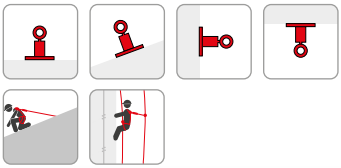
rothoblaas

For building and working safely

H-RAIL
INSTALLATION MANUAL



S235 GL24H CLT C20/25 rothoblaas CERTIFIED SUPPORTS TOWER



EN 795:2012 D
CEN/TS 16415:013

AS/NZS 1991.2:2001 /SPAN

⚠ read also:

H-RAIL Installation Manual + **H-RAIL** Safety Regulations =

EN 795:2012 D | CEN/TS 16415:2013 | AS/NZS 1891.2:2001

SAFETY INSTRUCTIONS

IT L'installazione e/o utilizzo del prodotto Rotho Blaas è permessa solo a personale esperto previa lettura e comprensione del 1 **MANUALE D'INSTALLAZIONE** e delle 2 **NORME DI SICUREZZA** nella lingua del relativo Paese di utilizzo.

DE Die Installation und/oder die Verwendung des Produkts von Rotho Blaas ist ausschließlich Fachpersonal vorbehalten, nachdem es das 1 **INSTALLATIONSHANDBUCH** und die 2 **SICHERHEITSVORSCHRIFTEN** in der Sprache des Verwendungslandes gelesen und verstanden hat.

EN Only qualified personnel may install and/or use this Rotho Blaas product, after reading and understanding the 1 **INSTALLATION MANUAL** and the 2 **SAFETY REGULATIONS**, in the language of the country of use.

ES La instalación y/o el uso del producto Rotho Blaas solo están permitidos al personal experto después de haber leído y comprendido el 1 **MANUAL DE INSTALACIÓN** y las 2 **NORMAS DE SEGURIDAD** en el idioma del país en el que se utiliza.

FR Seul le personnel expérimenté peut installer et/ou utiliser ce produit Rotho Blaas, après avoir lu et compris le 1 **MANUEL D'INSTALLATION** et les 2 **NORMES DE SÉCURITÉ** dans la langue du pays où le produit est utilisé.

PT A instalação e/ou utilização do produto Rotho Blaas só é permitida a pessoal especializado após a leitura e compreensão do 1 **MANUAL DE INSTALAÇÃO** e das 2 **NORMAS DE SEGURANÇA** na língua do respetivo país onde será utilizado.

RU К установке и (или) использованию продукции Rotho Blaas допускается только высококвалифицированный персонал после обязательного прочтения и усвоения 1 **РУКОВОДСТВО ПО УСТАНОВКЕ** и 2 **ПРАВИЛ ТЕХНИКИ БЕЗОПАСНОСТИ** на языке соответствующей страны использования.

CS Instalace a/nebo použití výrobku Rotho Blaas je povoleno pouze odborným osobám po přečtení a pochopení 1 **NÁVODU K INSTALACI** a 2 **BEZPEČNOSTNÍCH PŘEDPISŮ** v jazyce příslušné země použití.

DA Kun kvalificeret personale må installere og/eller bruge dette Rotho Blaas-produkt efter at have læst og forstået den 1 **INSTALLATIONSMANUALEN** og 2 **SIKKERHEDSFORSKRIFTERNE** på brugerens sprog.

EL Η εγκατάσταση ή/και η χρήση του προϊόντος Rotho Blaas επιτρέπεται μόνο σε έμπειρο προσωπικό που έχει διαβάσει και κατανοήσει τις 1 **ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ** και τους 2 **ΚΑΝΟΝΙΣΜΟΥΣ ΑΣΦΑΛΕΙΑΣ** στη γλώσσα της σχετικής χώρας χρήσης.

ET Antud Rotho Blaasi toodet tohib paigaldada ja / või kasutada ainult kvalifitseeritud personal, kes on lugenud kasutamise riigi keeles 1 **PAIGALDUSJUHENDIS** ja 2 **OHUTUSEESKIRJU** ning nendest aru saanud.

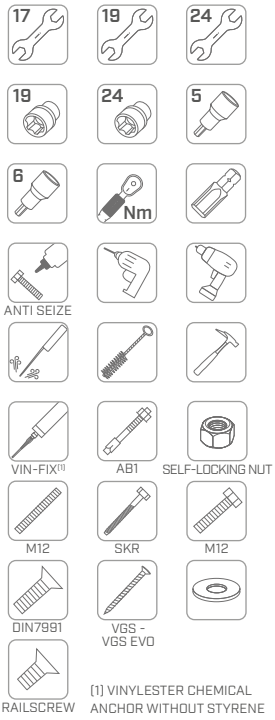
FI Tämän Rotho Blaas -tuotteen asennus ja/tai käyttö on sallittu vain asiantuntevan henkilöstön toimesta sen jälkeen, kun he ovat lukeneet ja ymmärtäneet 1 **ASENNUSOHJEIDEN** ja 2 **TURVALLISUUSMÄÄRÄYKSET** käyttömaan kielellä.

HR Postavljanje i/ili uporaba proizvoda Rotho Blaas dopuštena je samo stručnom osoblju koje je prethodno pročitalo i razumjelo 1 **UPUTA ZA MONTAŽU** kao i 2 **PROPISE O SIGURNOSTI** na jeziku zemlje uporabe.

HU A Rotho Blaas terméket kizárólag hozzáértő személyzet szerelheti be és/vagy használhatja, az adott országnak megfelelő nyelvű 1 **TELEPÍTÉSI KÉZIKÖNYV** és 2 **BIZTONSÁGI SZABÁLYOK** elolvasása és megértése után.

1 **H-RAIL** Installation Manual + 2 **H-RAIL** Safety Regulations

TOOLS



(1) VINYLESTER CHEMICAL ANCHOR WITHOUT STYRENE

INFORMATIONS

Type

Rothoblaas

H-RAIL

Related standard(s)

EN 795:2012 D

CEN/TS 16415:2013

Name or logo of manufacturer/distributor

ROTHOBLAAS

Batch number and year of manufacture

N/MM/YYYY

(N = lot number - MM = month - YYYY = year)

IT ⚠ Verificare idoneità statica del sottofondo di montaggio!

DE ⚠ Die statische Eignung des Montageuntergrundes sicherstellen!

EN ⚠ Check the static suitability of the installation substrate!

ES ⚠ ¡Compruebe la idoneidad estática del sustrato de montaje!

FR ⚠ Vérifer l'adéquation statique du substrat d'assemblage!

SAFETY INSTRUCTIONS

IS Aðeins þjálfað starfsfólk má setja upp og/eða nota þessa Rotho Blaas-vöru eftir að hafa lesið og skilið 1 **UPPSETNINGARHANDBÓKAR** og 2 **REGLUGERÐIR UM ÖRYGGI** á tungumáli þess lands sem varan er notuð í.

LT Produktą „Rotho Blaas" montuoti ir (arba) naudoti leidžiama tik patyrusiam personalui, prieš tai perskaičius ir supratus 1 **MONTAVIMO VADOVE** ir 2 **SAUGOS TAISYKLES** atitinkamos šalies, kurioje eksploatuojama, kalba.

LV Rotho Blaas produkta uzstādīšana un/vai lietošana ir atļauta tikai pieredzējušam darbiniekam pēc 1 **UZSTĀDĪŠANAS ROKASGRĀMATĀ** un 2 **DROŠĪBAS NOTEIKUMU** izlasīšanas un izpratnes attiecīgās valsts valodā, kurā produkts tiks lietots.

NL De installatie en/of het gebruik van het product Rotho Blaas is voorbehouden aan uitsluitend vakbekwaam personeel dat de 1 **INSTALLATIEHANDLEIDING** en de 2 **VEILIGHEIDSVOORSCHRIFTEN** in de taal van het land van gebruik gelezen en begrepen heeft.

NO Dette Rotho Blaas-produktet skal bare installeres og/eller brukes av kvalifisert personell som har lest og forstått 1 **INSTALLASJONSHÅNDBOKEN** og 2 **SIKKERHETSFORSKRIFTENE**, på det språket som brukes i landet produktet anvendes.

PL Instalacji i/lub użytkowania produktu Rotho Blaas może dokonać wyłącznie doświadczony personel, który przeczytał i zrozumiał 1 **INSTRUKCJI INSTALACJI** oraz normy 2 **BEZPIECZEŃSTWA** w języku kraju użytkowania.

RO Instalarea și/sau utilizarea produsului Rotho Blaas este permisă numai personalului expert, după ce a citit și înțeles 1 **MANUALUL DE INSTALARE** și 2 **NORMELE DE SIGURANȚĂ** în limba țării de utilizare a produsului.

SK Inštalácia a/alebo používanie produktu Rotho Blaas je povolené len skúsenému personálu po predchádzajúcom prečítaní a pochopení 1 **NÁVODE NA INŠTALÁCIU** a 2 **BEZPEČNOSTNÝCH NORIEM** v jazyku príslušnej krajiny používania.

SL Ta proizvod Rotho Blaas lahko namesti in/ali uporablja samo izkušeno osebje, ki je prebralo in razume vse 1 **NAVODILIH ZA VGRADNJO** in 2 **VARNOSTNE PREDPISE** v jeziku države njegove uporabe.

SV Endast erfaren personal får installera och/eller använda den här Rotho Blaas-produkten efter att 1 **INSTALLATIONSANVISNINGARNA** och 2 **SÄKERHETSFÖRESKRIFTER** har lästs igenom på språket i installationslandet.

TR Sadece yetkili personel, 1 **KURULUM KILAVUZUNDA** ve 2 **GÜVENLİK MEVZUATINI** ürünün kullanıldığı ülke dilinde okuyup anladıktan sonra Rotho Blaas ürününü kurabilir ve/veya kullanabilir.

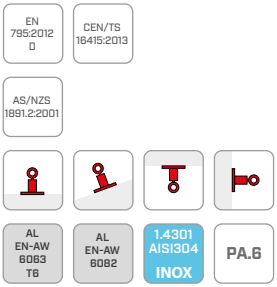
JA Rotho Blaas製品の施工および使用は、資格を有する専門家のみに許可されています。施工および使用の前に、必ず使用する国の言語で1**設置マニュアル**と2**安全規則をお読み下さい**。

ZH 只有具备合格资质的人员在阅读并理解以使用国的语言编写的1**安装手册和**2**安全规程后才能安装和**/或使用该Rotho Blaas产品。

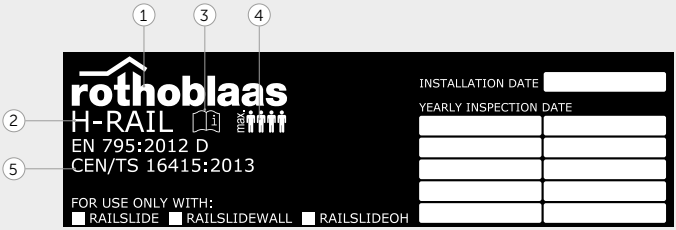
AR يمكن فقط للفنيين المؤهلين باستخدام أو تركيب منتج Rotho Blaas بعد قراءة وفهم **دليل التثبيت** 1 **نظر السلامة** 2 بلغة البلد المستخدم فيها المنتج

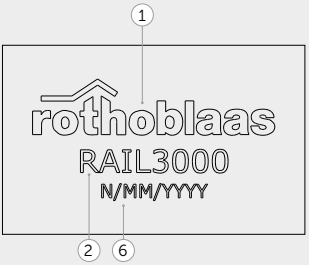


PRODUCT INFORMATIONS





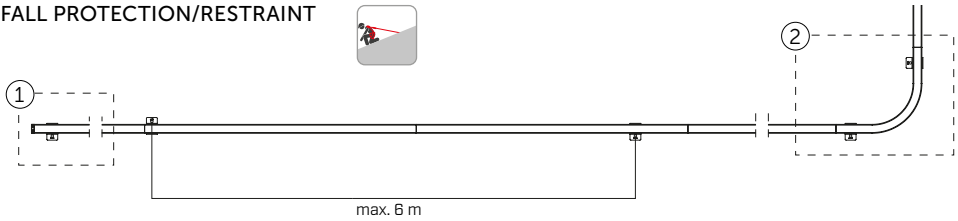




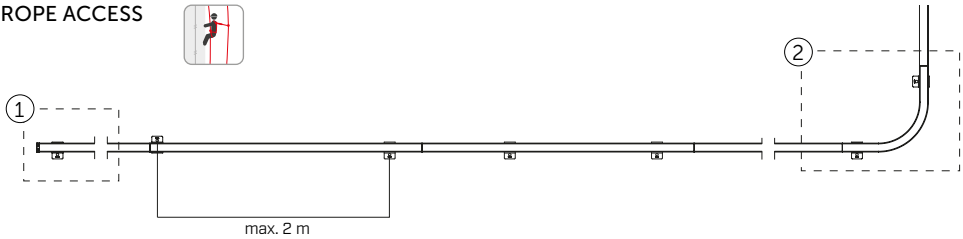
1. Manufacturer
2. Product name
3. Read the following instructions
4. Number of max. users allowed
5. Standards
6. Serial number

