-Riegelverbindung

Bohrbild im Riegel



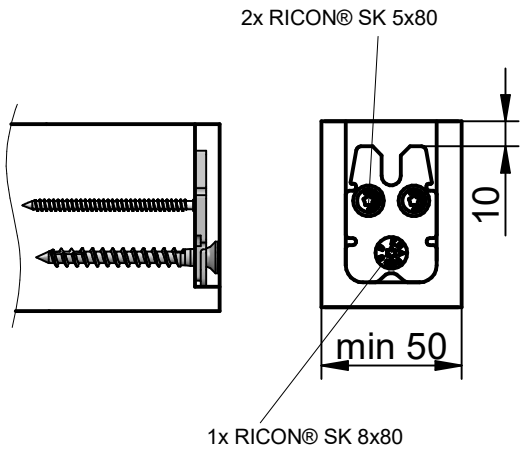
d1...Ø 5mm, 30mm tief vorbohren
d2...Ø 5mm, 10mm tief vorbohren im Nadelholz
d2...Ø 3,5mm, 50mm tief vorbohren im Laubholz

Bohrbild im Pfosten

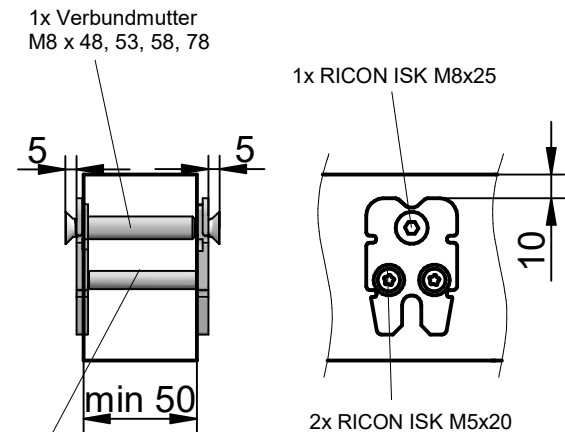


d1...Ø 10mm, Durchgangsloch
d2...Ø 8mm, Durchgangsloch

Schraubenbild im Riegel

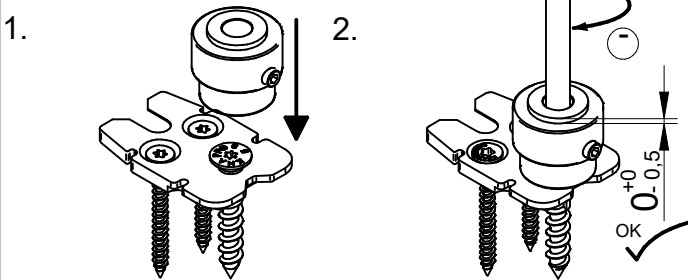


Schraubenbild im Pfosten

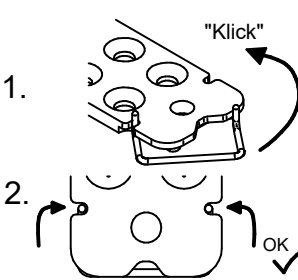


Pfosten- stärke [mm]	Verbund- mutterlänge [mm]
50	48
56	53
60	58
80	78

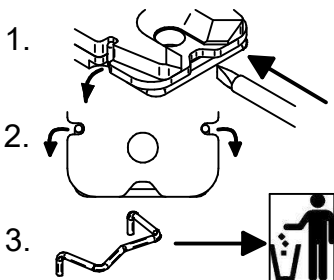
Einstellen der Schraube



Sperrbügel einlegen

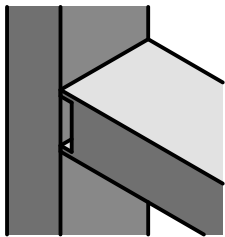


Sperrbügel lösen

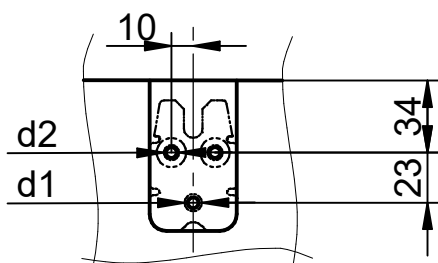


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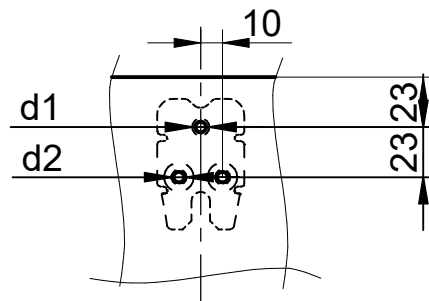
Bohrbild im Riegel



d1...Ø 5mm, 30mm tief vorbohren

d2...Ø 5mm, 10mm tief vorbohren im Nadelholz
d2...Ø 3,5mm, 50mm tief vorbohren im Laubholz

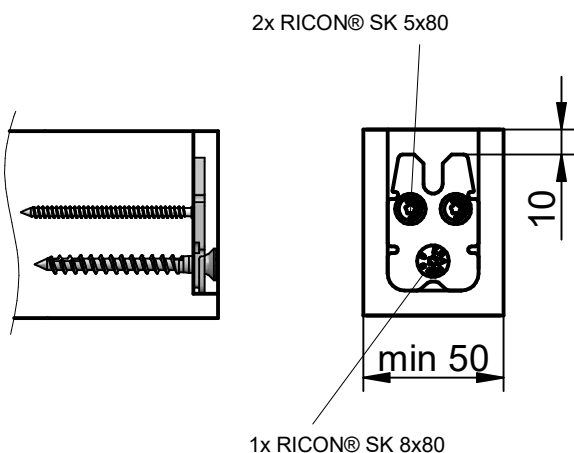
Bohrbild im Pfosten



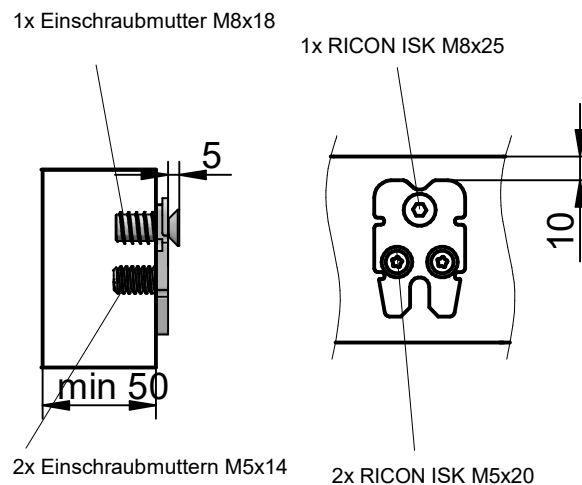
d1...Ø 12 mm, 20 mm tief vorbohren

d2...Ø 8 mm, 15 mm tief vorbohren

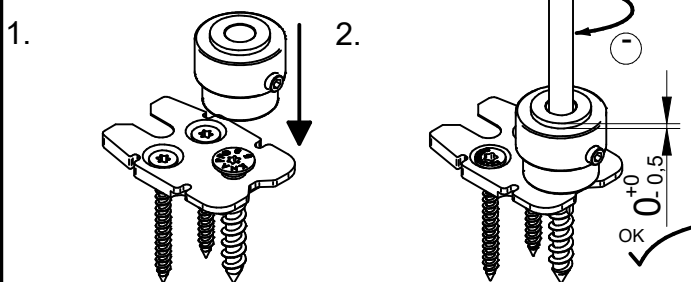
Schraubenbild im Riegel



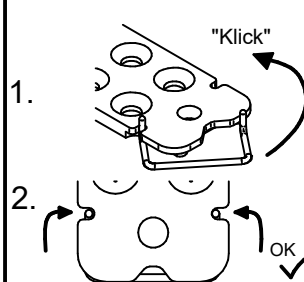
Schraubenbild im Pfosten



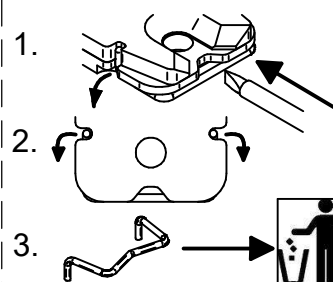
Einstellen der Schraube



Sperrbügel einlegen



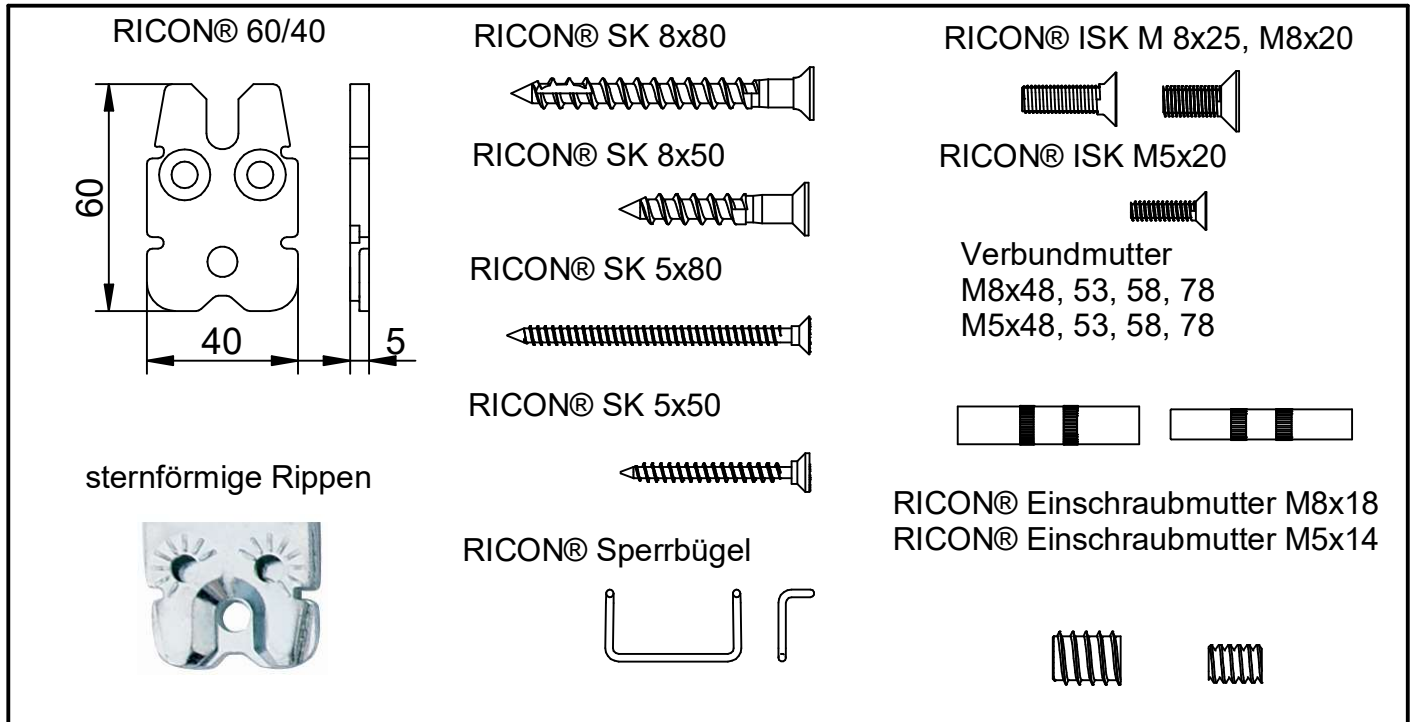
Sperrbügel lösen



Montageanleitung RICON® 60/40



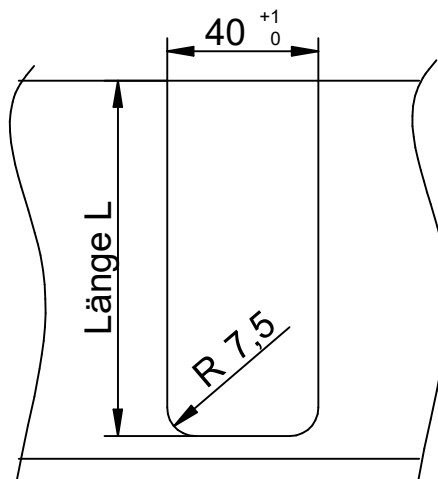
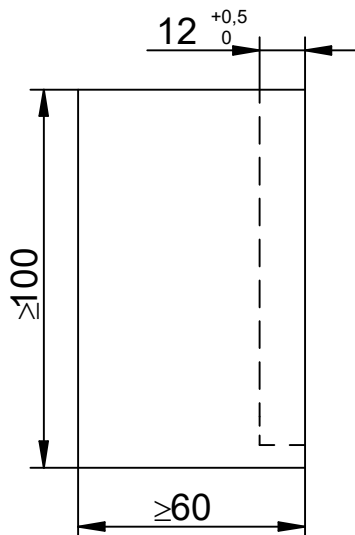
Haupt- Nebenträgerverbindung
mit ETA Zulassung



