

PATROL + SPEAREVO

INSTALLATION MANUAL



S235



C20/25

rothoblaas
CERTIFIED
SUPPORTS



x2

INCLUDED IN THE PACKAGE

EN 795:2012 C
CEN/TS 16415:013
UNI 11578:2015 C



⚠ read also:



**PATROL +
SPEAREVO**
Installation
Manual

+



**PATROL +
SPEAREVO**
Safety
Regulations

=



EN
795:2012
C

CEN/TS
16415:2013

UNI
11578:2015
C

AS/NZS
1891.4:2009

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 RothoBlaas só é permitida a pessoal especializado após a leitura e compreensão do **1** **INFORMAÇÕES NECESSÁRIAS** 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** **SIK- KERHEDSFORSKRIFTERNE** 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 pročitao i razumjelo **1** **UPUTA ZA MONTAŽU** kao i **2** **PROPISE O SIGURNOSTI** na jeziku zemlje uporabe.



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SAFETY INSTRUCTIONS

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

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 MANUAL DE INSTALAÇÃO** oraz **2 NORMY BEZPIECZENSTWA** 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 osebe, 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 SÄKERHETSFORESKRIFTER** 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** نظم السلامة **2** بلغة البلد المستخدم فيها المنتج



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Installation
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Safety
Regulations

TOOLS



⁽¹⁾ VINYLESTER CHEMICAL ANCHOR WITHOUT STYRENE

INFORMATION

Type

Rothoblaas
PATROL - SPEAREVO

Related standard(s)

EN 795:2012 C
CEN/TS 16415:2013
UNI 11578:2015 C

Name or logo of manufacturer/distributor

ROTHOBLAAS

Batch number and year of manufacture

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

PRODUCT INFORMATION

EN 795:2012 C	CEN/TS 16415:2013	UNI 11578:2015 C	AS/NZS 1891.4:2009	AS/NZS 1891.2:2001
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1.4301 AISI304 INOX	1.4401 AISI316 INOX
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EN 795:2012 C
CEN/TS 16415:013
UNI 11578:2015 C

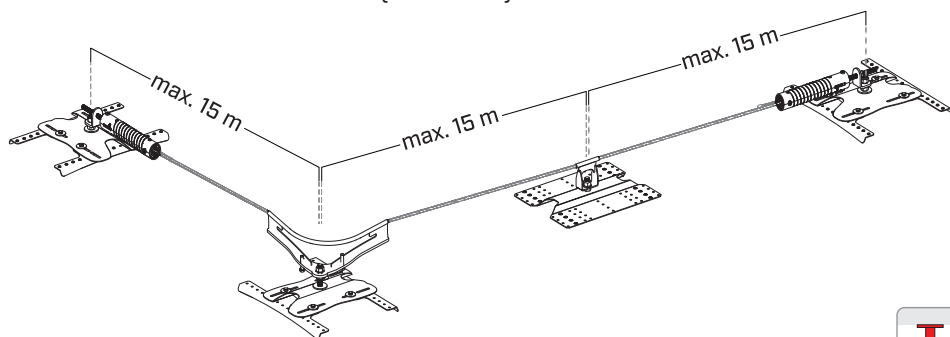


- IT** ⚠ Verificare idoneità statica del sottofondo di montaggio!
- DE** ⚠ Die statische Eignung des Montageuntergrundes sicherstellen!
- EN** ⚠ Check the static suitability of the installation substrate!
- ES** ⚠ ¡Compruebe la idoneidad estática del sustrato de montaje!
- FR** ⚠ Vérifier l'adéquation statique du substrat d'assemblage!

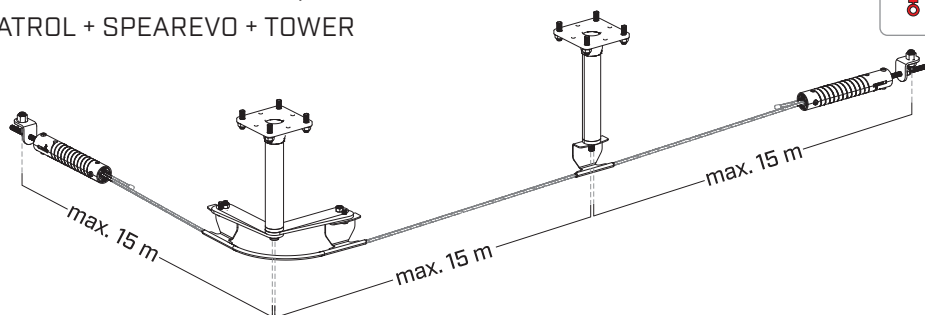


■ TECHNICAL DATA

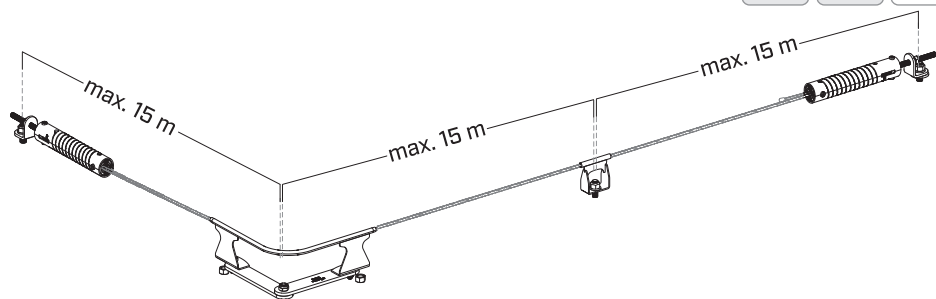
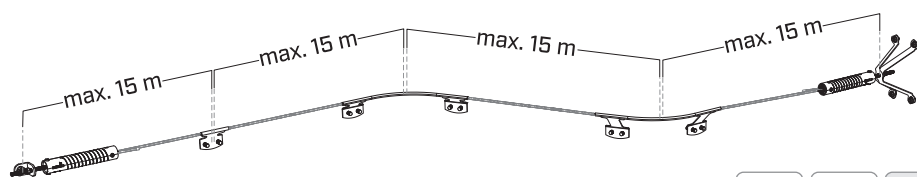
PATROL + SPEAREVO + SHIELD (SHIELD 2)



PATROL + SPEAREVO + TOWER



PATROL + SPEAREVO



■ TECHNICAL DATA



PATROL SYSTEM COMPONENTS TERMINALS

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PATROLEND

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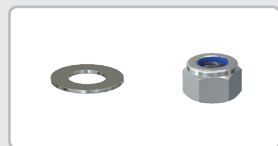
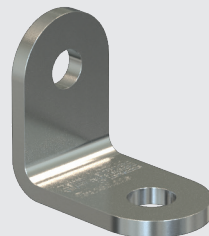
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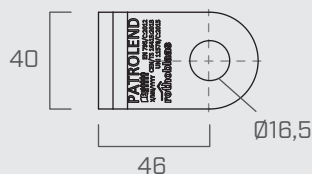
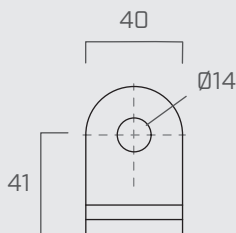
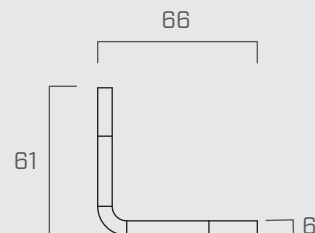
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PATROLEND
rothoblaas
EN 795/C:2012
X/NN/YYYY CEN/TS 16415:2013
UNI 11578/C:2015

PAREND - PAREND A4

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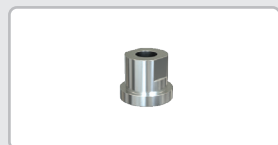
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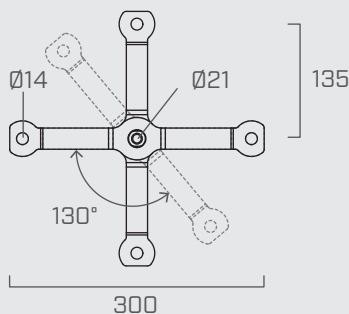
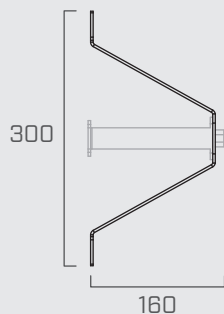
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EN 795/C:2012
X/NN/YYYY CEN/TS 16415:2013
UNI 11578/C:2015

PATROL SYSTEM COMPONENTS TERMINALS

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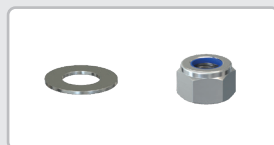
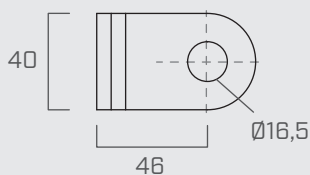
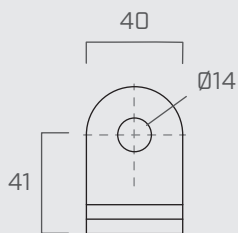
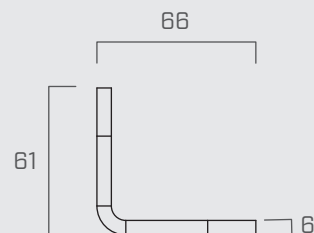
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CERTIFIED
SUPPORTS

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SHIELD



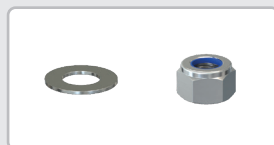
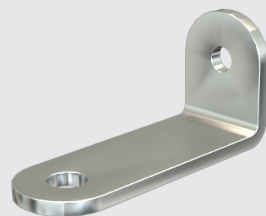
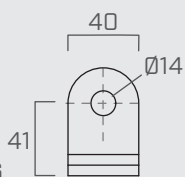
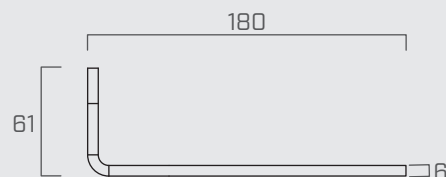
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PATROL SYSTEM COMPONENTS INTERMEDIATES

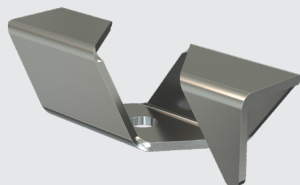
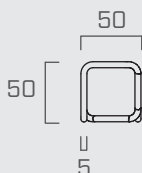
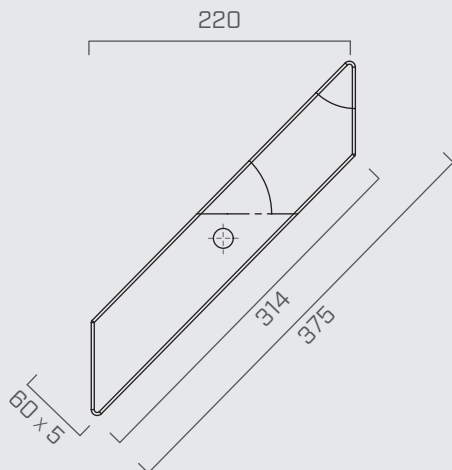
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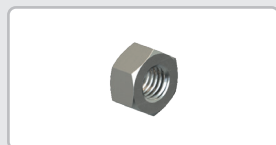
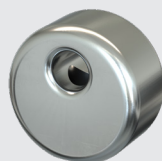
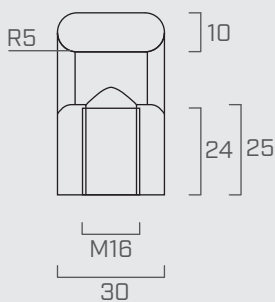
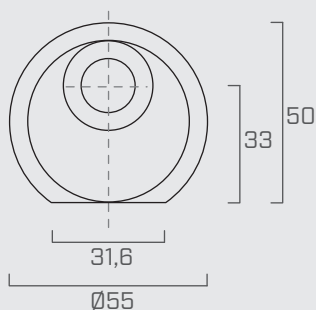
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PATROL SYSTEM COMPONENTS INTERMEDIATES

PASINT - PASINT A4

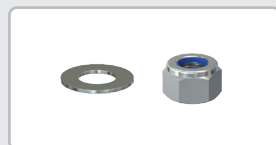
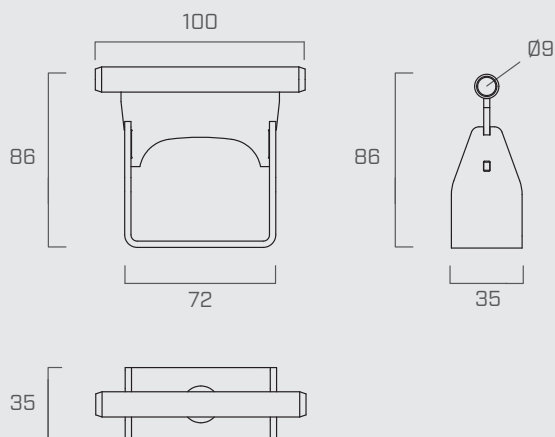
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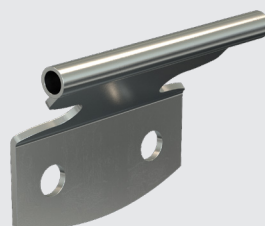
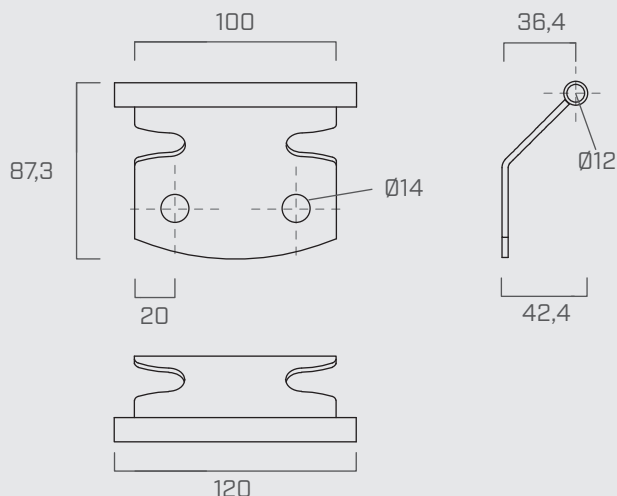
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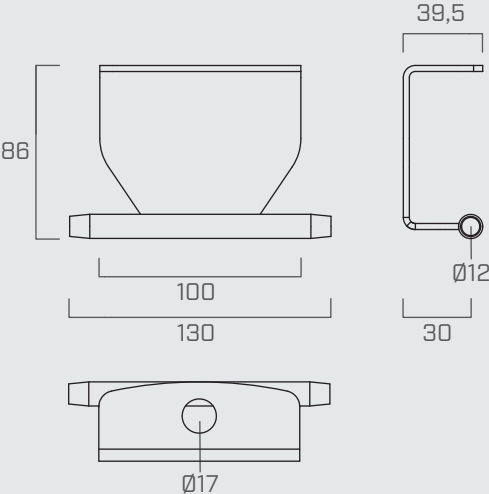
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SUPPORTS
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PATROL SYSTEM COMPONENTS CORNER

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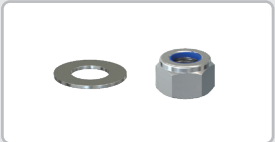
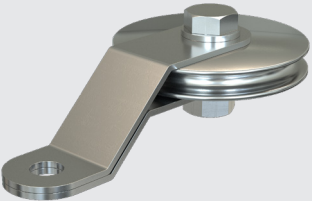
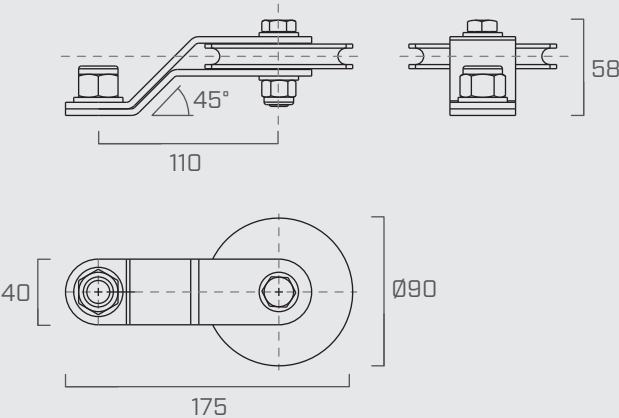
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PASANG - PASANG A4