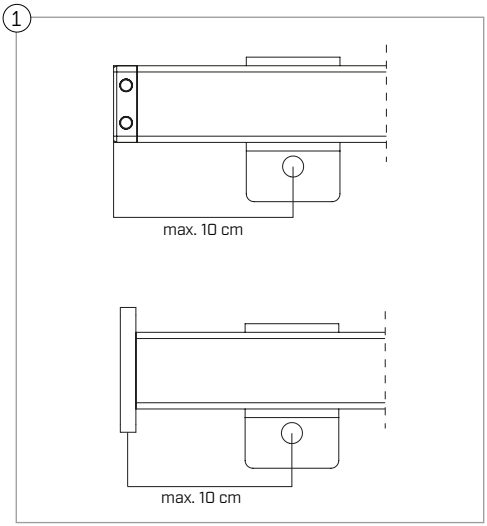
TECHNICAL DATA

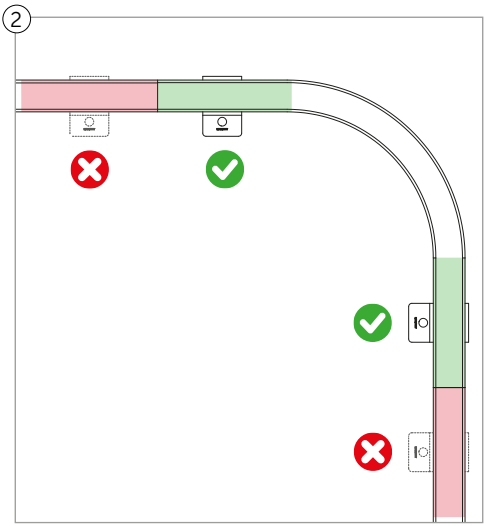
FALL PROTECTION/RESTRAINT

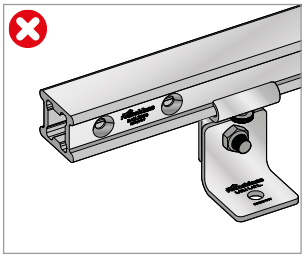


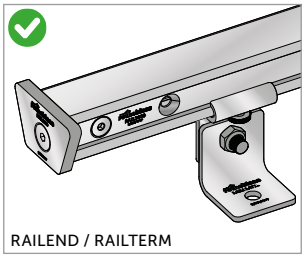
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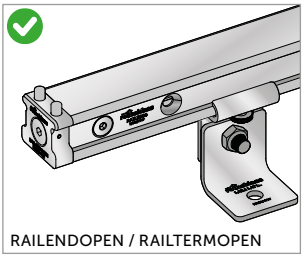








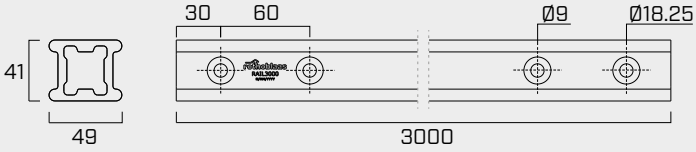
RAILEND / RAILTERM

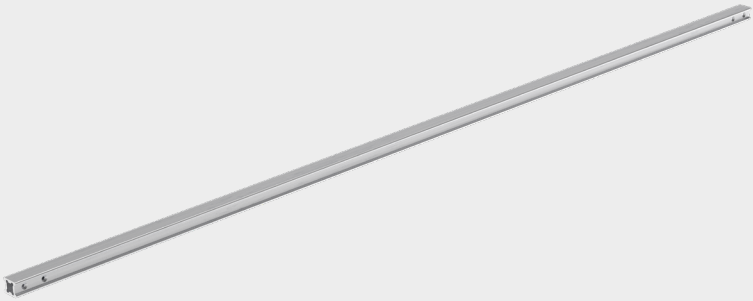


RAILENDOPEN / RAILTERMOPEN

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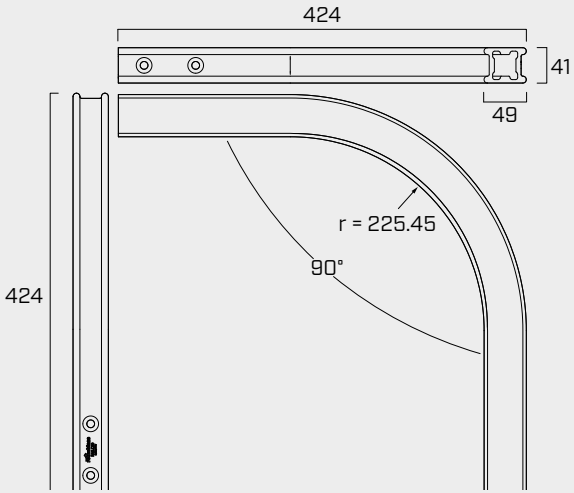
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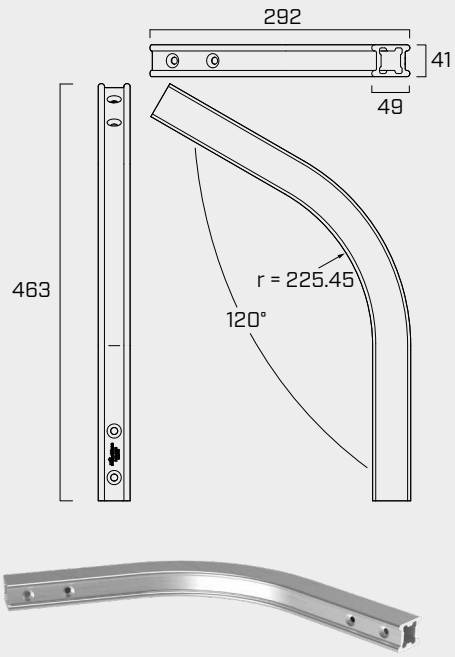
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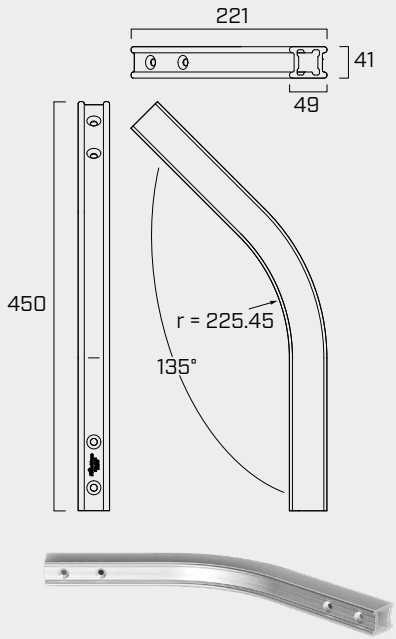
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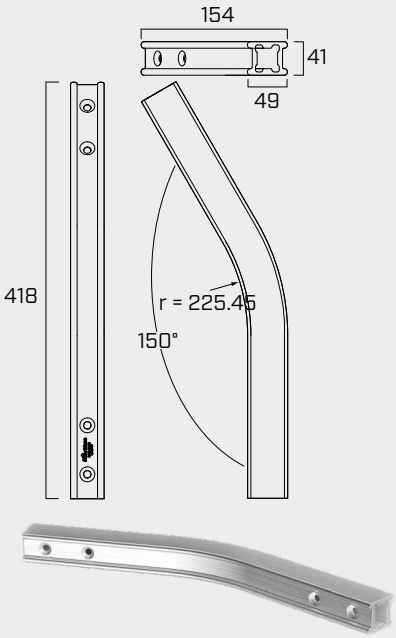
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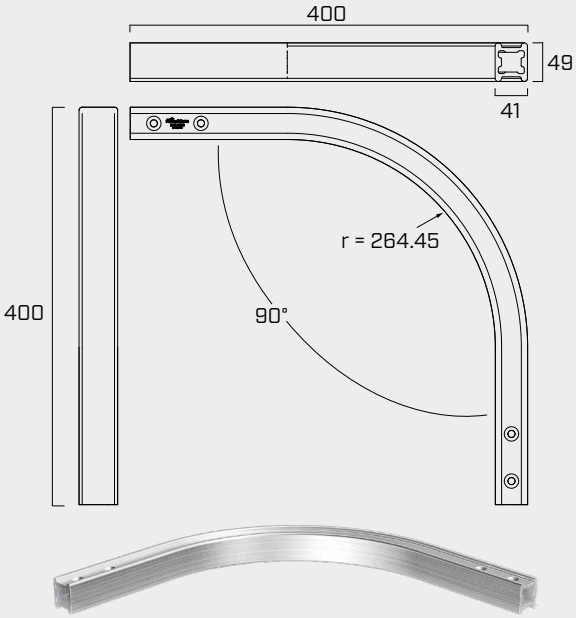
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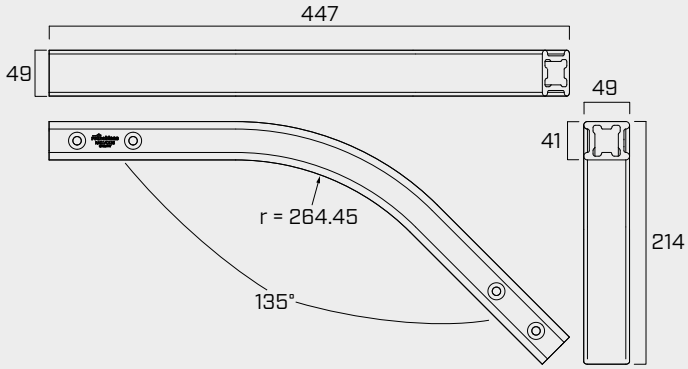
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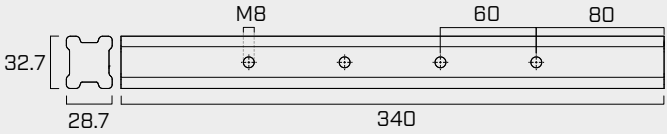
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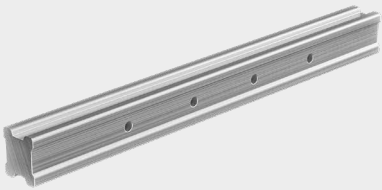




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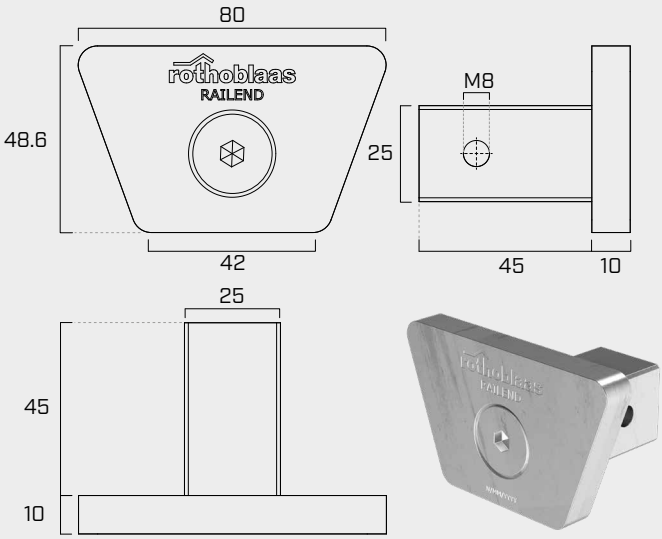




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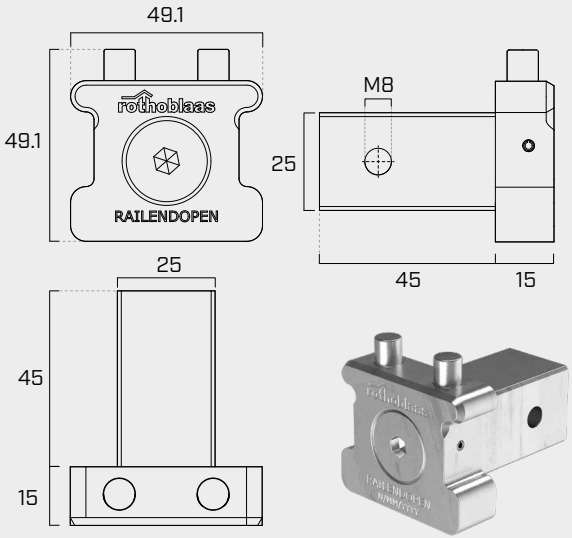
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RAILENDOPEN - RAILENDOPEN A4