Einzel- und Doppelanschluss

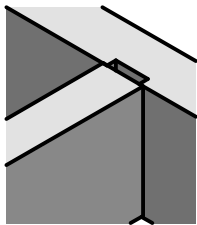
Haupt-Nebenträgerverbindung

Hauptträger Fräsbild



Ausfräslänge L aus dem Hauptträger in Abhängigkeit der Nebenträgerhöhe HN

Höhe [mm]	Länge [mm]
100	90
120	110
140	130

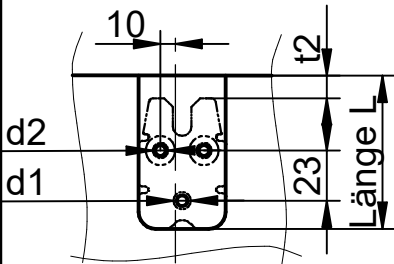


RICON® 60/40 EA

Einzelanschluss
Haupt-Nebenträgerverbindung

Art. Nr. K360

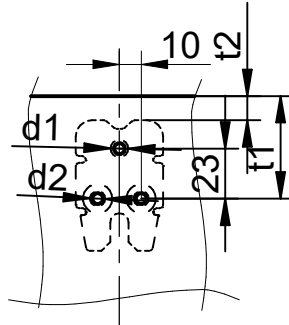
Bohrbild im Hauptträger



d1...Ø 5mm, 30mm tief vorbohren

d2...Ø 5mm, 10mm tief vorbohren in Nadelholz
d2...Ø 5mm, 10mm deep predrilling in softwood

Bohrbild im Nebenträger



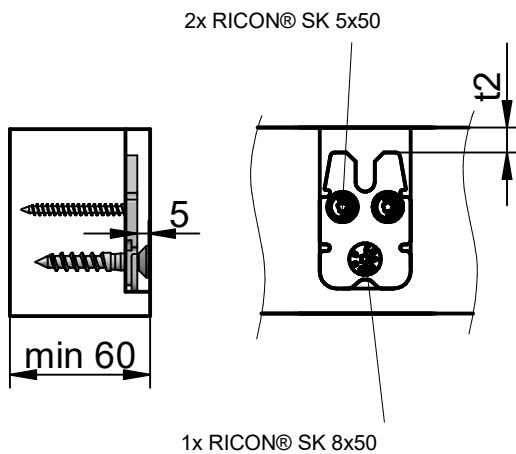
d1...Ø 5mm, 30mm tief vorbohren

d2...Ø 5mm, 10mm tief vorbohren in Nadelholz
d2...Ø 3,5mm, 50mm tief vorbohren in Laubholz

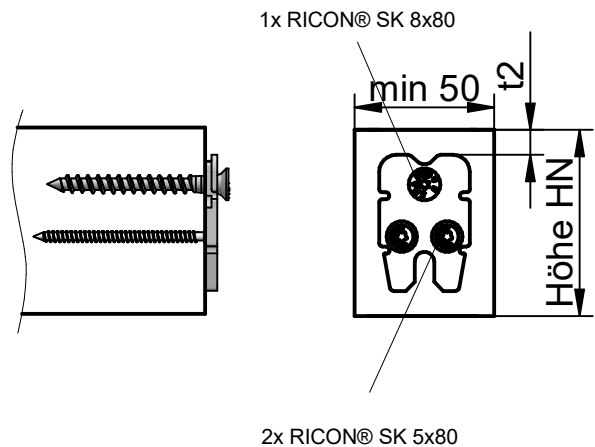
Einbohrmaße t1 und Abstandsmaß t2 in
Abhängigkeit der Nebenträgerhöhe HN

Höhe [mm]	Abstand t1 [mm]	Abstand t2 [mm]
100	66	30
120	86	50
140	106	70

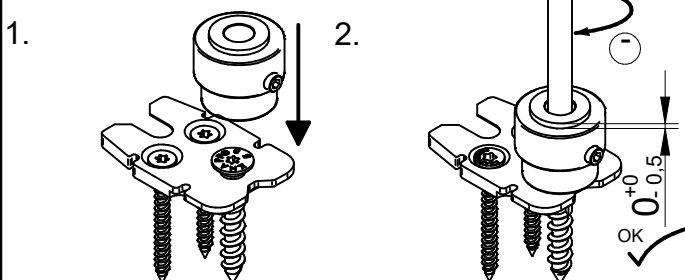
Schraubenbild im Hauptträger



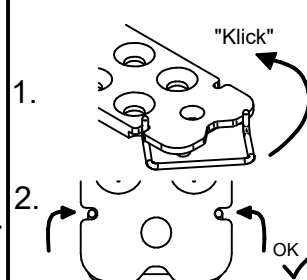
Schraubenbild im Nebenträger



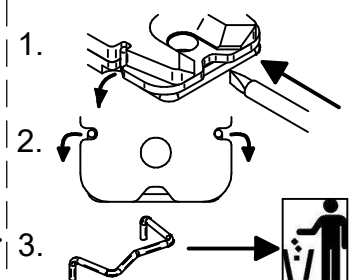
Einstellen der Schraube

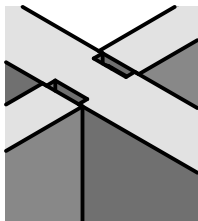


Sperrbügel einlegen



Sperrbügel lösen

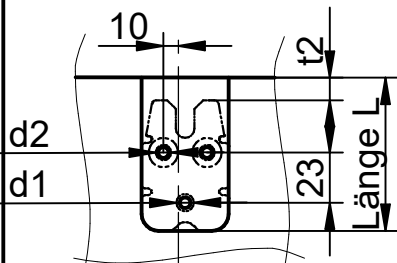




Art. Nr. K160/48;
K160/58; K160/78

Doppelanschluss
Haupt-Nebenträger Verbindung

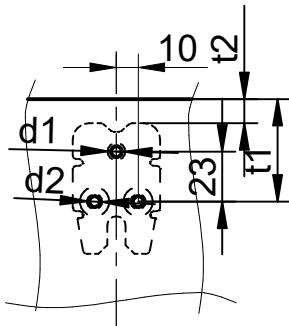
Bohrbild im Hauptträger



d1...Ø 10mm, Durchgangsloch

d2...Ø 8mm, Durchgangsloch

Bohrbild im Nebenträger



d1...Ø 5mm, 30mm tief vorbohren

d2...Ø 5mm, 10mm tief vorbohren in Nadelholz

d2...Ø 3,5mm, 50mm tief vorbohren in Laubholz

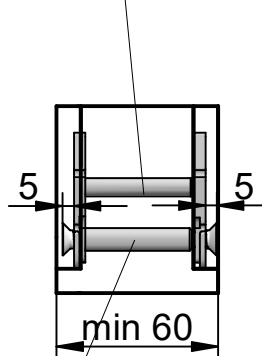
Einbohrmaße t1 und Abstandsmaß t2 in
Abhängigkeit der Nebenträgerhöhe HN

Höhe [mm]	Abstand t1 [mm]	Abstand t2 [mm]
100	66	30
120	86	50
140	106	70

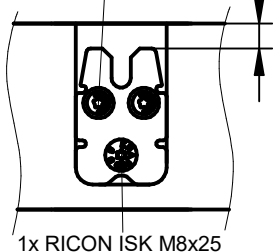
Schraubenbild im Hauptträger

2x Verbundmutter
M5 x 48, 53, 58, 78

2x RICON ISK M5x20



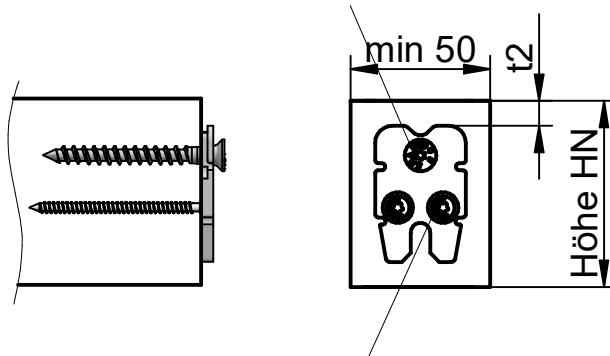
1x Verbundmutter
M8 x 36, 48, 53, 58, 78



Hauptträger- stärke [mm]	Verbund- mutterlänge [mm]
60	36
80	53

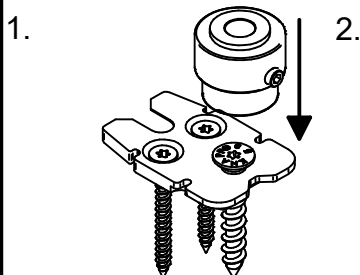
Schraubenbild im Nebenträger

1x RICON® SK 8x80

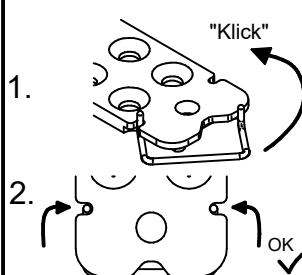


2x RICON® SK 5x80

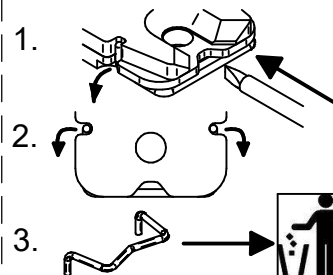
Einstellen der Schraube

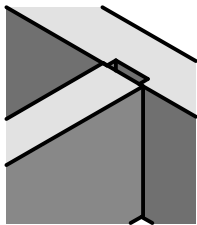


Sperrbügel einlegen



Sperrbügel lösen



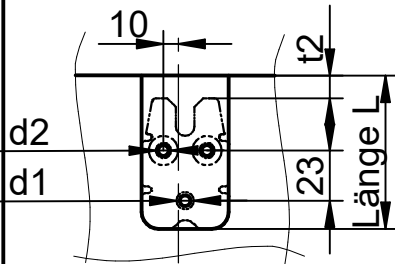


Art. Nr. K260

Montageanleitung RICON® 60/40 EAR

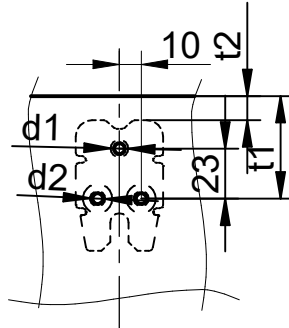
Einzelanschluss mit Einschraubmutter
Haupt-Nebenträger Verbindung

Bohrbild im Hauptträger



d1...Ø 12mm, 20mm tief vorbohren
d2...Ø 8mm, 15mm tief vorbohren

Bohrbild im Nebenträger



d1...Ø 5mm, 30mm tief vorbohren
d2...Ø 5mm, 10mm tief vorbohren in Nadelholz
d2...Ø 3,5mm, 50mm tief vorbohren in Laubholz

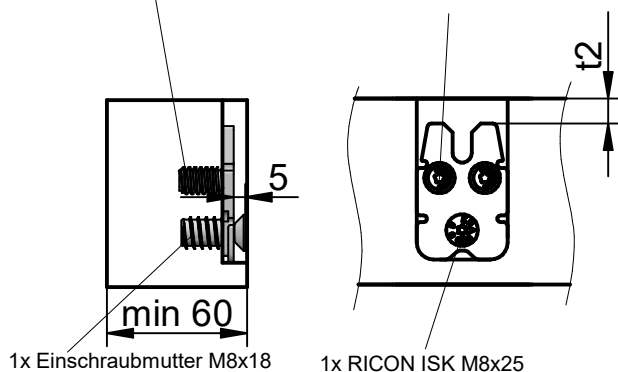
Einbohrmaße t1 und Abstandsmaß t2 in
Abhängigkeit der Nebenträgerhöhe HN