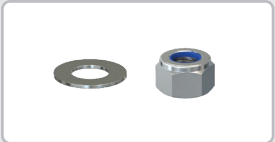
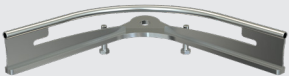
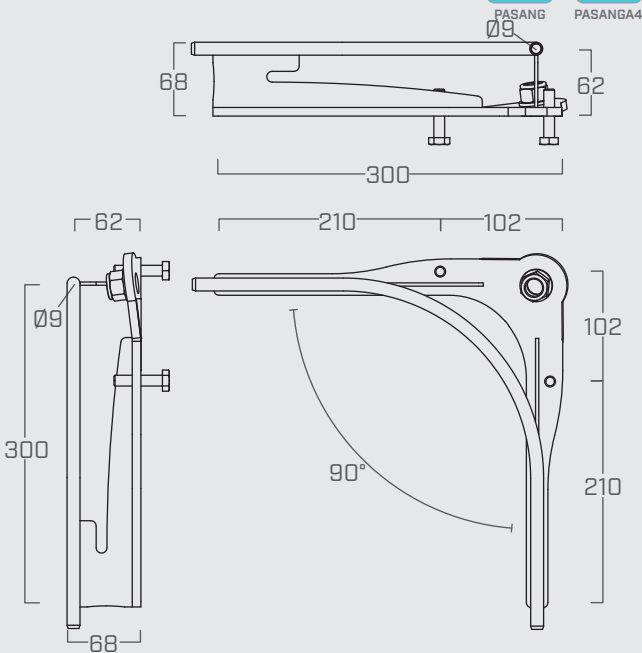
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SUPPORTS



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PATROL SYSTEM COMPONENTS CORNER

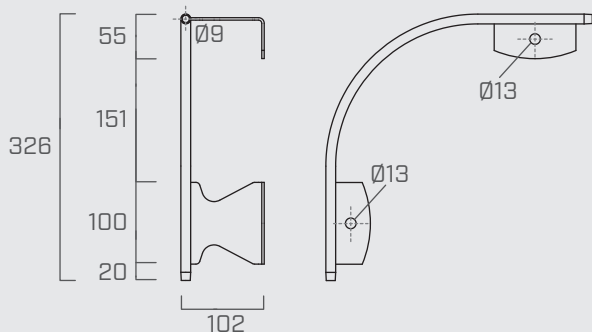
PASANGBEND - PASANGBEND A4

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ANGSUP - ANGSUP A4

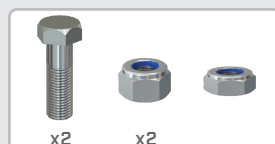
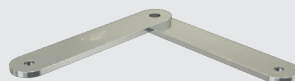
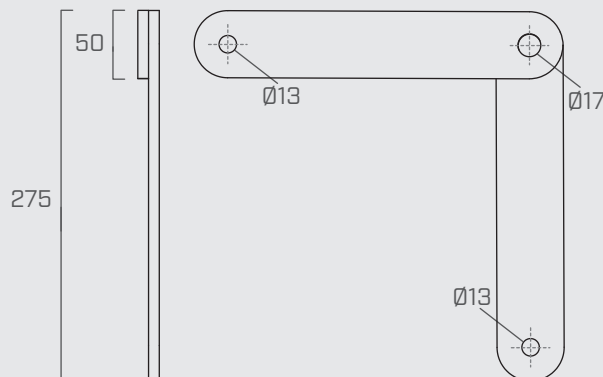
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INCLUDED IN THE PACKAGE

PATROL SYSTEM COMPONENTS CORNER

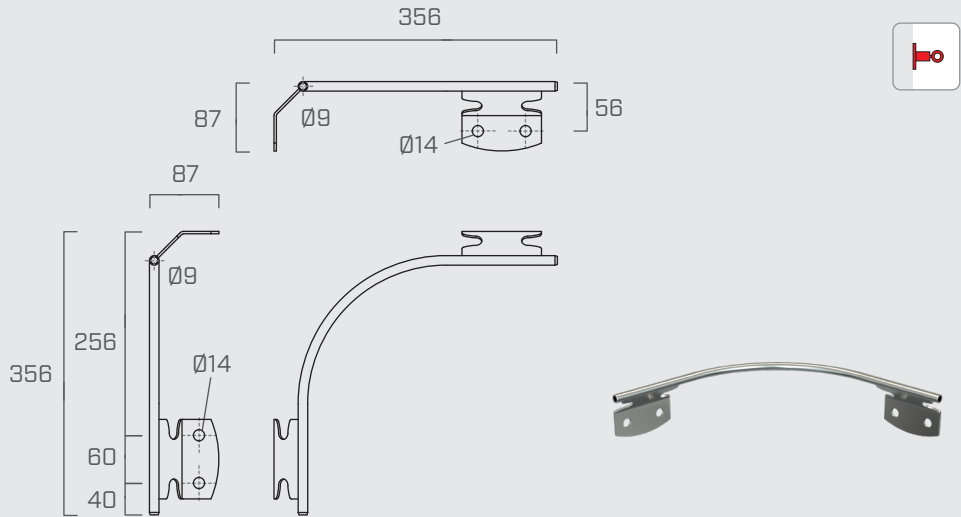
■ PARIN - PARIN A4

1.4301
AISI304
INOX
PARIN

1.4401
AISI316
INOX
PARINA4

C20/25

S235



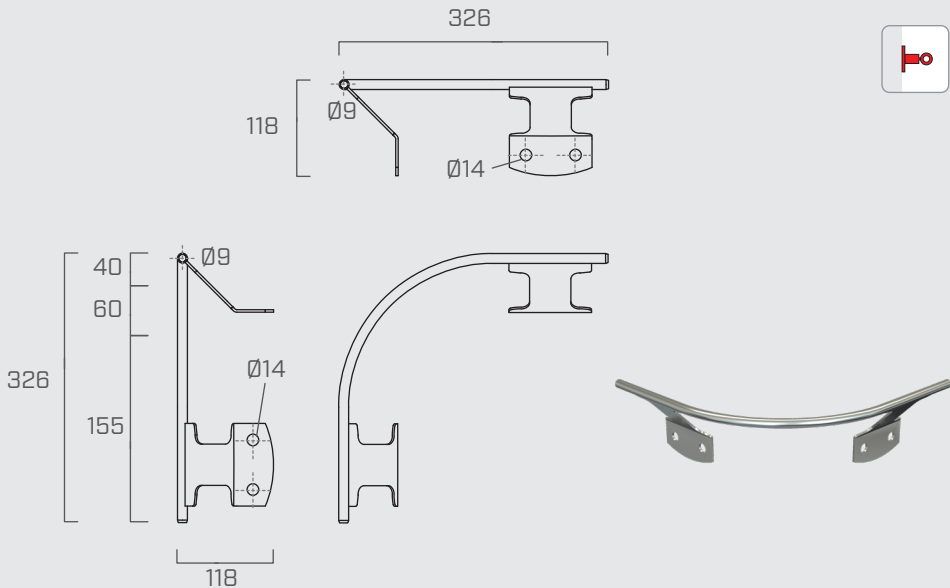
■ PAREX - PAREX A4

1.4301
AISI304
INOX
PAREX

1.4401
AISI316
INOX
PAREXA4

C20/25

S235



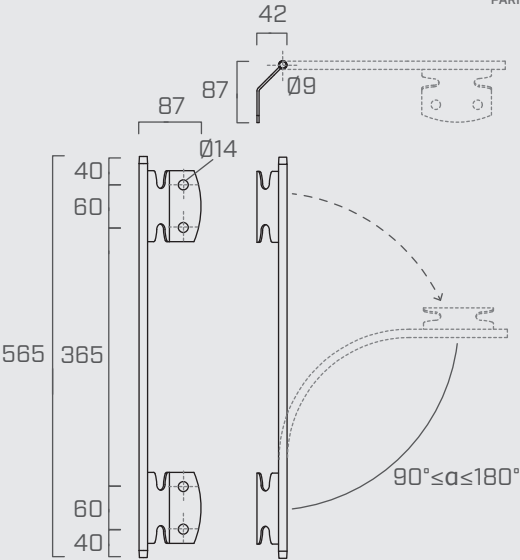
PARINBEND - PARINBEND A4

1.4301
AISI304
INOX
PARINBEND

1.4401
AISI316
INOX
PARINBENDA4

C20/25

S235



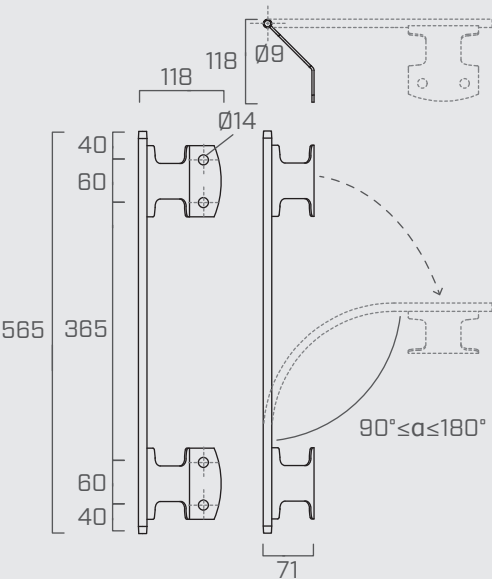
PAREXBEND - PAREXBEND A4

1.4301
AISI304
INOX
PAREXBEND

1.4401
AISI316
INOX
PAREXBENDA4

C20/25

S235



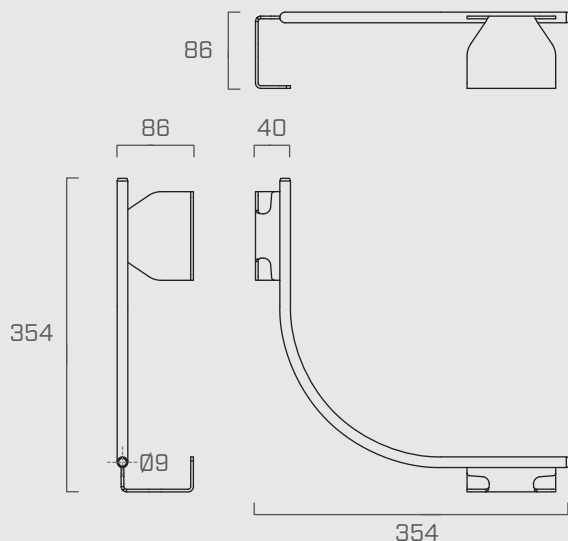
OHANGINT - OHANGINT A4

1.4301
AISI304
INOX
OHANGINT

1.4401
AISI316
INOX
OHANGINTA4

C20/25

S235



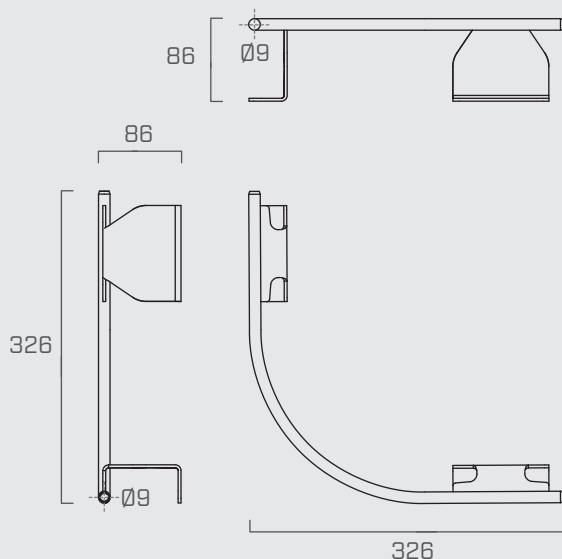
OHANGEXT - OHANGEXT A4

1.4301
AISI304
INOX
OHANGEXT

1.4401
AISI316
INOX
OHANGEXTA4

C20/25

S235



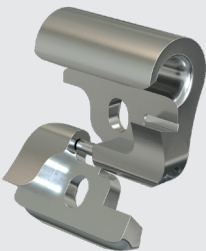
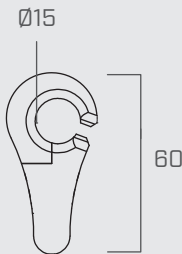
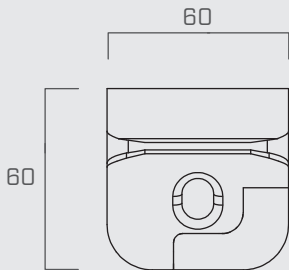
PATROL SYSTEM COMPONENTS SHUTTLE

■ SLIDE - SLIDE A4

1.4301
AISI304
INOX
SLIDE

1.4401
AISI316
INOX
SLIDEA4

SLIDE1-SLIDE2-OHSLIDE
Installation
Manual



rothoblaas SLIDE1
EN 795:2012 C
UNI 11578:2015 C
X/NN/YYYY
For use with Rothoblaas
patrol system Ø8 mm



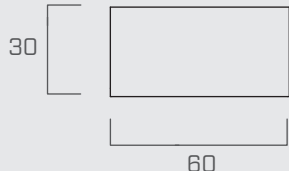
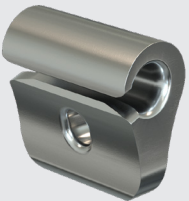
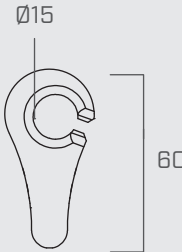
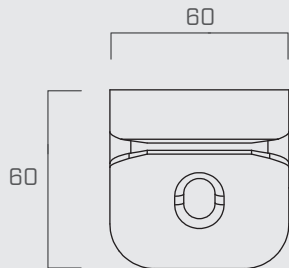
INCLUDED IN THE PACKAGE
CARSCREW (AZ 011)

■ SLIDE 2 - SLIDE 2 A4

1.4301
AISI304
INOX
SLIDE2

1.4401
AISI316
INOX
SLIDE2A4

SLIDE1-SLIDE2-OHSLIDE
Installation
Manual



rothoblaas SLIDE2
EN 795:2012 C
UNI 11578:2015 C
X/NN/YYYY
For use with Rothoblaas
patrol system Ø8 mm



INCLUDED IN THE PACKAGE
CARSCREW (AZ 011)

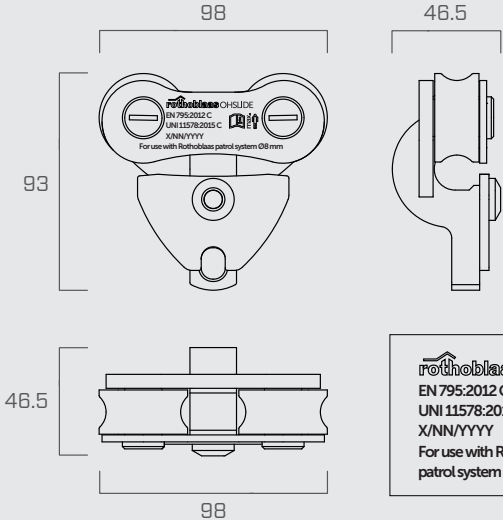
PATROL SYSTEM COMPONENTS SHUTTLE

OHSLIDE - OHSLIDE A4

1.4301
AISI304
INOX
OHSLIDE

1.4401
AISI316
INOX
OHSLIDEA4

SLIDE1-SLIDE2-OHSLIDE
Installation
Manual



rothoblaas OHSLIDE
EN 795:2012 C
UNI 11578:2015 C
X/NN/YYYY
For use with Rothoblaas
patrol system Ø8 mm



INCLUDED IN THE PACKAGE
CARSCREW (AZ 011)

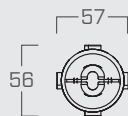
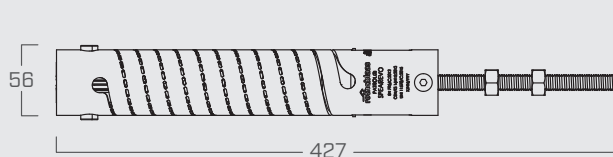
SPEAREVO - SPEAREVO A4