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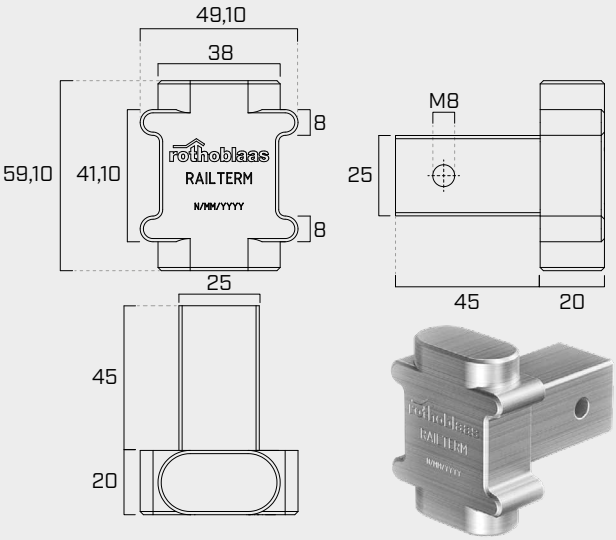
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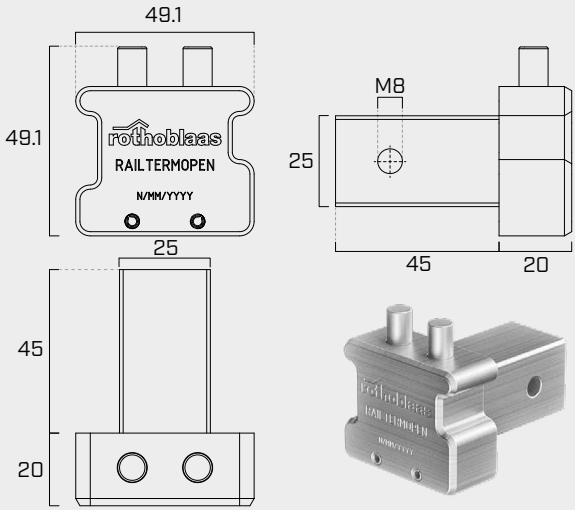
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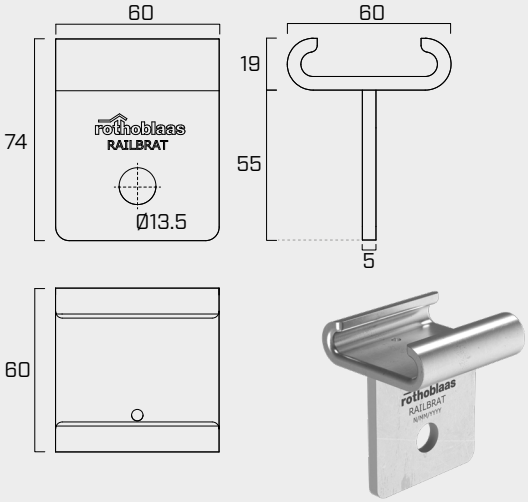
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RAILBRAT - RAILBRAT A4

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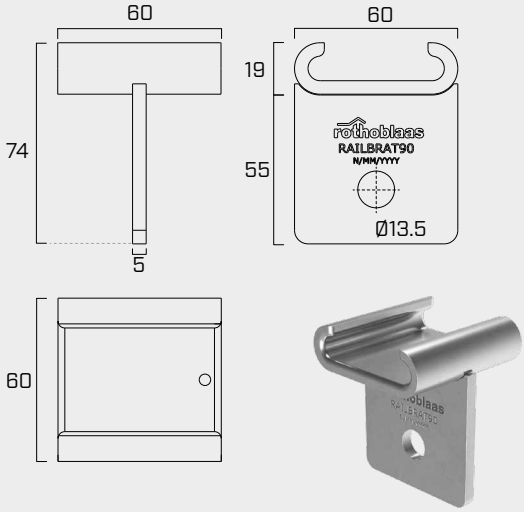
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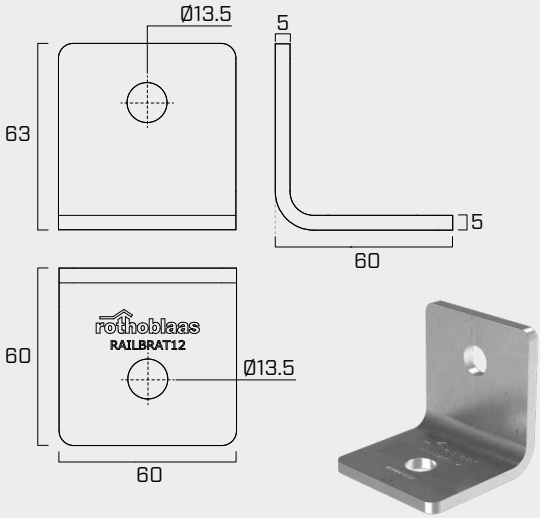
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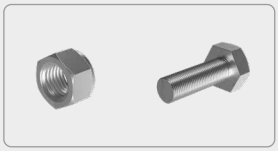


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1.4301 AISI304 INOX
RAILBRAT12

1.4301 AISI304 INOX
RAILBRAT12A4



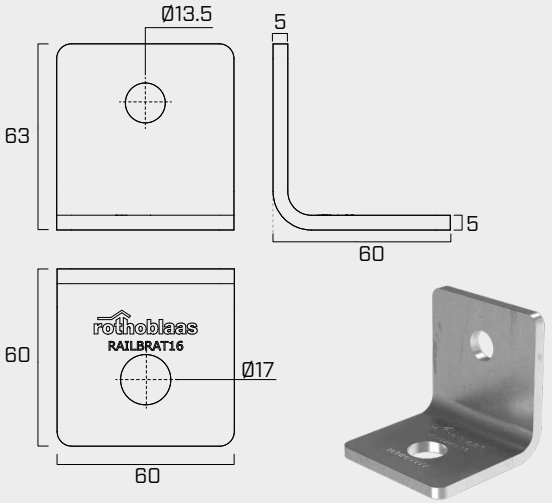


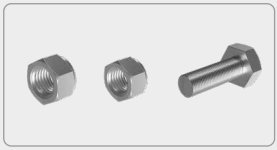
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1.4401 AISI316 INOX
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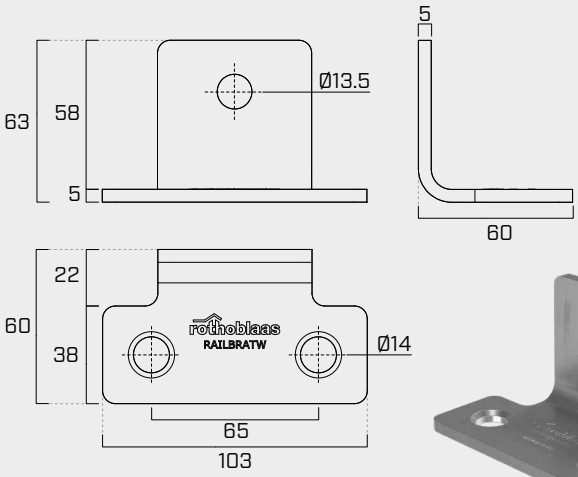


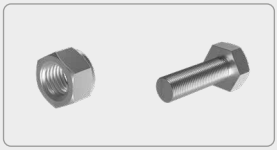
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RAILBRATW - RAILBRATW A4