Höhe [mm]	Abstand t1 [mm]	Abstand t2 [mm]
100	66	30
120	86	50
140	106	70

Schraubenbild im Hauptträger

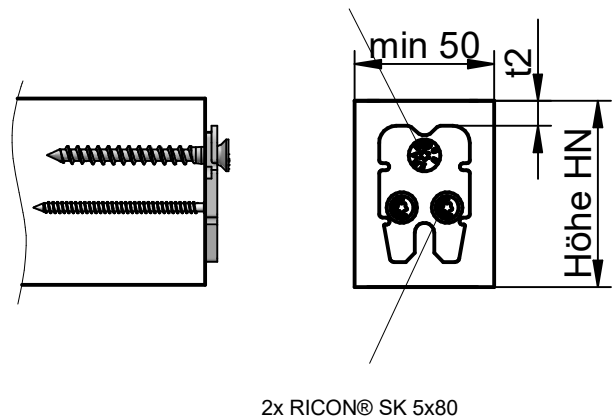
2x Einschraubmutter M5x14

2x RICON ISK M5x20

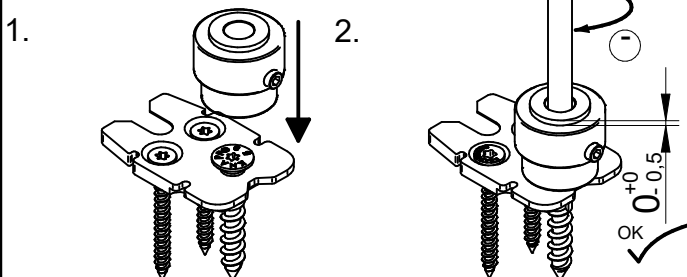


Schraubenbild im Nebenträger

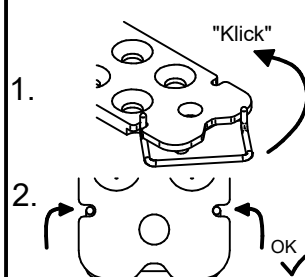
1x RICON® SK 8x80



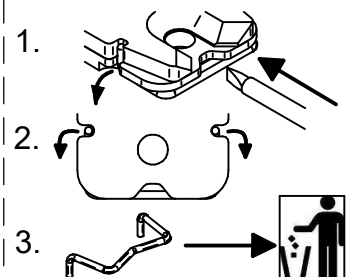
Einstellen der Schraube



Sperrbügel einlegen



Sperrbügel lösen





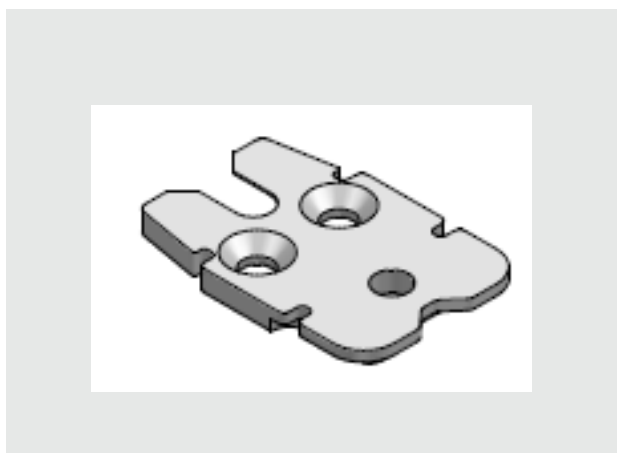
Knapp GmbH ■ Wassergasse 31 ■ A-3324 Euratsfeld ■ Tel.: +43 (0)7474 / 799 10 ■ Fax: +43 (0)7474 / 799 10 99
Knapp GmbH ■ Vertrieb Deutschland ■ Föhrenweg 1 ■ D-85591 Vaterstetten ■ Tel.: +49 (0)8106 / 99 55 99 0 ■ Fax: +49 (0)8106 / 99 55 99 20 ■ E-Mail: info@knapp-verbinder.com
Knapp GmbH Sàrl ■ Filiale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

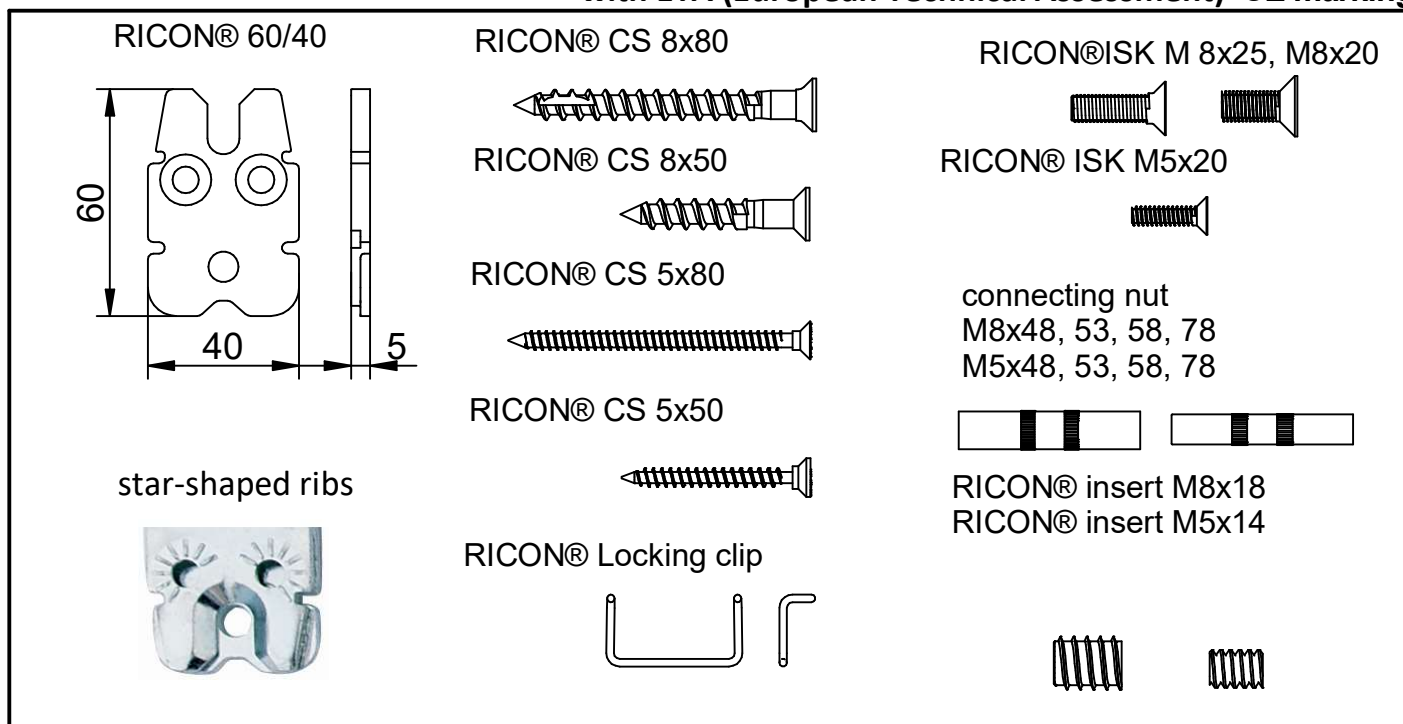
Construction Manual

RICON® 60/40



ETA-10/0189

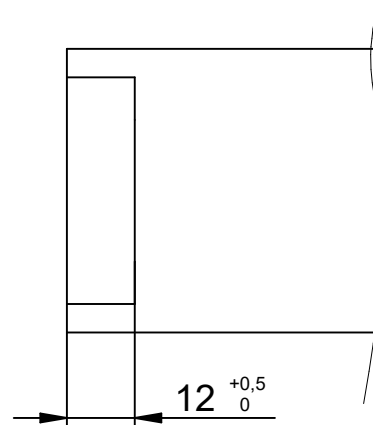
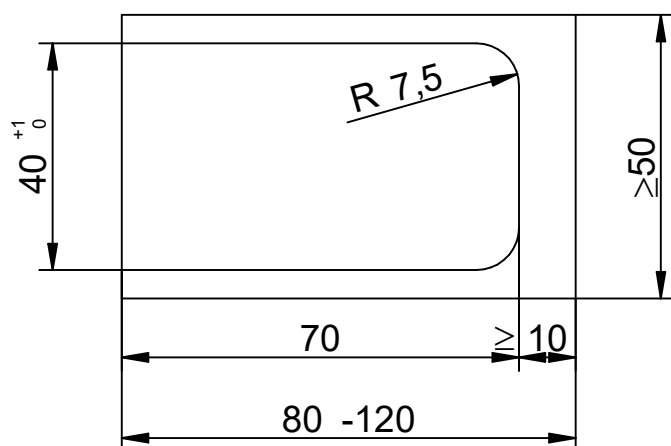
post and beam connection
with ETA (European Technical Assessment) CE marking

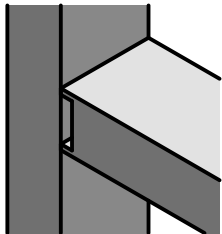


single and double connection

Post and Beam connection

Milling pattern Beam



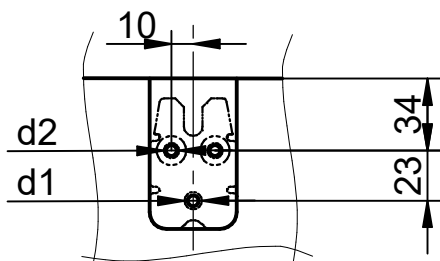


RICON® 60/40 EA

single connection
post and beam

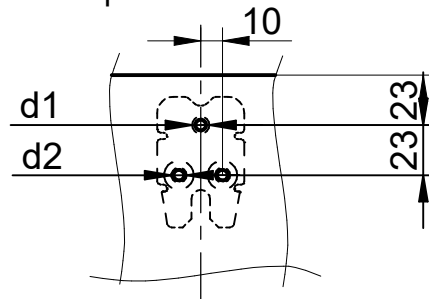
Art. No. K360

drilling pattern for beam



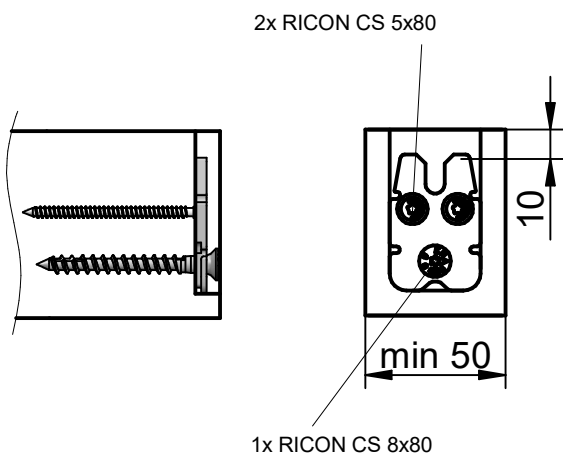
d1...Ø 5mm, 30mm pre-drilling
d2...Ø 5mm, 10mm pre-drilling in softwood
d2...Ø 3,5mm, 50mm pre-drilling in hardwood

drilling pattern for post

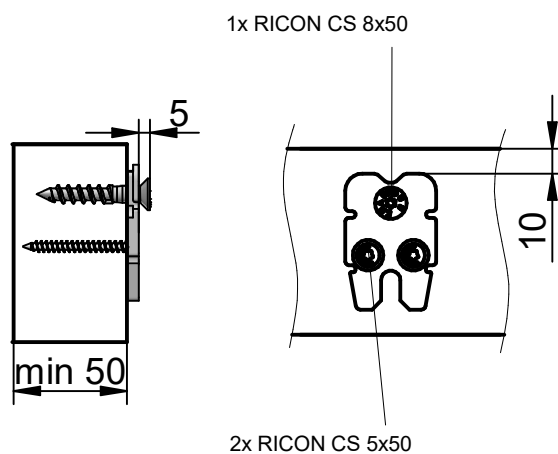


d1...Ø 5mm, 30mm pre-drilling
d2...Ø 5mm, 10mm pre-drilling in softwood
d2...Ø 3,5mm, 30mm pre-drilling in hardwood

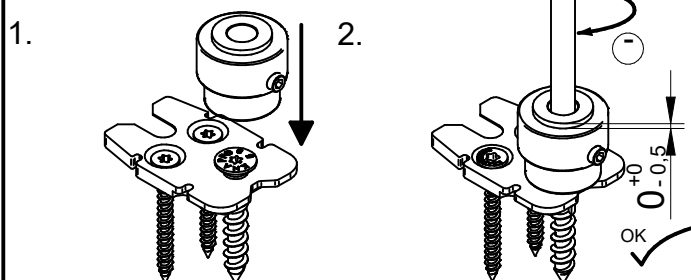
screw pattern for beam



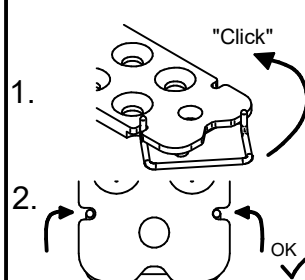
screw pattern for post



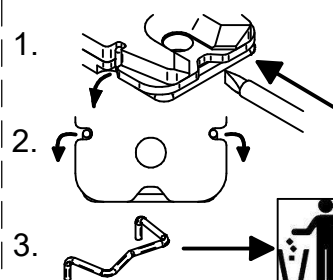
Adjusting the screw

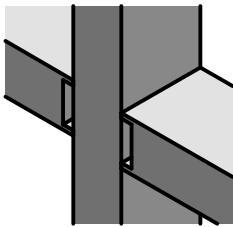


Locking clip assembly



Locking clip removal



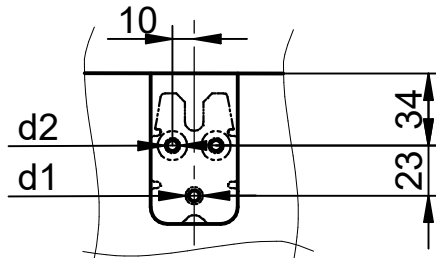


RICON® 60/40 DA

Art. No. K160/48;
K160/58; K160/78

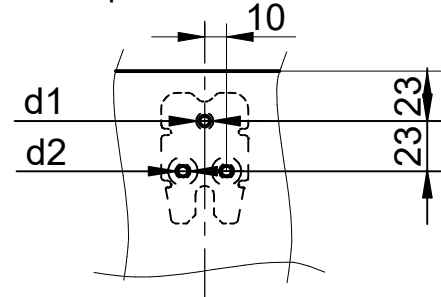
**Doubel connection
post and beam**

drilling pattern for beam



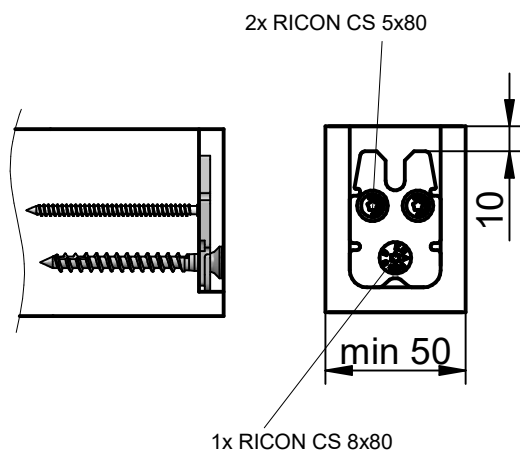
d1...Ø 5mm, 30mm pre-drilling
d2...Ø 5mm, 10mm pre-drilling in softwood
d2...Ø 3,5mm, 50mm pre-drilling in hardwood