1.4301
AISI304
INOX

SPEAREVO

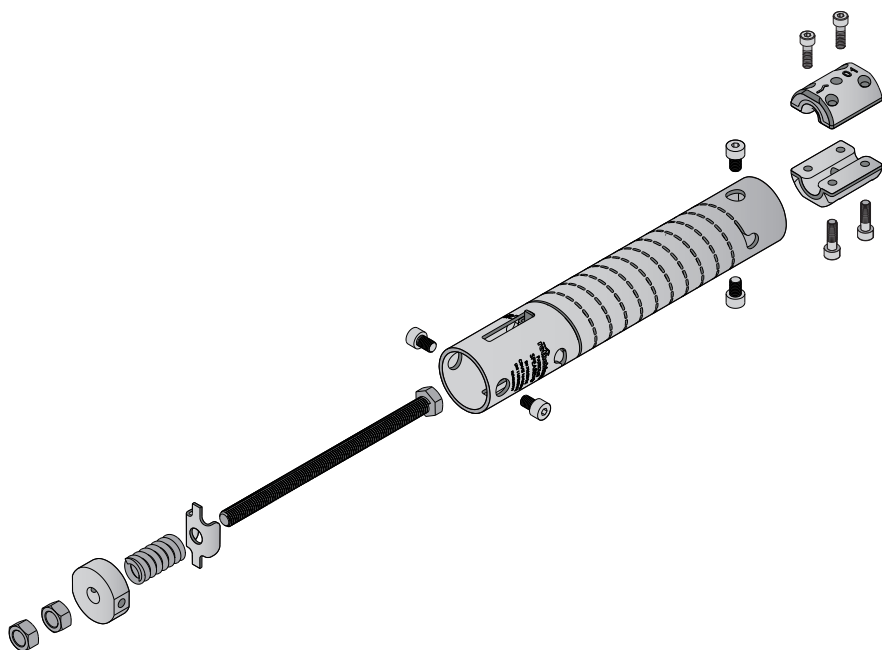
1.4401
AISI316
INOX

SPEAREVOA4



x2

INCLUDED IN THE PACKAGE



SUBSTRUCTURE INSTALLATION

SUPPORT INSTALLATION

ON TOWER



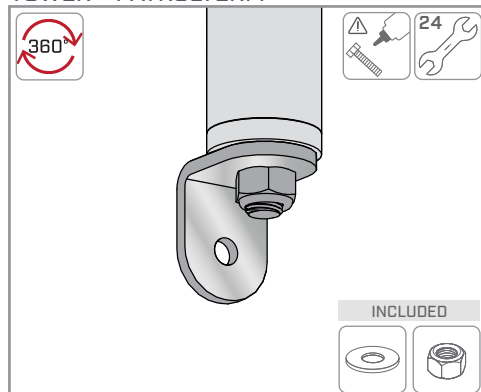
TOWER
TOWERA2
Installation
Manual

+

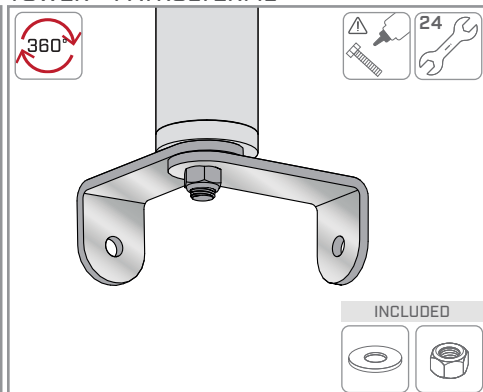


TOWER
TOWERA2
Safety
Regulations

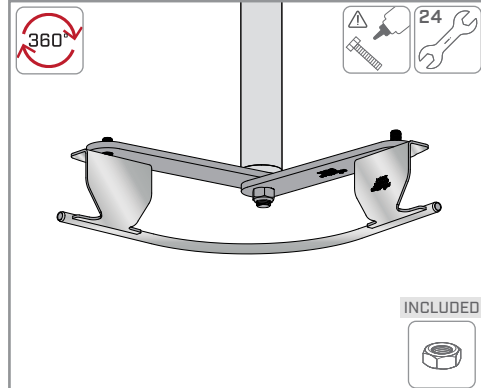
TOWER + PATROLTERM



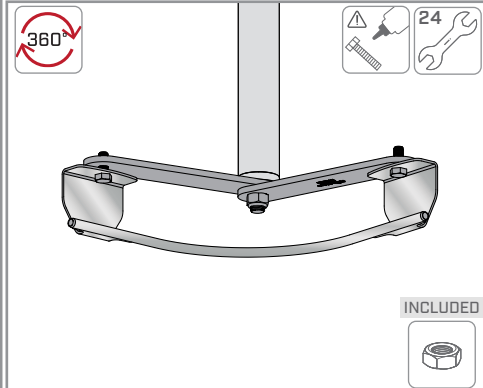
TOWER + PATROLTERML



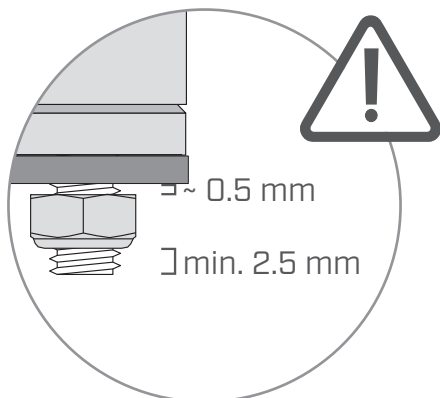
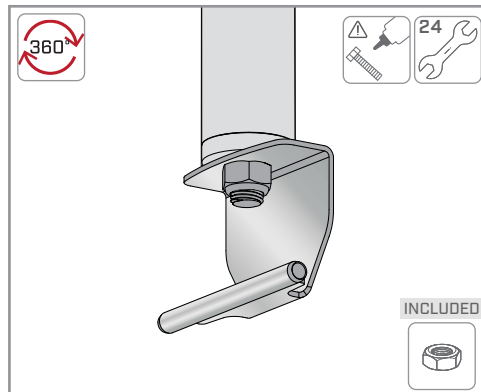
TOWER + ANGSUP + OHANGEXT



TOWER + ANGSUP + OHANGINT



TOWER + OHINT



SUPPORT INSTALLATION

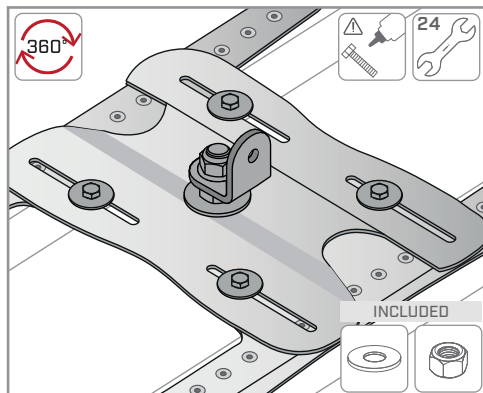
ON SHIELD



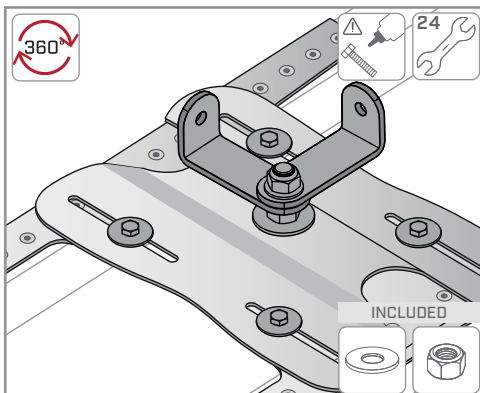
+



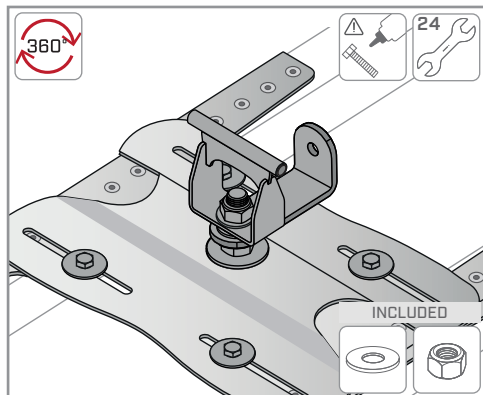
SHIELD + PATROLTERM



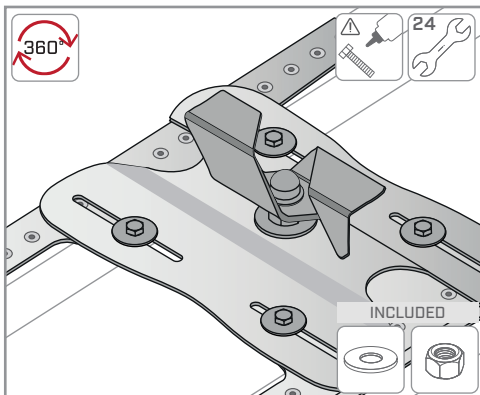
SHIELD + PATROLTERM + PATROLTERM



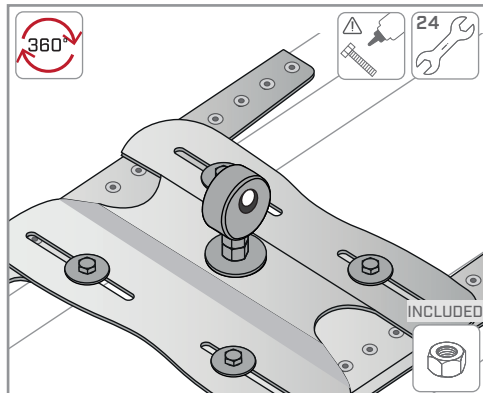
SHIELD + PATROLTERM + PASINT



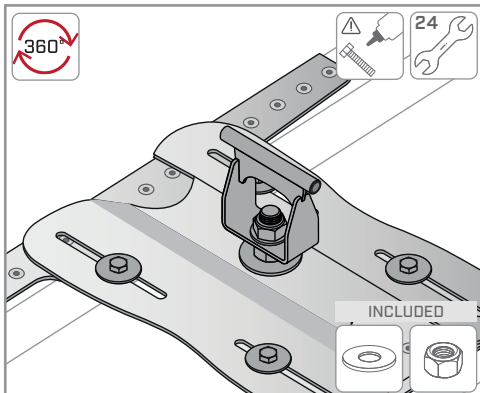
SHIELD + PATROLINT



TOWER + PATROLMED



SHIELD + PASINT



SUPPORT INSTALLATION

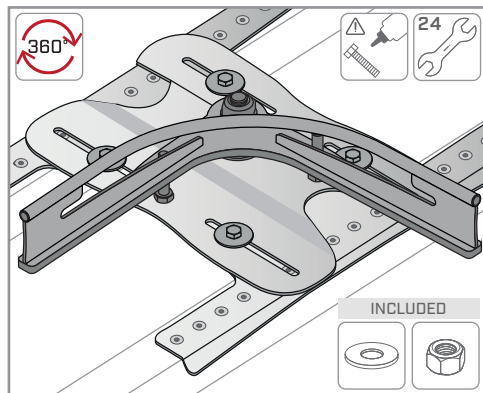
ON SHIELD



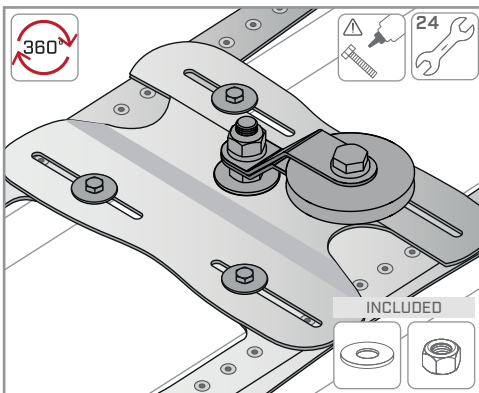
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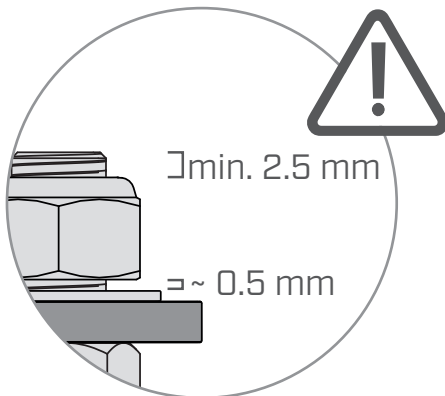
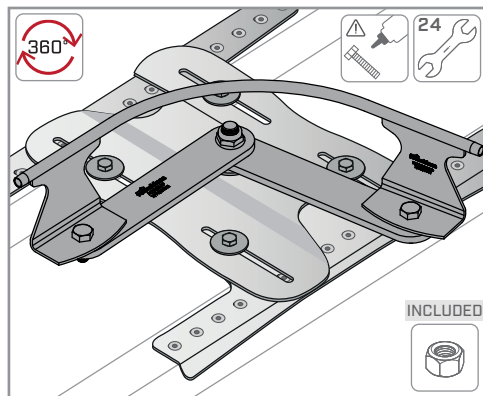
SHIELD + PASANG



SHIELD + PATROLANG



SHIELD + ANG SUP + PASANG BEND



SUPPORT INSTALLATION

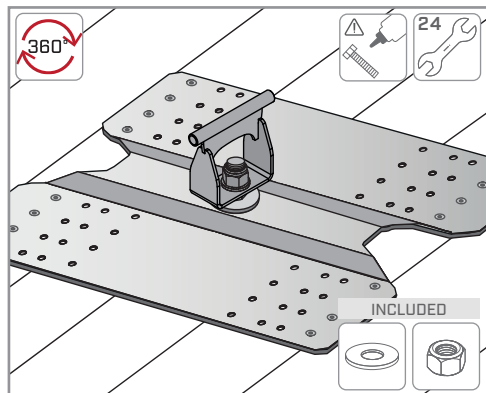
ON SHIELD 2



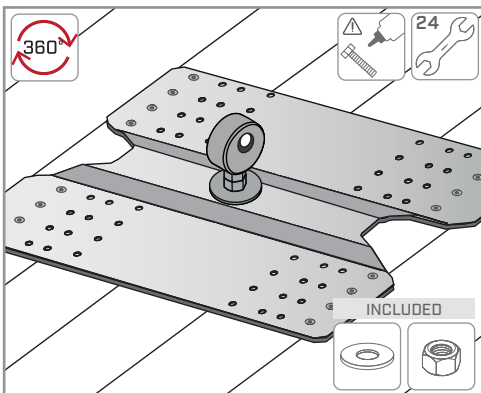
+



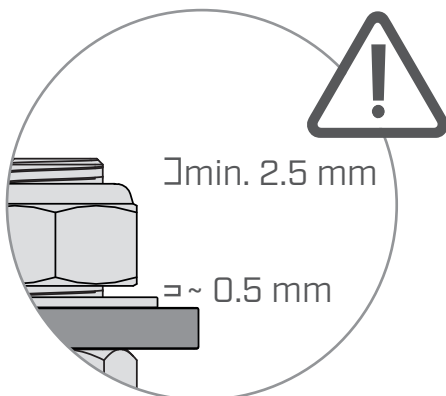
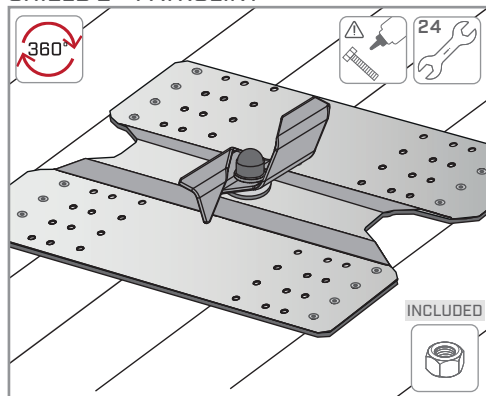
SHIELD 2 + PASINT



SHIELD 2 + PATROLMED

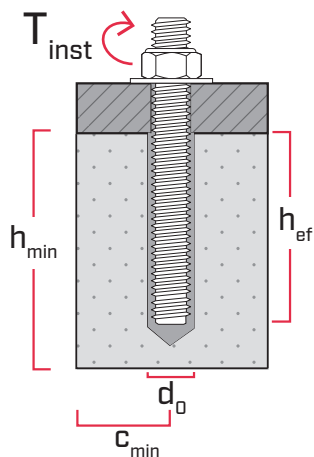
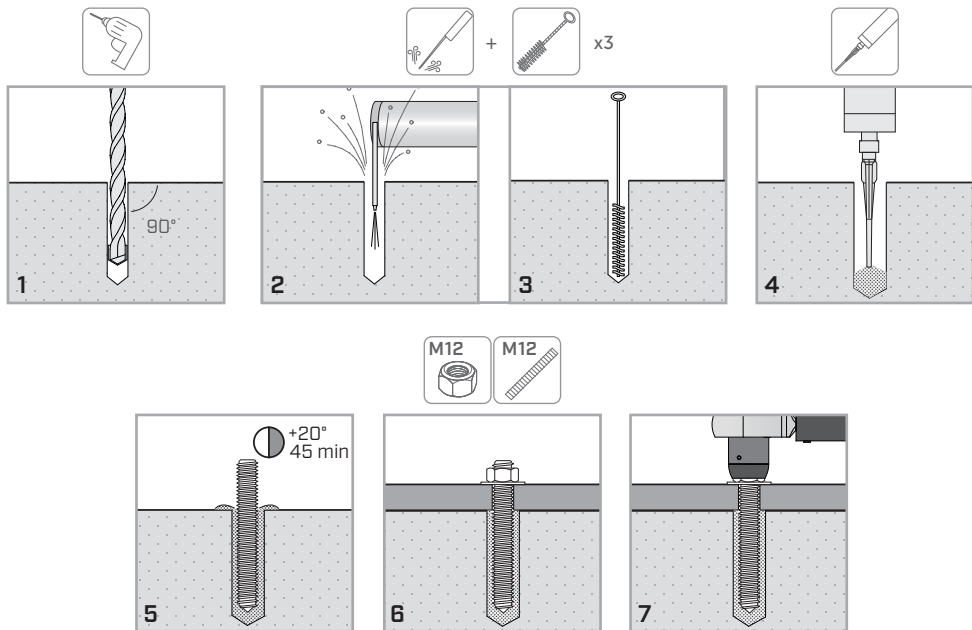