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RAILBRAT12

1.4401 AISI316 INOX
RAILBRAT12A4



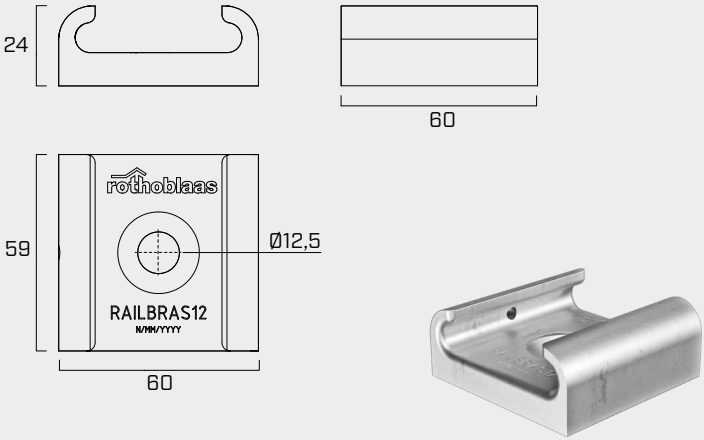


INCLUDED IN THE PACKAGE

RAILBRAS12 - RAILBRAS12 A4

1.4301 AISI304 INOX RAILBRAS12

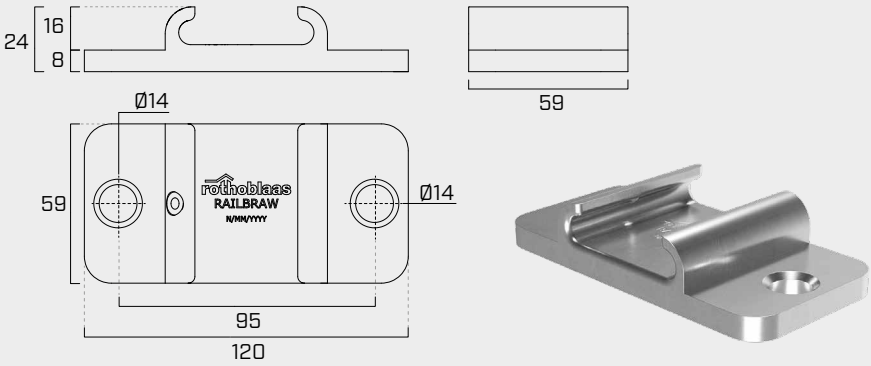
1.4401 AISI316 INOX RAILBRAS12A4



RAILBRAW - RAILBRAW A4

1.4301 AISI304 INOX RAILBRAW

1.4401 AISI316 INOX RAILBRAWA4

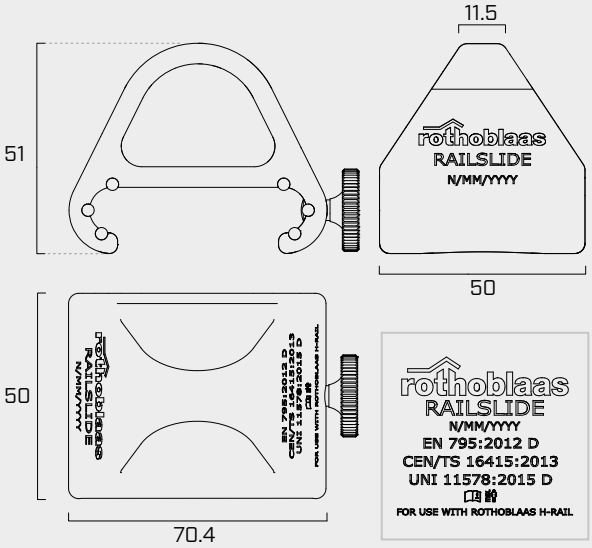


RAILSLIDE - RAILSLIDE A4

PA.6

1.4301 AISI304 INOX — RAILSLIDE

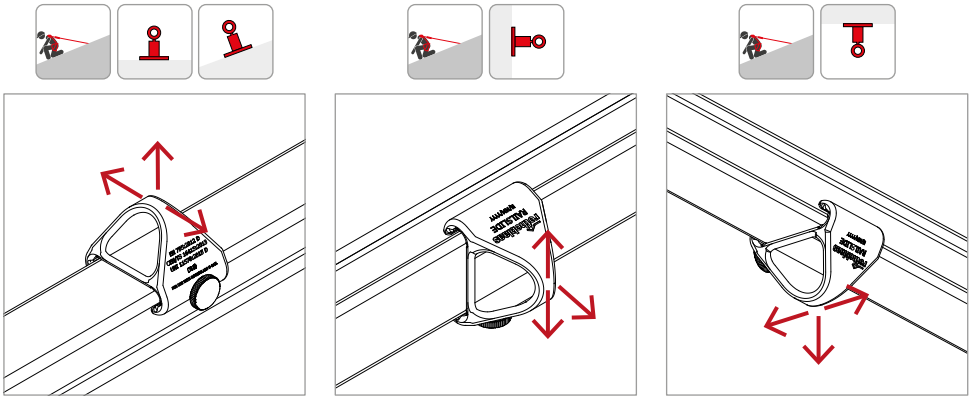
1.4401 AISI316 INOX — RAILSLIDEA4





INCLUDED IN THE PACKAGE
RAILOCKSCREW





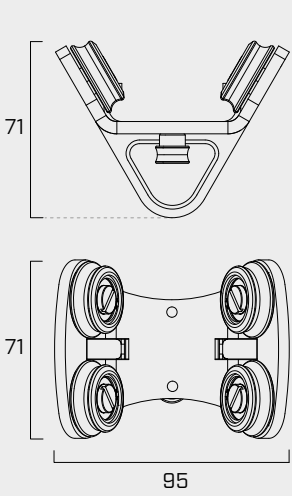
RAILSLIDEOH - RAILSLIDEOH A4

1.4301 AISI304 INOX
RAILSLIDEOH

1.4401 AISI316 INOX
RAILSLIDEOHA4

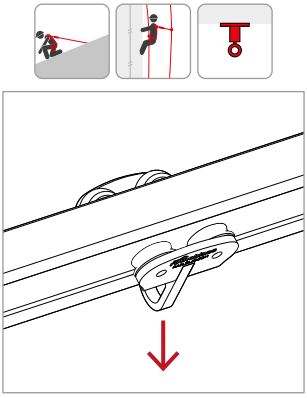


INCLUDED IN THE PACKAGE





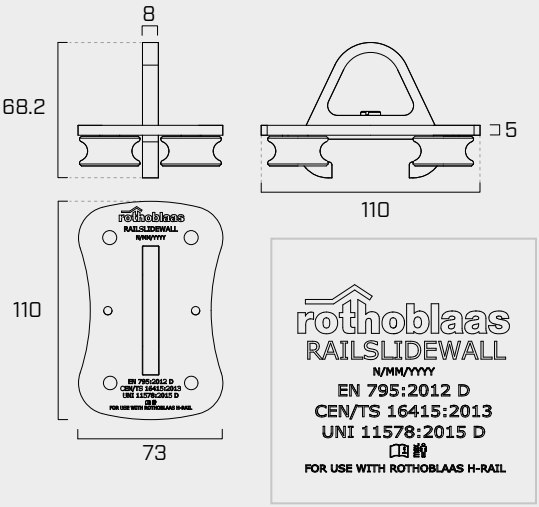




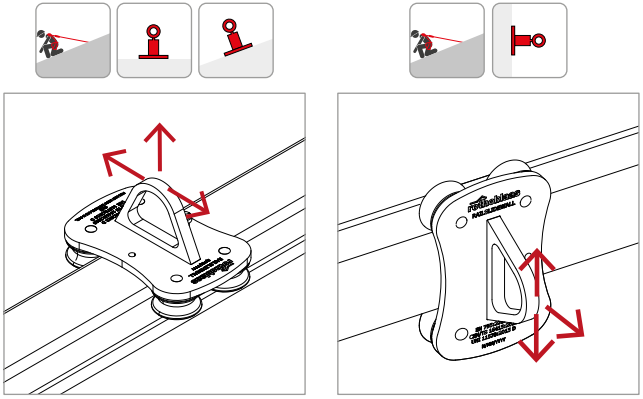
RAILSLIDEWALL - RAILSLIDEWALL A4

1.4301 AISI304 INOX
RAILSLIDEWALL

1.4401 AISI316 INOX
RAILSLIDEWALLA4





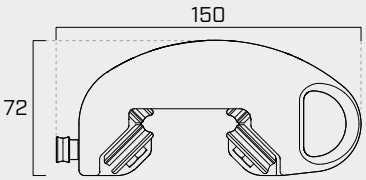


RAILSLIDERA

AL EN-AW 6082

1.4301 AISI304 INOX

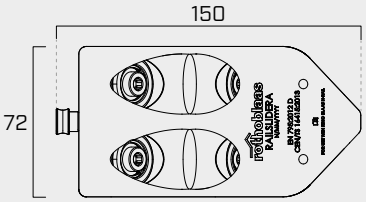
RAILSLIDERA







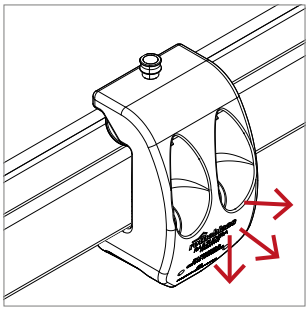
INCLUDED IN THE PACKAGE







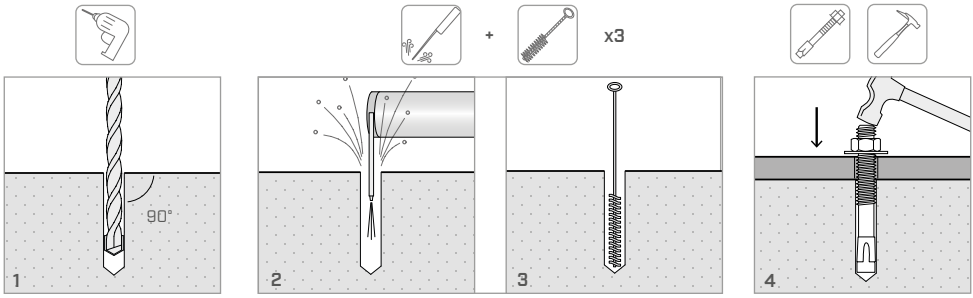


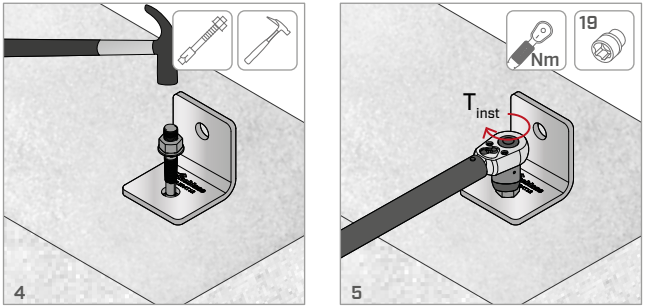


RAILBRAT12 / RAILBARAT12 A4

C20/C25

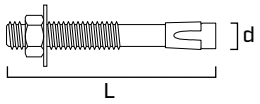
AB1

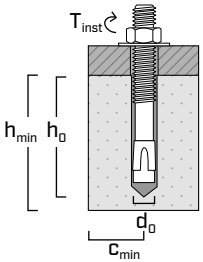




AB112100

AB1
ETA-17/0481





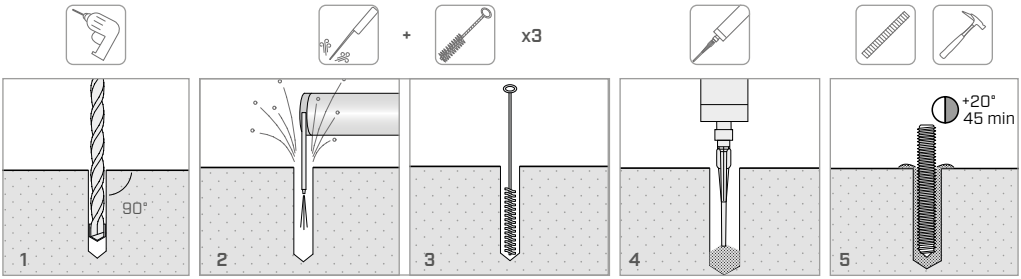
d	=	12	mm	d_0	=	12	mm
L	=	100	mm	h_0	≥	85	mm
T_{inst}	=	60	Nm	h_{min}	=	140	mm
				c_{min}	=	70	mm

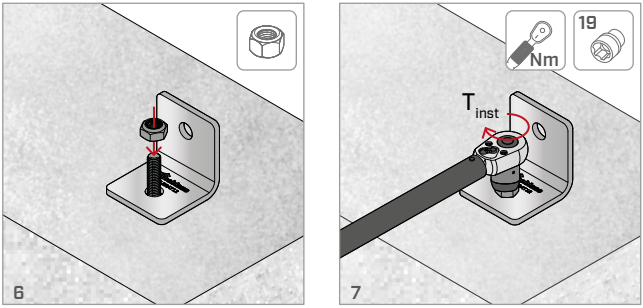
CONCRETE INSTALLATION

RAILBRAT12 / RAILBARAT12 A4

C20/C25

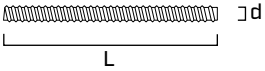
M12 | 12 | Nm | 19

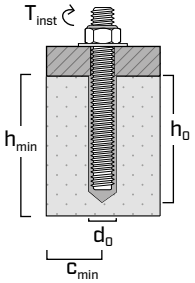




M12 x L - 5.8

VIN-FIX
ETA 20/0363





d	=	M12		d_0	=	14 mm
L	≥	100 mm		h_0	=	L - 30
T_{inst}	=	40 Nm		h_{min}	=	h_0 + 30 mm
				c_{min}	=	60 mm

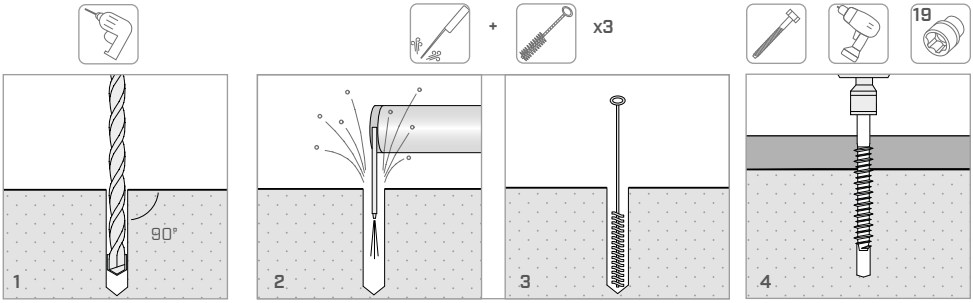
RAILBRAT12 / RAILBARAT12 A4

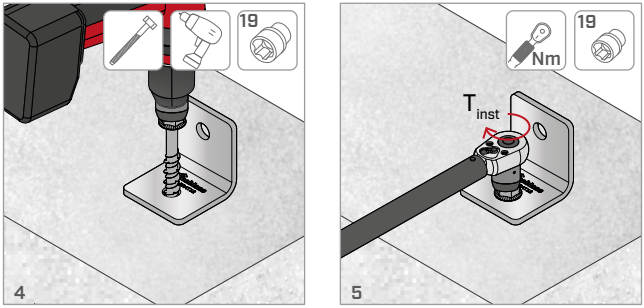
C20/C25

SKR

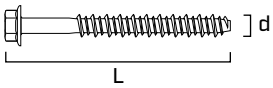
19

Nm





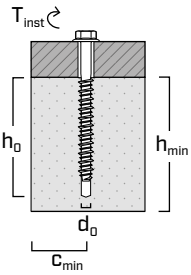
SKRCE1290



SKR CE

ETA-18/0279

ETA-19/0100



d	=	12	mm	d_0	=	10	mm
L	=	90	mm	h_0	=	100	mm
T_{inst}	=	80	Nm	h_{min}	=	130	mm
				c_{min}	=	96	mm

CONCRETE INSTALLATION

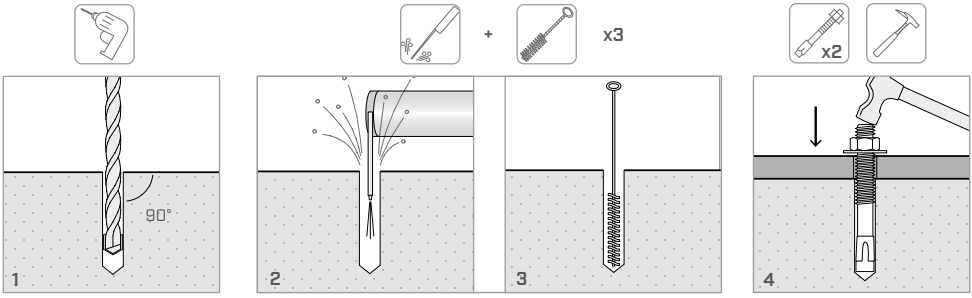
RAILBRAW / RAILBRAW A4

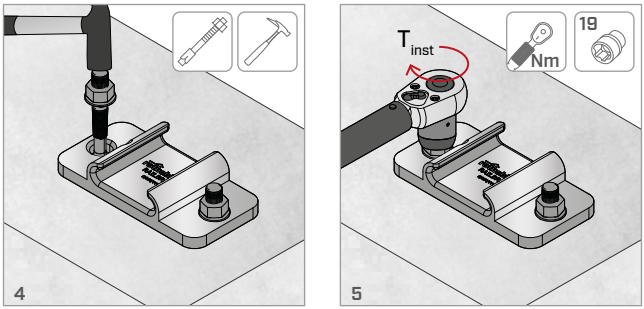
C20/C25

x2
AB1

Nm

19

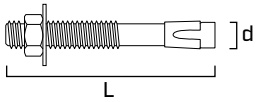


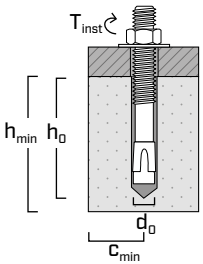


AB112100

(2 pcs)

AB1
ETA-17/0481





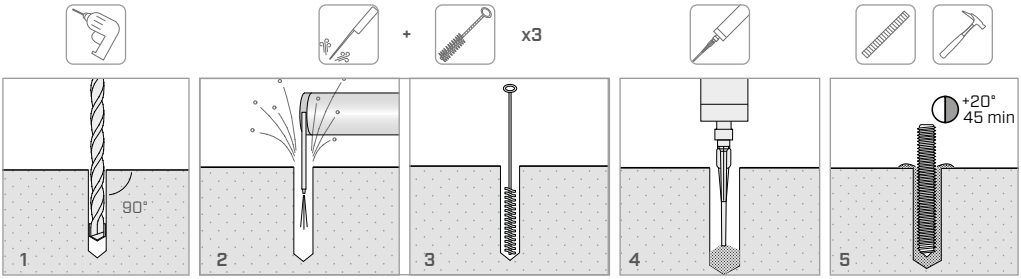
d	=	12	mm	d_0	=	12	mm
L	=	100	mm	h_0	≥	85	mm
T_{inst}	=	60	Nm	h_{min}	=	140	mm
				c_{min}	=	70	mm

