

PATROL + SPEAREVO

INSTALLATION MANUAL



INCLUDED IN THE PACKAGE



**PATROL +
SPEAREVO**
Installation
Manual

+

⚠ read also:



**PATROL +
SPEAREVO**
Safety
Regulations

=



AS/NZS
1891.2:2001

AS/NZS
1891.4:2009

EN
795:2012
C

EN
795:2012
C+E

CEN/TS
16415:2013

UNI
11578:2015
C

UNI
11578:2015
C+E

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
**PATROL+
SPEAREVO**
Installation
Manual



2
**PATROL+
SPEAREVO**
Safety
Regulations

TOOLS



(1) VINYLESTER CHEMICAL ANCHOR
WITHOUT STYRENE

INFORMATIONS

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)

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 patyriusiam personalui, prieš tai perkaicius ir supratęs **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 atiecīgās 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** VEILIGHEIDSVORSCHRIFTEN 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 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** SÄKERHETSFÖRESKRIFTER har lästs igenom på språket i installationslandet.
- TR** Sadece yetkili personel, **1** KURULUM KILAVUZUNDA ve **2** GÜVENLİK MEVZUATINI (**2**) 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** نظراً للسلامة **2** بلغة البلد المستخدم فيها المنتج



1
PATROL+
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Installation
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2
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SPEAREVO
Safety
Regulations

PRODUCT INFORMATION

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

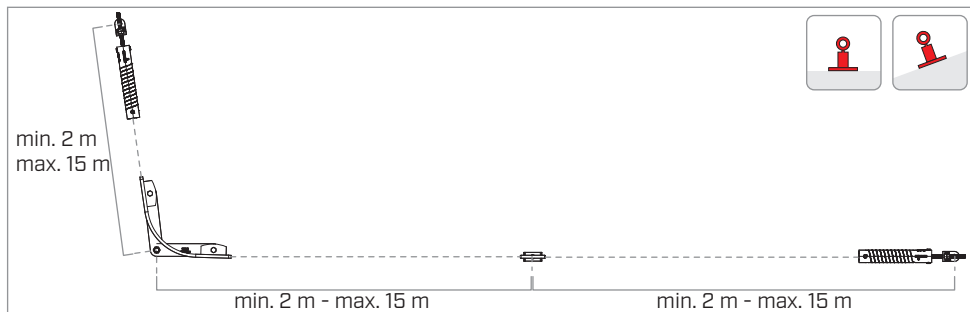


- IT** △ Verificare idoneità statica del sottofondo di montaggio!
- DE** △ Die statische Eignung des Montageuntergrundes sicherstellen!
- EN** △ Check the static suitability of the installation substrate!
- ES** △ ¡Compruebe la idoneidad estática del sustrato de montaje!
- FR** △ Vérifier l'adéquation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

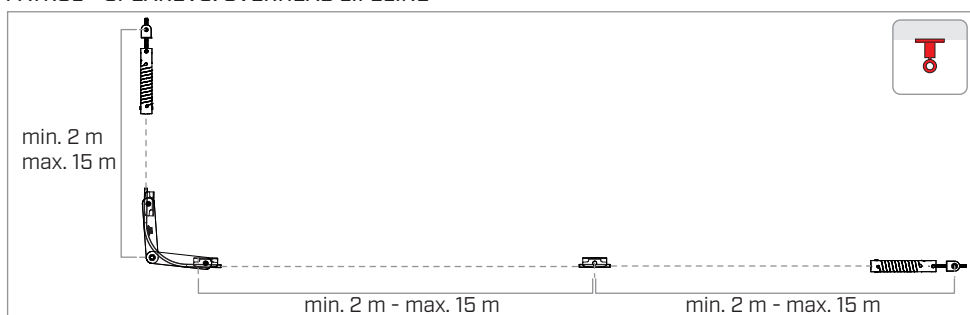


■ TECHNICAL DATA

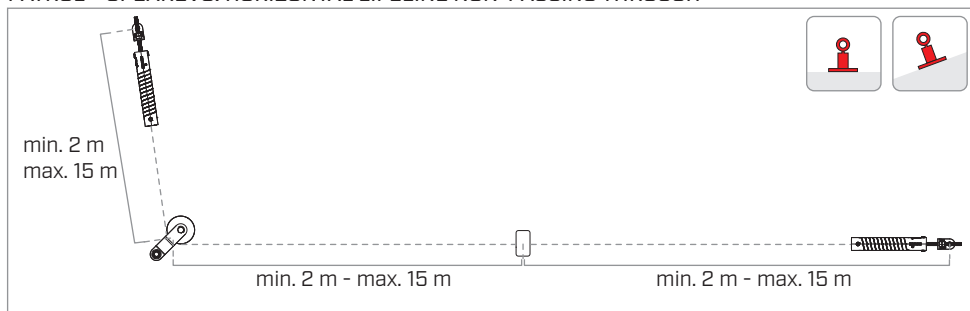
PATROL + SPEAREVO: HORIZONTAL LIFELINE PASSING THROUGH



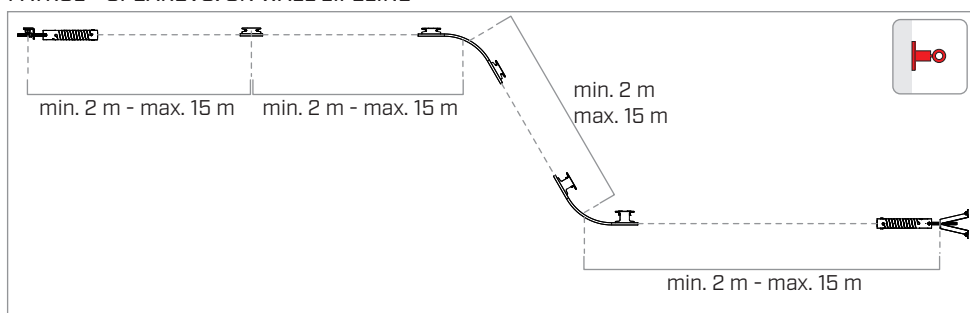
PATROL + SPEAREVO: OVERHEAD LIFELINE



PATROL + SPEAREVO: HORIZONTAL LIFELINE NON-PASSING THROUGH

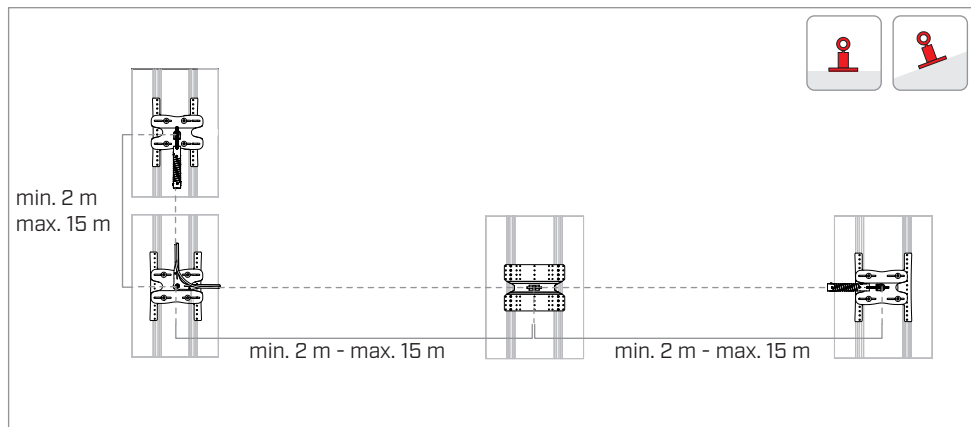


PATROL + SPEAREVO: ON WALL LIFELINE

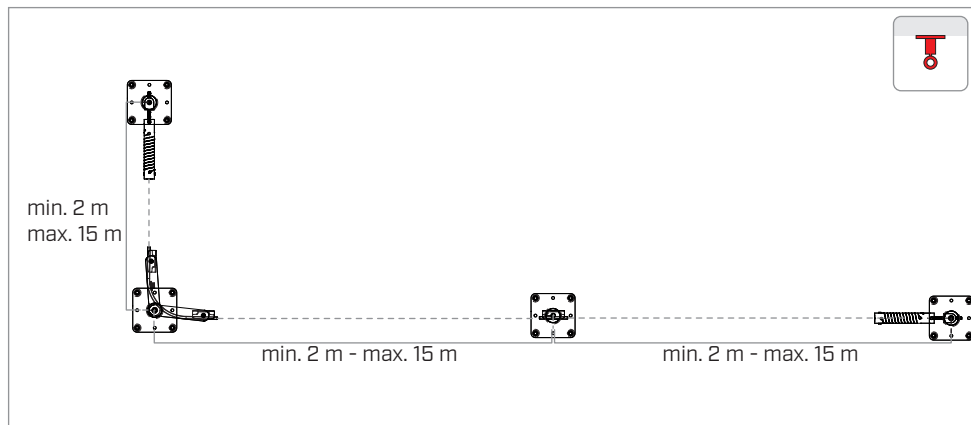


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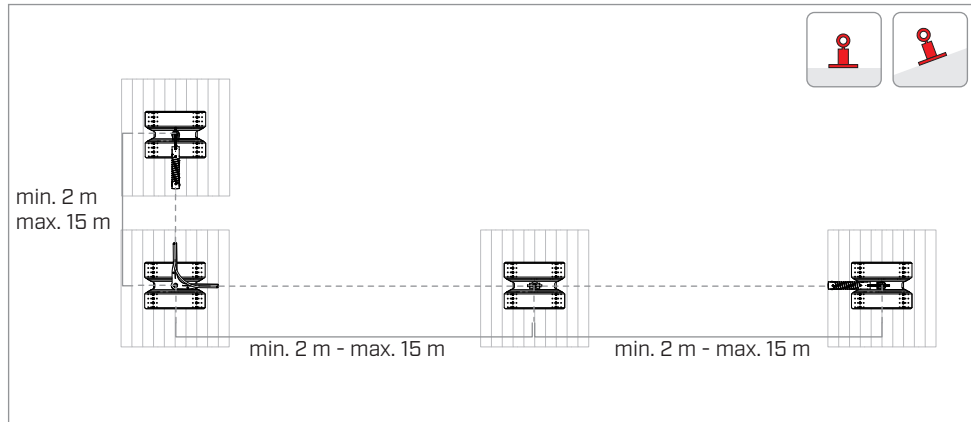
PATROL + SPEAREVO + SHIELD (+ SHIELD 2)



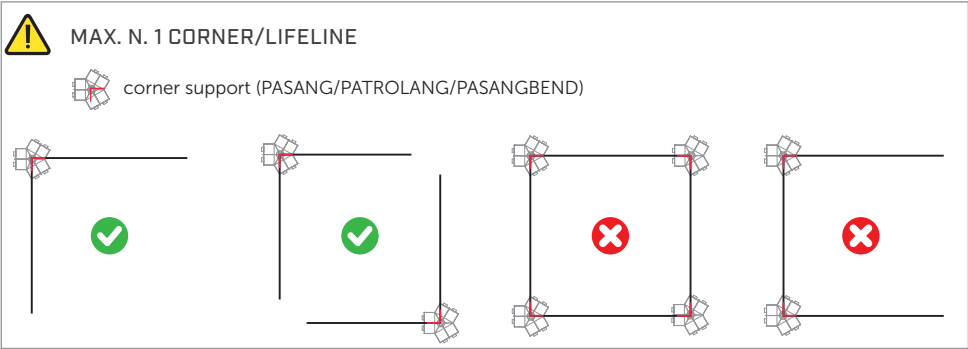
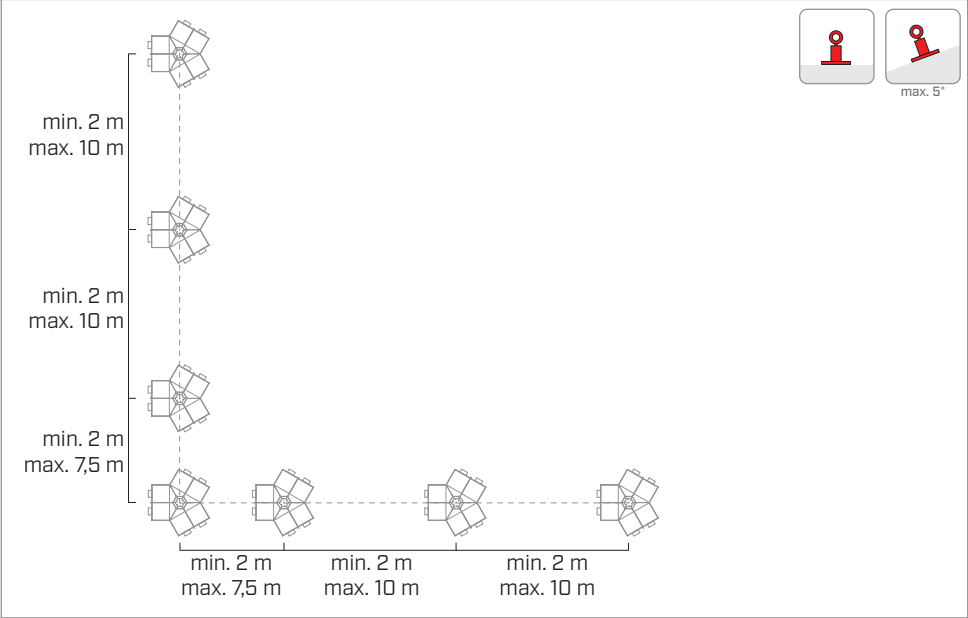
PATROL + SPEAREVO + TOWER: OVERHEAD LIFELINE