SHIELD 2 + PATROLINT



SUBSTRUCTURE INSTALLATION

CONCRETE



M12 - 5.8 min



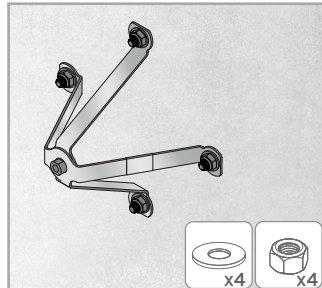
d	$=$	12 mm	d_0	$=$	14 mm
L	$\geq$	$h_{ef} + 25$ mm	h_{ef}	$=$	70 mm
T_{inst}	$=$	40 Nm	h_{min}	$=$	$h_{ef} + 30 \geq 100$ mm
			c_{min}	$\geq$	60 mm

CONCRETE

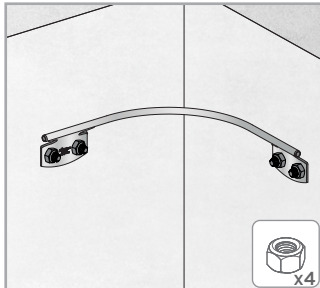


4 X M12

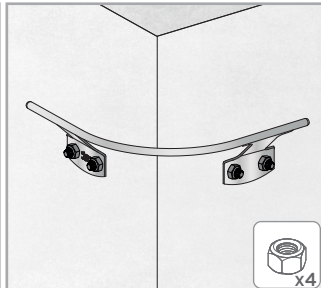
PAREND



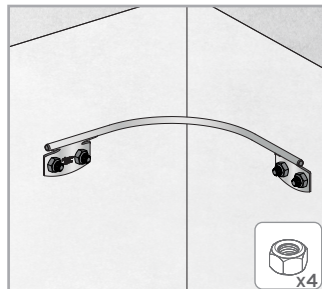
PARINBEND



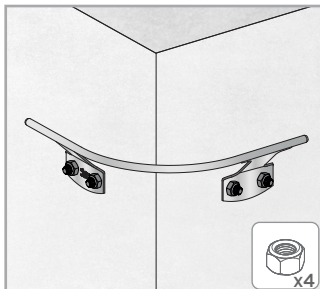
PAREXBEND



PARIN

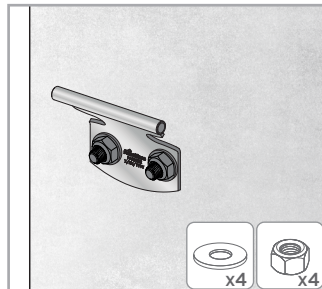


PAREX

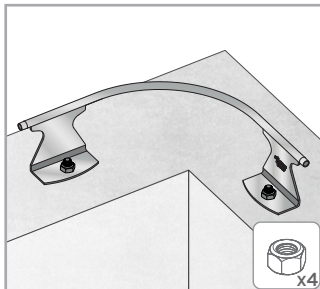


2 X M12

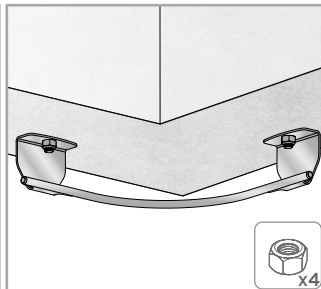
PARINTER



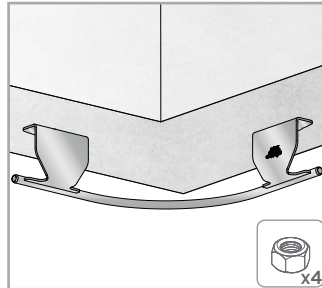
PASANGBEND



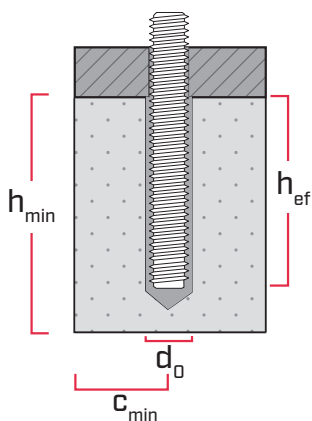
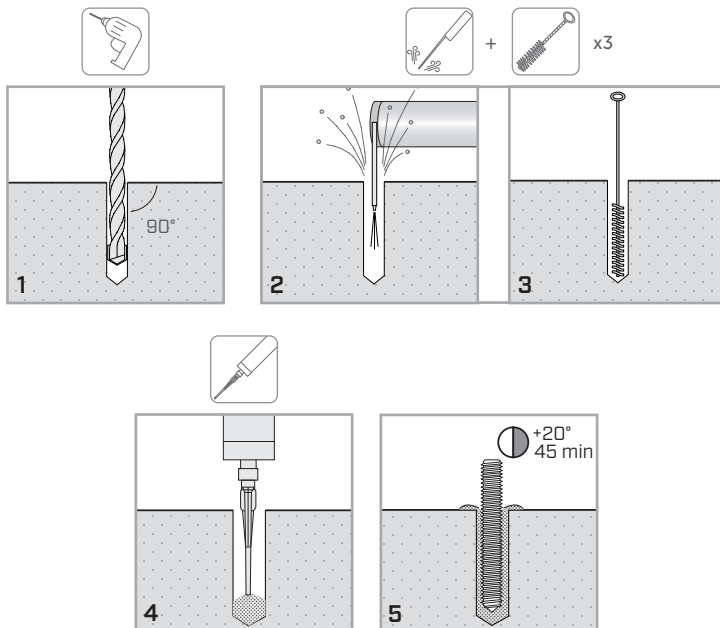
OHANGINT



OHANGEXT



SUBSTRUCTURE INSTALLATION CONCRETE

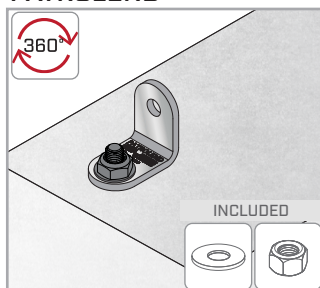


M16 - 5.8 min

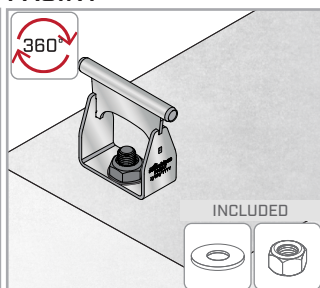


d	$=$	16 mm	d_0	$=$	18 mm
L	$\geq$	$h_{ef} + 30$ mm	h_{ef}	$=$	80 mm
c_{min}	$\geq$	80 mm	h_{min}	$=$	$h_{ef} + 30 \geq 100$ mm

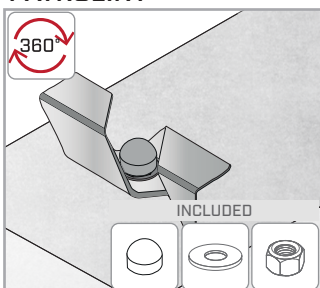
PATROLEND



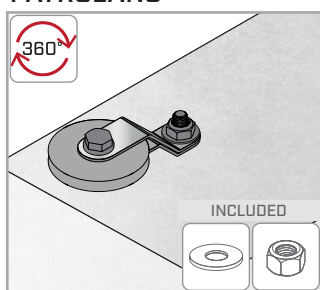
PASINT



PATROLINT



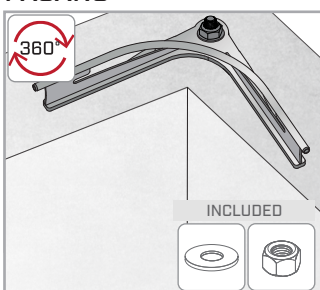
PATROLANG



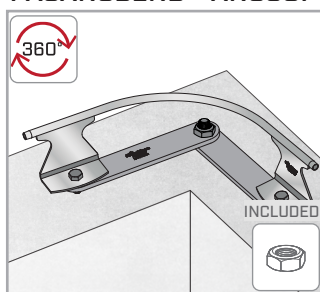
OHINT



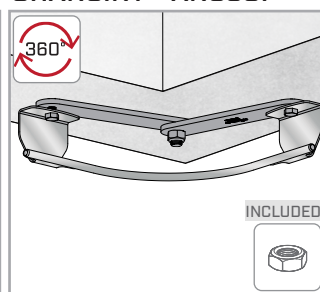
PASANG



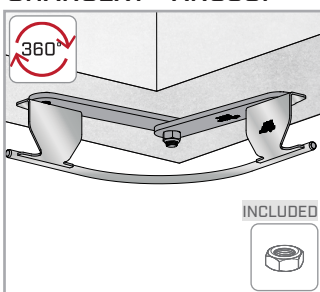
PASANGBEND + ANGUP



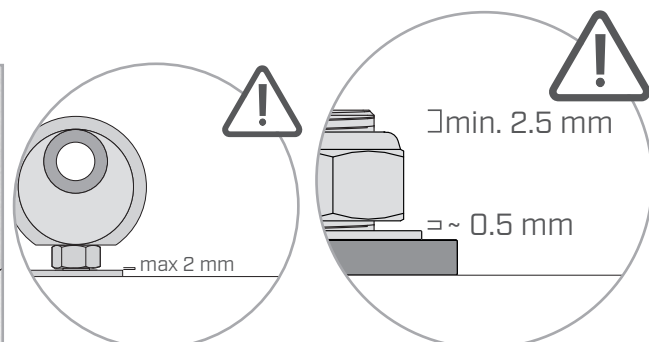
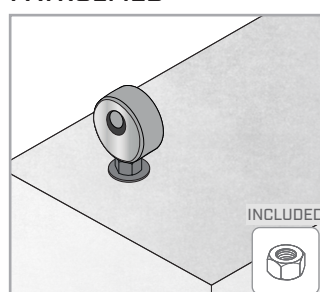
OHANGINT + ANGUP



OHANGEXT + ANGUP

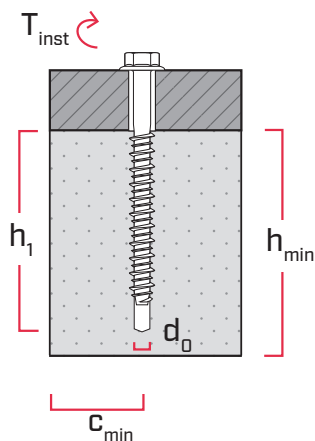
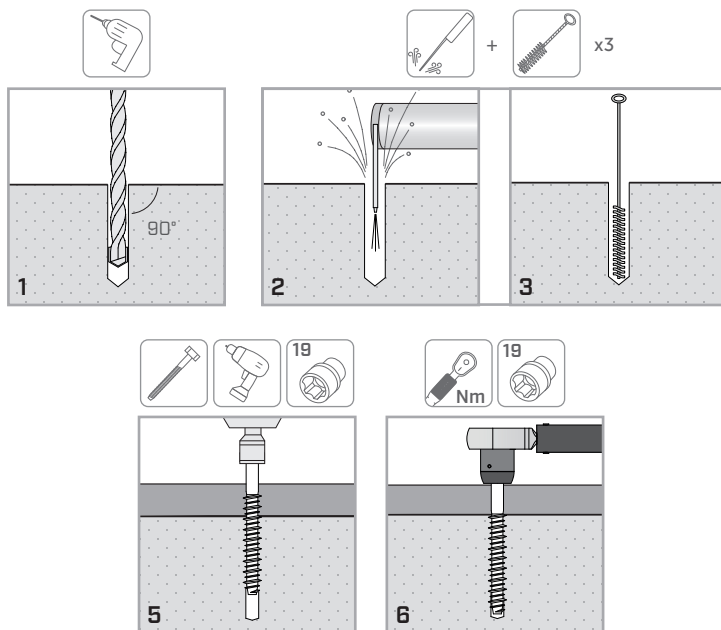


PATROLMED

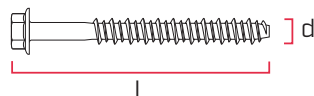


SUBSTRUCTURE INSTALLATION

CONCRETE



SKR CE 12 x 90 mm



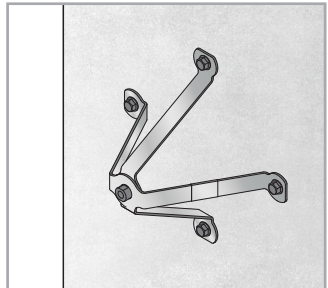
d	$=$	12 mm	d_0	$=$	10 mm
L	$=$	90 mm	h_1	$=$	100 mm
T_{inst}	$=$	80 Nm	h_{min}	$\geq$	130 mm
			c_{min}	$\geq$	96 mm

CONCRETE

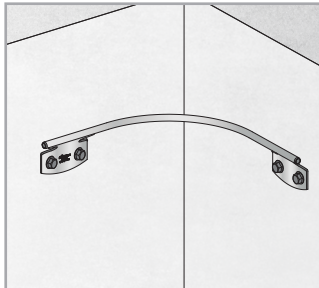


4 X M12

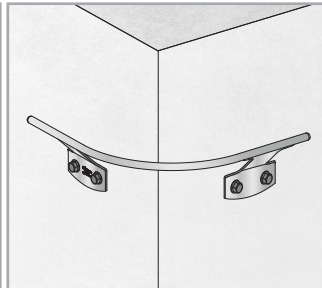
PAREND



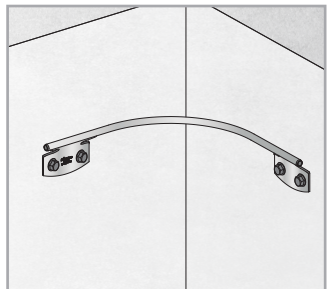
PARINBEND



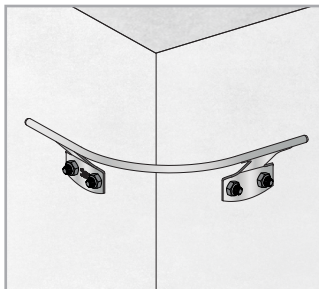
PAREXBEND



PARIN

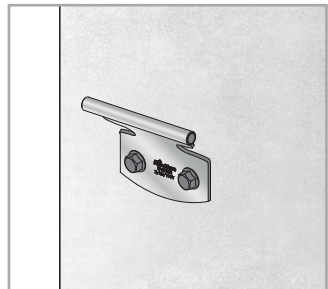


PAREX

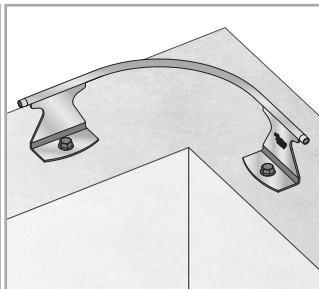


2 X M12

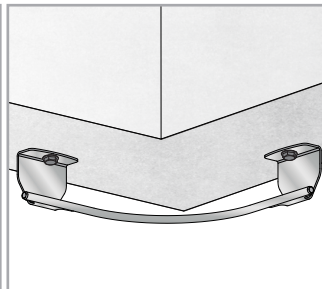
PARINTER



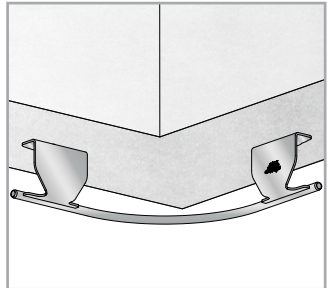
PASANGBEND



OHANGINT

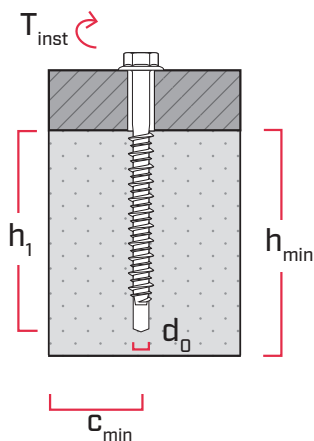
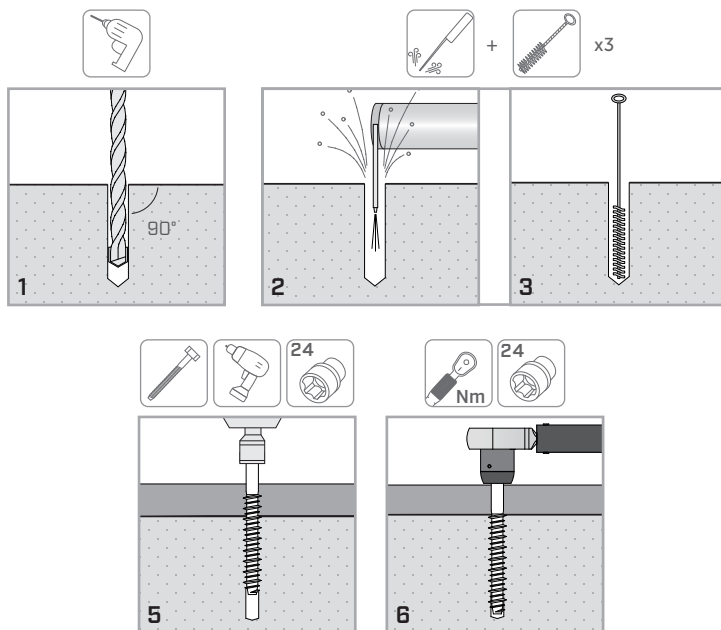