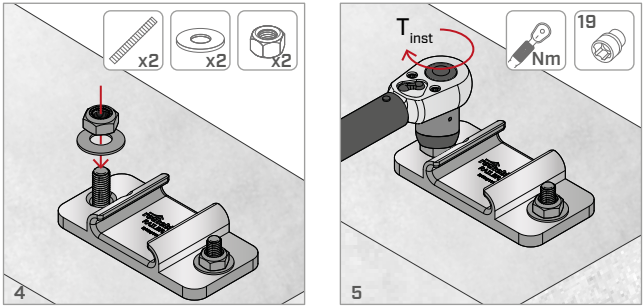
CONCRETE INSTALLATION

RAILBRAW / RAILBRAW A4

C20/25





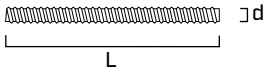


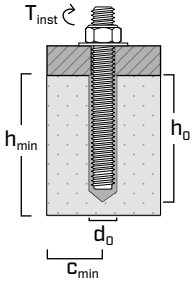
M12 x L - 5.8 min

(2 pcs)

VIN-FIX

ETA 20/0363

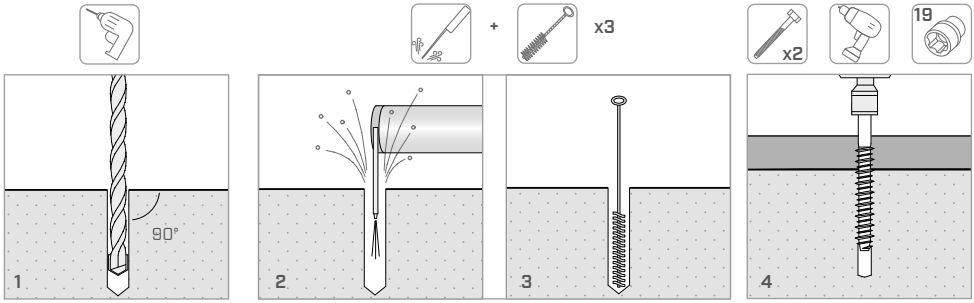


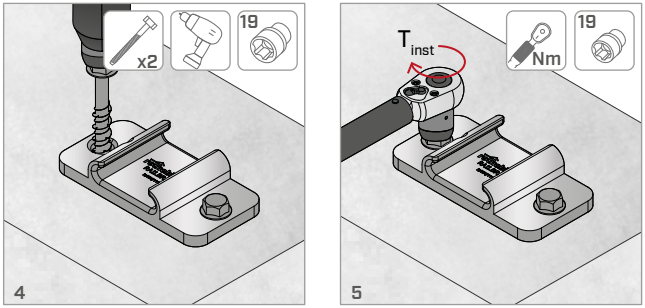


d	=	M12		d_0	=	14	mm
L	≥	100	mm	h_0	=	L - 30	mm
T_{inst}	=	40	Nm	h_{min}	=	h_0 + 30	mm
				c_{min}	=	60	mm

RAILBRAW / RAILBRAW A4

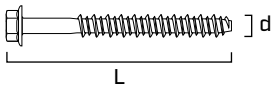
C20/C25





SKRCE1290

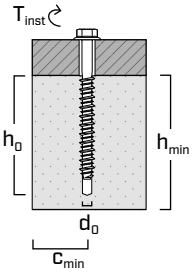
(2 pcs)



SKR CE

ETA-18/0279

ETA-19/0100

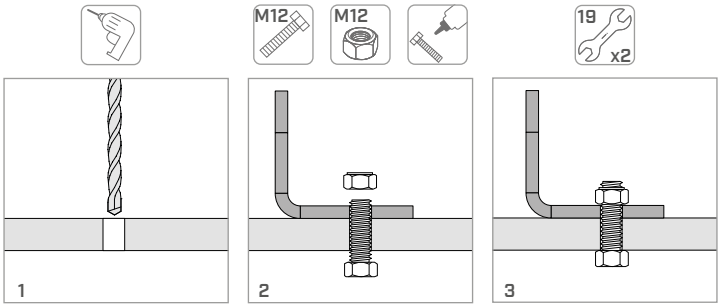


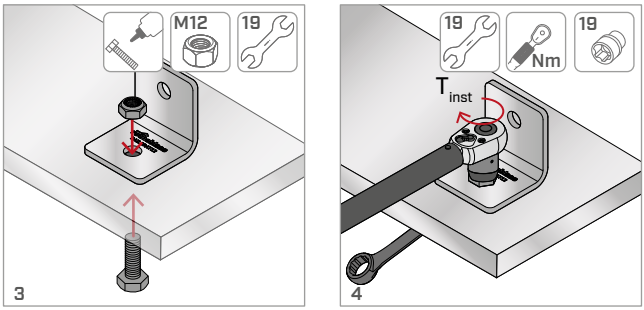
d	=	12	mm	d_0	=	10	mm
L	=	90	mm	h_0	=	100	mm
T_{inst}	=	80	Nm	h_{min}	=	130	mm
				c_{min}	=	95	mm

RAILBRAT12 / RAILBARAT12 A4

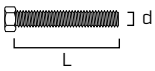
S 235

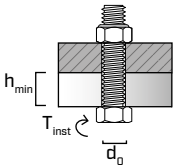
SELF-LOCKING NUT





DIN 933
M12 x L - A2-70/A4-70





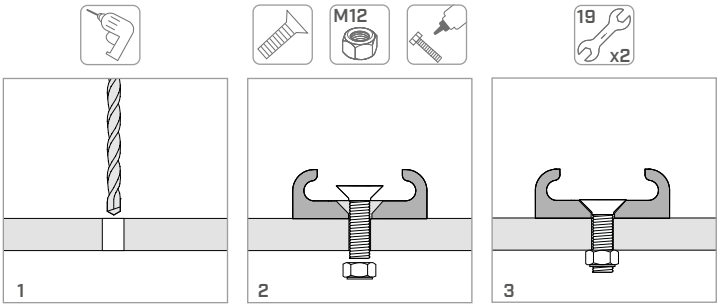
d	=	M12	
L	≥	h_{min} + 25	mm
T_{inst}	=	30	Nm

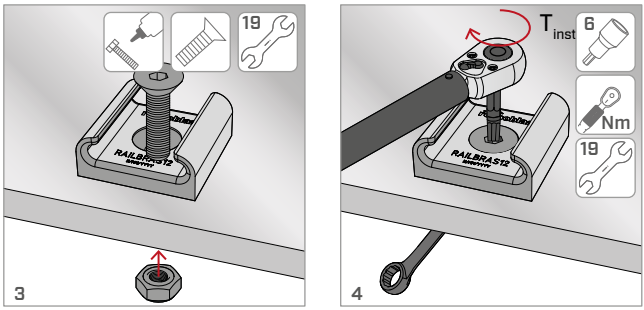
d_0	=	12,5	mm
h_{min}	=	5	mm

RAILBRAS12 / RAILBRAS12 A4

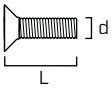
S 235

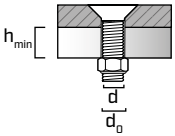
DIN7991 SELF-LOCKING NUT





DIN7991
M12 x L - A2-70/A4-70





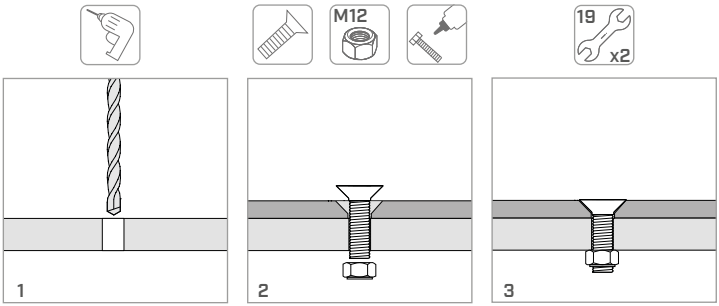
d =	M12		d_0 =	10,5	mm
L ≥	35	mm	h_{min} =	5	mm
T_{inst} =	15	Nm			

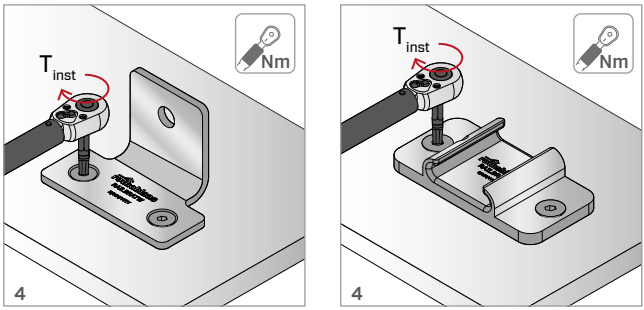
RAILBRATW / RAILBRATW A4
RAILBRAW / RAILBRAW A4

S 235

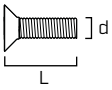
x2 M12 x2 DIN7991 SELF-LOCKING NUT

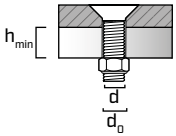
19 x2 Nm 6





DIN7991
2x M12 x L - A2-70/A4-70



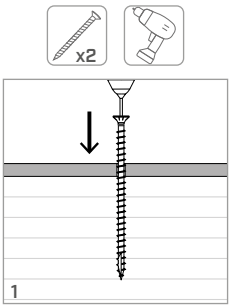


d =	M12		d_0 =	10,5	mm
L ≥	35	mm	h_{min} =	5	mm
T_{inst} =	15	Nm			

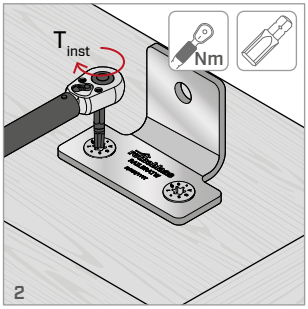
RAILBRATW / RAILBRATW A4
RAILBRAW / RAILBRAW A4

GL24H

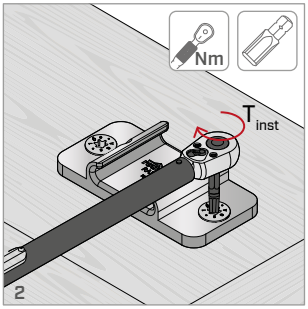
x2
VGS11150
VGSEVO11150
Nm
TX50



RAILBRATW

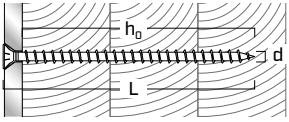


RAILBRAW

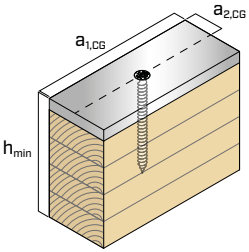


VGS11150/ VGSEVO11150

(2 pcs)



VGS
VGS EVO
ETA-11/0030



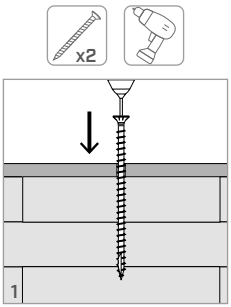
d	=	11	mm
L	=	150	mm
T_{inst}	=	30	Nm

h_0	=	145	mm
h_{min}	>	h_0	
$a_{1,CG}$	=	110	mm
$a_{2,CG}$	=	44	mm

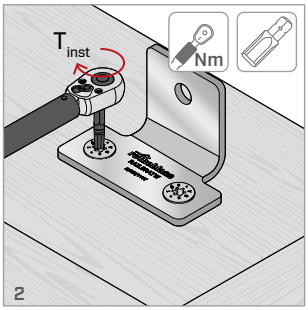
RAILBRATW / RAILBRATW A4
RAILBRAW / RAILBRAW A4

CLT

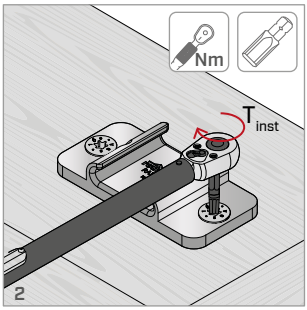
x2
VGS13150
VGSEVO13150
Nm
TX50



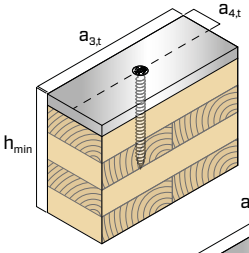
RAILBRATW



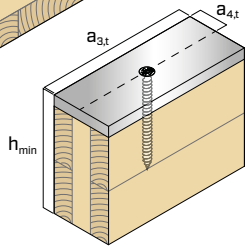
RAILBRAW



EDGE SURFACE

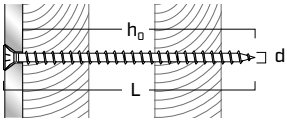


PLANE SURFACE



VGS13150/ VGSEVO13150

(2 pcs)