PATROL + SPEAREVO + WAVE



PATROL + SPEAREVO + BLOCK



PATROLEND - PATROLEND A4



1.4301
AISI304
INOX

PATROLEND

1.4401
AISI316
INOX

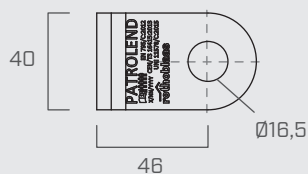
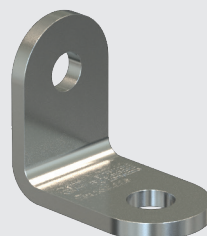
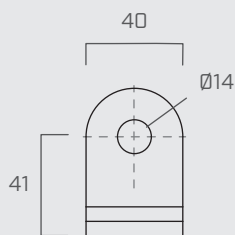
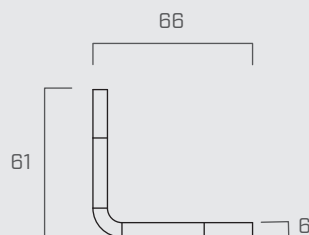
PATROLEND A4



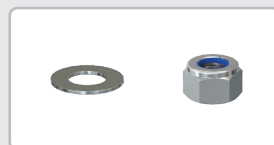
C20/25



S235



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



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PAREND - PAREND A4



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PAREND

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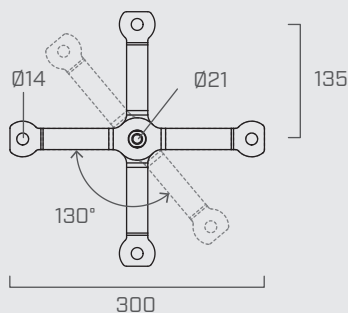
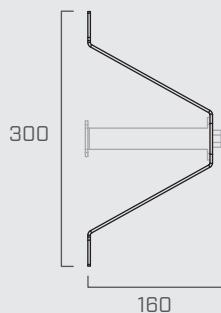
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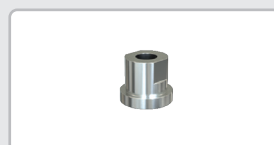
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PAREND
EN 795/C:2012
X/NN/YYYY CEN/TS 16415:2013
UNI 11578/C:2015
rothoblaas



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PATROLTERM - PATROLTERMA4



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INOX

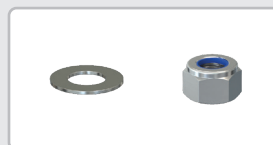
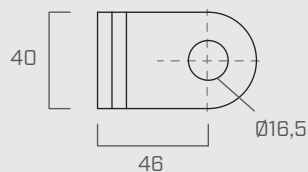
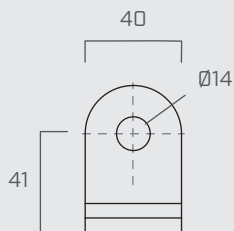
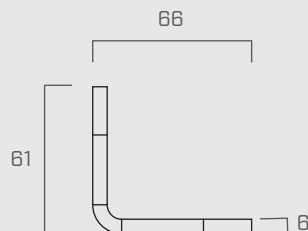
PATROLTERM

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AISI316
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PATROLTERMA4

rothoblaas
CERTIFIED
SUPPORTS

TOWER
SHIELD
WAVE
BLOCK



INCLUDED IN THE PACKAGE

PATROLTERM L

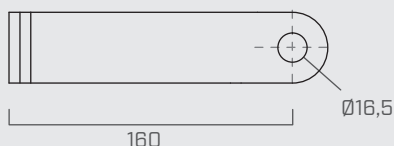
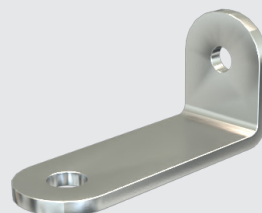
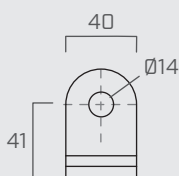
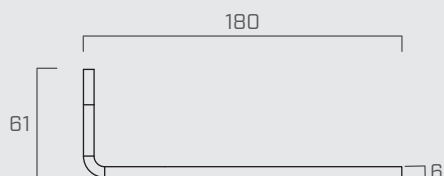


1.4301
AISI304
INOX

PATROLTERML

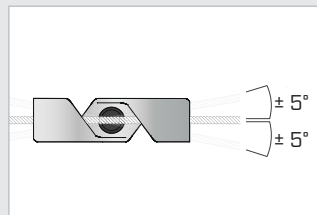
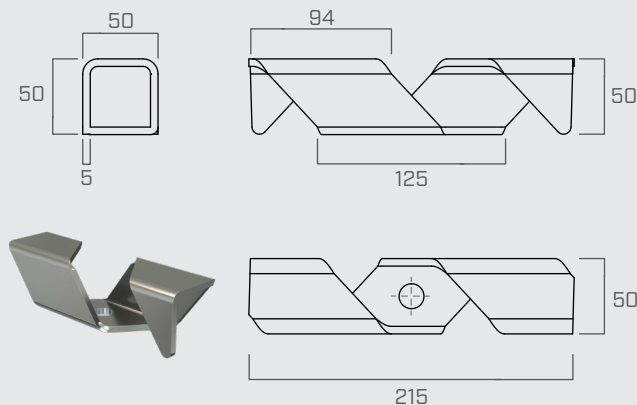
rothoblaas
CERTIFIED
SUPPORTS

TOWER
SHIELD
WAVE
BLOCK



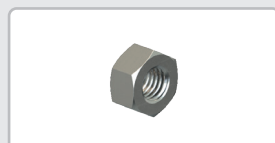
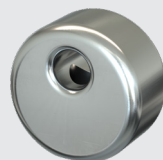
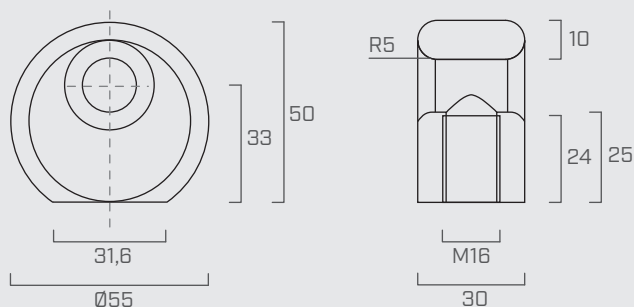
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PASINT - PASINT A4



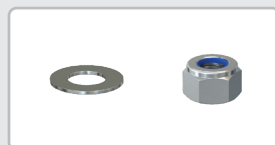
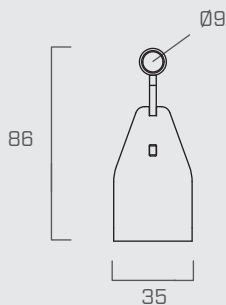
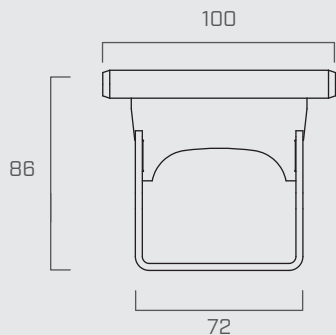
1.4301
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C20/25

S235

rothoblaas
CERTIFIED
SUPPORTS
TOWER
SHIELD
SHIELD2
WAVE
BLOCK



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PARINTER - PARINTER A4

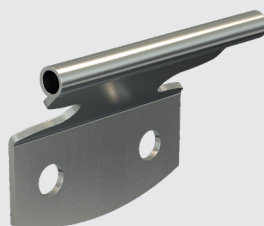
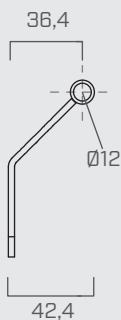
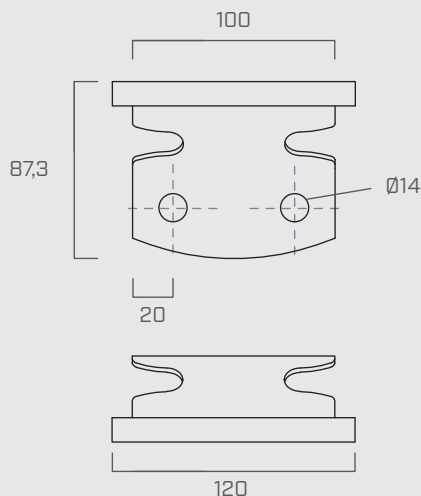


1.4301
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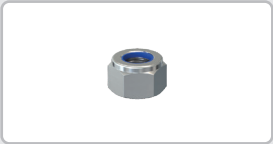
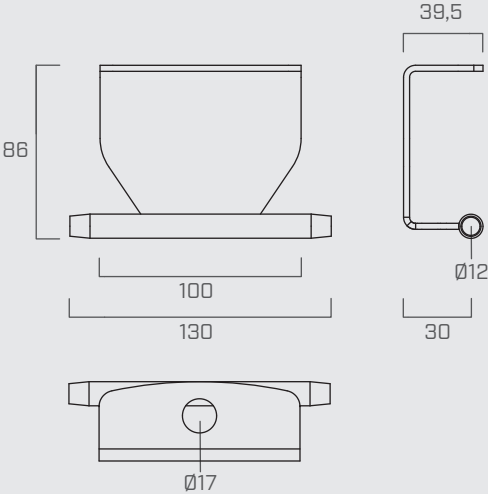
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S235



TOWER



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PATROLANG



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AISI304
INOX

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EN-AW
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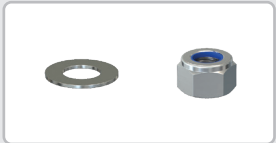
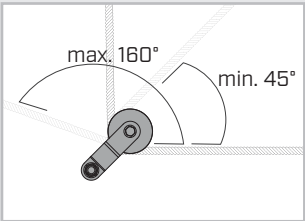
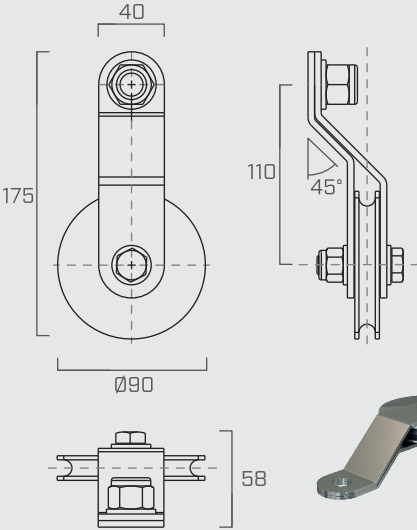
C20/25



S235



TOWER
SHIELD
2
WAVE
BLOCK



INCLUDED IN THE PACKAGE

PASANG - PASANG A4



1.4301
AISI304
INOX
PARINTER

1.4401
AISI316
INOX
PARINTERA4



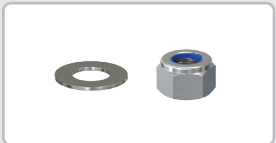
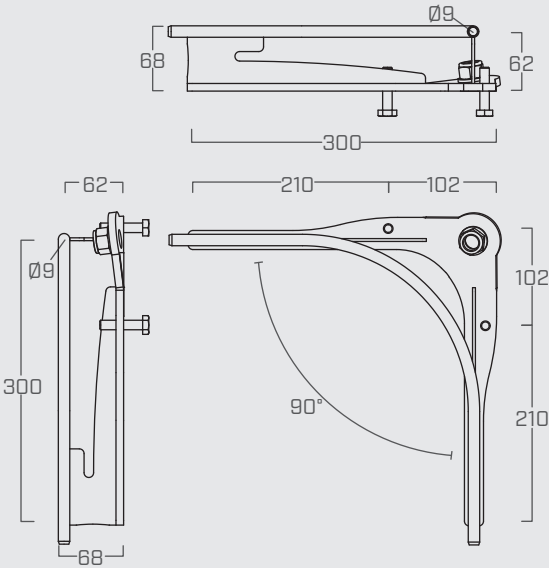
C20/25