OHANGEXT

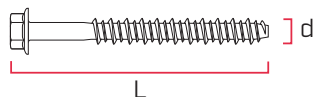


SUBSTRUCTURE INSTALLATION

CONCRETE



SKR CE 16 x 90 mm

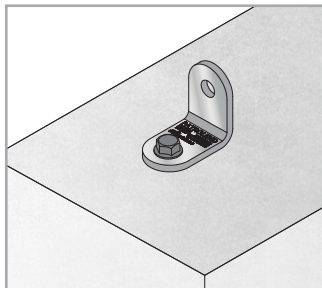


d	$=$	16 mm	d_0	$=$	14 mm
L	$=$	130 mm	h_1	$=$	140 mm
T_{inst}	$=$	160 Nm	h_{min}	$\geq$	170 mm
			c_{min}	$\geq$	80 mm

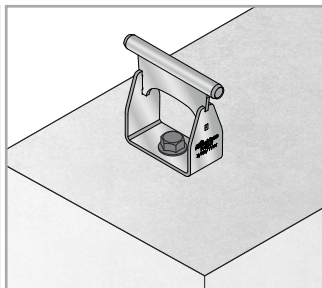
SUBSTRUCTURE INSTALLATION

CONCRETE

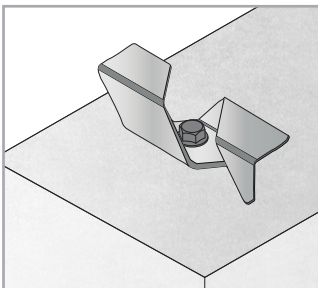
PATROLEND



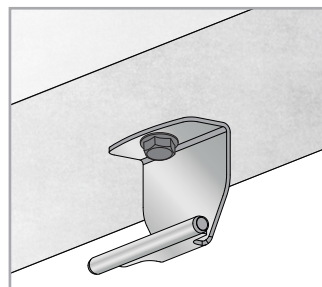
PASINT



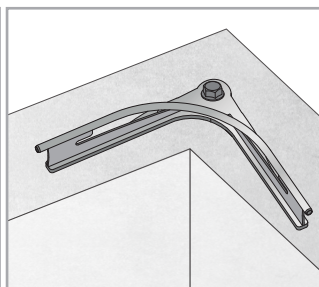
PATROLINT



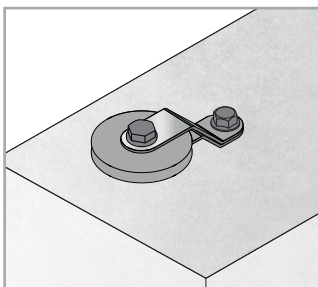
OHINT



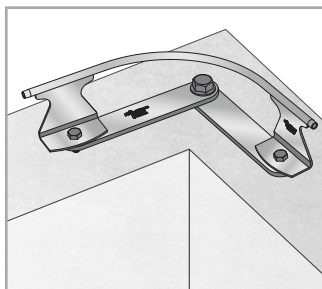
PASANG



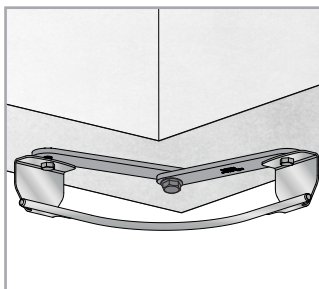
PATROLANG



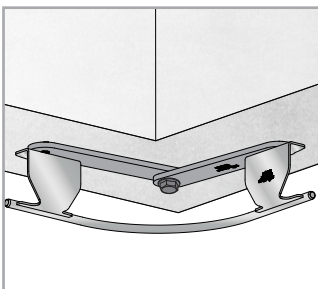
PASANGBEND + ANGSUP

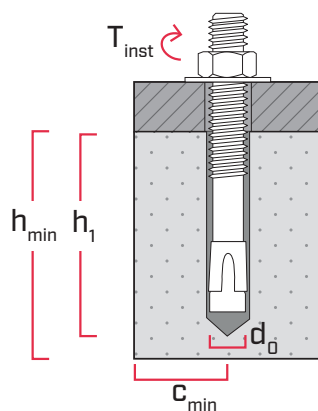
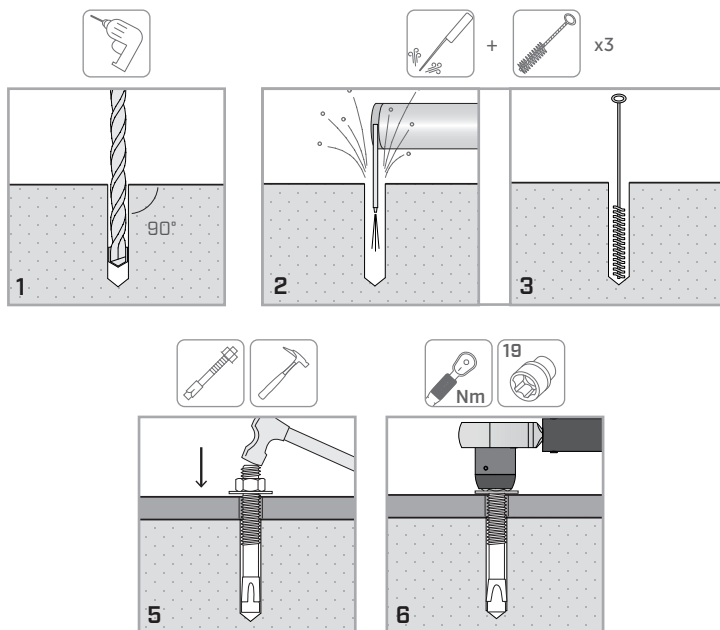


OHANGINT + ANGSUP

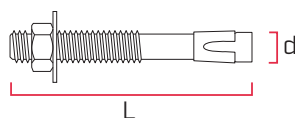


OHANGEXT + ANGSUP





AB1 12 x 100 mm



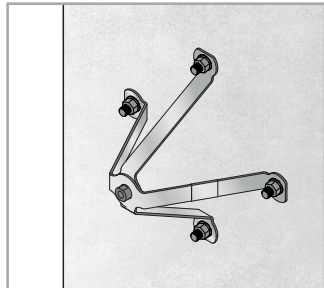
d	$=$	12 mm	d_0	$=$	12 mm
L	$=$	100 mm	h_1	$\geq$	85 mm
T_{inst}	$=$	60 Nm	h_{min}	$\geq$	140 mm
			c_{min}	$\geq$	70 mm

SUBSTRUCTURE INSTALLATION

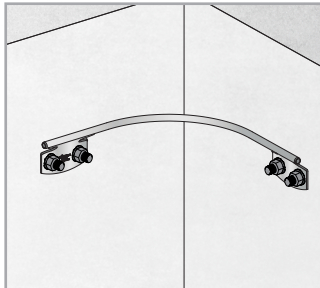
CONCRETE

4 X M12

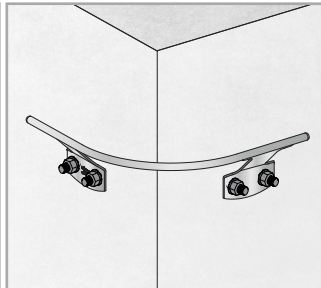
PAREND



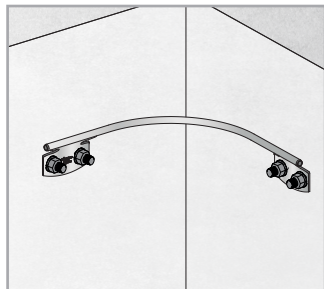
PARINBEND



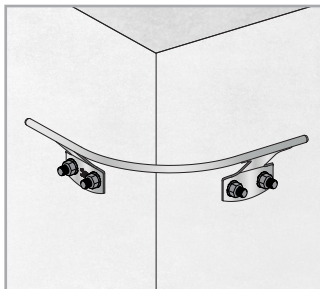
PAREXBEND



PARIN

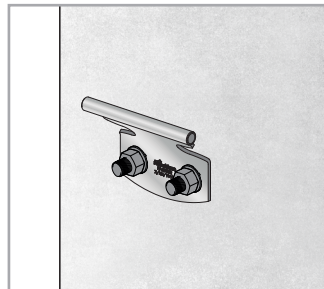


PAREX

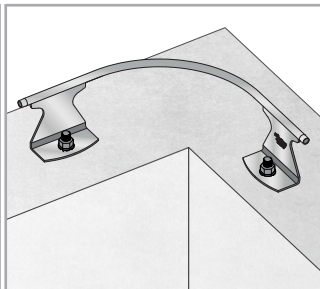


2 X M12

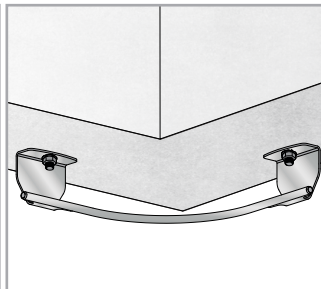
PARINTER



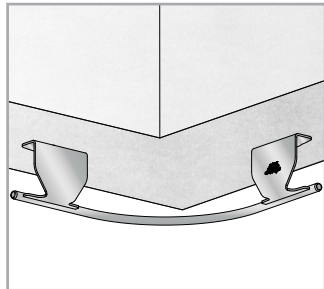
PASANGBEND

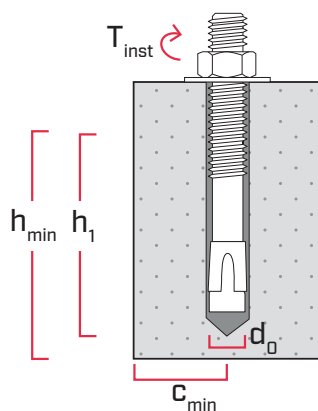
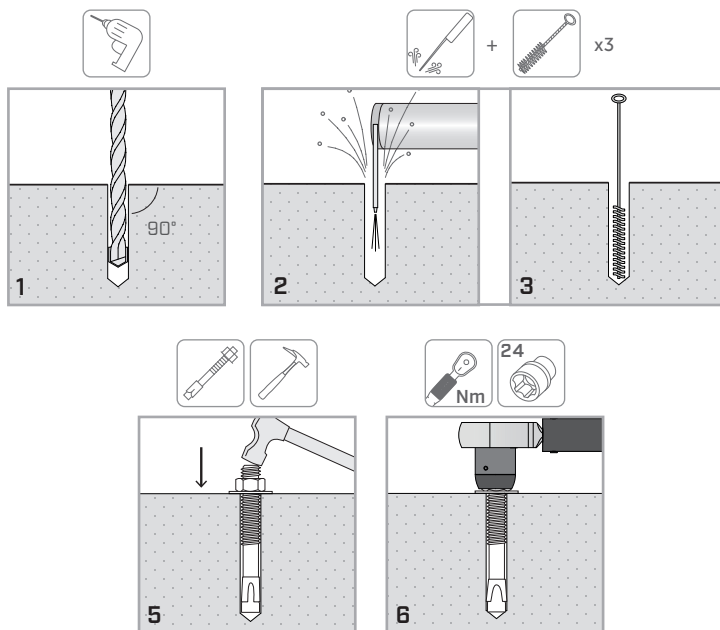


OHANGINT

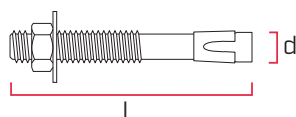


OHANGEXT



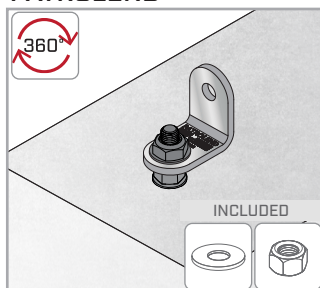


AB1 16 x 145 mm

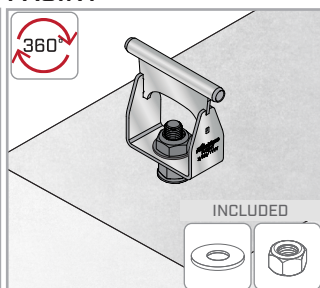


d	$=$	16 mm	d_0	$=$	16 mm
L	$=$	145 mm	h_1	$\geq$	105 mm
T_{inst}	$=$	100 Nm	h_{min}	$\geq$	170 mm
			c_{min}	$\geq$	85 mm

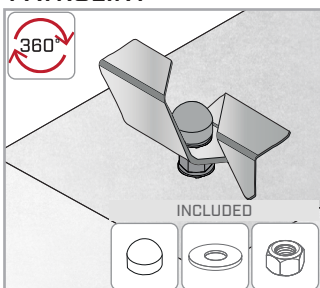
PATROLEND



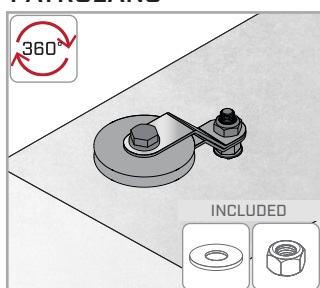
PASINT



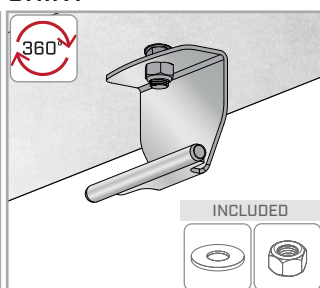
PATROLINT



PATROLANG



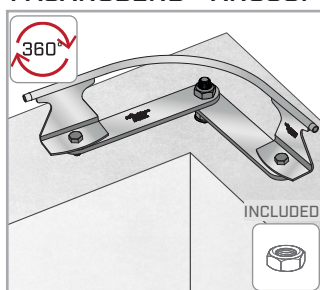
OHINT



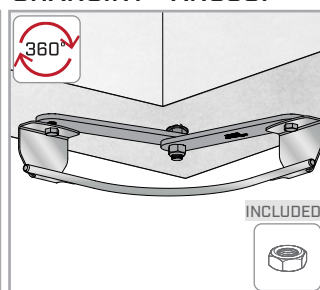
PASANG



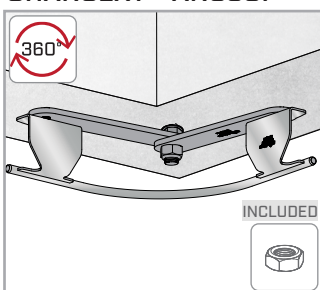
PASANGBEND + ANG SUP



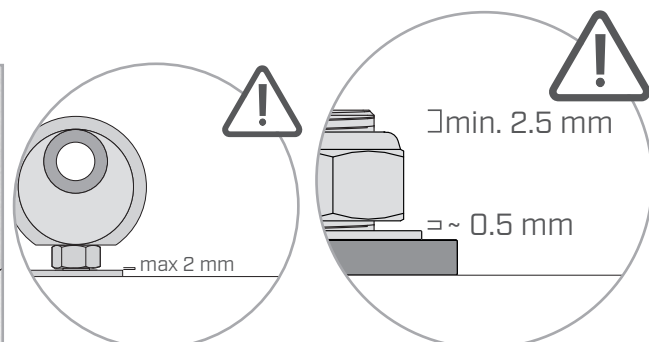
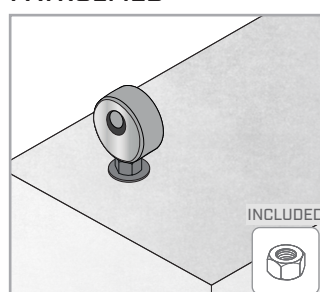
OHANGINT + ANG SUP