VGS
VGS EVO
ETA-11/0030

d	=	13	mm
L	=	150	mm
T_{inst}	=	50	Nm

h_0	≥	145	mm
h_{min}	≥	h_0	

PLANE SURFACE

$a_{3,t}$	=	66	mm
$a_{4,t}$	=	66	mm

EDGE SURFACE

$a_{3,t}$	=	132	mm
$a_{4,t}$	=	66	mm

RAILBRAT16 / RAILBRAT16 A4

TOWER
TOWER22
TOWERA2

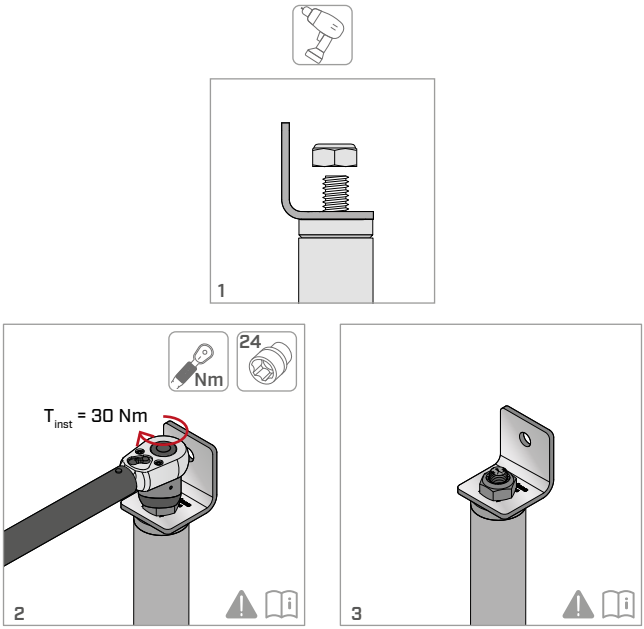
TOWERXL

M16
SELF-LOCKING NUT

24

Nm

24



TOWER SUBSTRUCTURES

S235

GL24H

CLT

C20/25

TOWER
TOWER22
TOWERA2

CLT

C20/25

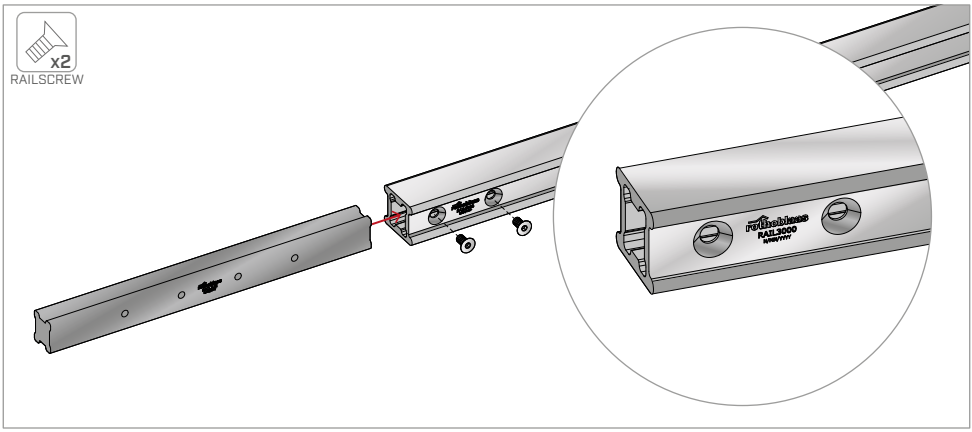
C45/55

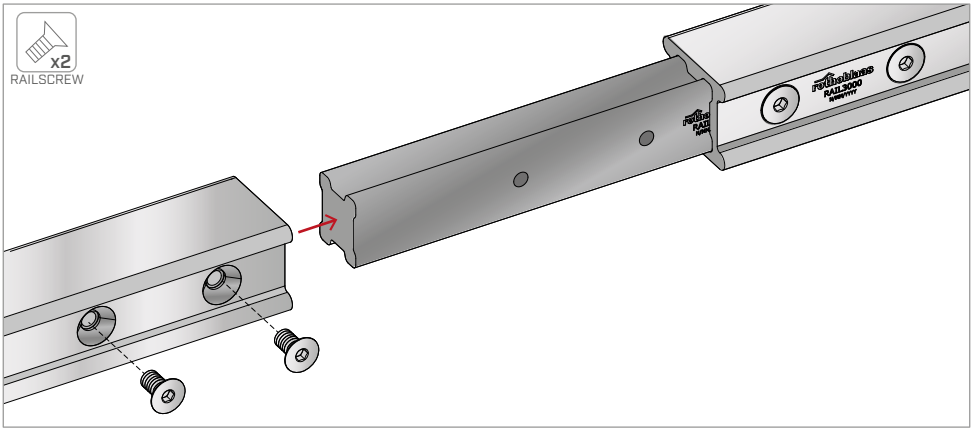
Fe: min 0,75 mm

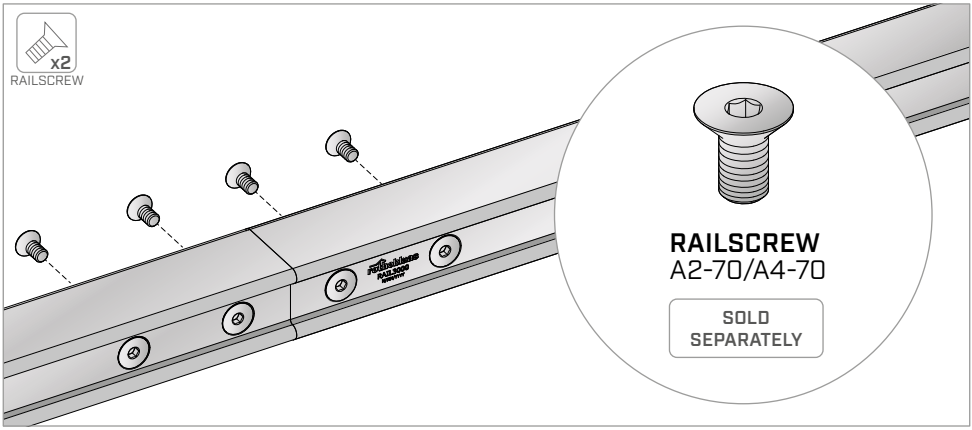
TOWERXL

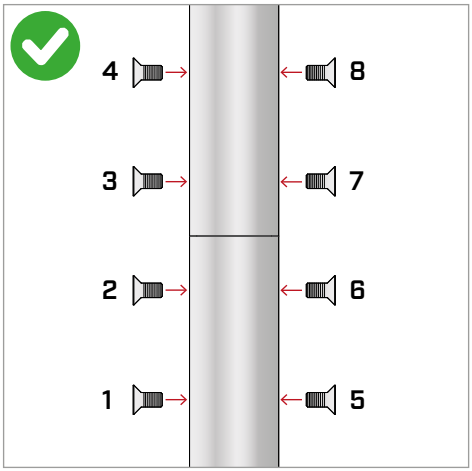
RAIL INSTALLATION

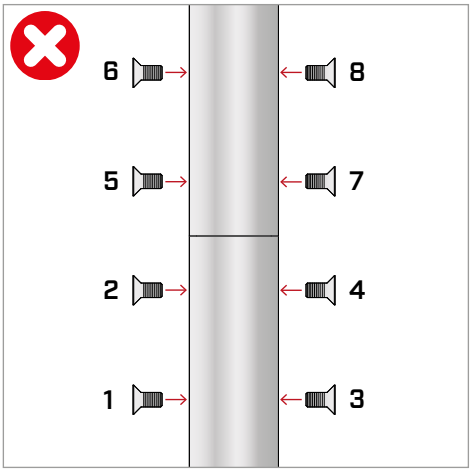
RAIL3000 + RAILJUN

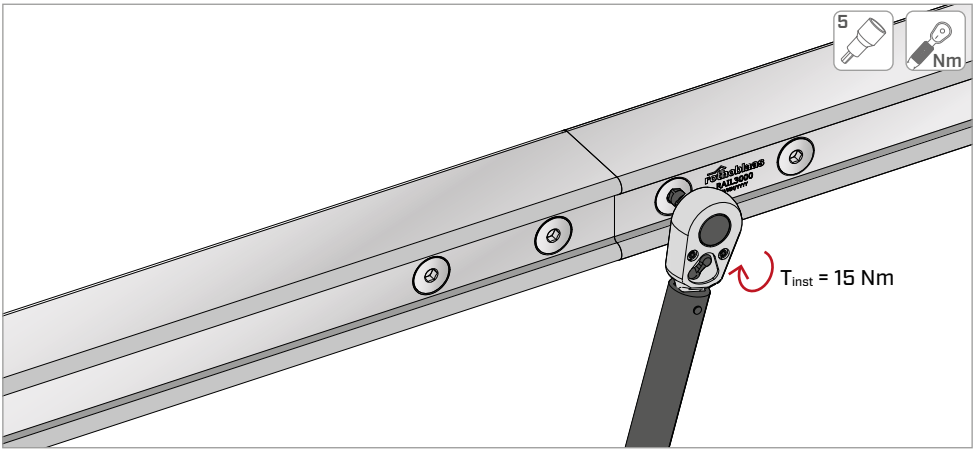


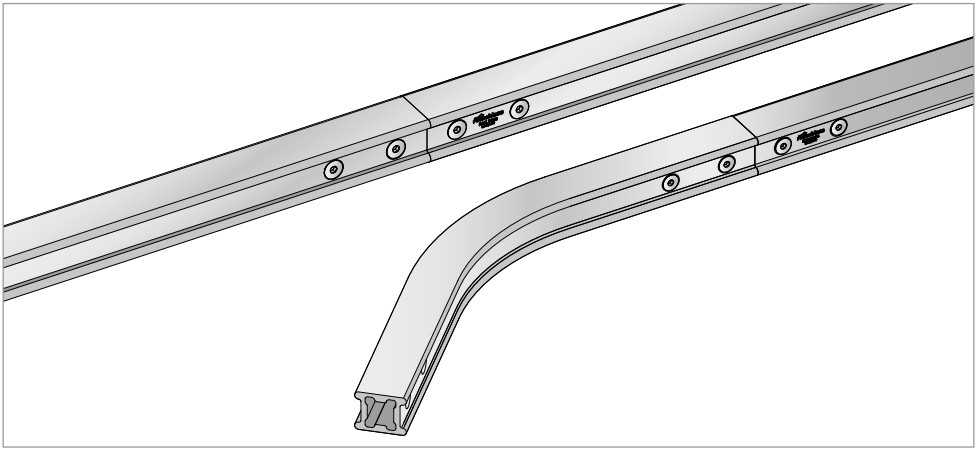





4
8
3
7
2
6
1
5

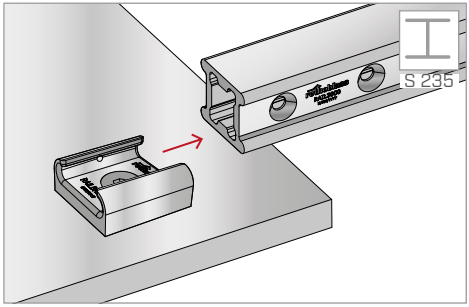

6
8
5
7
2
4
1
3


5
Nm
T inst = 15 Nm



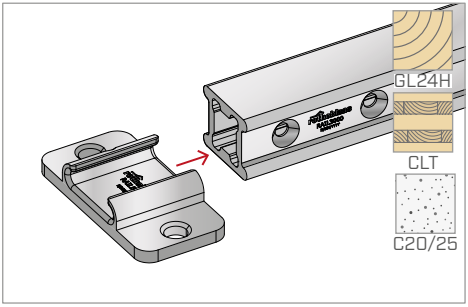
SUPPORT INSTALLATION

RAILBRAS12 / RAILBRAS12 A4 + RAIL3000



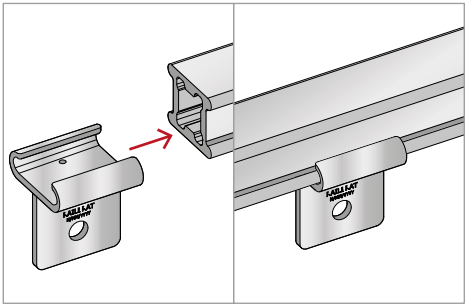
STEEL INSTALLATION ➤ **PAG.42**

RAILBRAW / RAILBRAW A4+ RAIL3000

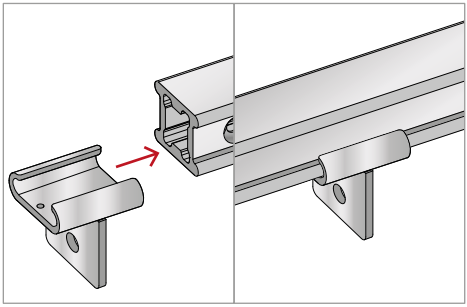


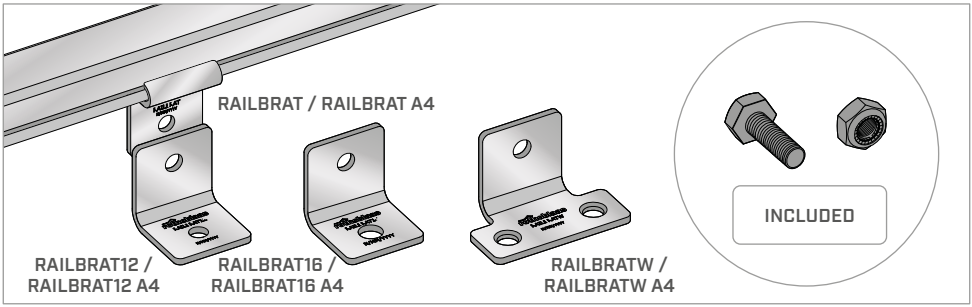
WOOD INSTALLATION ➤ **PAG.38-39-40**
CONCRETE INSTALLATION ➤ **PAG.43-44**