S235



TOWER
SHIELD
2
WAVE
BLOCK



INCLUDED IN THE PACKAGE

PASANGBEND - PASANGBEND A4



1.4301
AISI304
INOX

PASANGBEND

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INOX

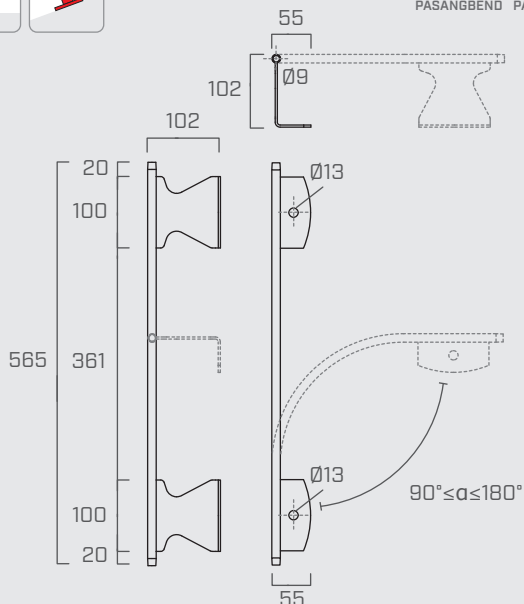
PASANGBENDA4



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ANGSUP - ANGSUP A4



1.4301
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ANGSUP

1.4401
AISI316
INOX

ANGSUPA4



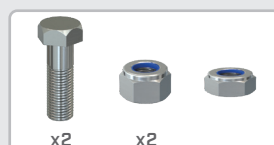
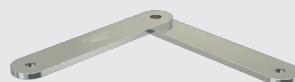
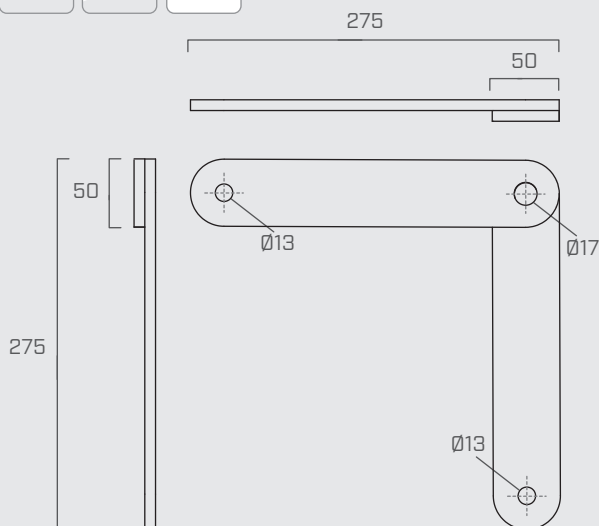
C20/25



S235



TOWER
SHIELD
SHIELD2
WAVE
BLOCK



INCLUDED IN THE PACKAGE

■ PARIN - PARIN A4

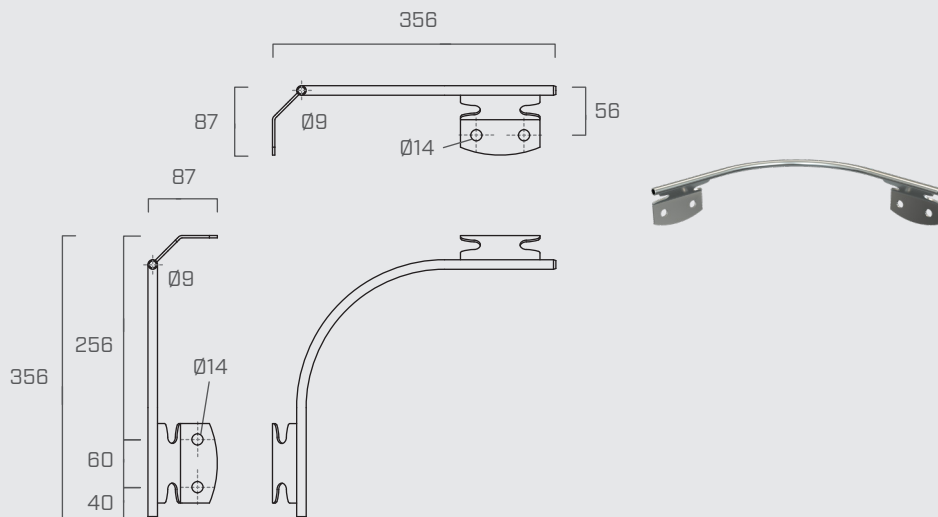


1.4301
AISI304
INOX
PARIN

1.4401
AISI316
INOX
PARINA4

C20/25

S235



■ PAREX - PAREX A4

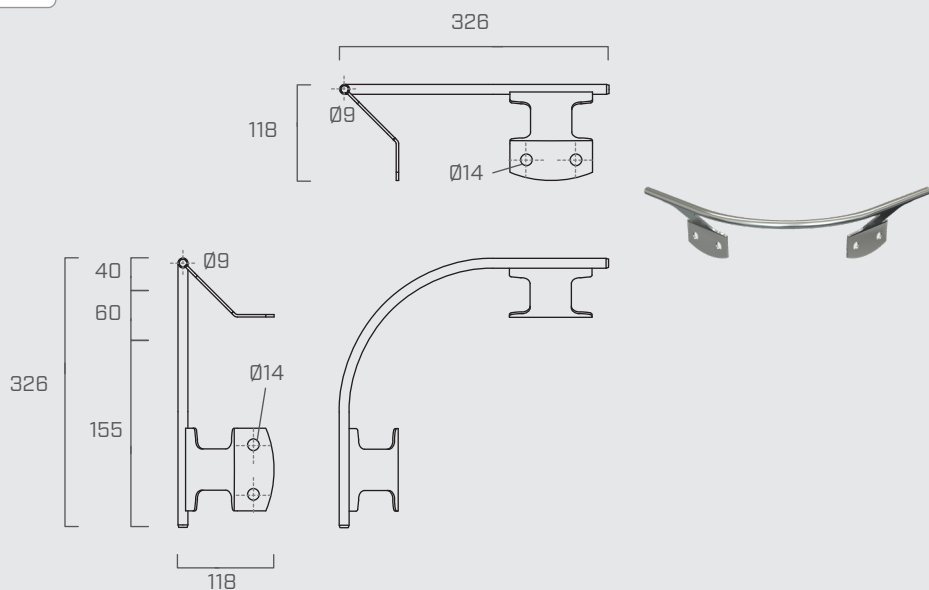


1.4301
AISI304
INOX
PAREX

1.4401
AISI316
INOX
PAREXA4

C20/25

S235



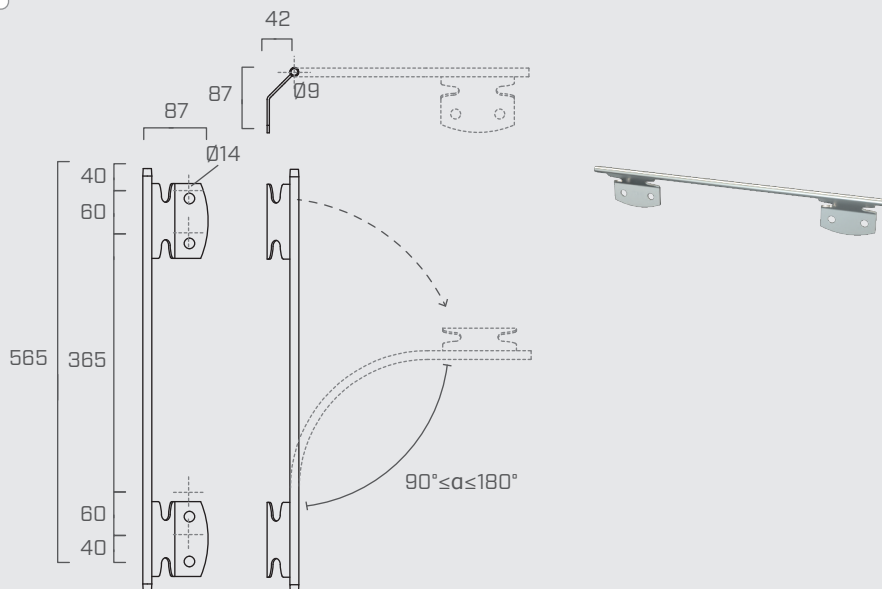
■ **PARINBEND - PARINBEND A4**

1.4301
AISI304
INOX
PARINBEND

1.4401
AISI316
INOX
PARINBENDA4

C20/25

S235

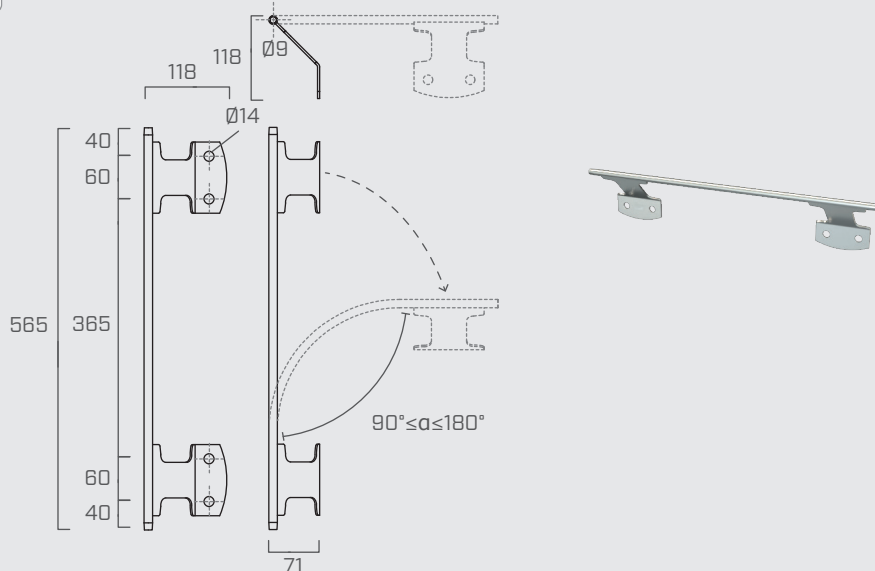
■ **PAREXBEND - PAREXBEND A4**

1.4301
AISI304
INOX
PAREXBEND

1.4401
AISI316
INOX
PAREXBENDA4

C20/25

S235



OHANGINT - OHANGINT A4

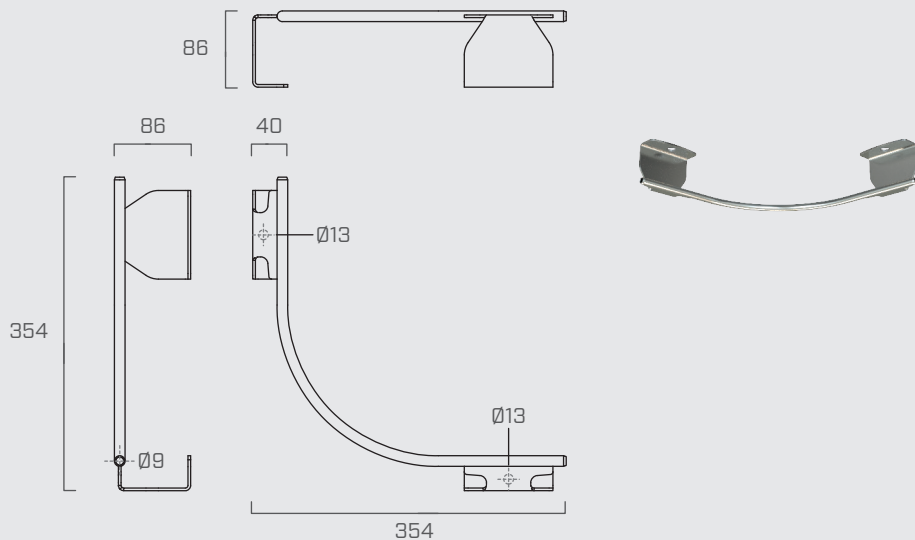


1.4301
AISI304
INOX
OHANGINT

1.4401
AISI316
INOX
OHANGINTA4

C20/25

S235



OHANGEXT - OHANGEXT A4

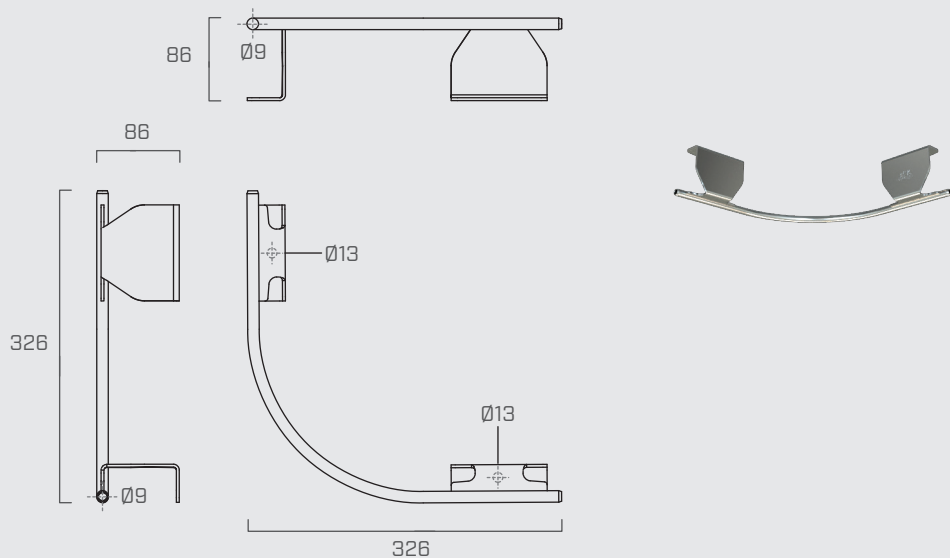


1.4301
AISI304
INOX
PAREXBEND

1.4401
AISI316
INOX
PAREXBENDA4

C20/25

S235



OHANGBEND - OHANGBEND A4



1.4301
AISI304
INOX

OHANGBEND

1.4401
AISI316
INOX

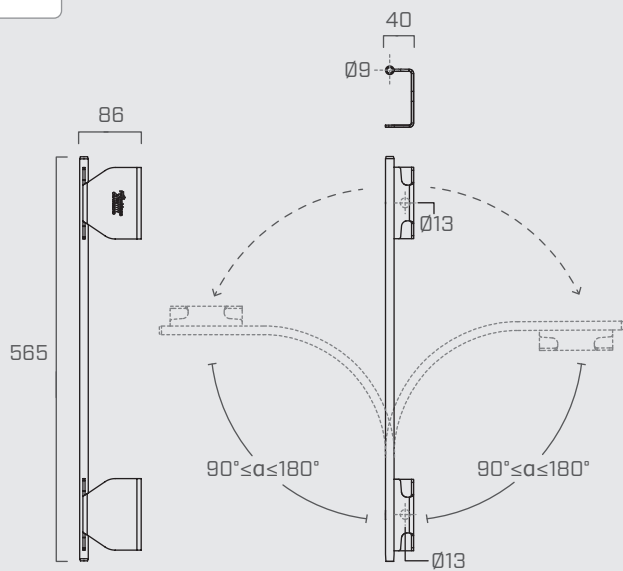
OHANGBENDA4



C20/25



S235



■ SLIDE - SLIDE A4

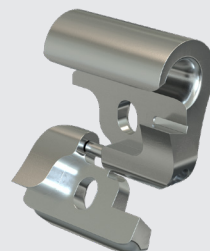
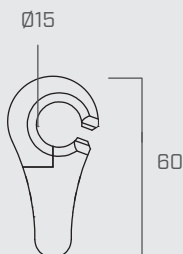
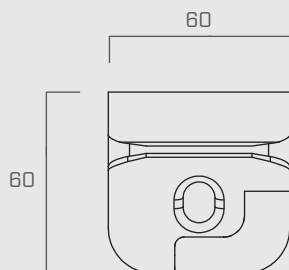