OHANGEXT + ANG SUP



PATROLMED



SUBSTRUCTURE INSTALLATION

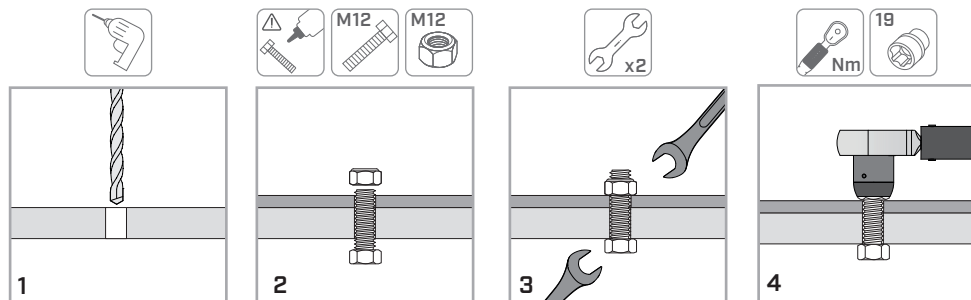
STEEL



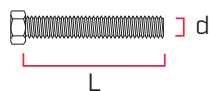
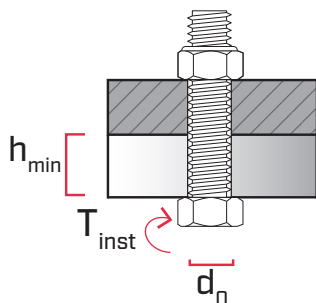
S235



SELF-LOCKING
NUT



M12 - A2-70



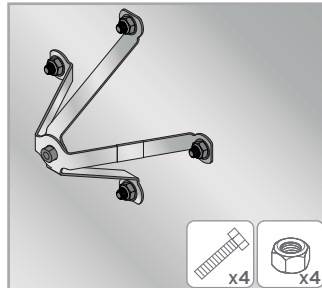
d	=	12 mm	d ₀	=	12,5 mm
L	≥	h _{min} + 25 mm	h _{min}	≥	5 mm
A2-70	►	T _{inst} = 30 Nm			

SUBSTRUCTURE INSTALLATION

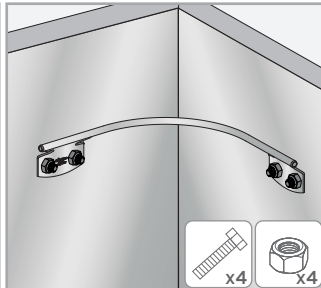
STEEL

4 X M12

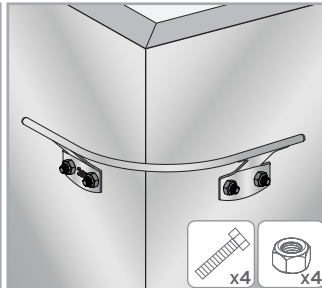
PAREND



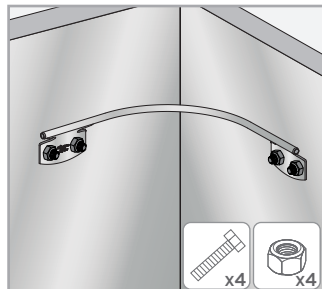
PARINBEND



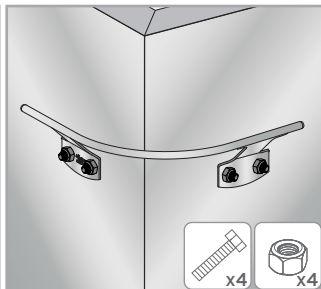
PAREXBEND



PARIN

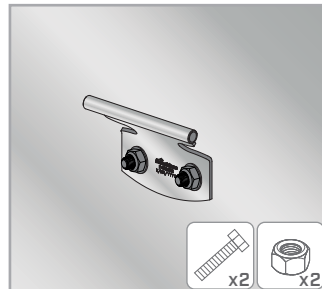


PAREX

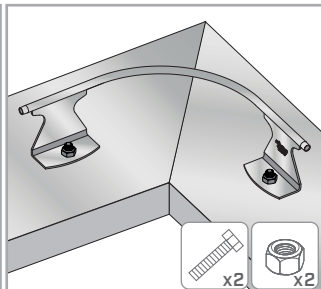


2 X M12

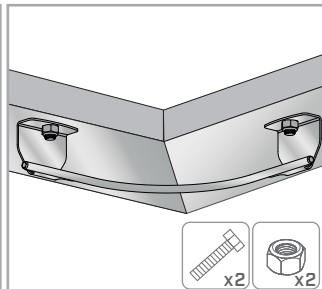
PARINTER



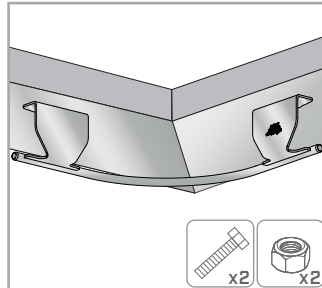
PASANGBEND



OHANGINT

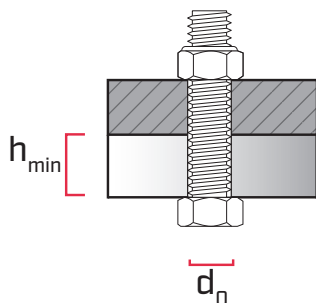
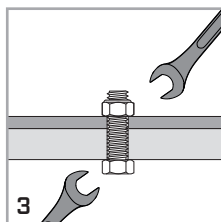
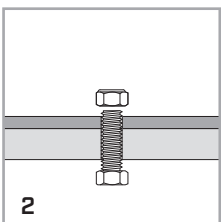
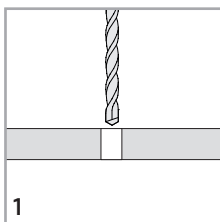


OHANGEXT

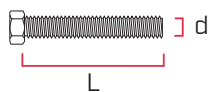




S235

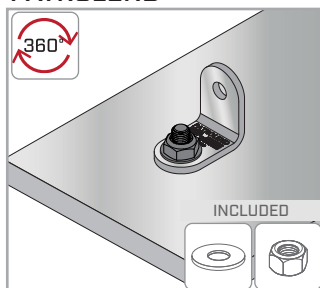


M16 - A2-70

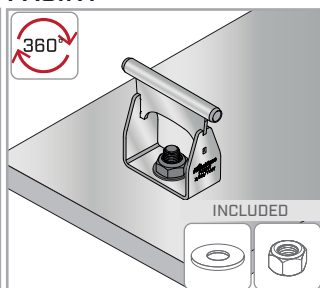


d	$=$	16 mm	$ $	d_0	$=$	16,5 mm
L	$\geq$	$h_{min} + 45$ mm	$ $	h_{min}	$\geq$	5 mm

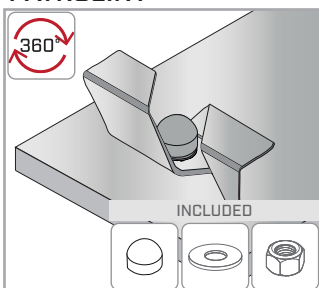
PATROLEND



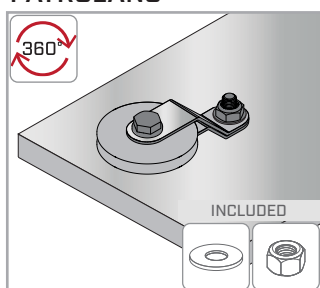
PASINT



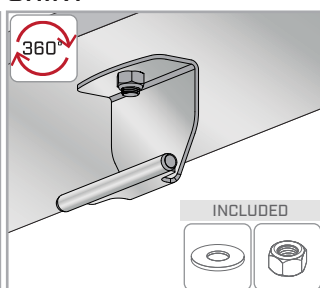
PATROLINT



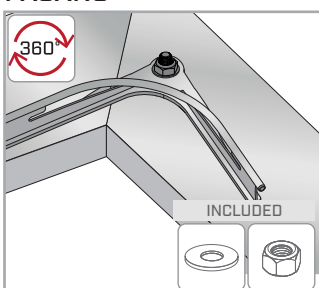
PATROLANG



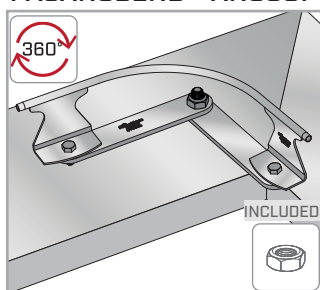
OHINT



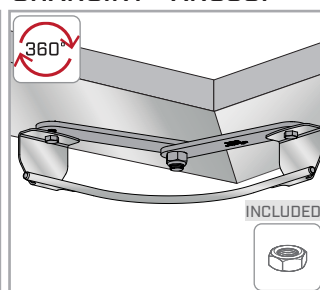
PASANG



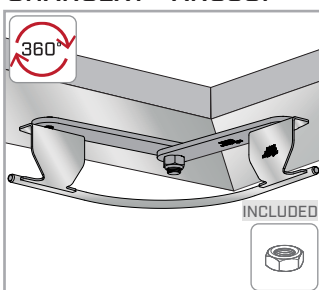
PASANGBEND + ANG SUP



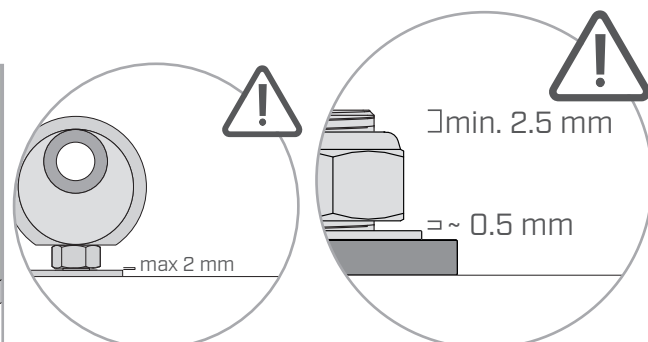
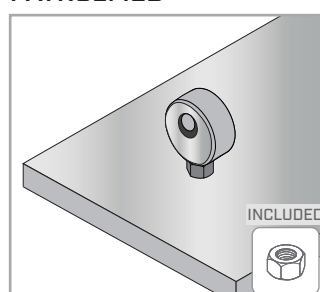
OHANGINT + ANG SUP