drilling pattern for post

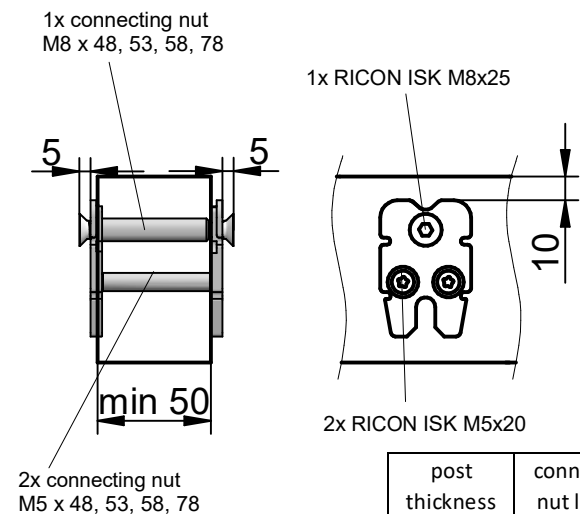


d1...Ø 10mm, through hole
d2...Ø 8mm, through hole

screw pattern for beam

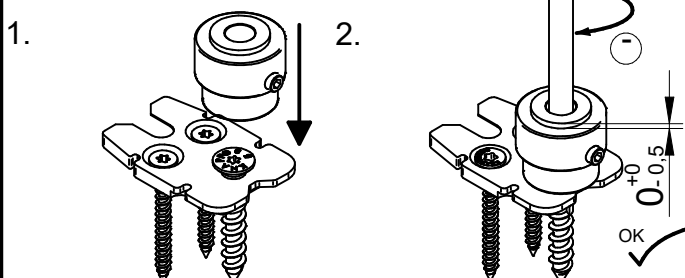


screw pattern for post

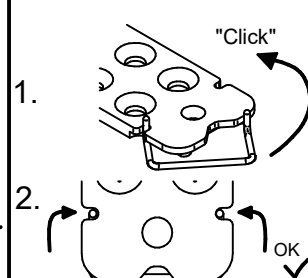


post thickness [mm]	connecting nut length [mm]
50	48
56	53
60	58
80	78

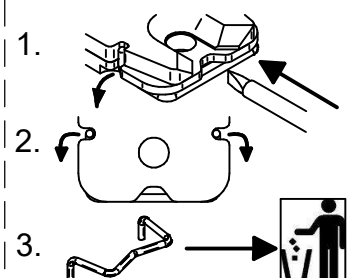
Adjusting the screw

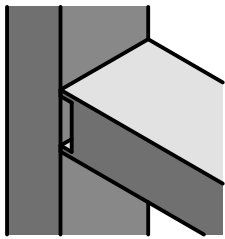


Locking clip assembly



Locking clip removal



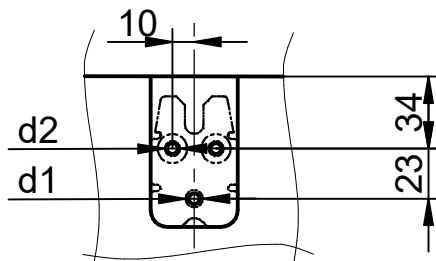


RICON® 60/40 EAR

single connection with insert screw
post and beam connection

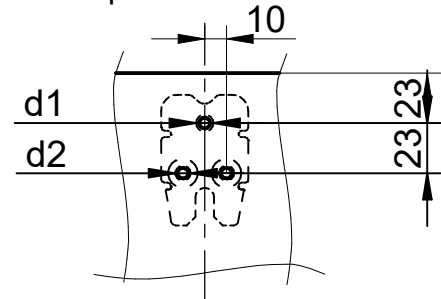
Art. No. K260

drilling pattern for beam



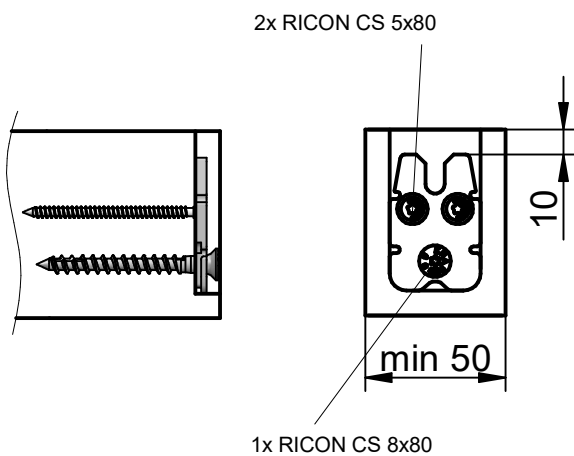
d1...Ø 5mm, 30mm pre-drilling
d2...Ø 5mm, 10mm pre-drilling in softwood
d2...Ø 3,5mm, 50mm pre-drilling in hardwood

drilling pattern for post

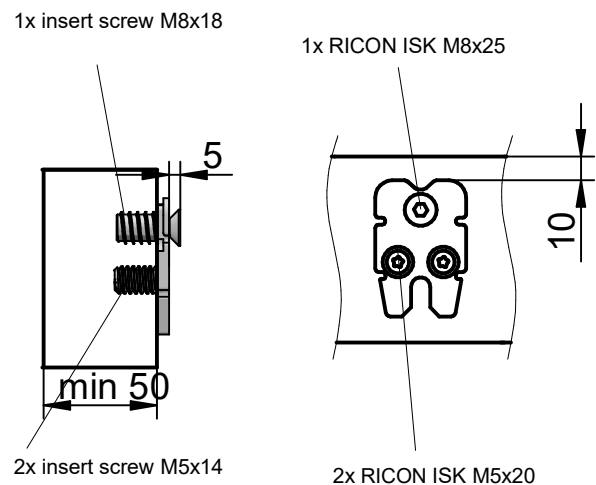


d1...Ø 12 mm, 20 mm pre-drilling
d2...Ø 8 mm, 15 mm pre-drilling

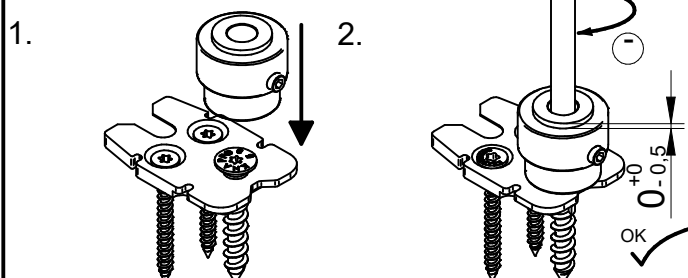
screw pattern for beam



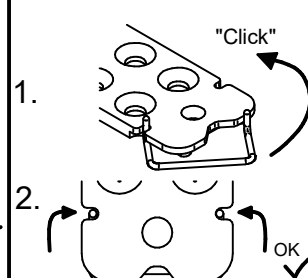
screw pattern for post



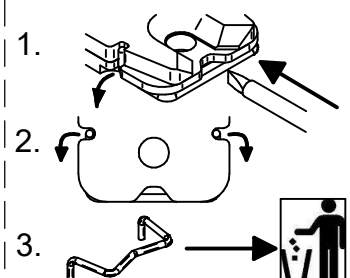
Adjusting the screw



Locking clip assembly



Locking clip removal

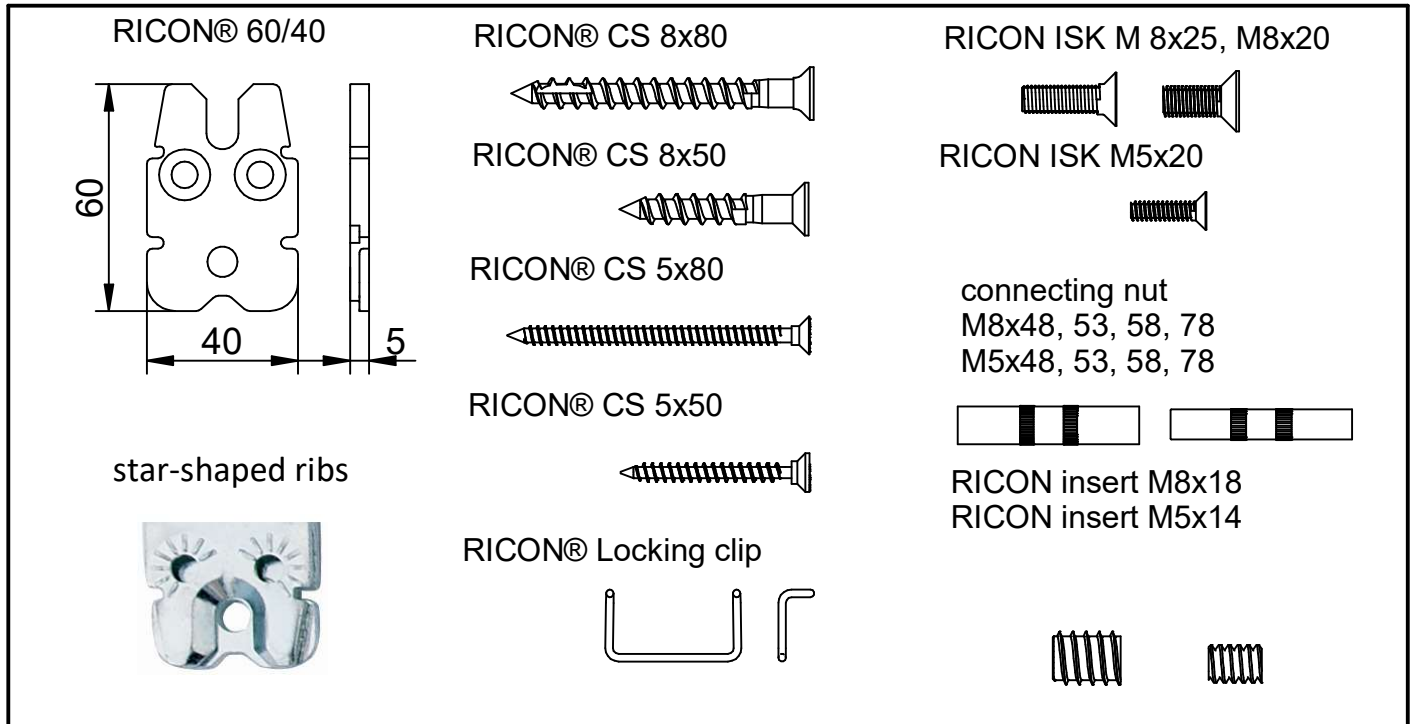


Construction Manual

RICON® 60/40



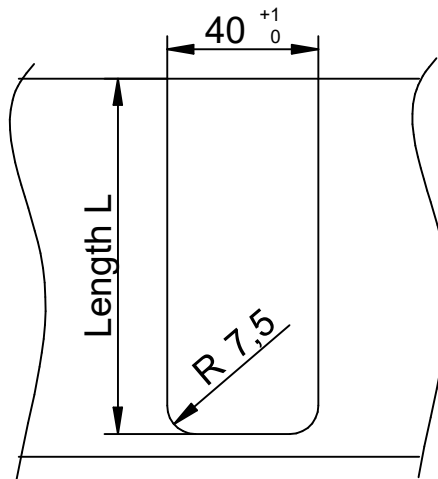
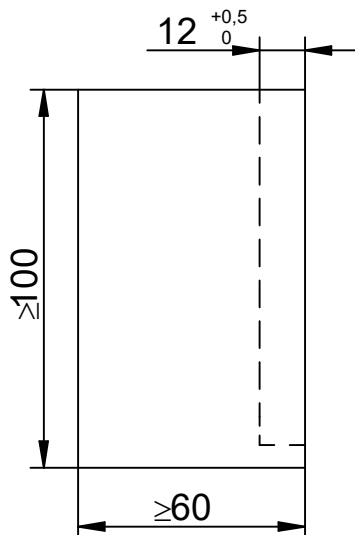
main beam secondary beam connection
with ETA (European Technical Assessment) CE marking



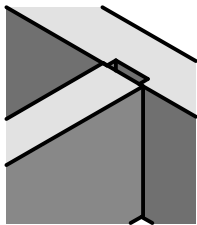
single and double connection

main beam, secondary beam connection

Milling pattern main beam



Milling length L form the main beam depending on the beam height HN:	
Height HN [mm]	Length L [mm]
100	90
120	110
140	130