1.4301
AISI304
INOX
SLIDE

1.4401
AISI316
INOX
SLIDEA4



SLIDE1-SLIDE2-OHSLIDE
Installation
Manual



INCLUDED IN THE PACKAGE
CARSCREW [AZ 011]

■ SLIDE 2 - SLIDE 2 A4

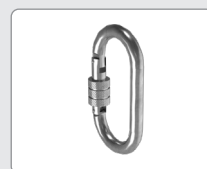
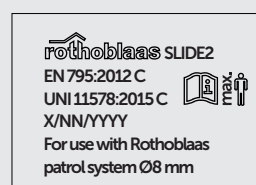
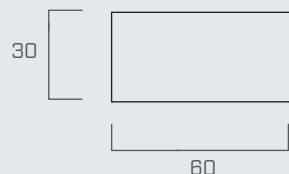
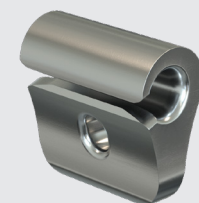
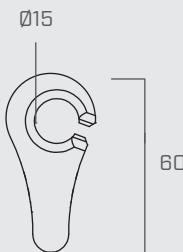
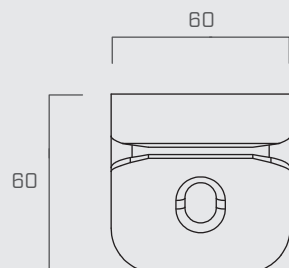


1.4301
AISI304
INOX
SLIDE2

1.4401
AISI316
INOX
SLIDE2A4



SLIDE1-SLIDE2-OHSLIDE
Installation
Manual



INCLUDED IN THE PACKAGE
CARSCREW [AZ 011]

OHSLIDE - OHSLIDE A4

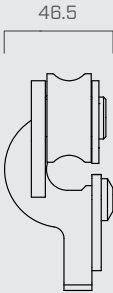
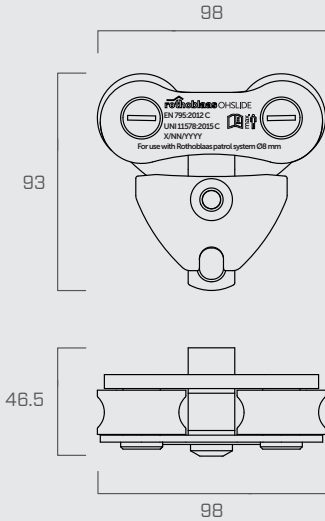


1.4301
AISI304
INOX
OHSLIDE

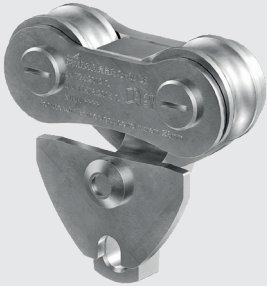
1.4401
AISI316
INOX
OHSLIDEA4



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



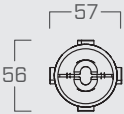
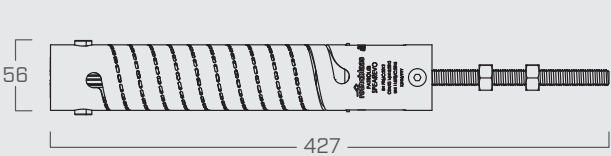
INCLUDED IN THE PACKAGE
CARSCREW [AZ 011]

SPEAREVO - SPEAREVO A4



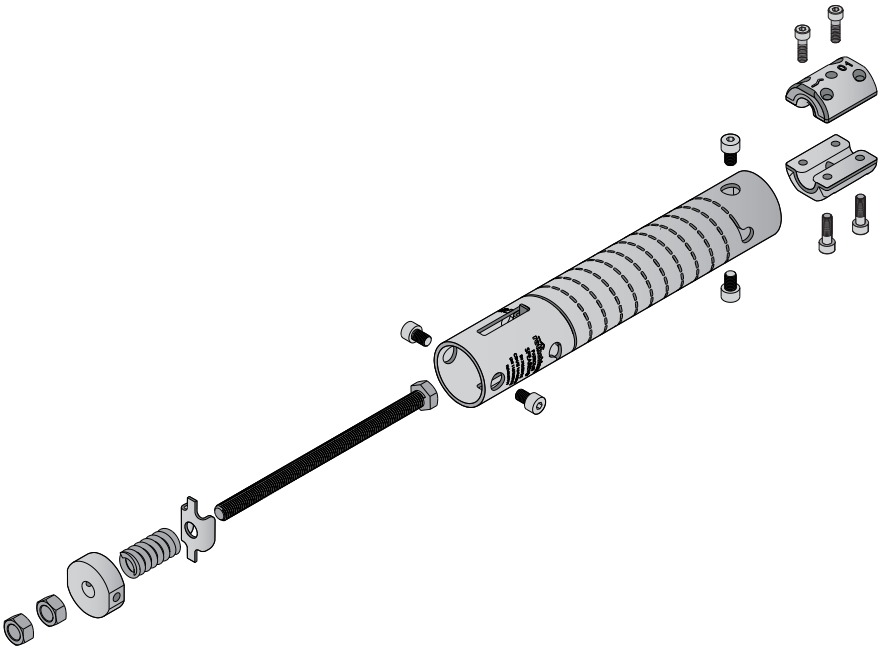
1.4301
AISI304
INOX
SPEAREVO

1.4401
AISI316
INOX
SPEAREVOA4



x2

INCLUDED IN THE PACKAGE



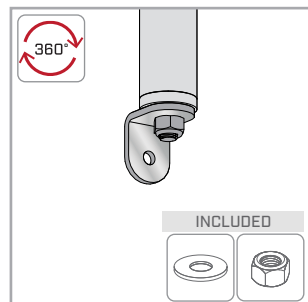
SUPPORT INSTALLATION ON TOWER



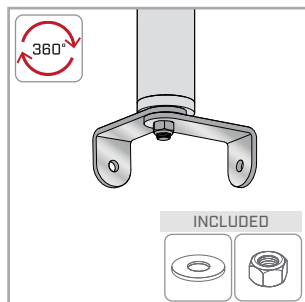
TOWER
TOWERA2
Installation
Manual

TOWER
TOWERA2
Safety
Regulations

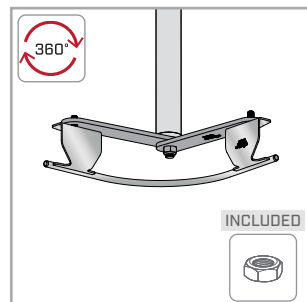
TOWER + PATROLTERM



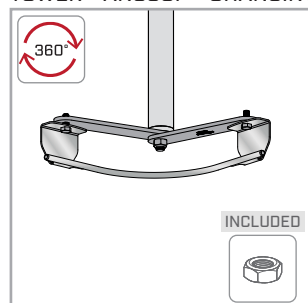
TOWER + PATROLTERML



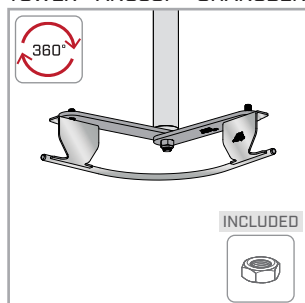
TOWER + ANGSUP + OHANGEXT



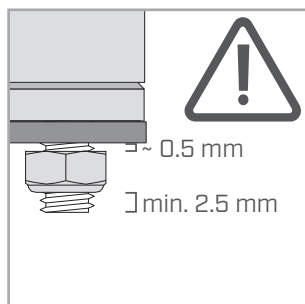
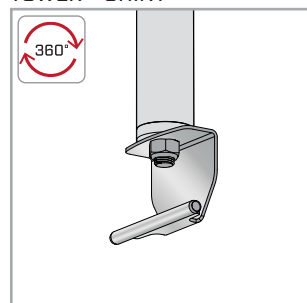
TOWER + ANGSUP + OHANGINT



TOWER + ANGSUP + OHANGBEND



TOWER + OHINT



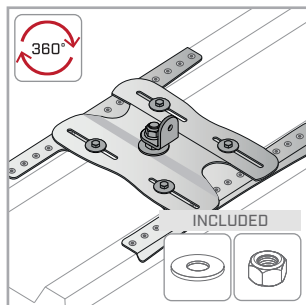
SUPPORT INSTALLATION ON SHIELD



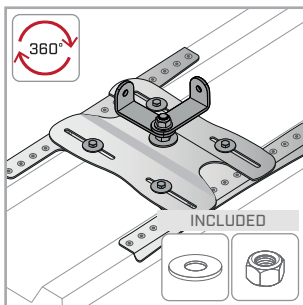
SHIELD
Installation
Manual

SHIELD
Safety
Regulations

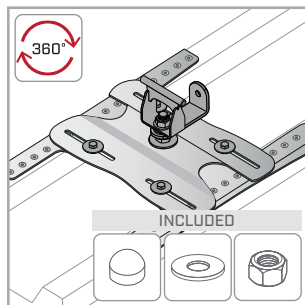
SHIELD + PATROLTERM



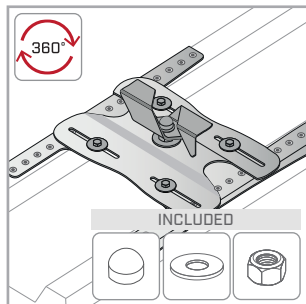
SHIELD + PATROLTERML



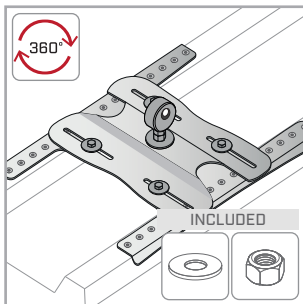
SHIELD + PATROLTERML + PASINT



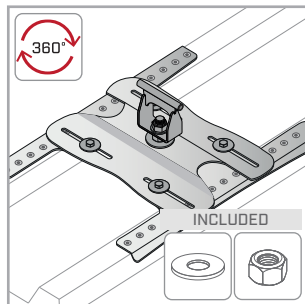
SHIELD + PATROLINT



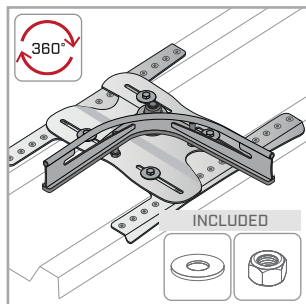
SHIELD + PATROLMED



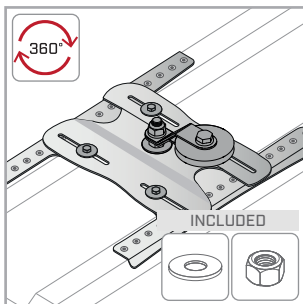
SHIELD + PASINT



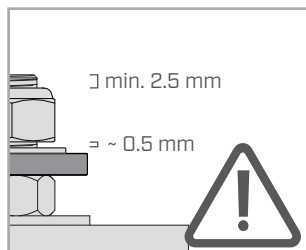
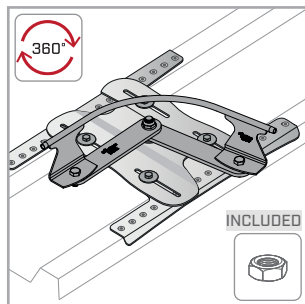
SHIELD + PASANG