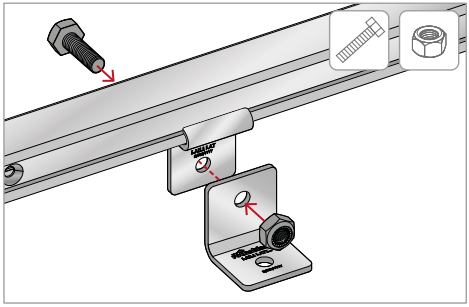
RAILBRAT / RAILBRAT A4 + RAIL3000

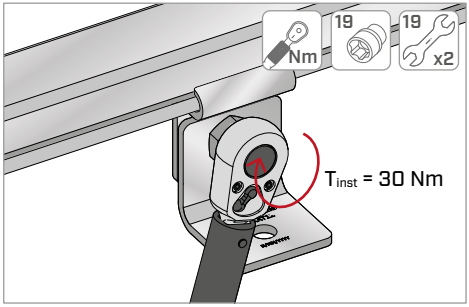


RAILBRAT90 / RAILBRAT90 A4 + RAIL3000



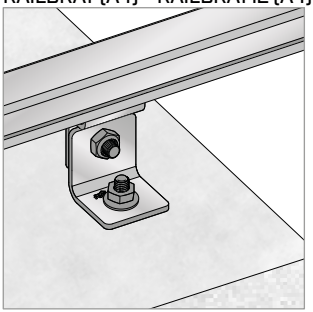






SUBSTRUCTURE INSTALLATION

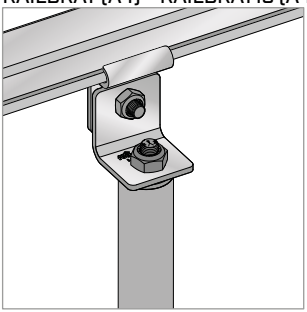
RAILBRAT (A4) + RAILBRAT12 (A4)



CONCRETE INSTALLATION
PAG.35-36-37

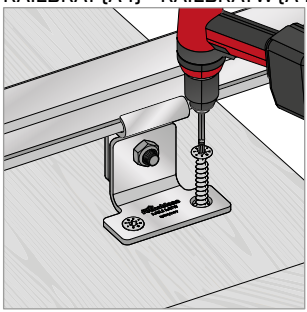
STEEL INSTALLATION
PAG.35-36-37

RAILBRAT (A4) + RAILBRAT16 (A4)



TOWER INSTALLATION
PAG.45

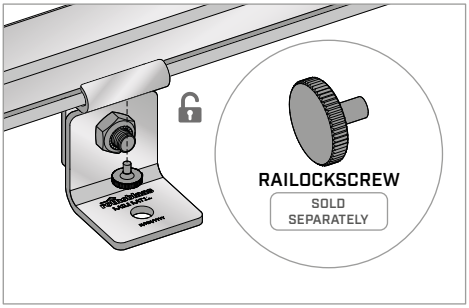
RAILBRAT (A4) + RAILBRATW (A4)

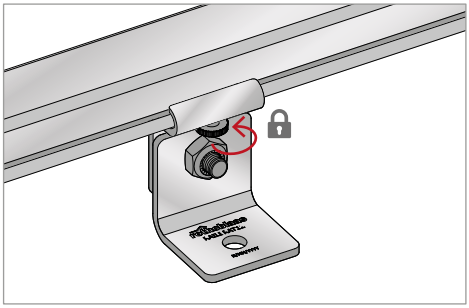


GL24H INSTALLATION
PAG.43

CLT INSTALLATION
PAG.44

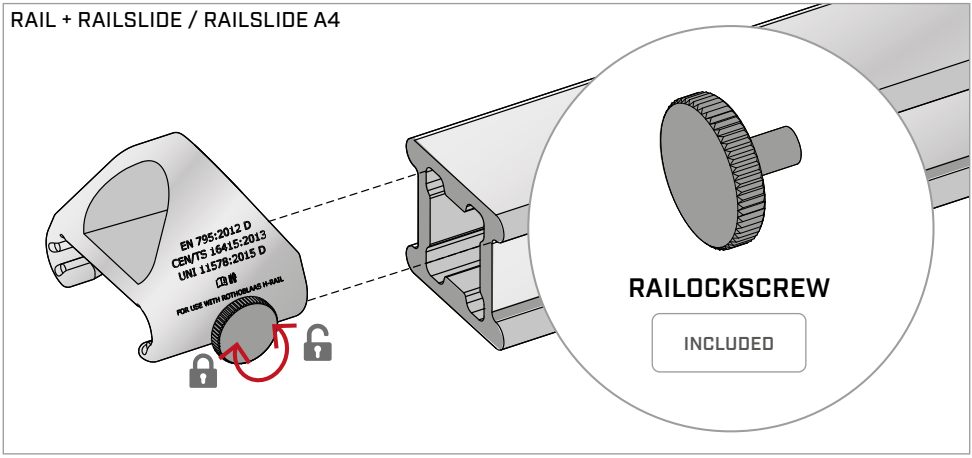
RAILOCKSCREW INSTALLATION



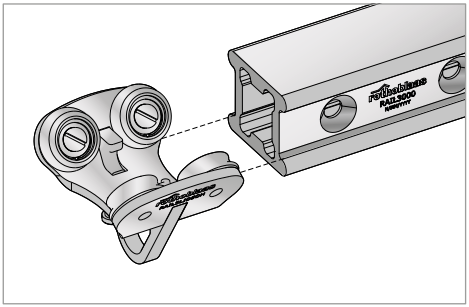


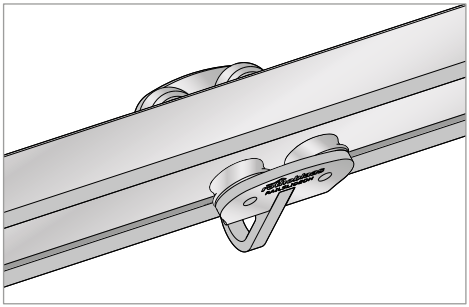
SHUTTLE INSTALLATION

RAIL + RAILSLIDE / RAILSLIDE A4

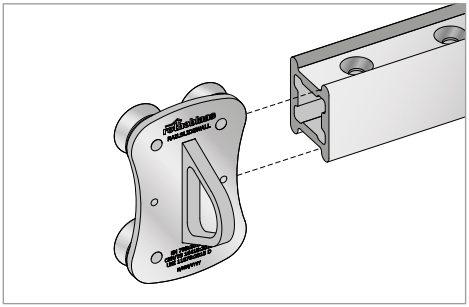


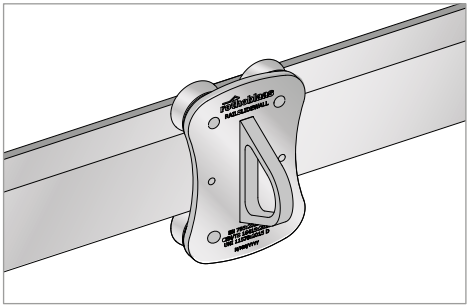
RAIL + RAILSLIDEOH / RAILSLIDEOH A4





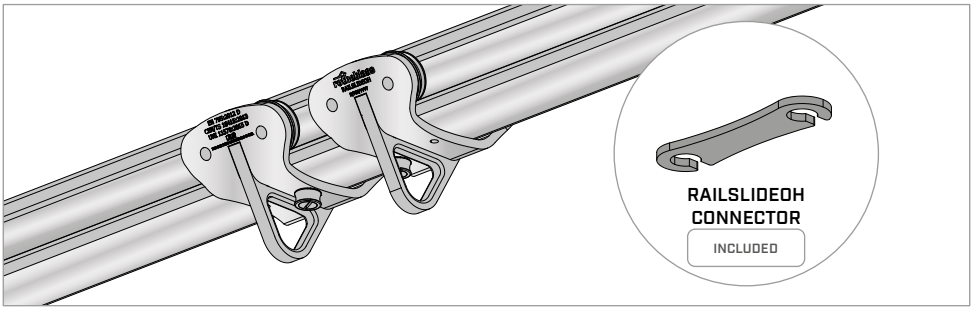
RAIL + RAILSLIDEWALL / RAILSLIDEWALL A4

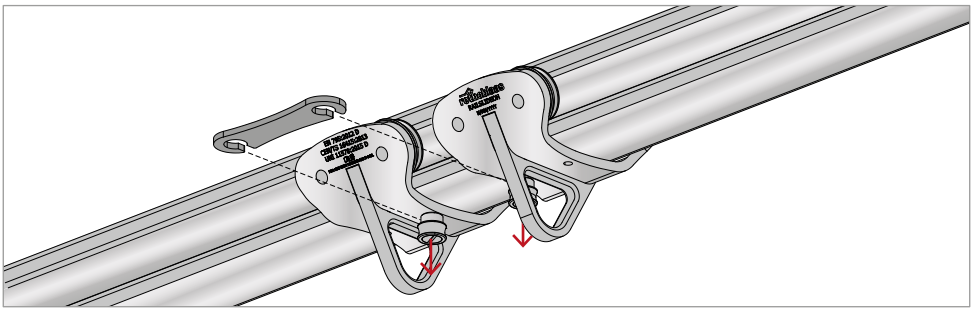




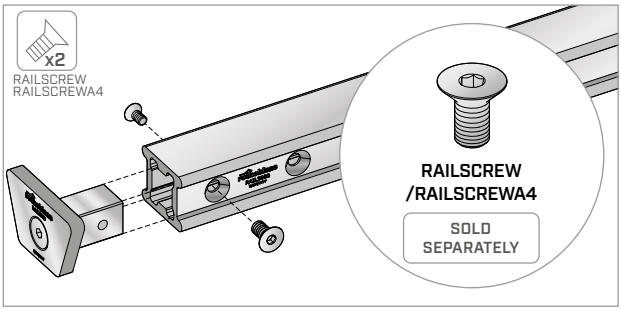
SHUTTLE CONNECTION



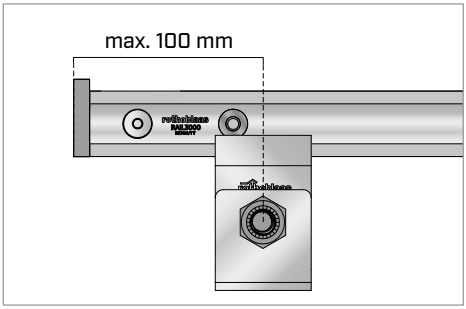


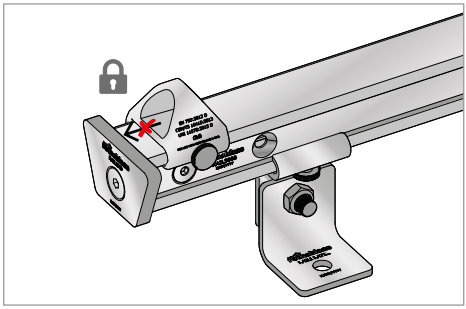


RAILEND / RAILEND A4 INSTALLATION

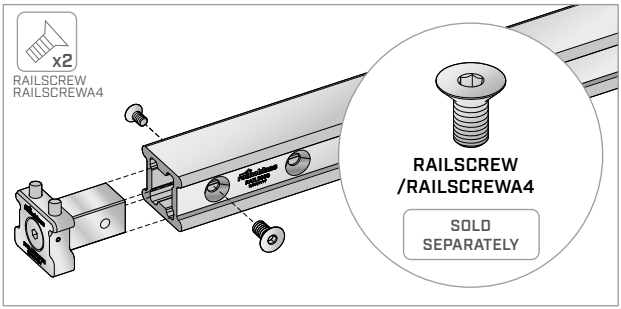


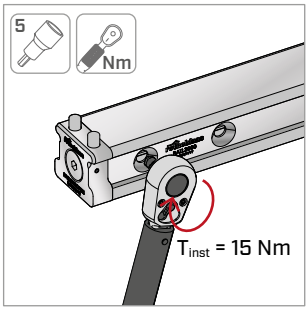


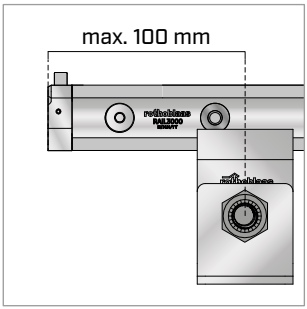


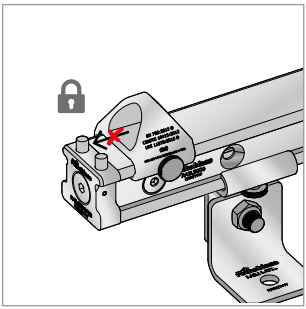


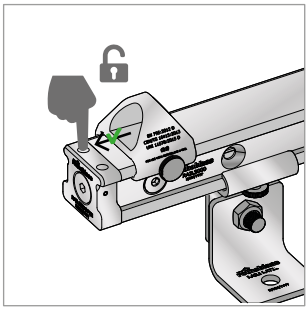
RAILENDOPEN /RAILENDOPEN A4 INTSTALLATION