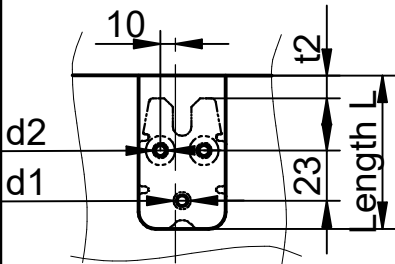
RICON® 60/40 EA

single connection

main beam, secondary beam connection

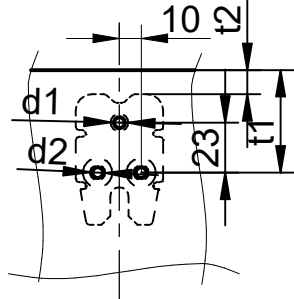
Art. No. K360

drilling pattern for main beam



d1...Ø 5mm, 30mm pre-drilling
d2...Ø 5mm, 10mm pre-drilling in softwood
d2...Ø 3,5mm, 30mm pre-drilling in hardwood

drilling pattern for secondary beam

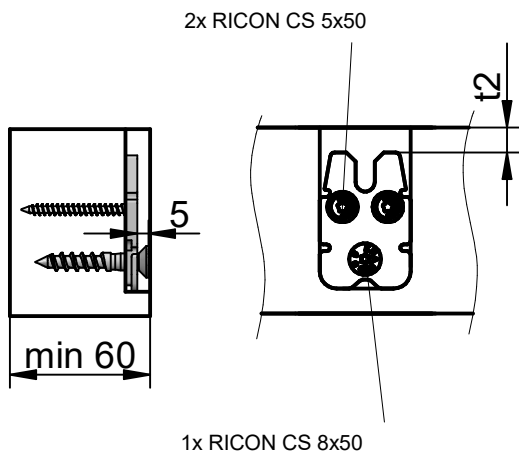


d1...Ø 5mm, 30mm pre-drilling
d2...Ø 5mm, 10mm pre-drilling in softwood
d2...Ø 3,5mm, 50mm pre-drilling in hardwood

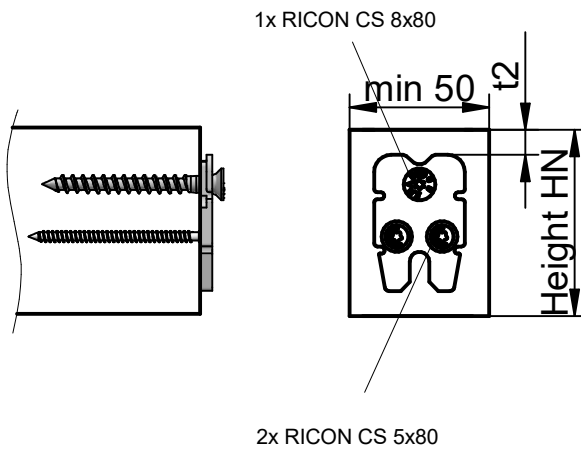
Drilling dimensions t1 and distance t2 depending on the secondary beam height HN

Height HN [mm]	Distance t1 [mm]	Distance t2 [mm]
100	66	30
120	86	50
140	106	70

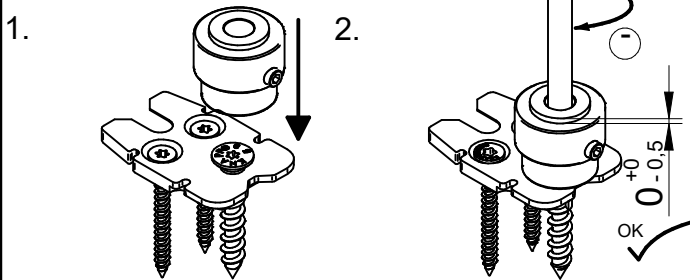
screw pattern for main beam



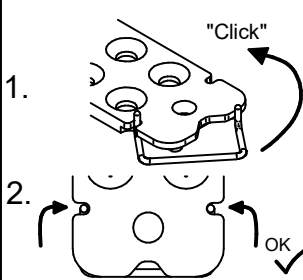
screw pattern for secondary beam



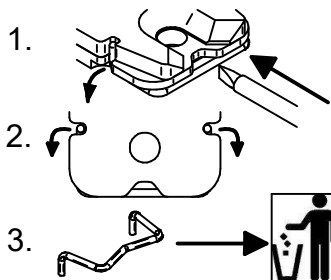
Adjusting the screw

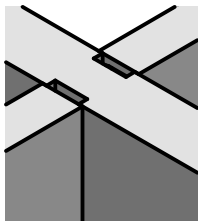


Locking clip assembly



Locking clip removal





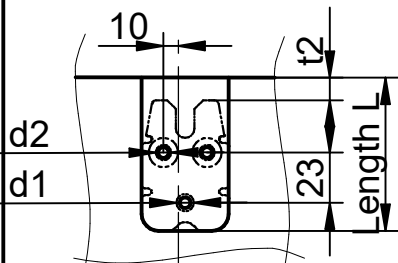
Art. No. K160/48;
K160/58; K160/78

Construction Manual

RICON® 60/40 DA

double connection
main beam, secondary beam connection

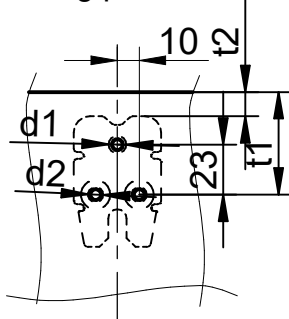
drilling pattern for main beam



d1...Ø 10mm, through hole

d2...Ø 8mm, through hole

drilling pattern for secondary beam



d1...Ø 5mm, 30mm pre-drilling

d2...Ø 5mm, 10mm pre-drilling in softwood
d2...Ø 3,5mm, 50mm pre-drilling in hardwood

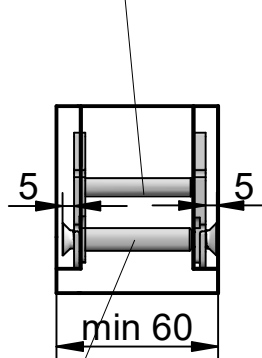
Drilling dimensions t1 and distance t2 depending on the secondary beam height HN

Height HN [mm]	Distance t1 [mm]	Distance t2 [mm]
100	66	30
120	86	50
140	106	70

screw pattern for main beam

2x connecting nut
M5 x 48, 53, 58, 78

2x RICON ISK M5x20



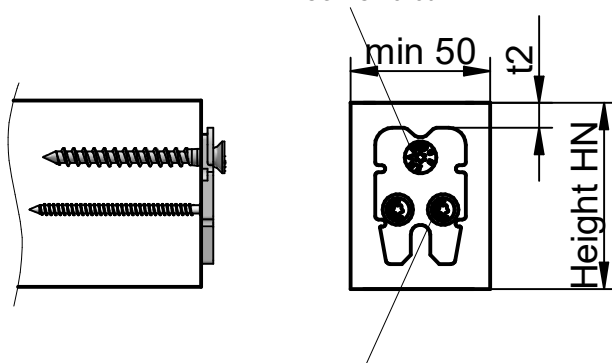
1x connecting nut
M8 x 36, 48, 53, 58, 78

1x RICON ISK M8x25

main girder width [mm]	connecting nut length [mm]
60	36
80	53

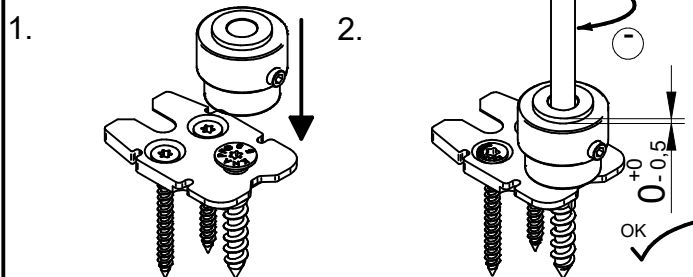
screw pattern for secondary beam

1x RICON CS 8x80

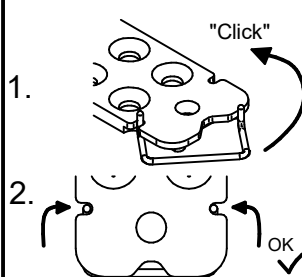


2x RICON CS 5x80

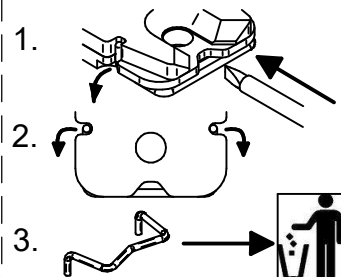
Adjusting the screw



Locking clip assembly

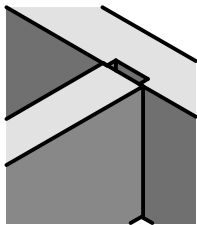


Locking clip removal



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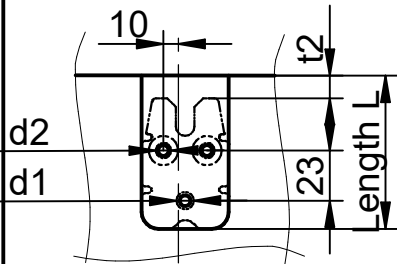
Art. No. K260

Construction Manual

RICON® 60/40 EAR

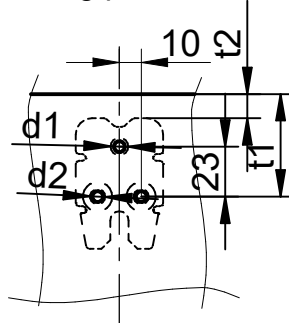
single connection with insert screw
main beam, secondary beam connection

drilling pattern for main beam



d1...Ø 12mm, 20mm pre-drilling
d2...Ø 8mm, 15mm pre-drilling

drilling pattern for secondary beam



d1...Ø 5mm, 30mm pre-drilling
d2...Ø 5mm, 10mm pre-drilling in softwood
d2...Ø 3,5mm, 50mm pre-drilling in hardwood

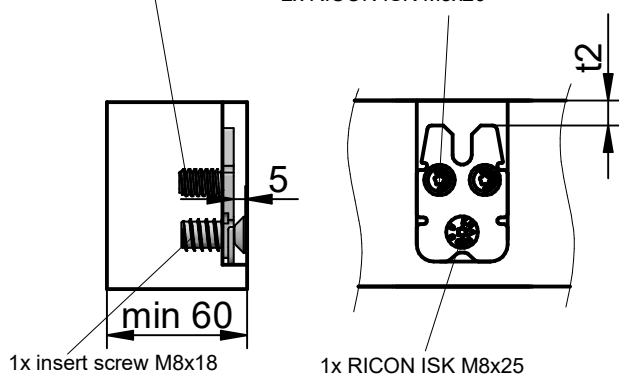
Drilling dimensions t1 and distance t2 depending on the secondary beam height HN