SHIELD + PATROLANG



SHIELD + ANGSUP + PASANGBEND



≥ min. 2.5 mm

≈ ~ 0.5 mm



SUPPORT INSTALLATION ON SHIELD 2



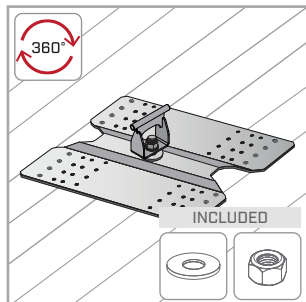
SHIELD2
Installation
Manual

+

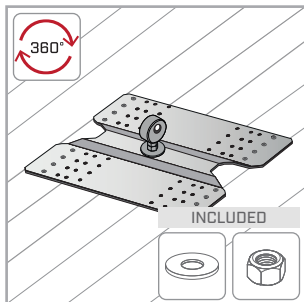


SHIELD2
Safety
Regulations

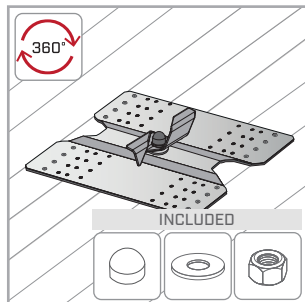
SHIELD 2 + PASINT



SHIELD 2 + PATROLMED



SHIELD 2 + PATROLINT



SUPPORT INSTALLATION ON WAVE

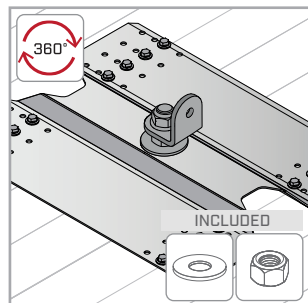


WAVE
Installation
Manual

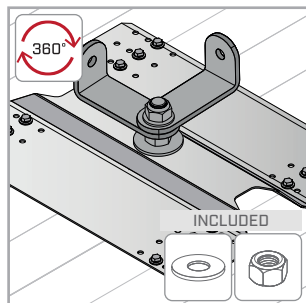


WAVE
Safety
Regulations

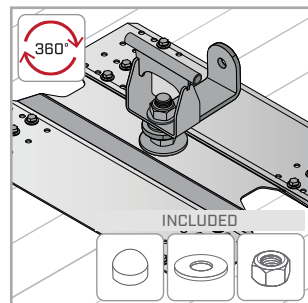
WAVE + PATROTERM



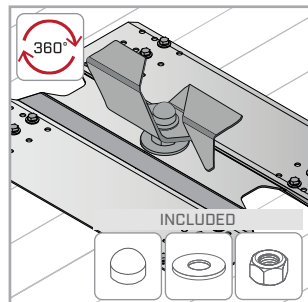
WAVE + PATROTERM L



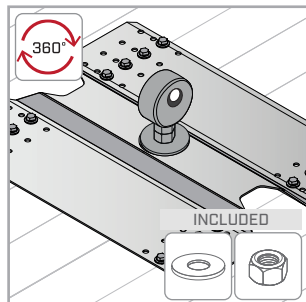
WAVE + PATROTERM L + PASINT



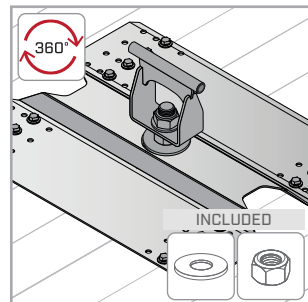
WAVE + PATROLINT



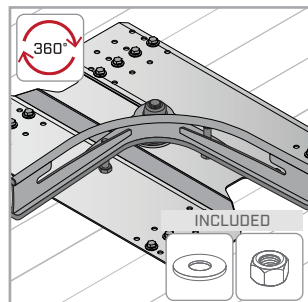
WAVE + PATROLMED



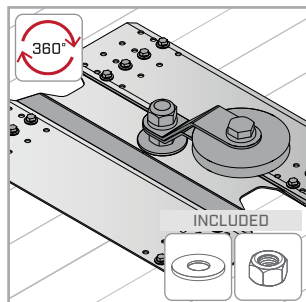
WAVE + PASINT



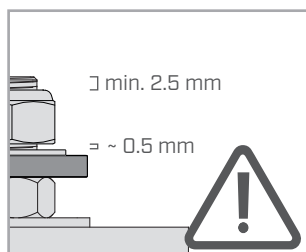
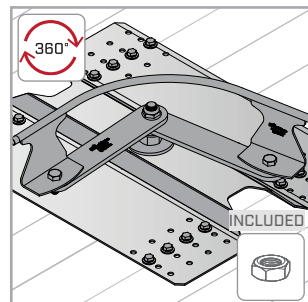
WAVE + PASANG



WAVE + PATROLANG



WAVE + ANG SUP + PASANG BEND



SUPPORT INSTALLATION ON BLOCK



max. 5°

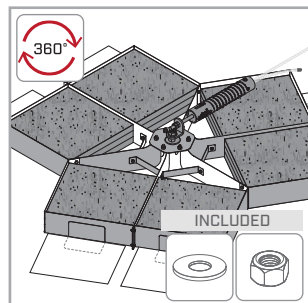


BLOCK
Installation
Manual

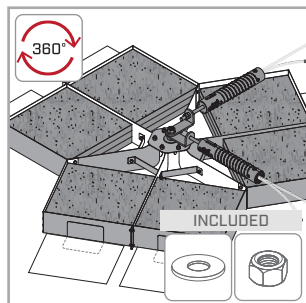


BLOCK
Safety
Regulations

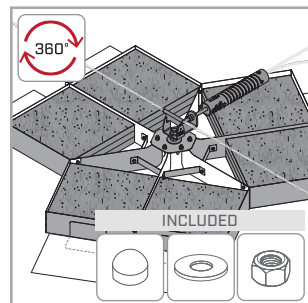
BLOCK + PATROLTERM



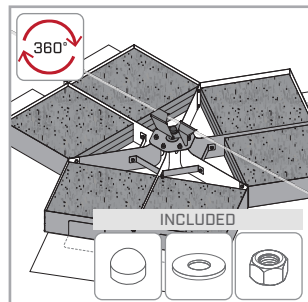
BLOCK + PATROLTERML



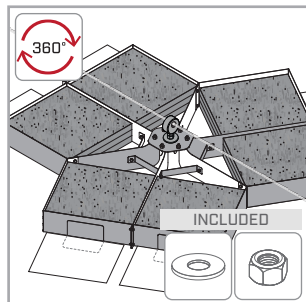
BLOCK + PATROLTERML + PASINT



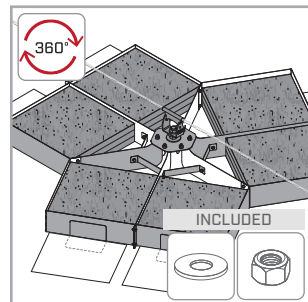
BLOCK + PATROLINT



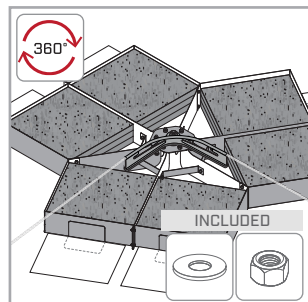
BLOCK + PATROLMED



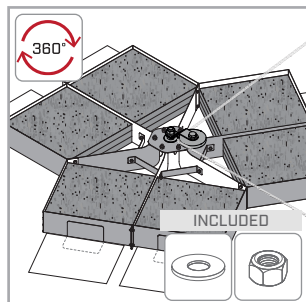
BLOCK + PASINT



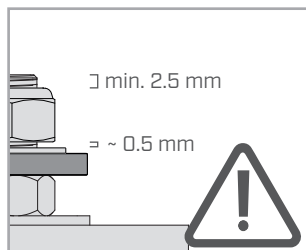
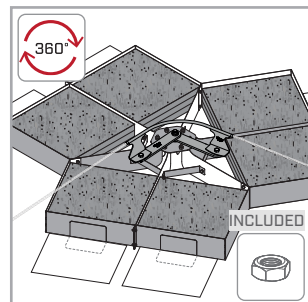
BLOCK + PASANG



BLOCK + PATROLANG



BLOCK + ANGSUP + PASANGBEND



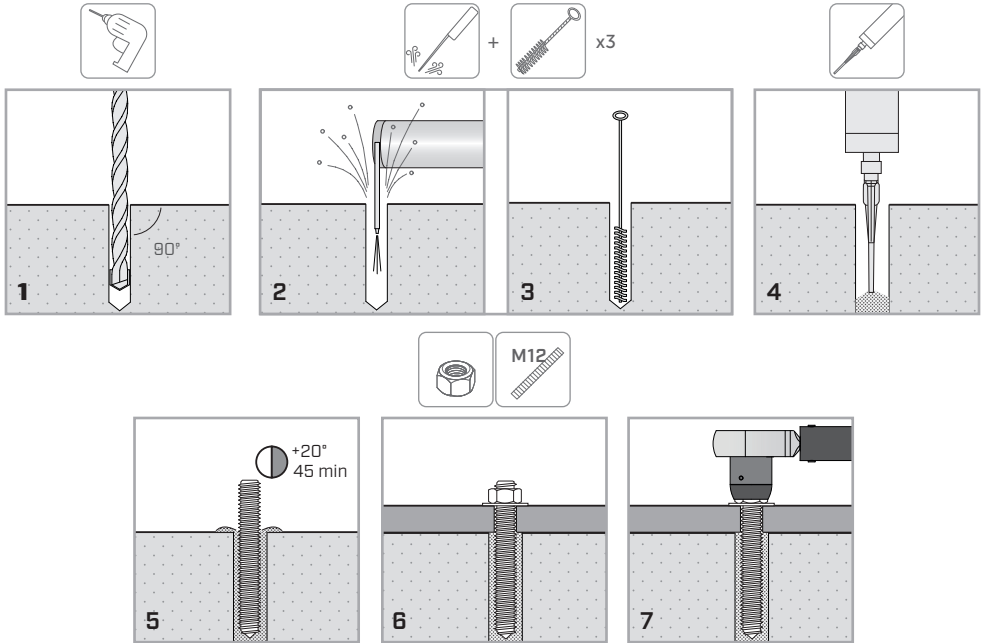
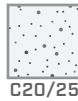
≥ min. 2.5 mm

≈ ~ 0.5 mm

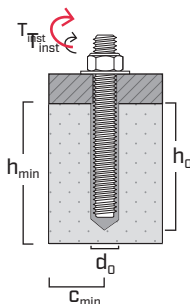


SUBSTRUCTURE INSTALLATION

CONCRETE



M12 - 5.8 min



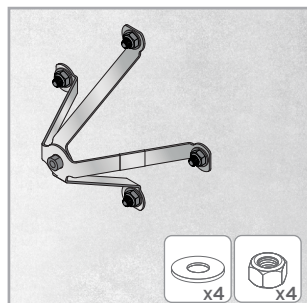
d	=	12	mm	d_0	=	14	mm
L	≥	$h_{ef} + 25$	mm	h_{ef}	=	70	mm
T_{inst}	=	40	Nm	h_{min}	=	$h_{ef} + 30$	≥ 100mm
				c_{min}	≥	60	mm

■ **CONCRETE**

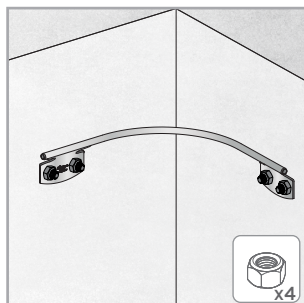
4 X M12



PAREND



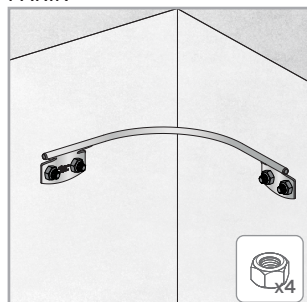
PARINBEND



PAREXBEND



PARIN

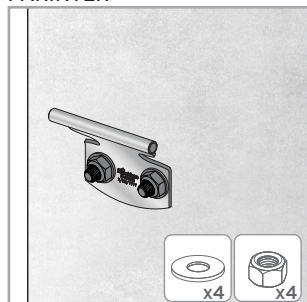


PAREX

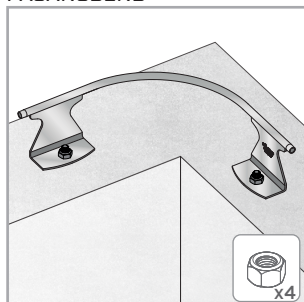


2 X M12

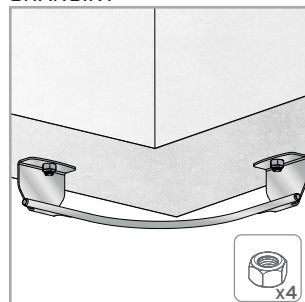
PARINTER



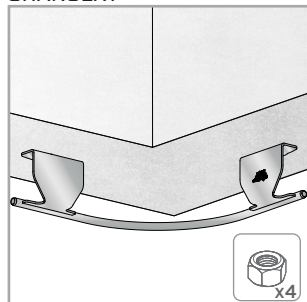
PASANGBEND



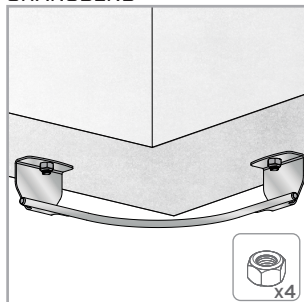
OHANGINT



OHANGEXT



OHANGBEND





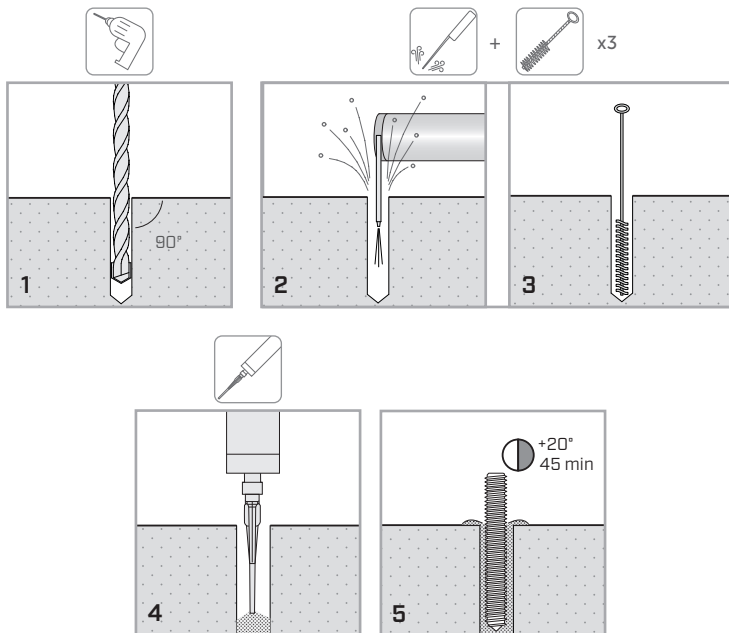
C20/C25



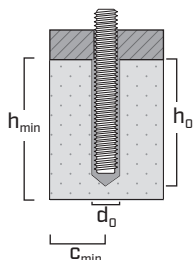
VIN-FIX



SELF-LOCKING
NUT

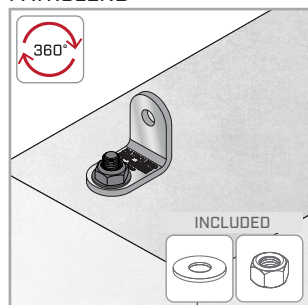


M16 - 5.8 min

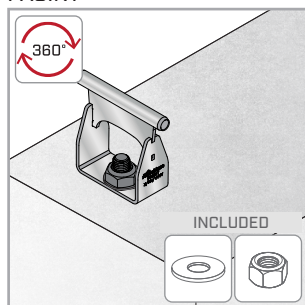


d	$=$	16 mm	d_0	$=$	18 mm
L	$\geq$	$h_{ef} + 30$ mm	h_{ef}	$=$	80 mm
c_{min}	$\geq$	80 mm	h_{min}	$=$	$h_{ef} + 30 \geq 100$ mm