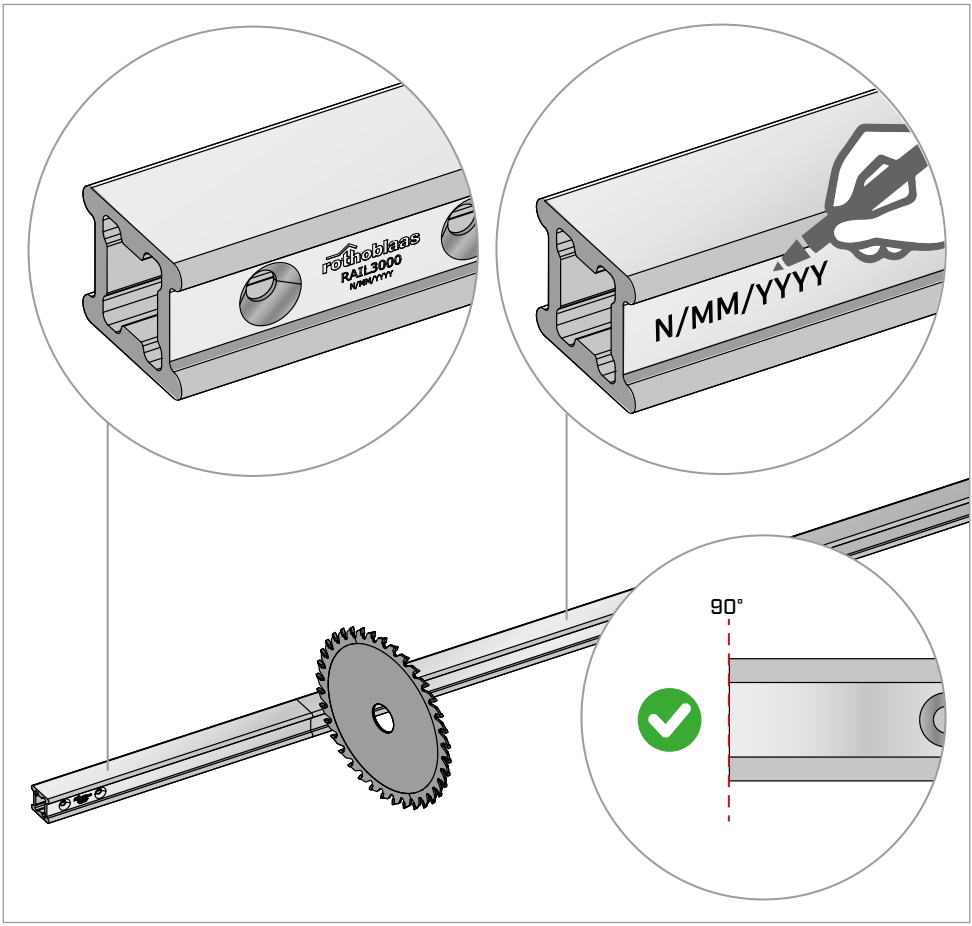


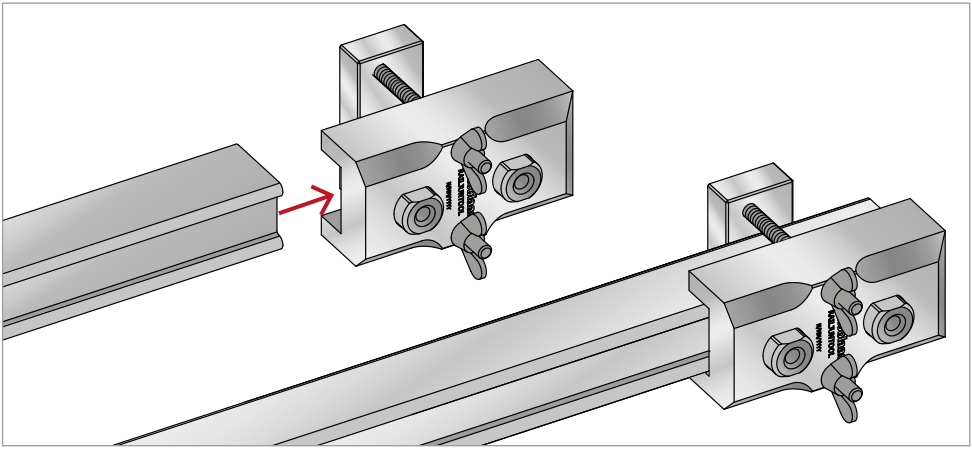


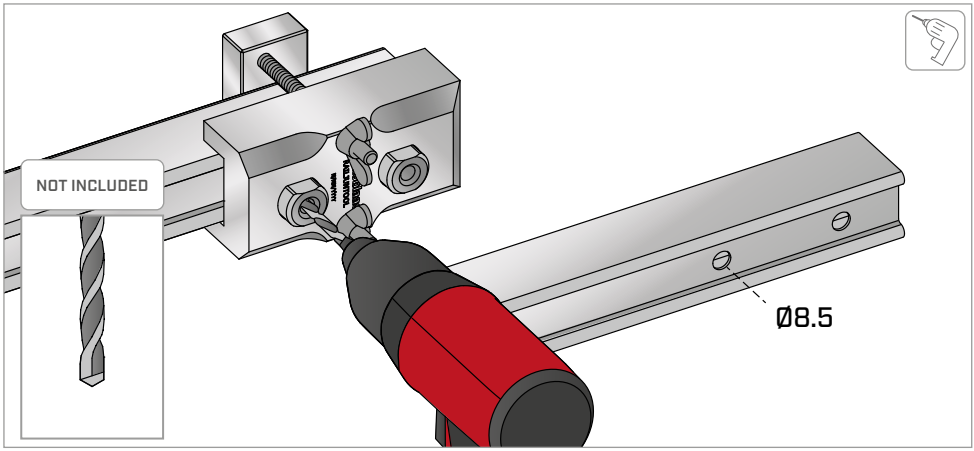


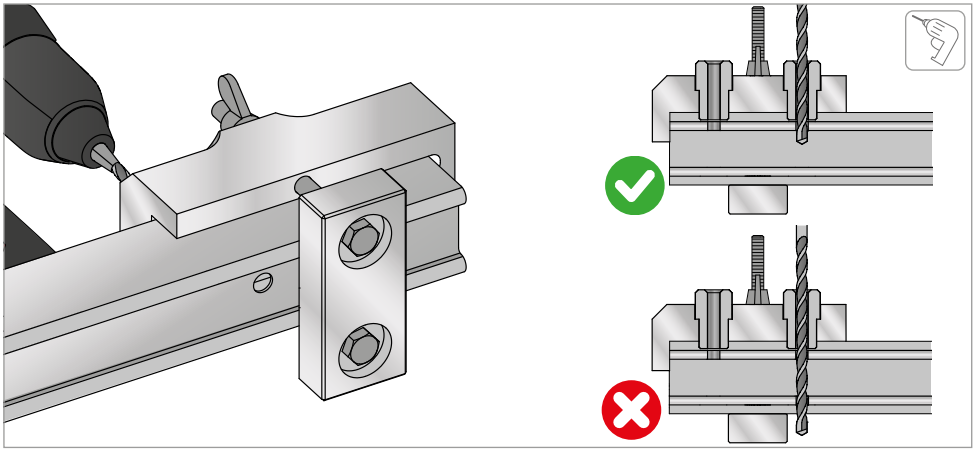


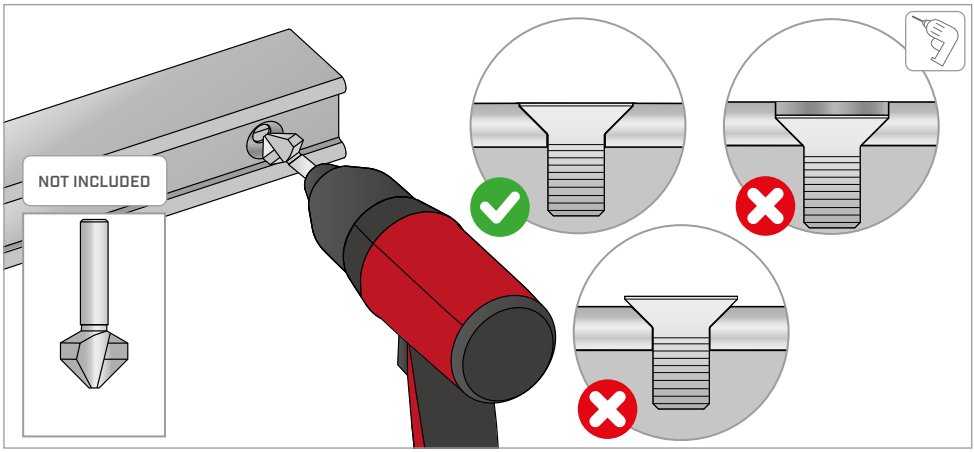
RAIL3000 CUT AND RAILJUNTOOL USE



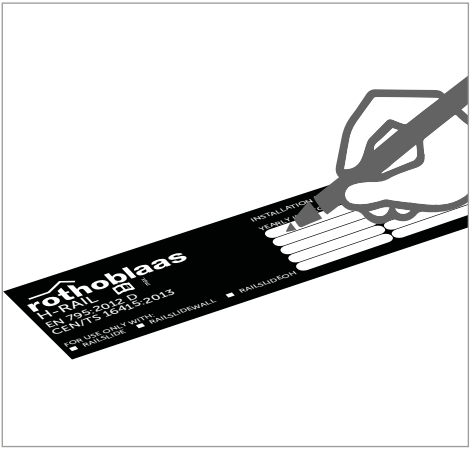


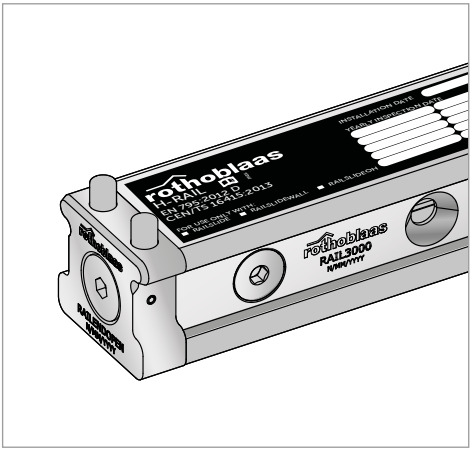

NOT INCLUDED
Ø8.5




NOT INCLUDED

RAILPLATE


rothoblaas
H-RAIL
EN 795:2012 D
CEN/TS 16415:2013
FOR USE ONLY WITH:
RAILSIDE
RAILSLIDEWALL
RAILSLIDEOH
INSTALLATION
YEARLY


rothoblaas
H-RAIL
EN 795:2012 D
CEN/TS 16415:2013
FOR USE ONLY WITH:
RAILSIDE
RAILSLIDEWALL
RAILSLIDEOH
INSTALLATION DATE
YEARLY INSPECTION DATE
rothoblaas
RAIL3000
MM/YYYY



Rotho Blaas SRL

07-26

Via dell'Adige N.2/1 | 39040, Cortaccia (BZ) | Italia
Tel: +39 0471 81 84 00 | Fax: +39 0471 81 84 84
info@rothoblaas.com | www.rothoblaas.com