Height HN [mm]	Distance t1 [mm]	Distance t2 [mm]
100	66	30
120	86	50
140	106	70

screw pattern for main beam

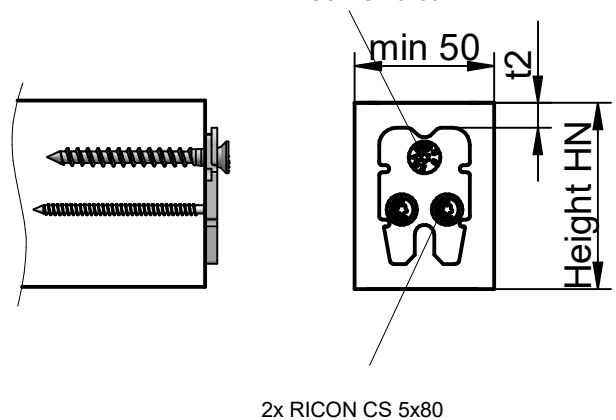
2x insert screw M5x14

2x RICON ISK M5x20

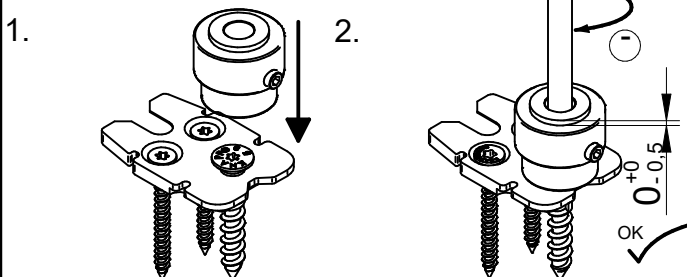


screw pattern for secondary beam

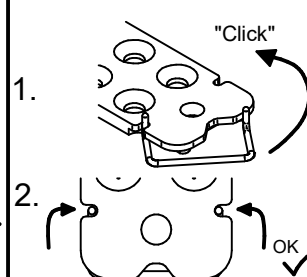
1x RICON CS 8x80



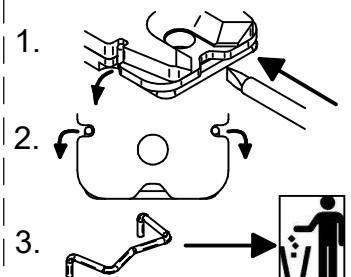
Adjusting the screw



Locking clip assembly

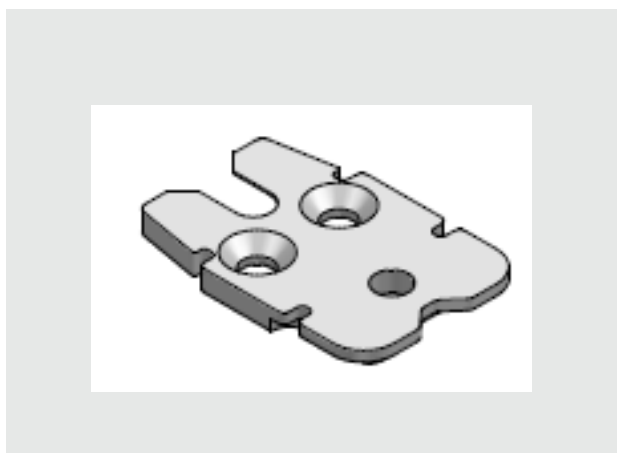


Locking clip removal





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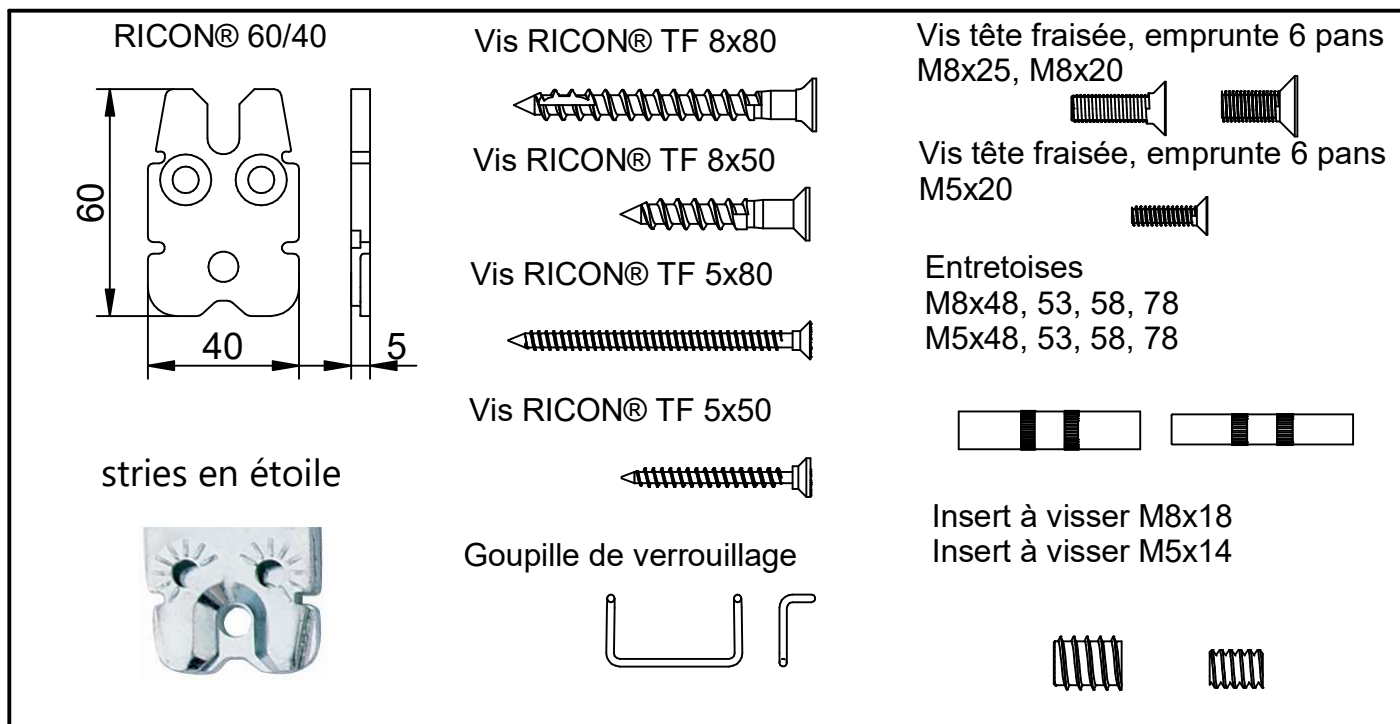
Réf.

Notice de montage

RICON® 60/40



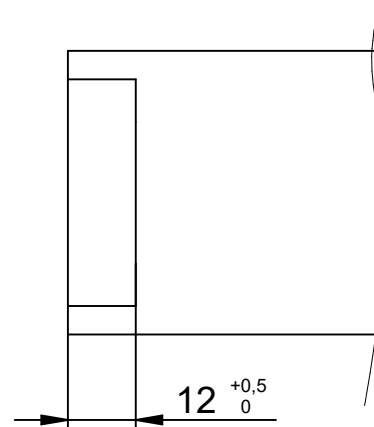
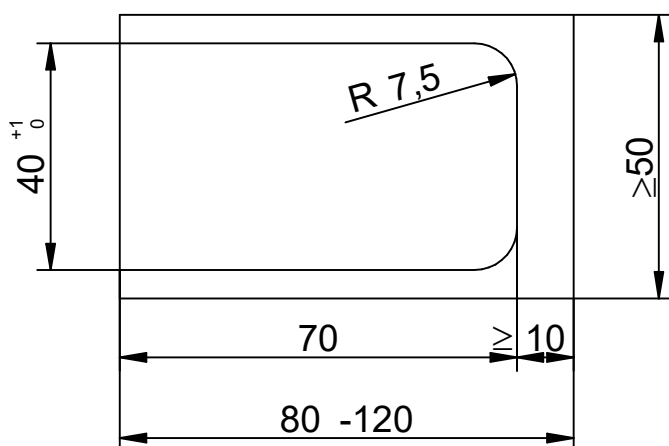
Assemblage poteau - traverse
avec Évaluation Technique Européenne (ETE)

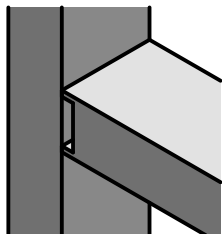


Assemblage simple et doublé

Assemblage poteau - traverse

Détails du fraisage traverse



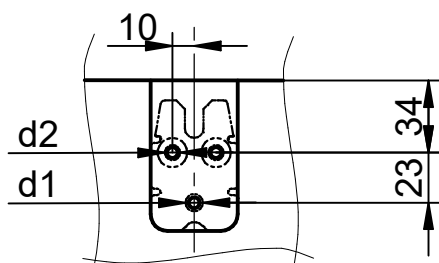


RICON® 60/40 EA

Assemblage simple
Assemblage poteau - traverse

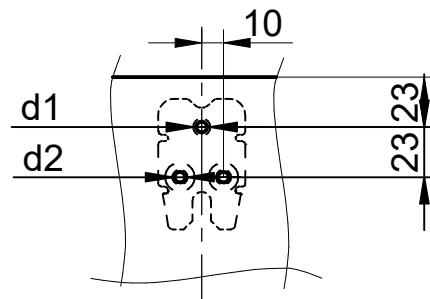
Réf. K360

Détail du perçage sur la traverse



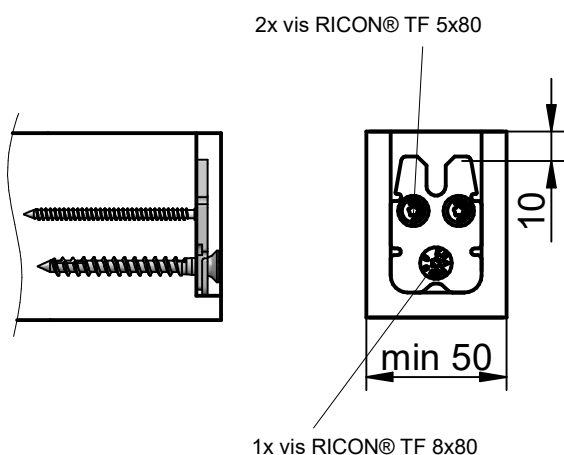
- d1...pré-percer Ø 5mm, prof. 30mm
- d2...pré-percer Ø 5mm, prof. 10mm sur les résineux
- d2...pré-percer Ø 3,5mm, prof. 50mm sur les feuillus

Détail du perçage sur le poteau

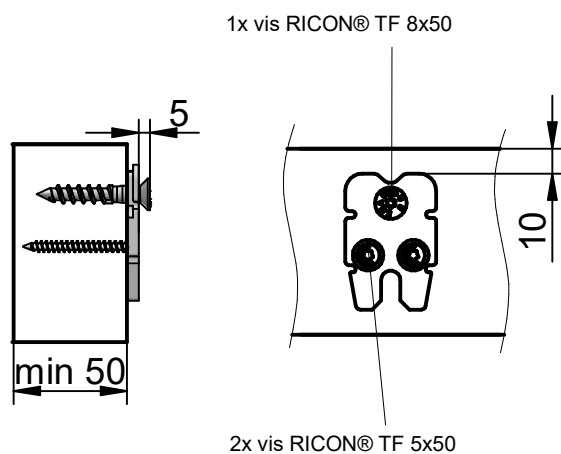


- d1...pré-percer Ø 5mm, prof. 30mm
- d2...pré-percer Ø 5mm, prof. 10mm

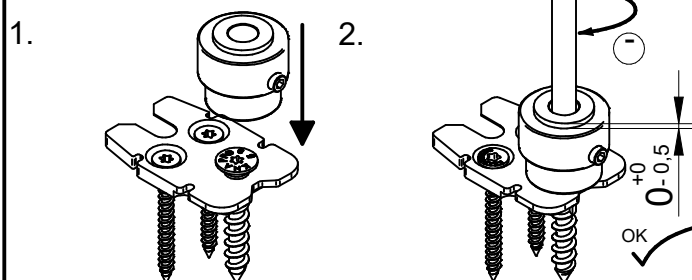
Détail du vissage sur la traverse



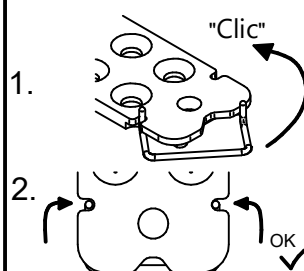
Détail du vissage sur le poteau



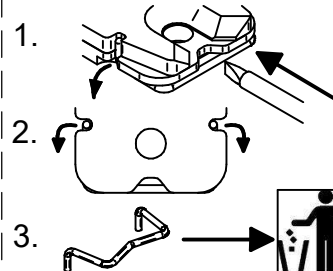
Régler la vis d'accroche

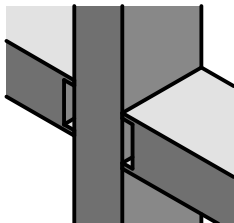


Mettre la goupille en place



Déverrouiller la goupille



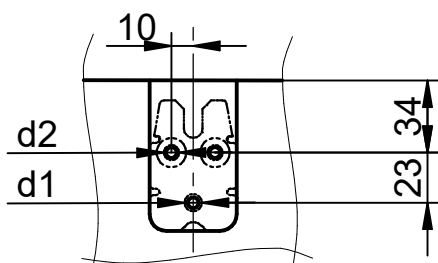


RICON® 60/40 DA

Réf. K160/48;
K160/58; K160/78

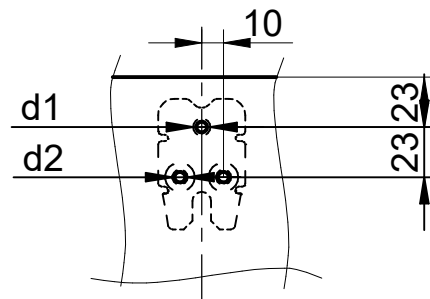
Assemblage doublé
Assemblage poteau - traverse

Détail du perçage sur la traverse



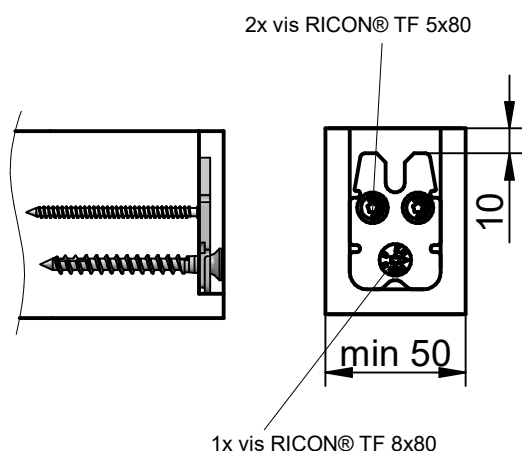
- d1...pré-percer Ø 5mm, prof. 30mm
- d2...pré-percer Ø 5mm, prof. 10mm sur les résineux
- d2...pré-percer Ø 3,5mm, prof. 50mm sur les feuillus