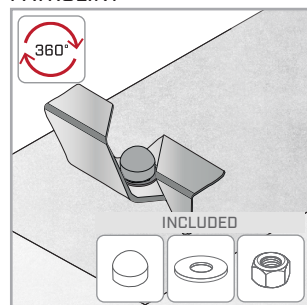
PATROLEND



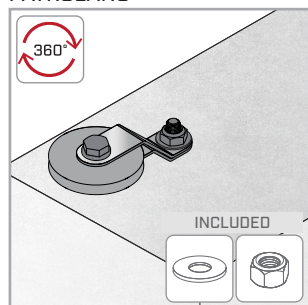
PASINT



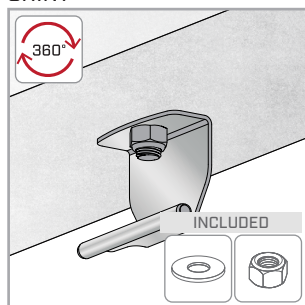
PATROLINT



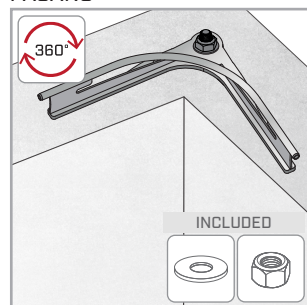
PATROLANG



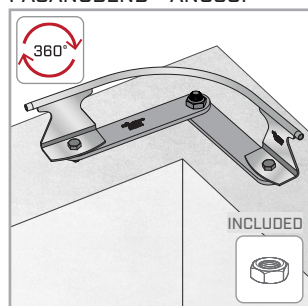
OHINT



PASANG



PASANGBEND + ANGSUP



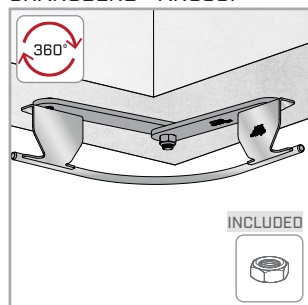
OHAGINT + ANGSUP



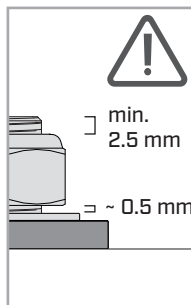
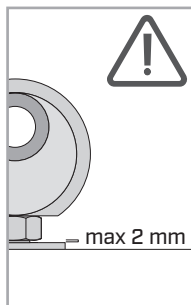
OHANGEXT + ANGSUP

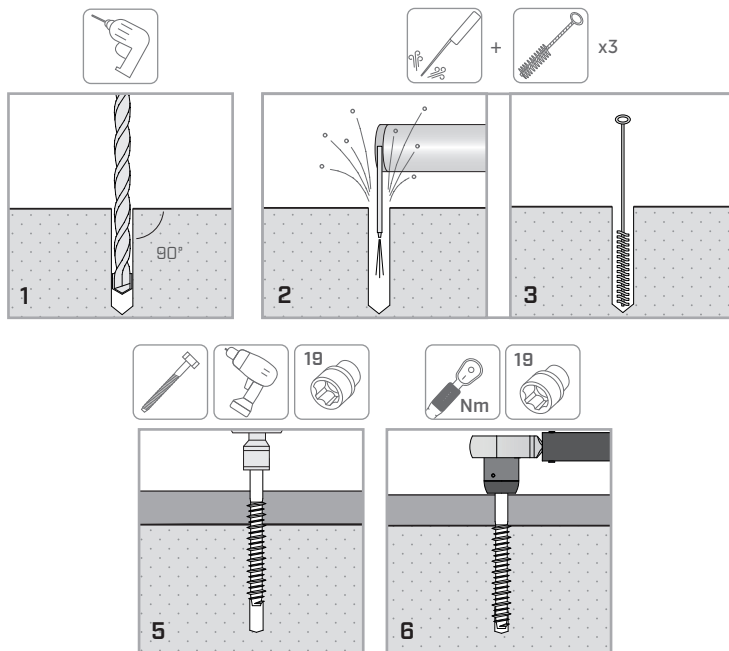


OHANGBEND + ANGSUP

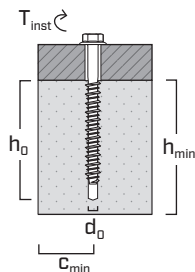
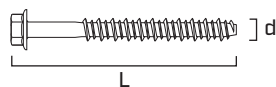


PATROLMED





SKR CE 12 x 90 mm

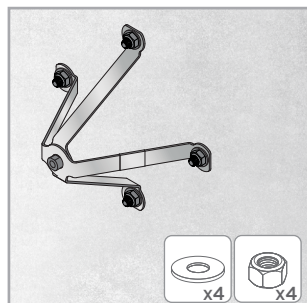


d	$=$	12 mm	d_0	$=$	10 mm
L	$=$	90 mm	h_1	$=$	100 mm
T_{inst}	$=$	80 Nm	h_{min}	$\geq$	130 mm
			c_{min}	$\geq$	96 mm

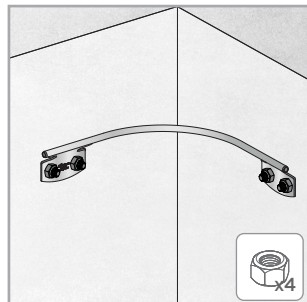
CONCRETE

4 X M12

PAREND

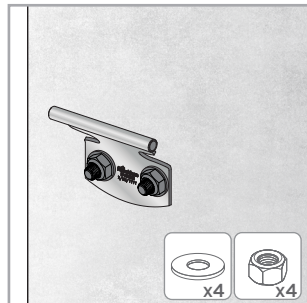


PARIN

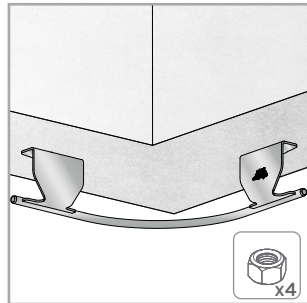


2 X M12

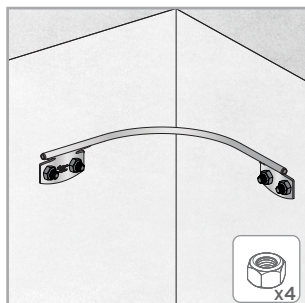
PARINTER



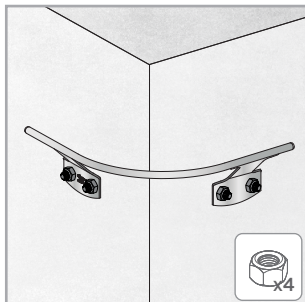
OHANGEXT



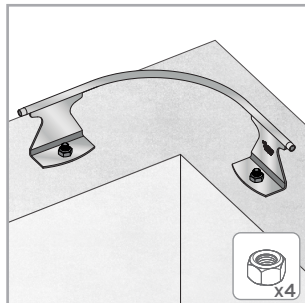
PARINBEND



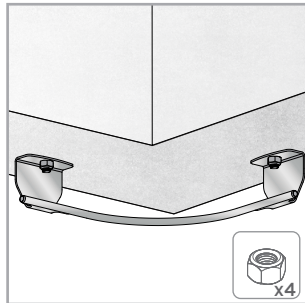
PAREX



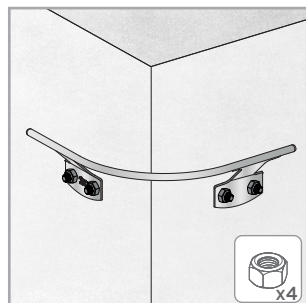
PASANGBEND



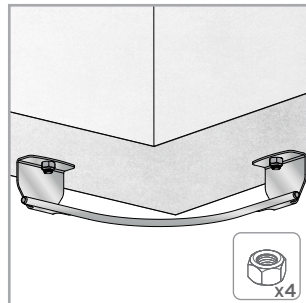
OHANGBEND

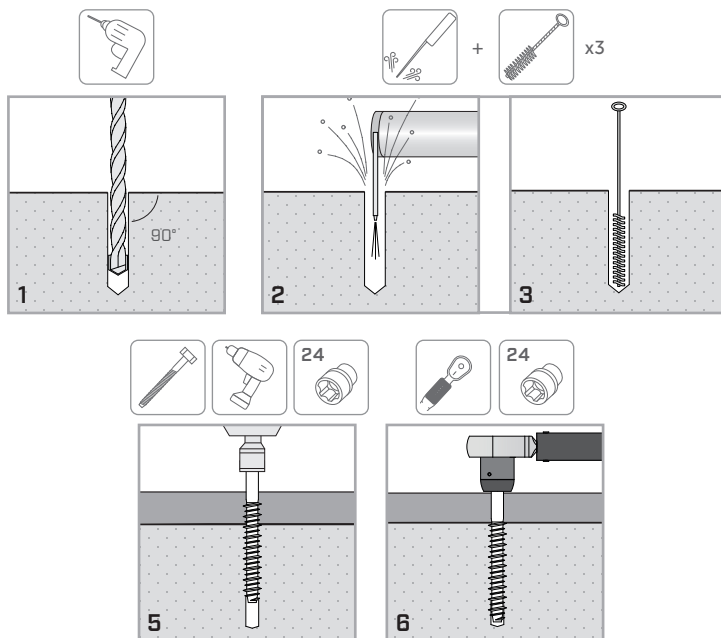


PAREXBEND

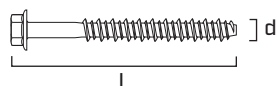
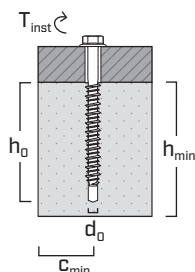


OHANGINT



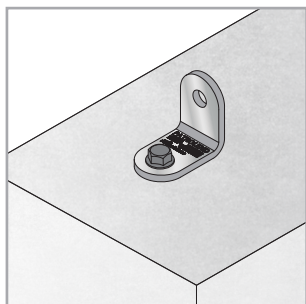


SKR CE 16 x 130 mm

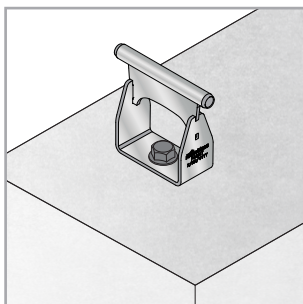


d	$=$	16 mm	d_0	$=$	14 mm
L	$=$	130 mm	h_1	$=$	140 mm
T_{inst}	$=$	160 Nm	h_{min}	$\geq$	170 mm
			c_{min}	$\geq$	80 mm