OHANGEXT + ANG SUP



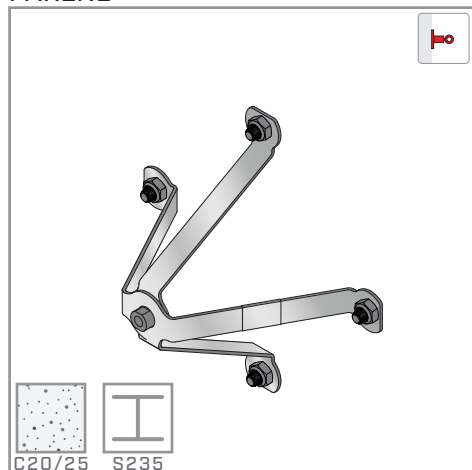
PATROLMED



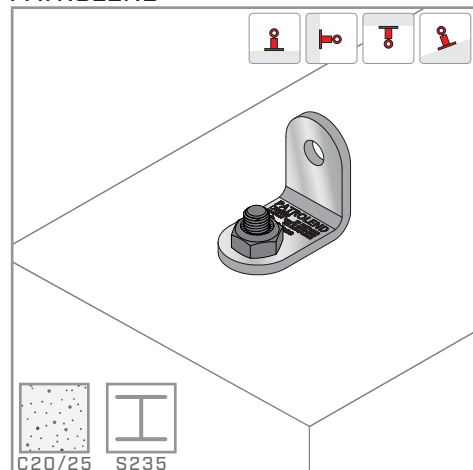
PATROL + SPEAREVO INSTALLATION

■ TERMINAL SUPPORT INSTALLATION

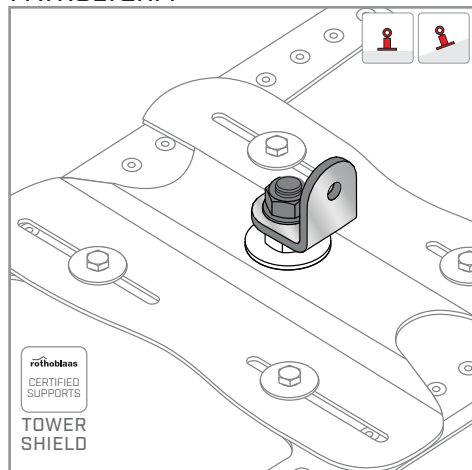
PAREND



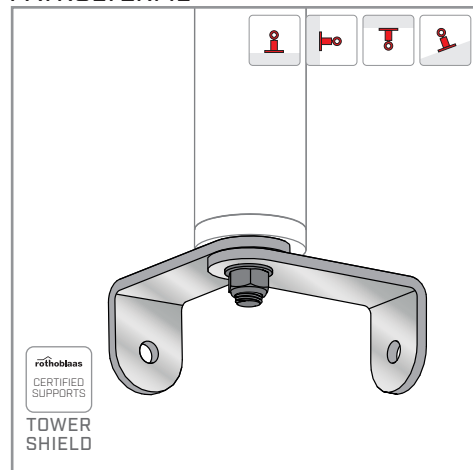
PATROLEND



PATROLTERM

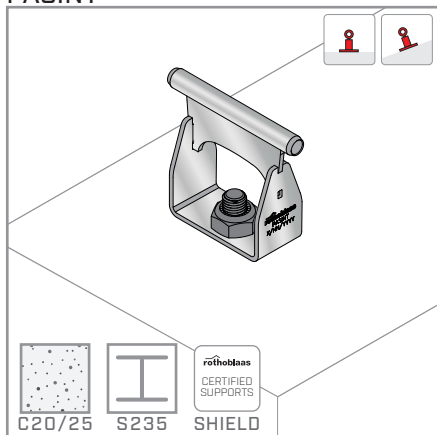


PATROLTERML

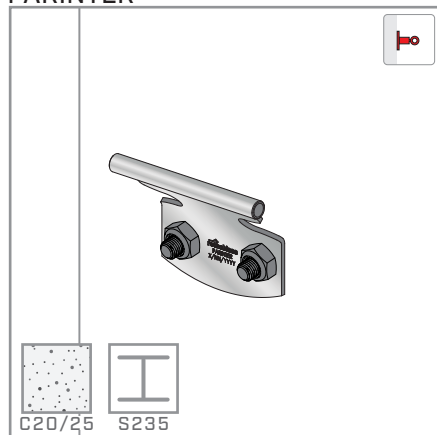


■ INTERMEDIATE SUPPORTS INSTALLATION

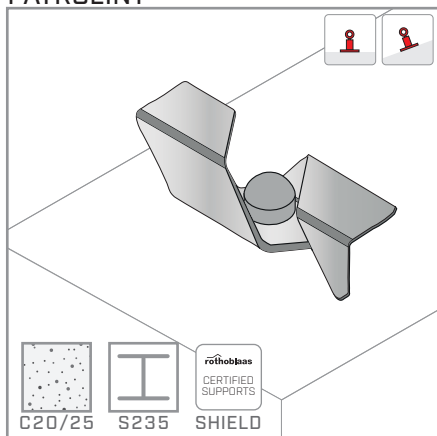
PASINT



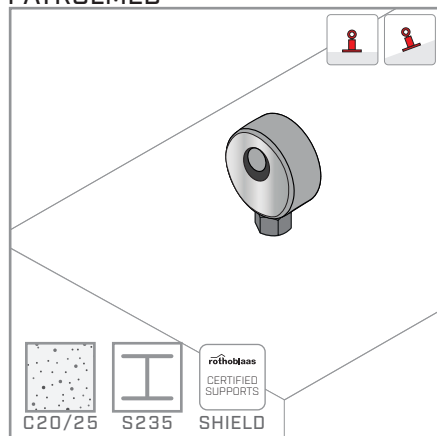
PARINTER



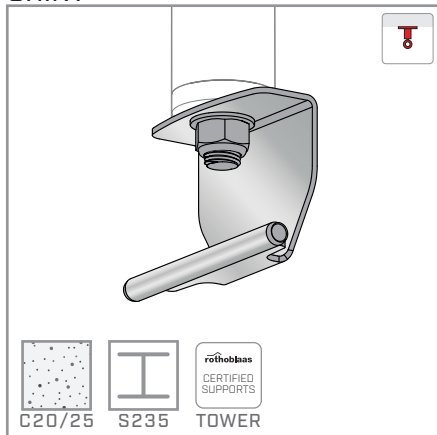
PATROLINT



PATROLMED

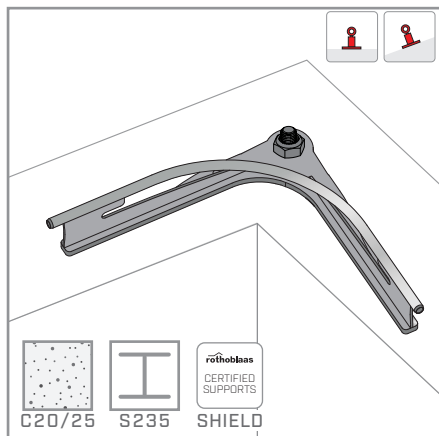


OHINT

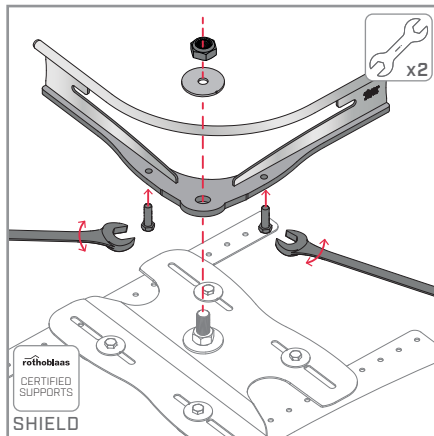


CORNER SUPPORT INSTALLATION

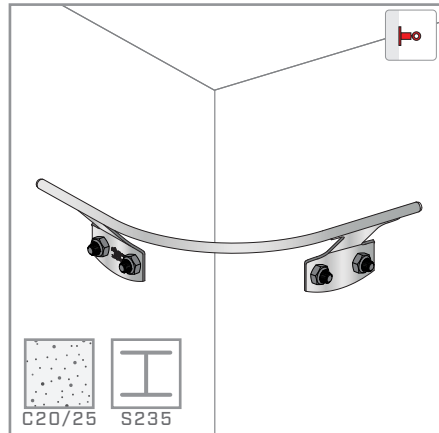
PASANG



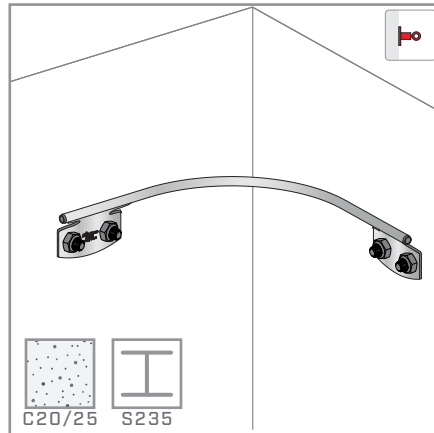
PASANG + SHIELD



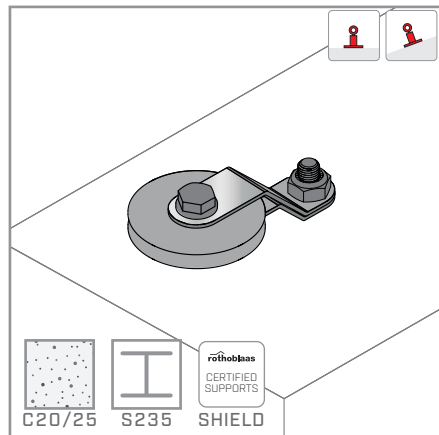
PARIN



PAREX

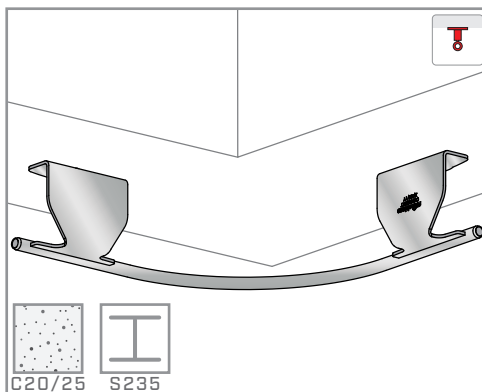


PATROLANG

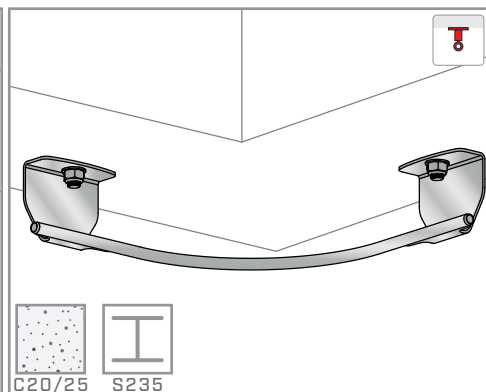


CORNER INSTALLATION

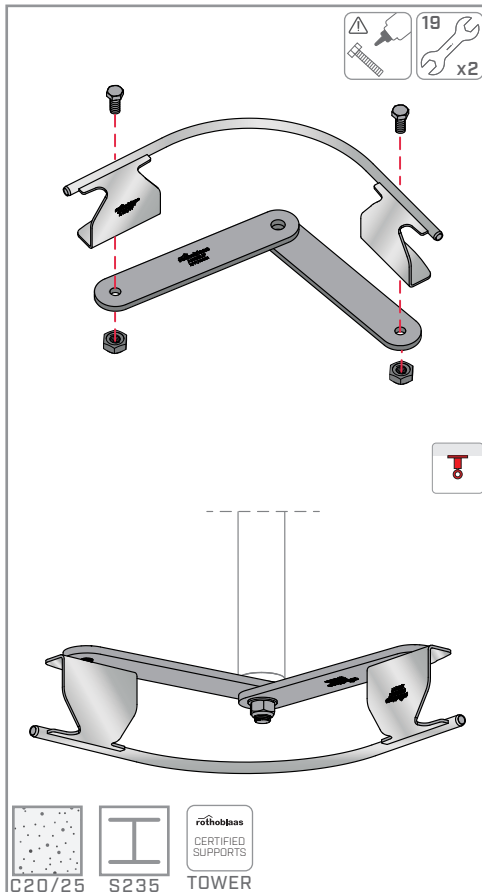
OHANGEXT



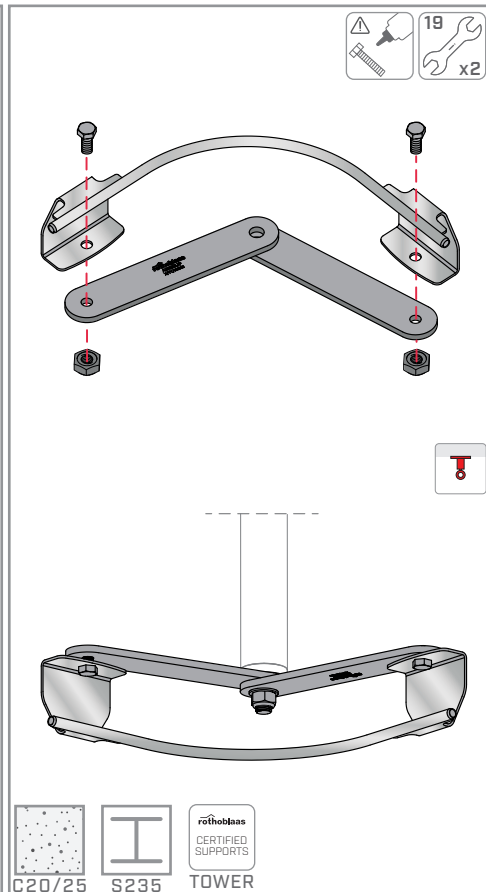
OHANGINT



OHANGEXT + ANGSUP

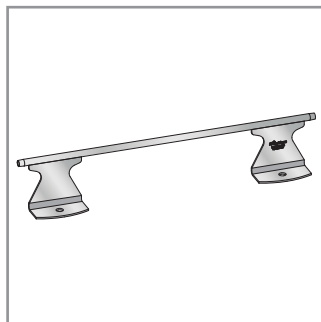


OHANGINT + ANGSUP

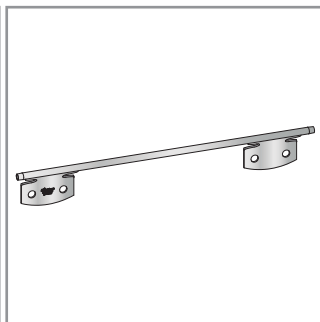


■ ADJUSTABLE CORNER SUPPORT INSTALLATION

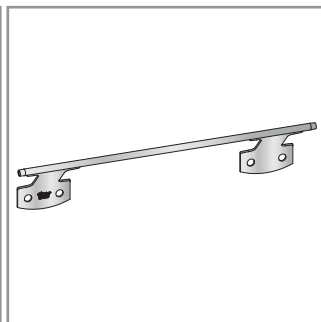
PASANGBEND



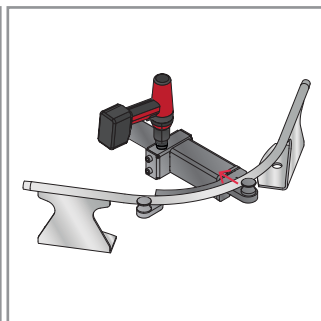
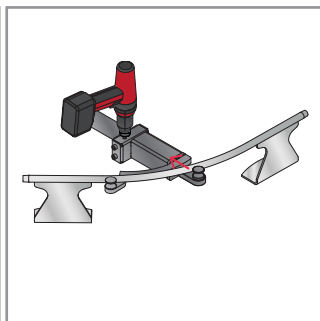
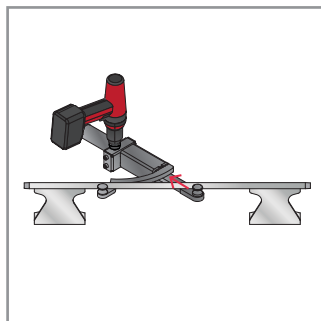
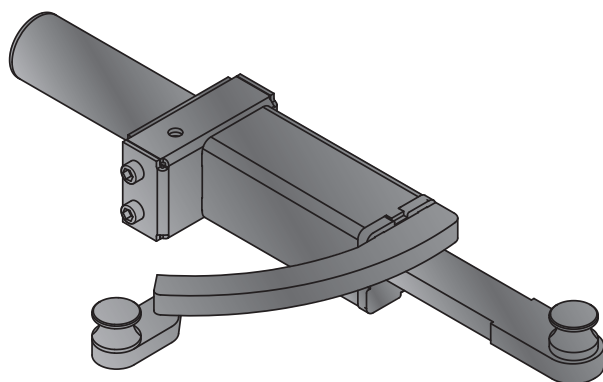
PARINBEND



PAREXBEND



BENDTOOL

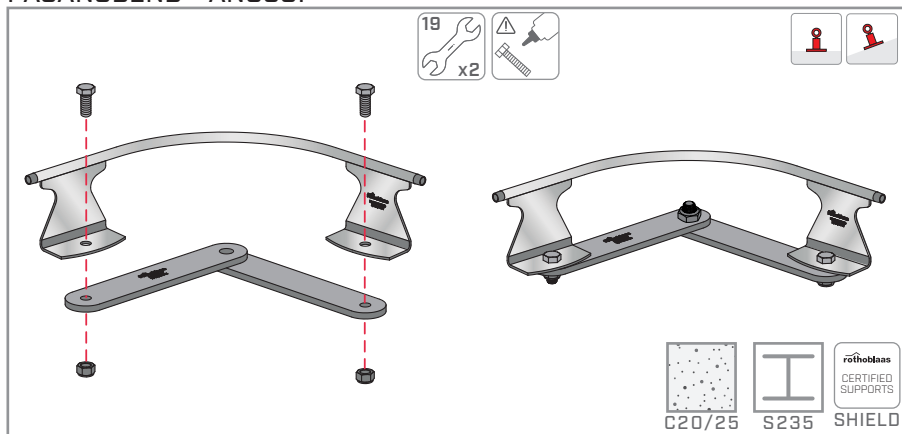


ADJUSTABLE CORNER SUPPORT INSTALLATION

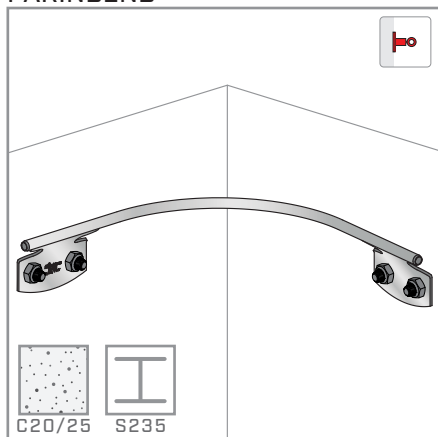
PASANGBEND



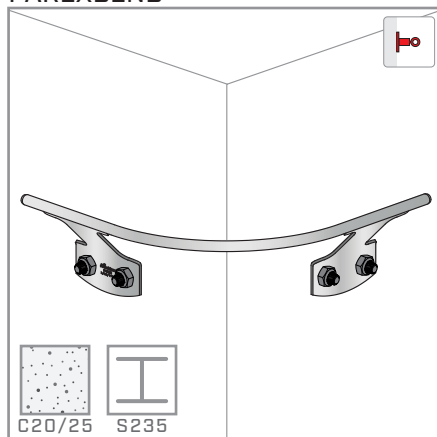
PASANGBEND + ANG SUP



PARINBEND



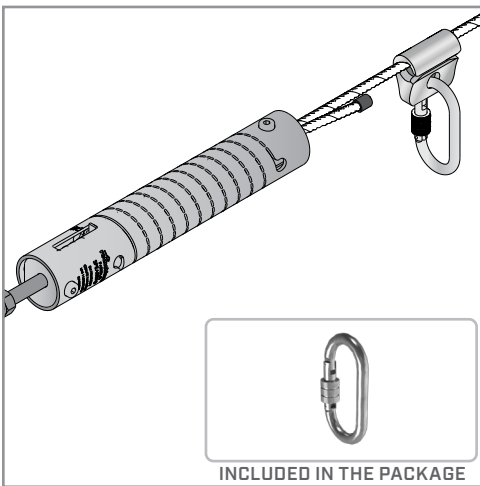
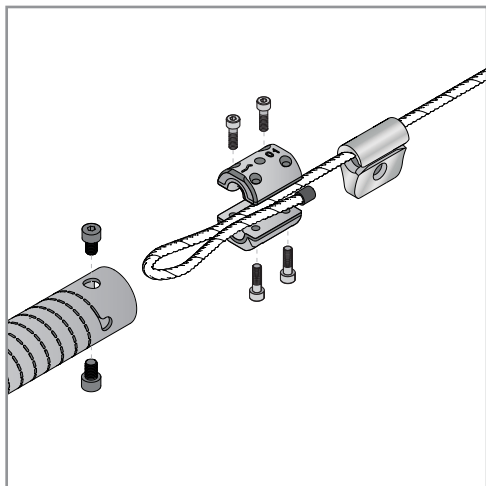
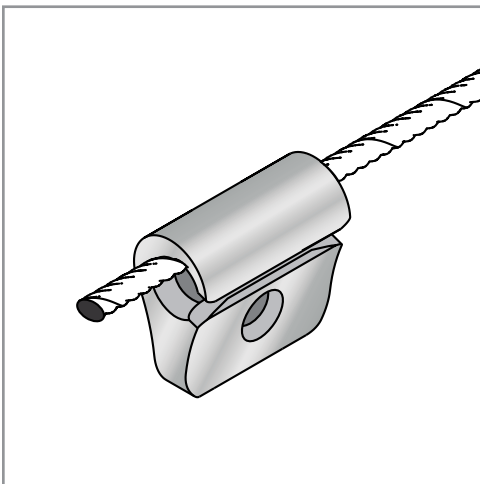
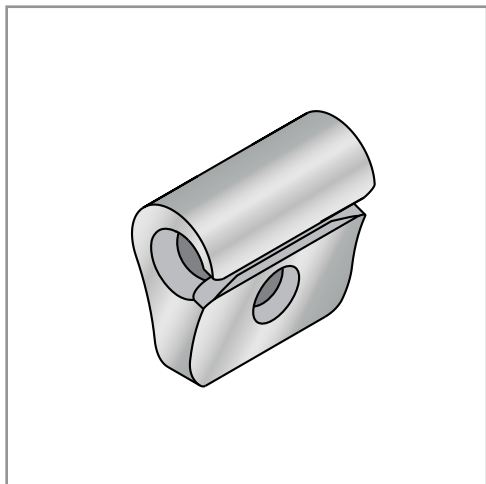
PAREXBEND