Détail du perçage sur le poteau

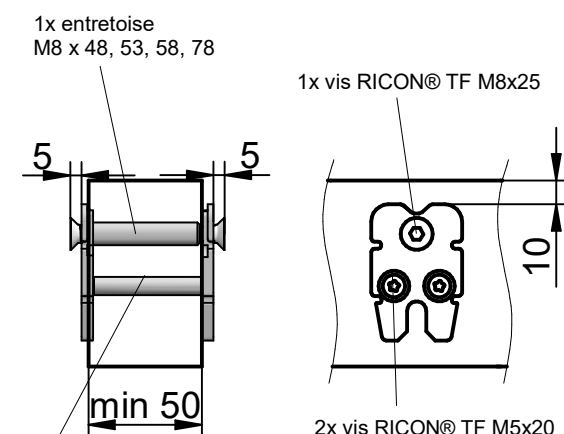


- d1...perçage traversant Ø 10mm,
- d2...perçage traversant Ø 8mm,

Détail du vissage sur la traverse



Détail du vissage sur le poteau

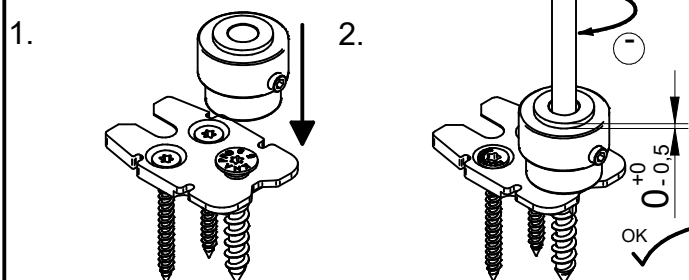


2x vis RICON® TF M5x20

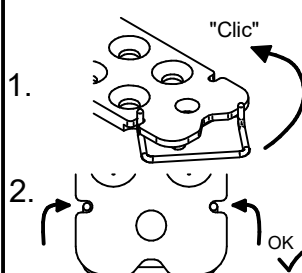
2x entretoises
M5 x 48, 53, 58, 78

Épaisseur de poteau [mm]	Longueur d'entretoise [mm]
50	48
56	53
60	58
80	78

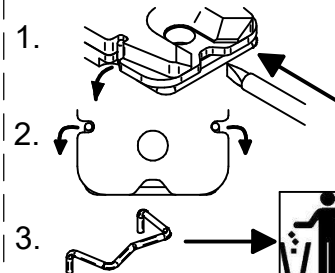
Régler la vis d'accroche

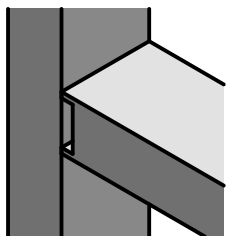


Mettre la goupille en place



Déverrouiller la goupille



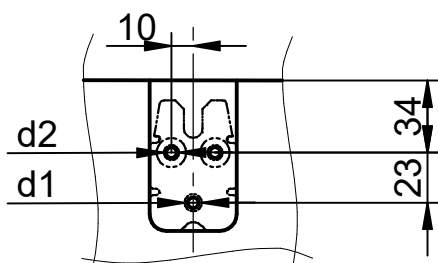


RICON® 60/40 EAR

Assemblage simple simple avec insert
Assemblage poteau - traverse

Réf. Nr. K260

Détail du perçage sur la traverse

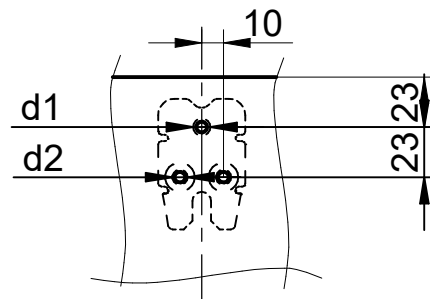


d1...pré-percer Ø 5mm, prof. 30mm

d2...pré-percer Ø 5mm, prof. 10mm sur les résineux

d2...pré-percer Ø 3,5mm, prof. 50mm sur les feuillus

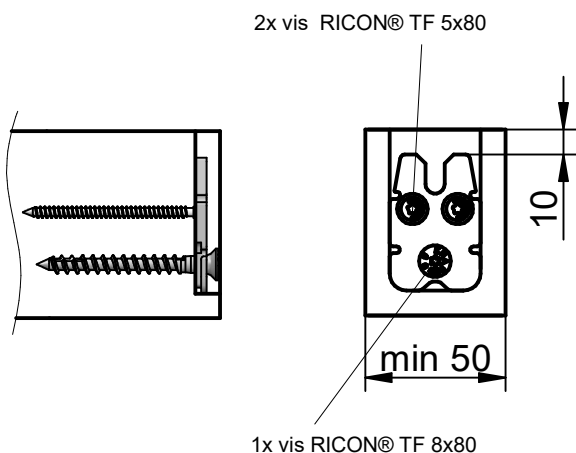
Détail du perçage sur le poteau



d1...pré-percer Ø 12mm, prof. 20mm

d2...pré-percer Ø 8mm, prof. 15mm

Détail du vissage sur la traverse



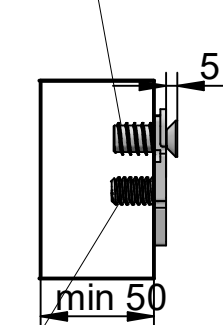
2x vis RICON® TF 5x80

1x vis RICON® TF 8x80

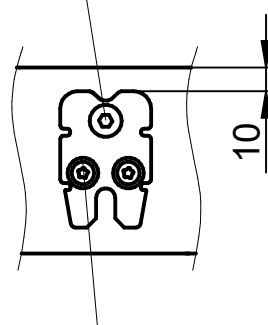
Détail du vissage sur le poteau

1x insert à visser M8x18

1x vis RICON® TF M8x25

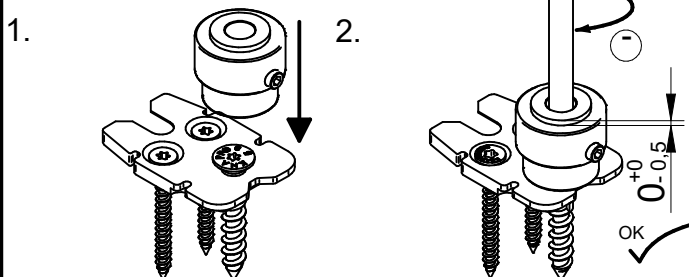


2x inserts à visser M5x14

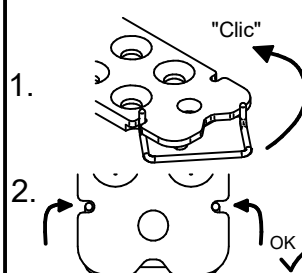


2x vis RICON® TF M5x20

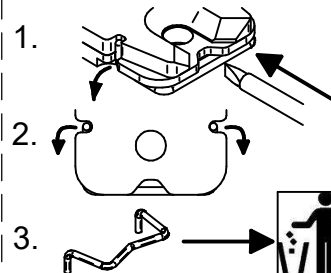
Régler la vis d'accroche



Mettre la goupille en place



Déverrouiller la goupille

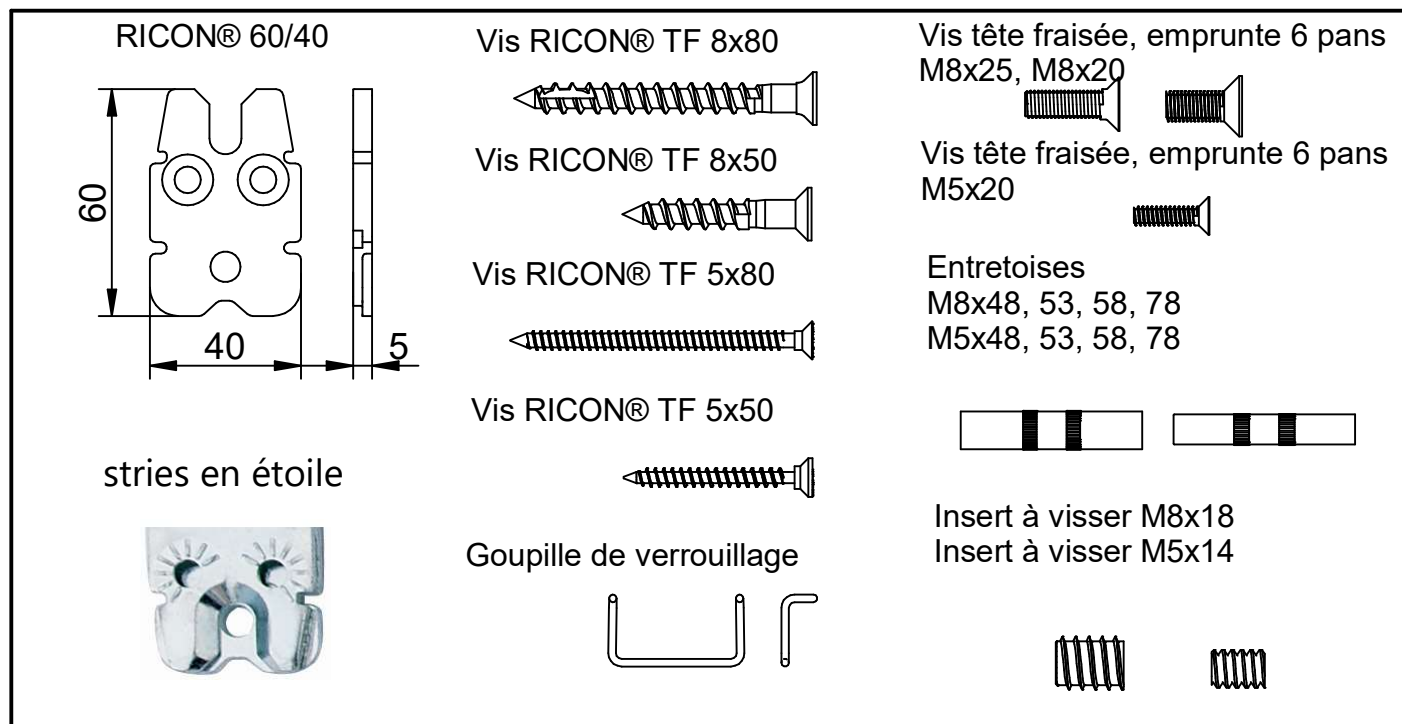


Notice de montage

RICON® 60/40



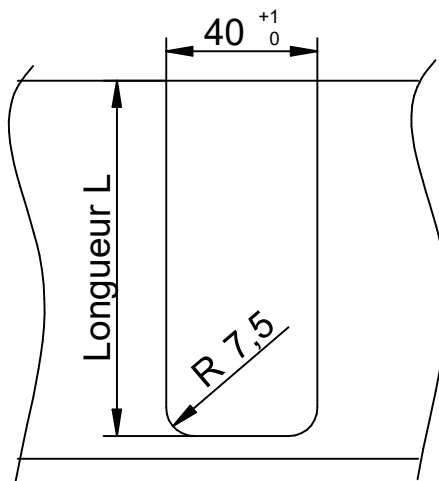
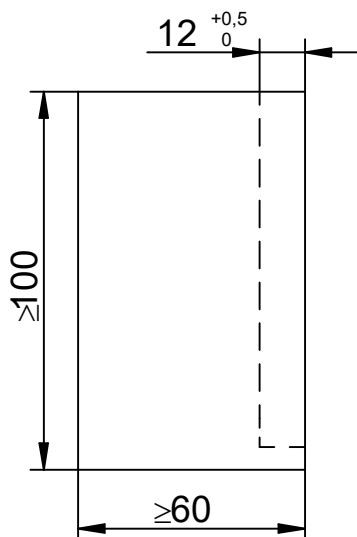
Assemblage de poutre secondaire sur principale
avec Évaluation Technique Européenne (ETE)



Assemblage simple et doublé

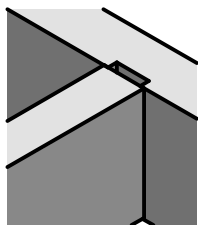
Poutre secondaire sur principale

Détails du fraisage poutre principale



Long. de fraisage L sur poutre principale, en relation avec la hauteur de la poutre secondaire HN :