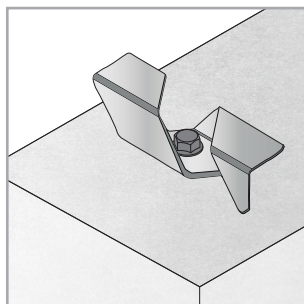
PATROLEND



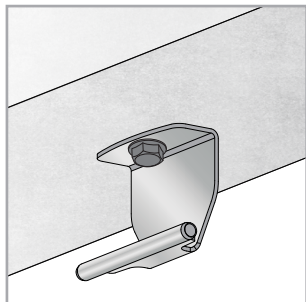
PASINT



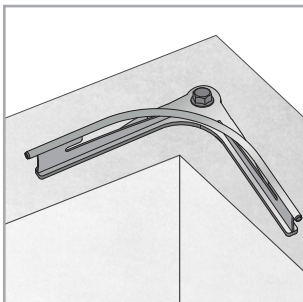
PATROLINT



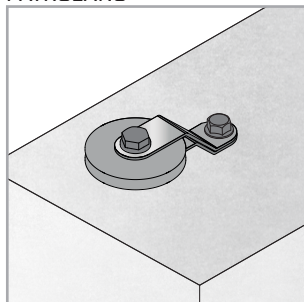
OHINT



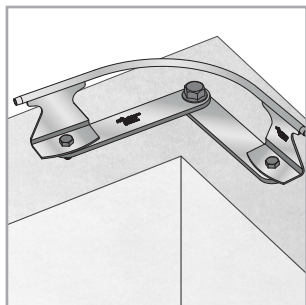
PASANG



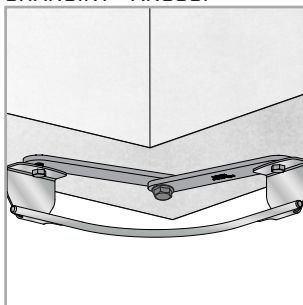
PATROLANG



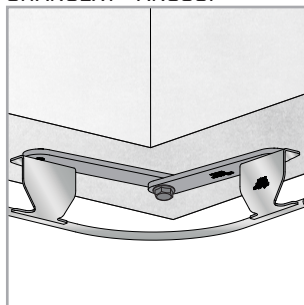
PASANGBEND + ANG SUP



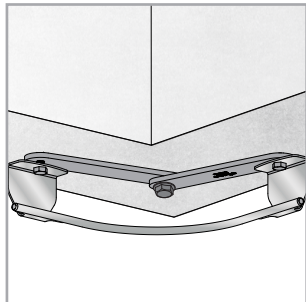
OHANGINT + ANG SUP



OHANGEXT + ANG SUP



OHANGBEND + ANG SUP





C20/C25



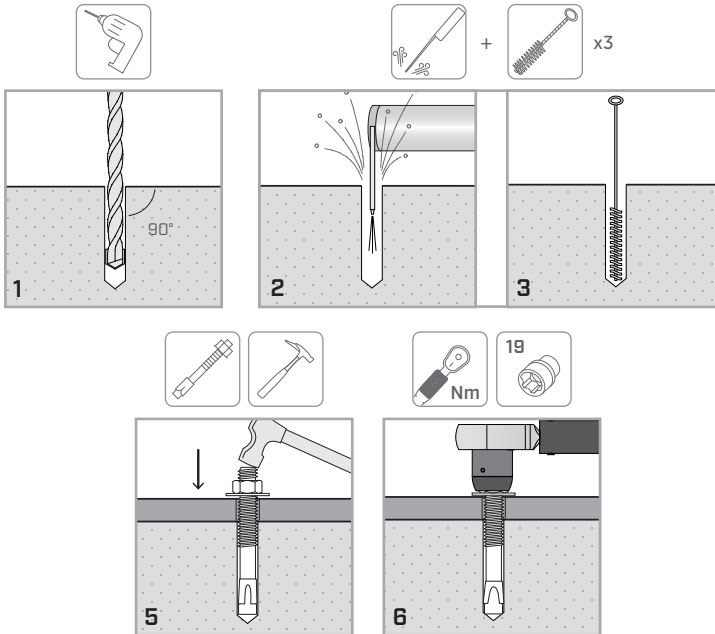
AB1



Nm



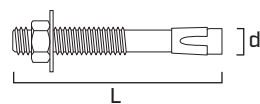
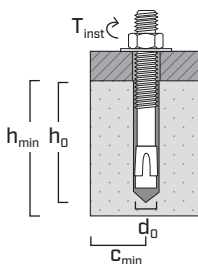
19



AB1 12 x 100 mm



AB1
ETA-17/0481



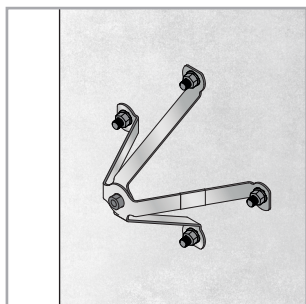
d	=	12 mm	d ₀	=	12 mm
L	=	100 mm	h ₁	≥	85 mm
T _{inst}	=	60 Nm	h _{min}	≥	140 mm
			c _{min}	≥	70 mm

■ **CONCRETE**

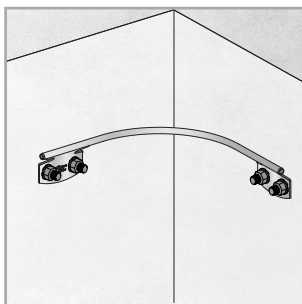
4 X M12



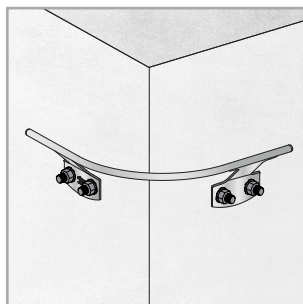
PAREND



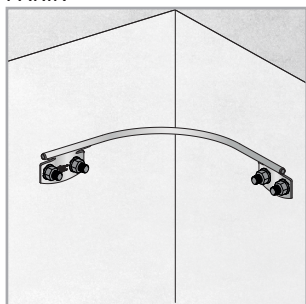
PARINBEND



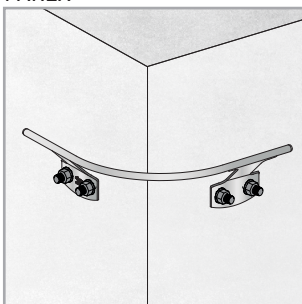
PAREXBEND



PARIN

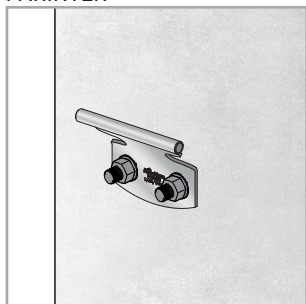


PAREX

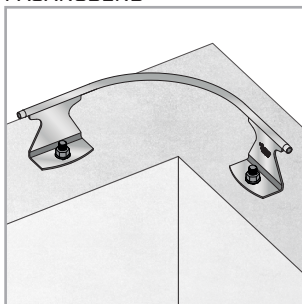


2 X M12

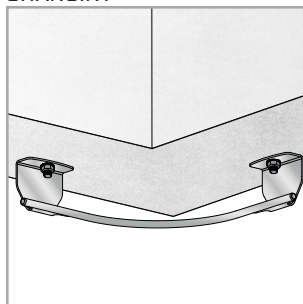
PARINTER



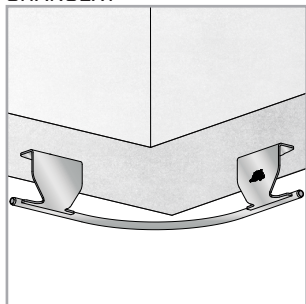
PASANGBEND



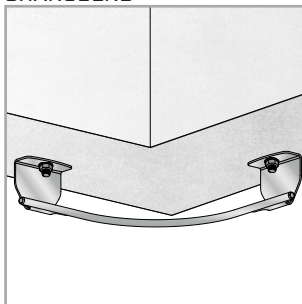
OHANGINT

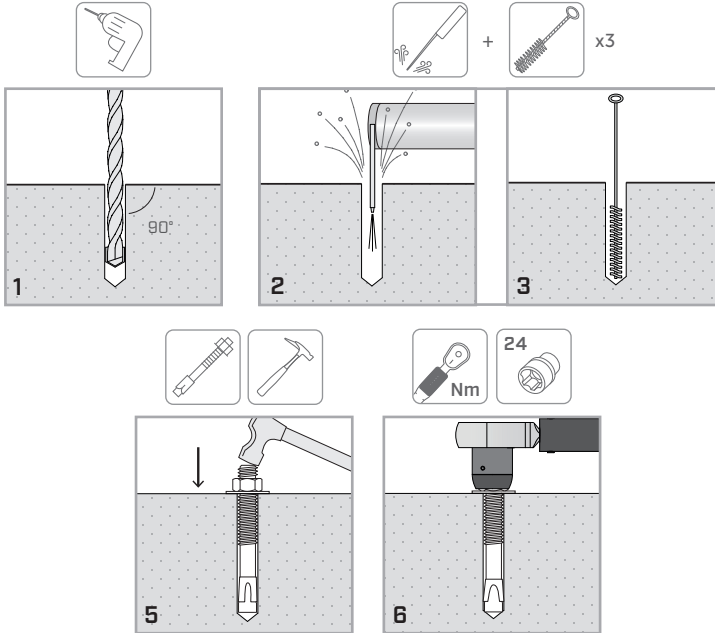
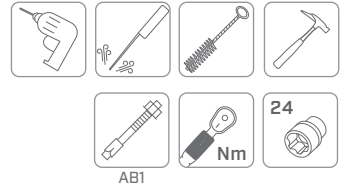


OHANGEXT

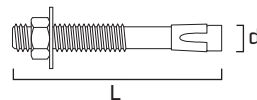
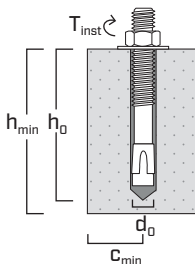


OHANGBEND





AB1 16 x 145 mm

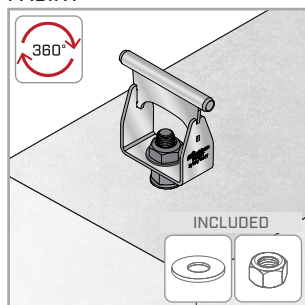


d	=	16	mm	d_0	=	16	mm
L	=	145	mm	h_l	≥	105	mm
T_{inst}	=	100	Nm	h_{min}	≥	170	mm
				c_{min}	≥	85	mm

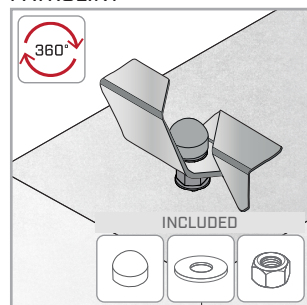
PATROLEND



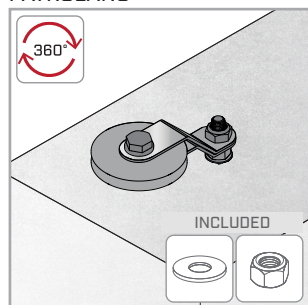
PASINT



PATROLINT



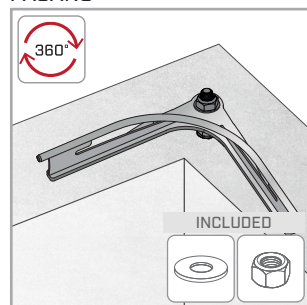
PATROLANG



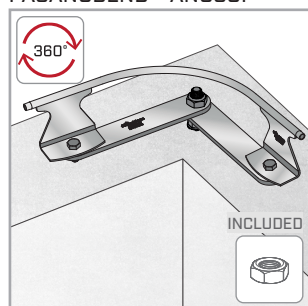
OHINT



PASANG



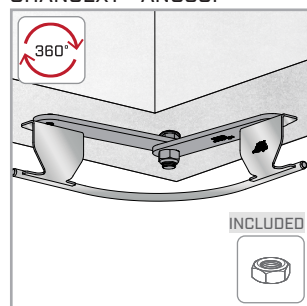
PASANGBEND + ANGSUP



OHAGINT + ANGSUP



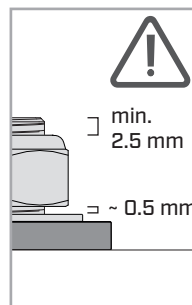
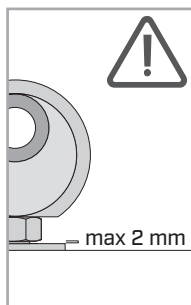
OHANGEXT + ANGSUP

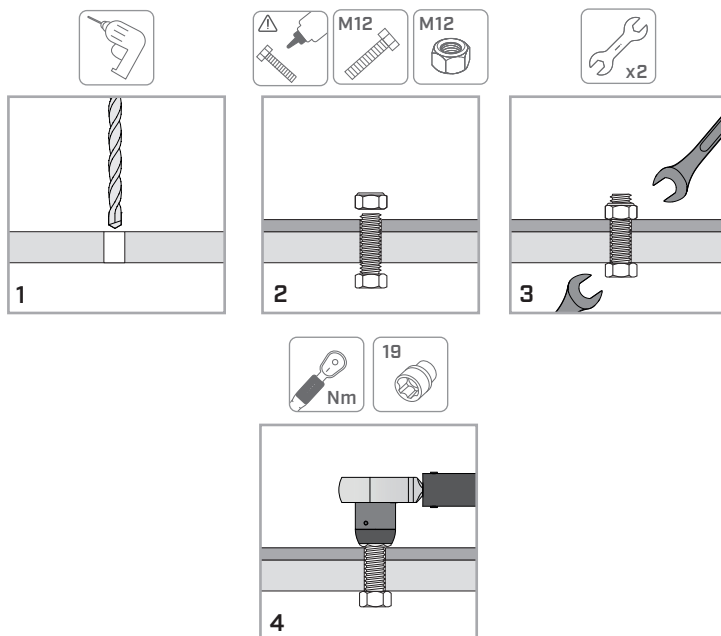


OHANGBEND + ANGSUP

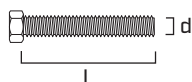
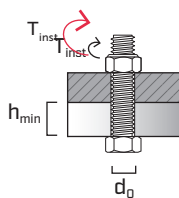