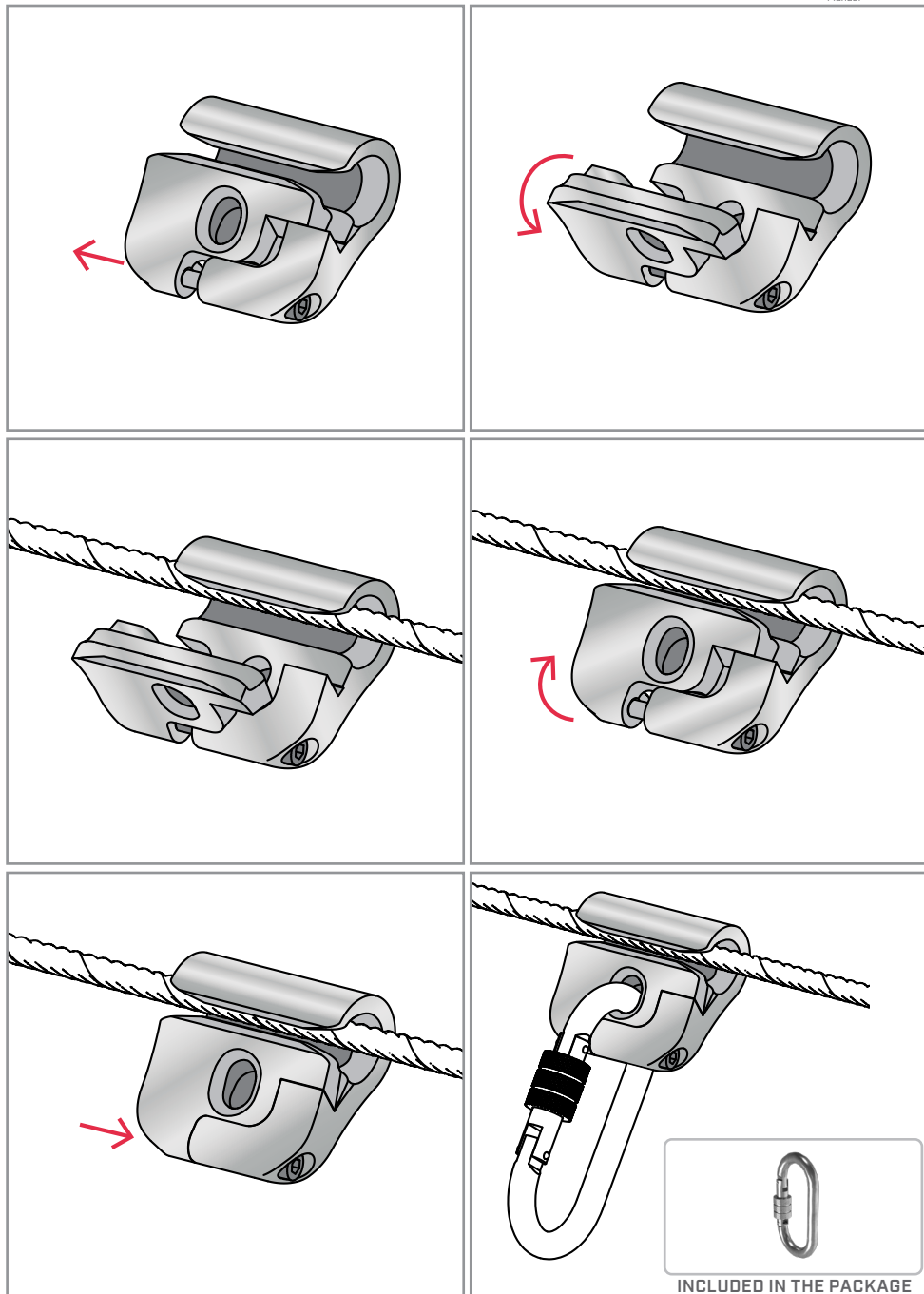
SLIDE 2 INSTALLATION



SLIDE - SLIDE2 - OHSLIDE
Installation
Manual



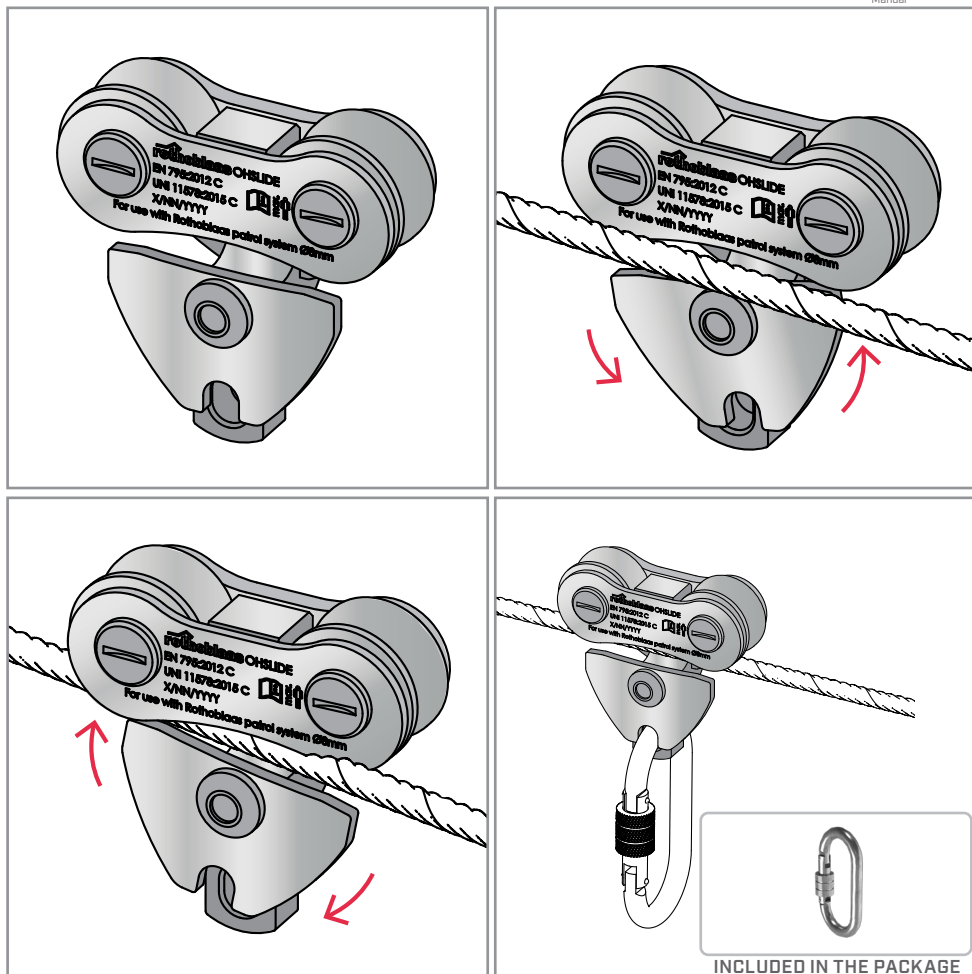
SLIDE INSTALLATION



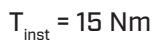
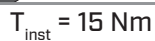
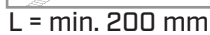
OHSLIDE INSTALLATION



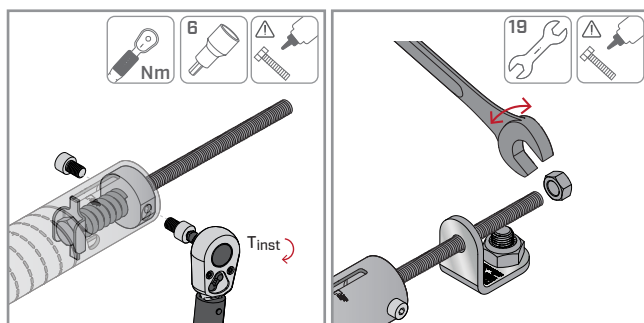
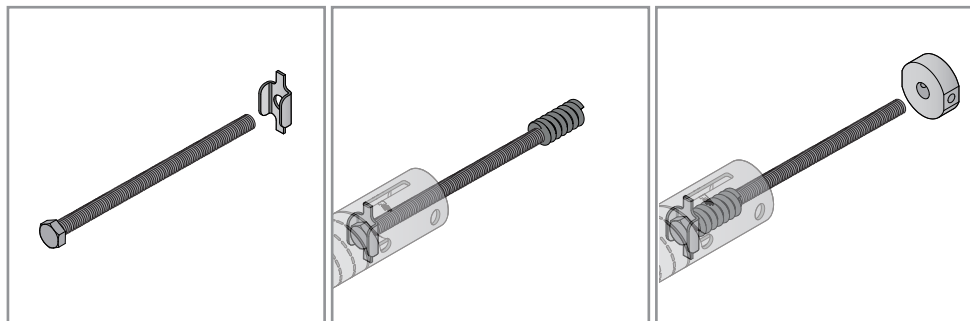
SLIDE - SLIDE2 - OHSLIDE
Installation
Manual



SPEAREVO INSTALLATION

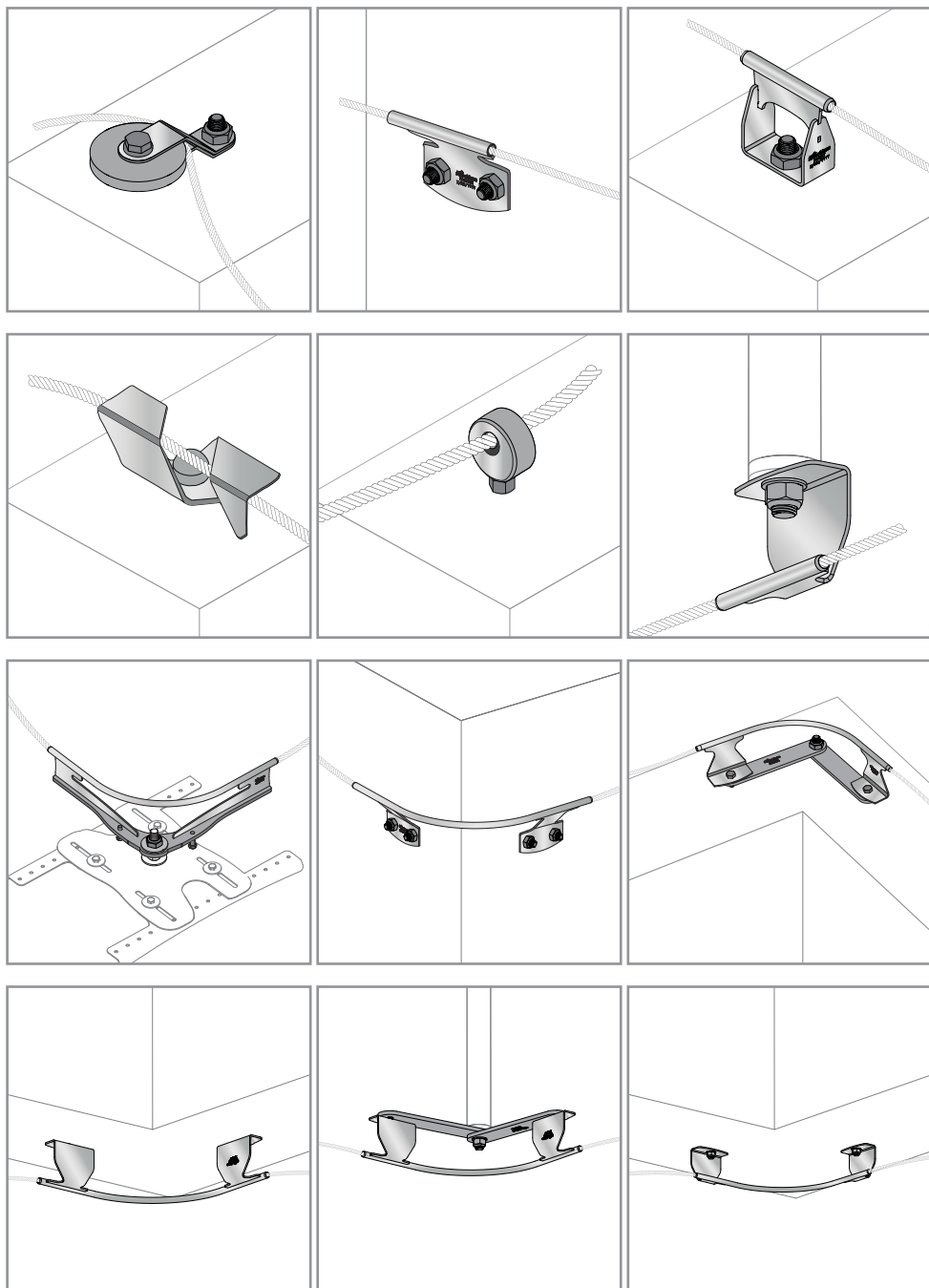


SPEAREVO INSTALLATION

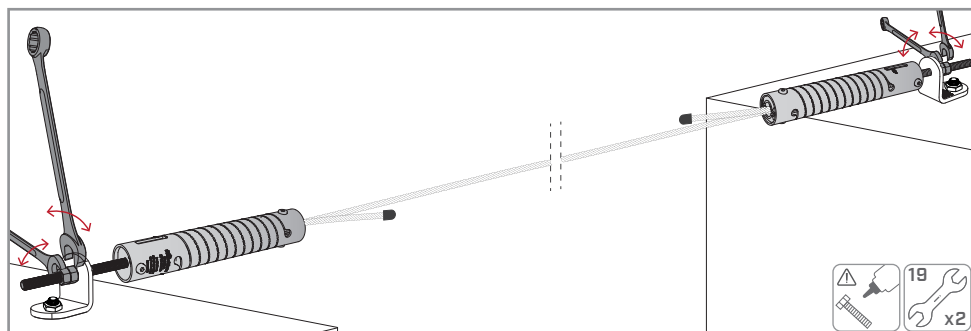
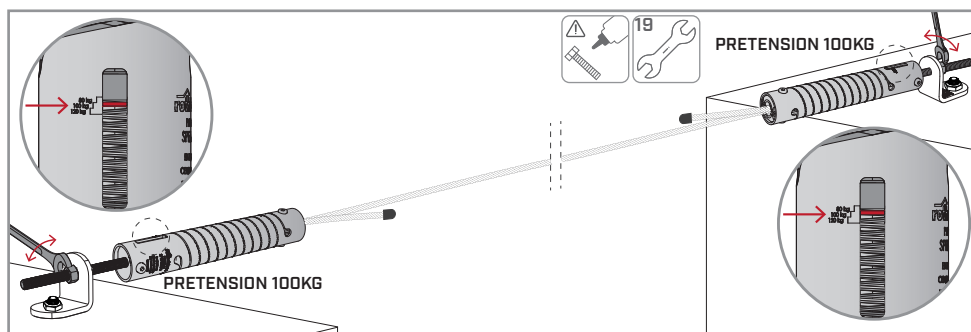
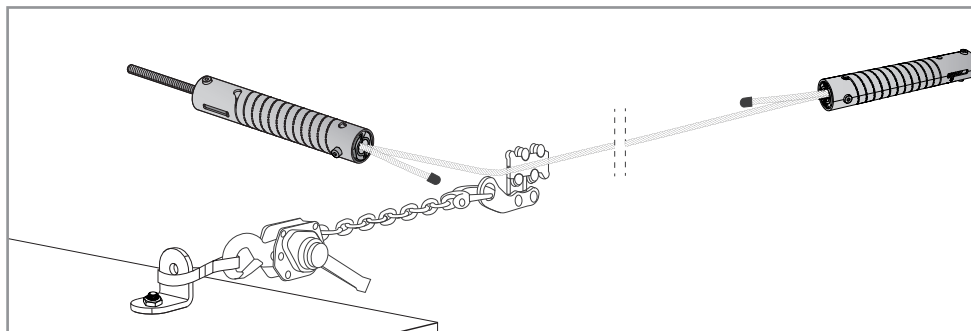
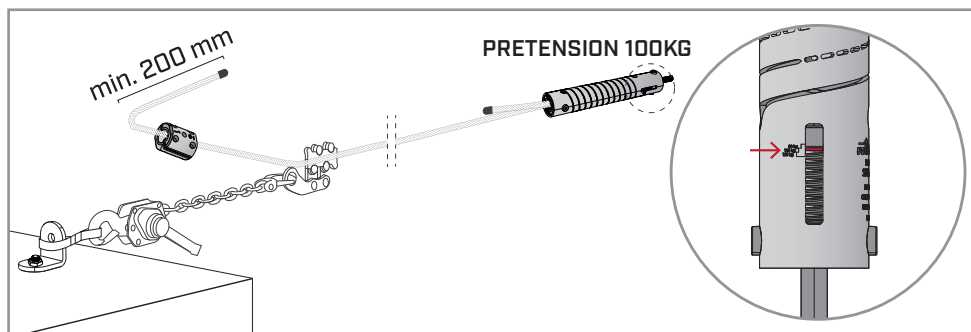


$T_{inst} = 15 \text{ Nm}$

CABLE INSTALLATION



SPEAREVO INSTALLATION





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09-23

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