Hauteur [mm]	Longueur L [mm]
100	90
120	110
140	130



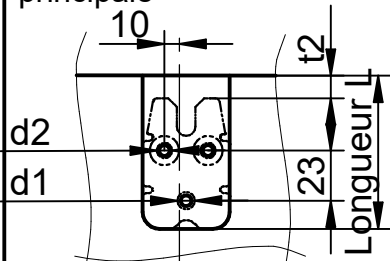
RICON® 60/40 EA

Assemblage simple

Poutre secondaire sur principale

Réf. Nr. K360

Détail du perçage sur la poutre principale

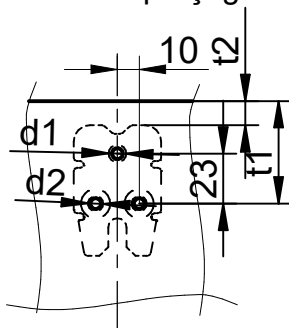


d1...pré-percer Ø 5mm, prof. 30mm

d2...pré-percer Ø 5mm, prof. 10mm sur les résineux

d2...pré-percer Ø 3,5mm, prof. 50mm sur les feuillus

Détail du perçage sur la poutre secondaire



d1...pré-percer Ø 5mm, prof. 30mm

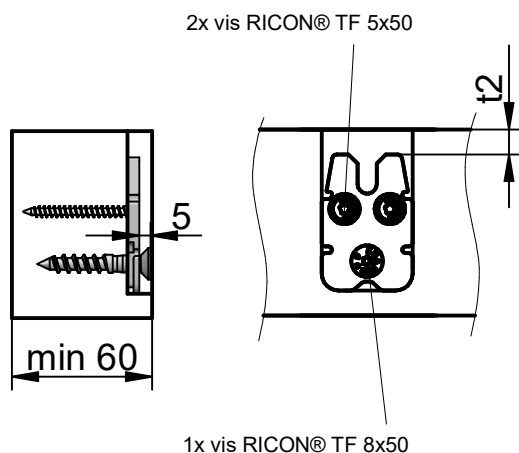
d2...pré-percer Ø 5mm, prof. 10mm sur les résineux

d2...pré-percer Ø 3,5mm, prof. 50mm sur les feuillus

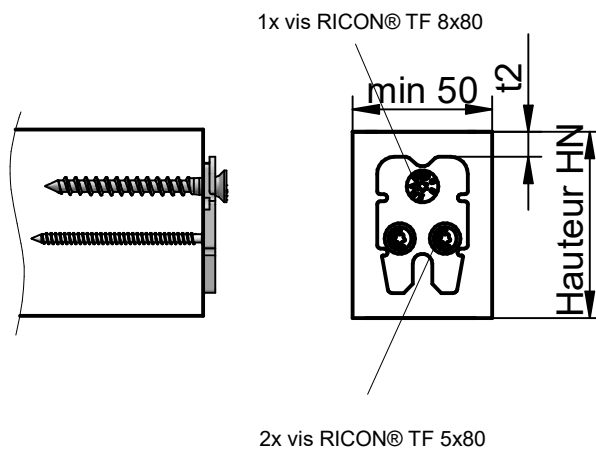
Distance de perçage t1 et t2, en relation avec la hauteur de la pièce secondaire HN

Hauteur HN [mm]	Distance t1 [mm]	Distance t2 [mm]
100	66	30
120	86	50
140	106	70

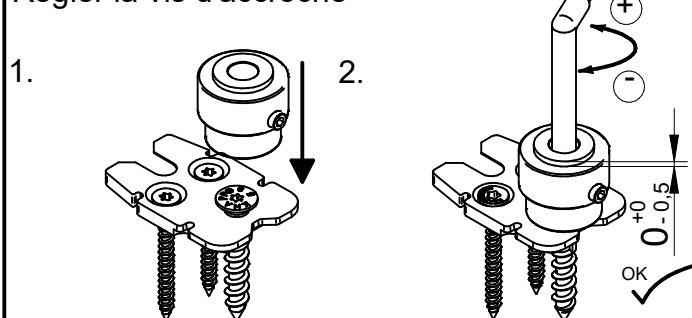
Détail du vissage sur la poutre principale



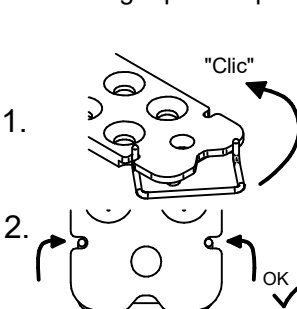
Détail du vissage sur la poutre secondaire



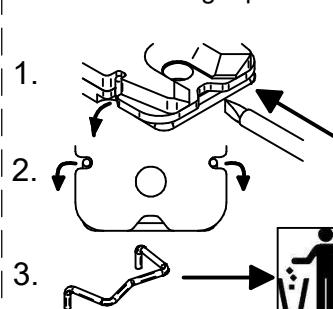
Régler la vis d'accroche

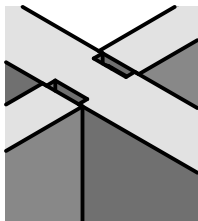


Mettre la goupille en place



Déverrouiller la goupille

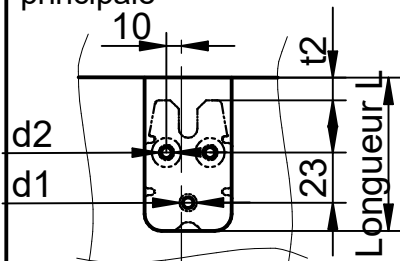




Réf. Nr. K160/48;
K160/58; K160/78

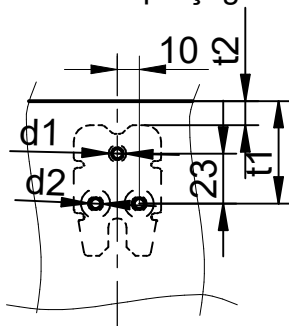
Assemblage doublé
Poutre secondaire sur principale

Détail du perçage sur la poutre principale



d1...perçage traversant Ø 10mm,
d2...perçage traversant Ø 8mm

Détail du perçage sur la poutre secondaire



d1...pré-percer Ø 5mm, prof. 30mm
d2...pré-percer Ø 5mm, prof. 10mm sur les résineux
d2...pré-percer Ø 3,5mm, prof. 50mm sur les feuillus

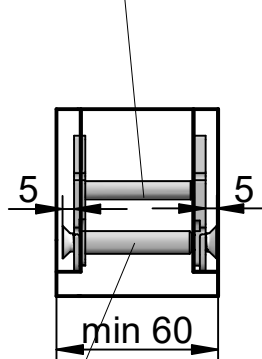
Distance de perçage t1 et t2, en relation avec la hauteur de la pièce secondaire HN

Hauteur HN [mm]	Distance t1 [mm]	Distance t2 [mm]
100	66	30
120	86	50
140	106	70

Détail du vissage sur la poutre principale

2x entretoises
M5 x 48, 53, 58, 78

2x vis RICON® TF M5x20



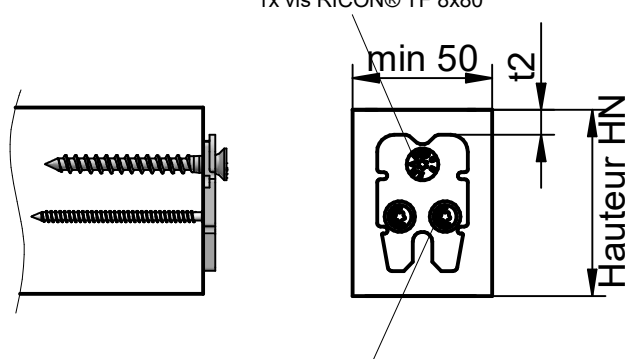
1x entretoise
M8 x 36, 48, 53, 58, 78

1x vis RICON® TF M8x25

Ép. poutre principale [mm]	Longueur d'entretoise [mm]
60	36
80	53

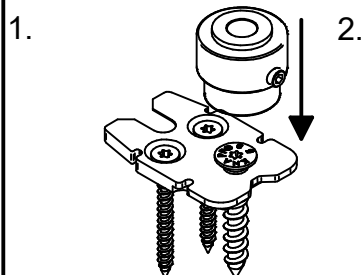
Détail du vissage sur la poutre secondaire

1x vis RICON® TF 8x80

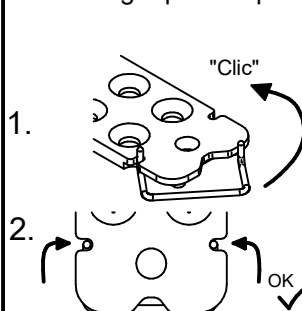


2x vis RICON® TF 5x80

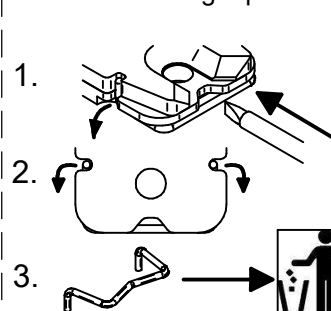
Régler la vis d'accroche

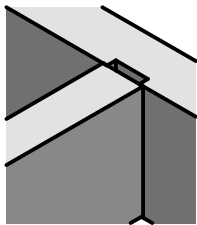


Mettre la goupille en place



Déverrouiller la goupille





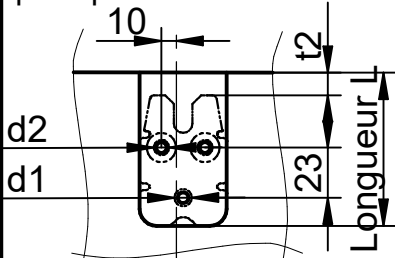
Réf. K260

Notice de montage

RICON® 60/40 EAR

Assemblage simple avec insert
Poutre secondaire sur principale

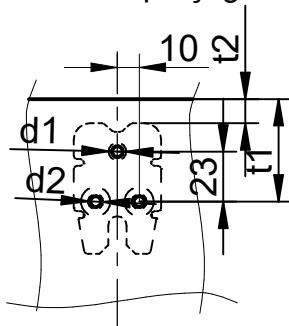
Détail du perçage sur la poutre principale



d1...pré-percer Ø 12mm, prof. 20mm

d2...pré-percer Ø 8mm, prof. 15mm

Détail du perçage sur la poutre secondaire



d1...pré-percer Ø 5mm, prof. 30mm

d2...pré-percer Ø 5mm, prof. 10mm sur les résineux

d2...pré-percer Ø 3,5mm, prof. 50mm sur les feuillus

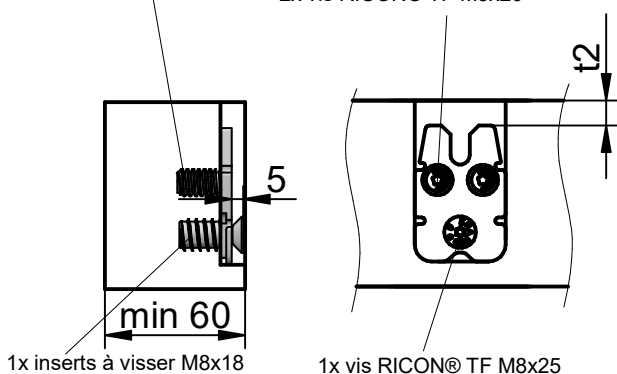
Distance de perçage t1 et t2, en relation avec la hauteur de la pièce secondaire HN

Hauteur HN [mm]	Distance t1 [mm]	Distance t2 [mm]
100	66	30
120	86	50
140	106	70

Détail du vissage sur la poutre principale

2x inserts à visser M5x14

2x vis RICON® TF M5x20

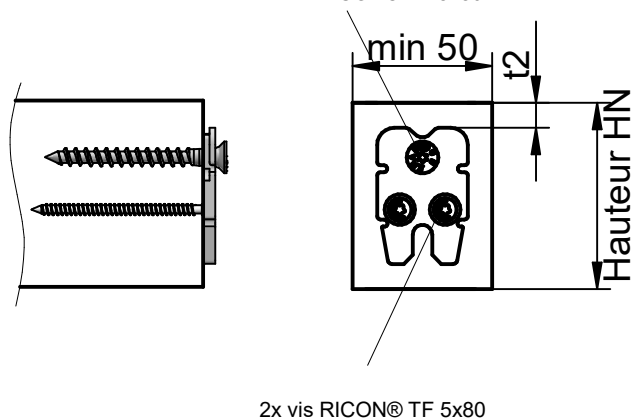


1x inserts à visser M8x18

1x vis RICON® TF M8x25

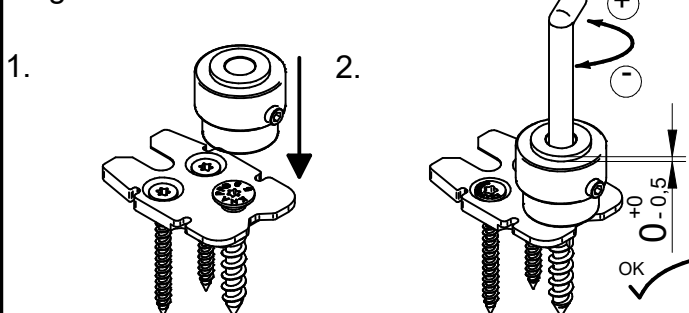
Détail du vissage sur la poutre secondaire

1x vis RICON® TF 8x80

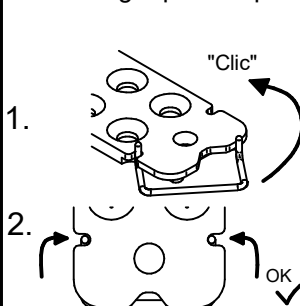


2x vis RICON® TF 5x80

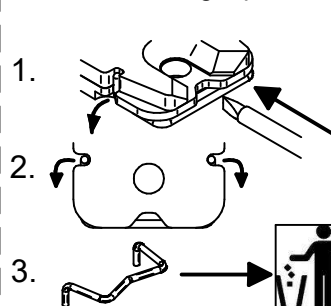
Régler la vis d'accroche



Mettre la goupille en place



Déverrouiller la goupille





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