PATROLMED





M12 - A2-70

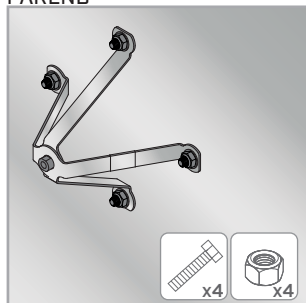


d	=	12 mm	d_0	=	12,5 mm
L	≥	$h_{min} + 25$ mm	h_{min}	≥	5 mm
A2-70	▶	$T_{inst} = 30$ Nm			

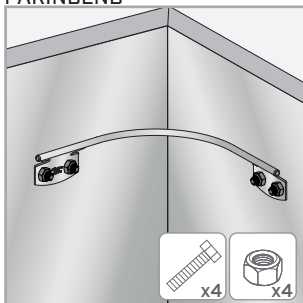
STEEL

4 X M12

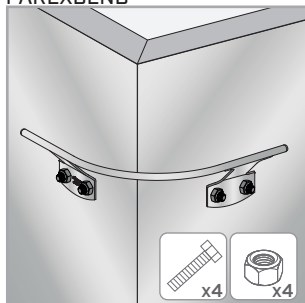
PAREND



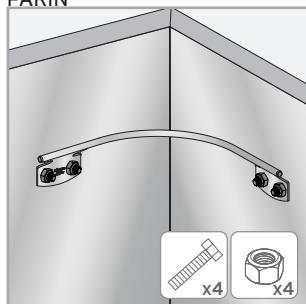
PARINBEND



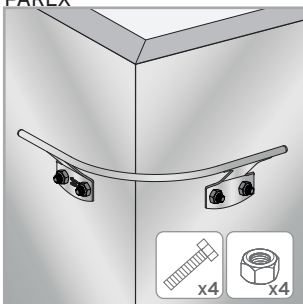
PAREXBEND



PARIN

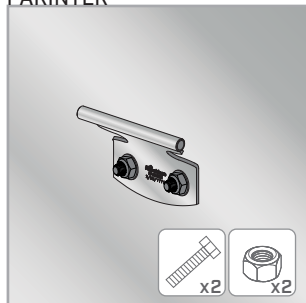


PAREX

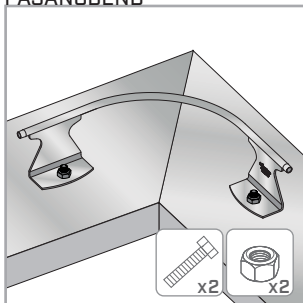


2 X M12

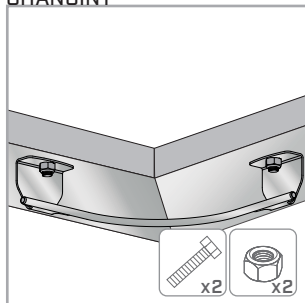
PARINTER



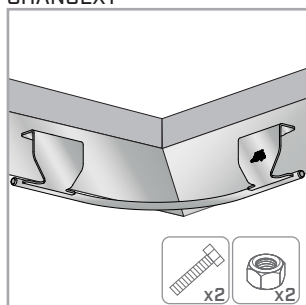
PASANGBEND



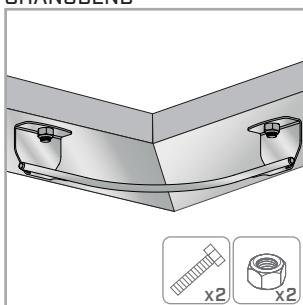
OHANGINT

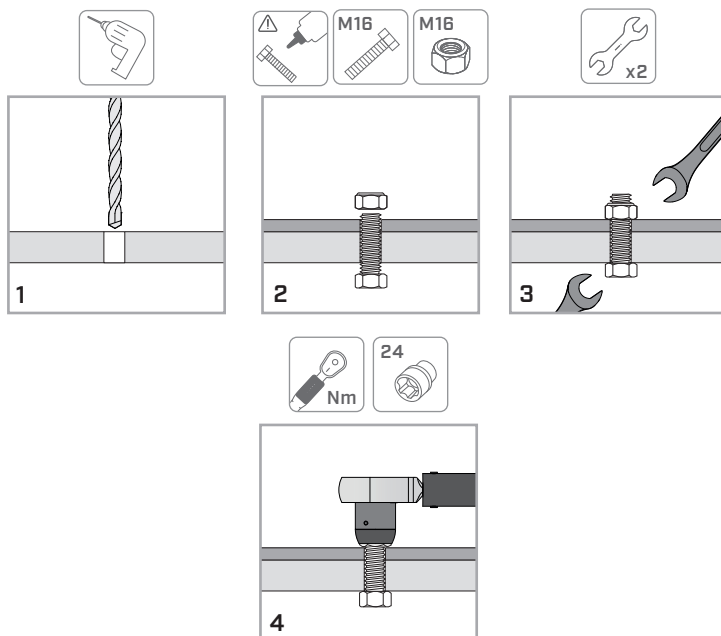


OHANGEXT

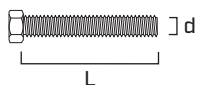
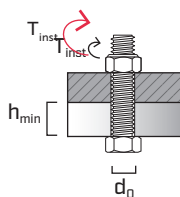


OHANGBEND



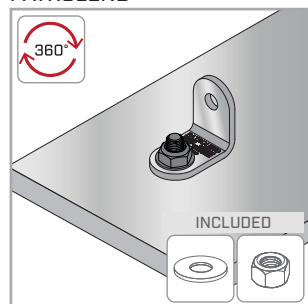


M16 - A2-70

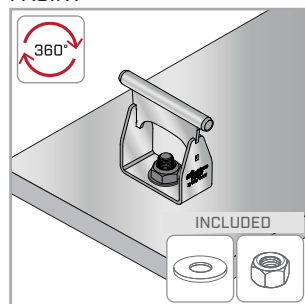


d	$=$	16	mm	d_0	$=$	16,5	mm
L	$\geq$	$h_{min} + 45$	mm	h_{min}	$\geq$	5	mm

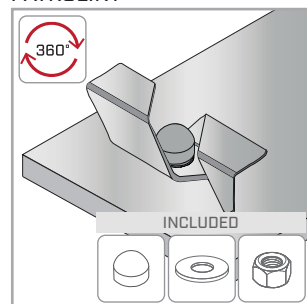
PATROLEND



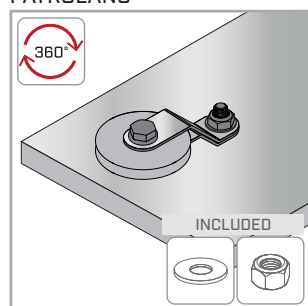
PASINT



PATROLINT



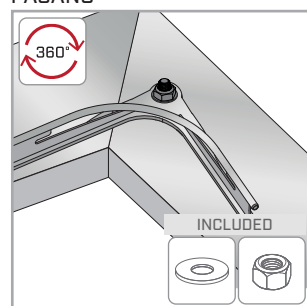
PATROLANG



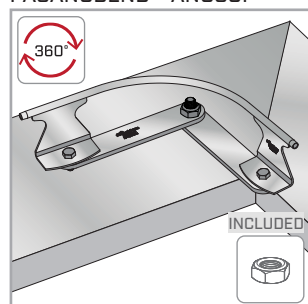
OHINT



PASANG



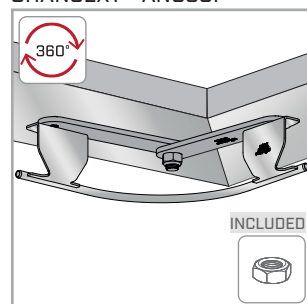
PASANGBEND + ANGSUP



OHAGINT + ANGSUP



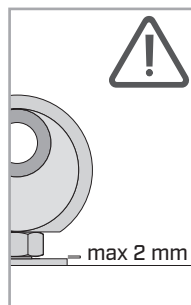
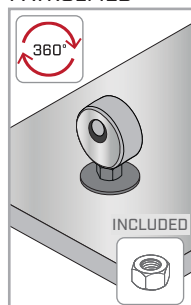
OHANGEXT + ANGSUP



OHANGBEND + ANGSUP

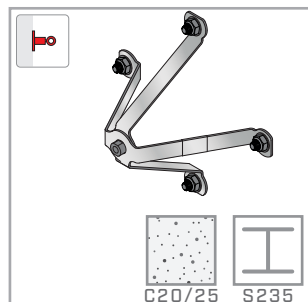


PATROLMED

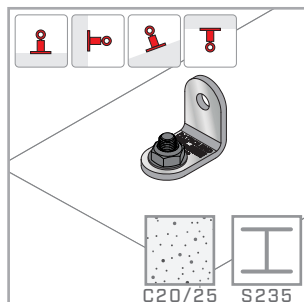


■ TERMINAL SUPPORTS INSTALLATION

PAREND



PATROLEND



PATROLTERM

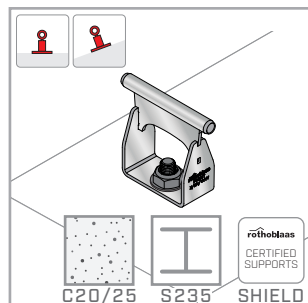


PATROLANG

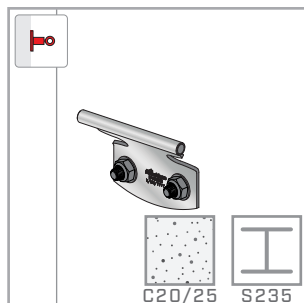


■ INTERMEDIATE SUPPORTS INSTALLATION

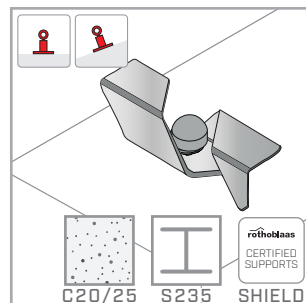
PASINT



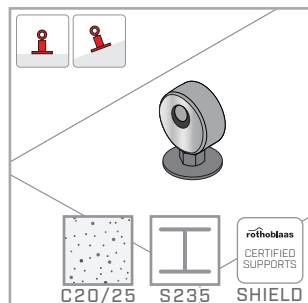
PARINTER



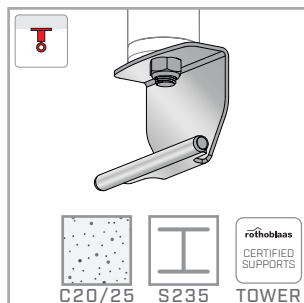
PATROLINT



PATROLMED



OHINT

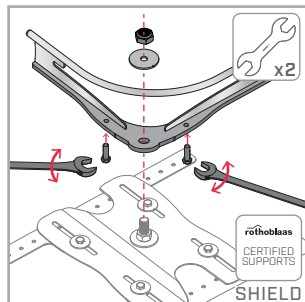


CORNER SUPPORTS INSTALLATION

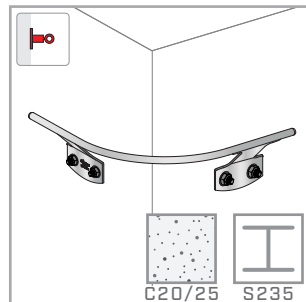
PASANG



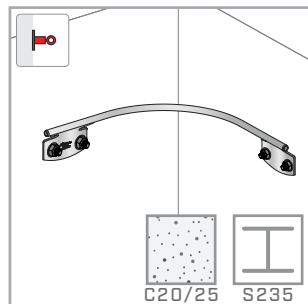
PASANG + SHIELD



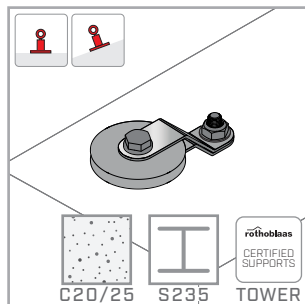
PARIN



PAREX

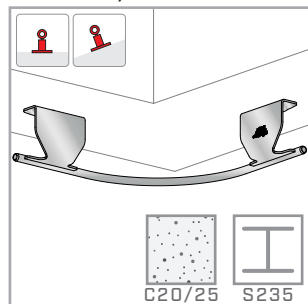


PAREX

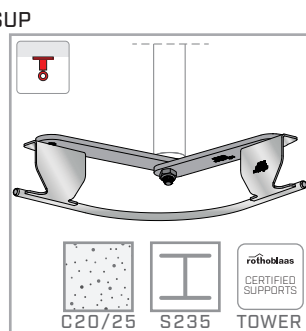
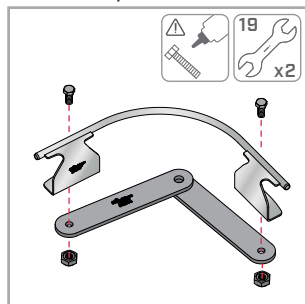


CORNER INSTALLATION

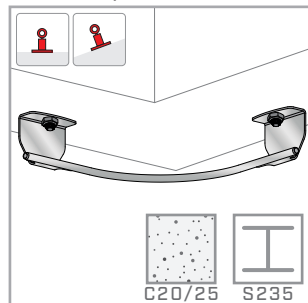
OHANGEXT/OHANGBEND



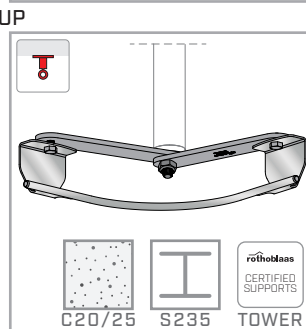
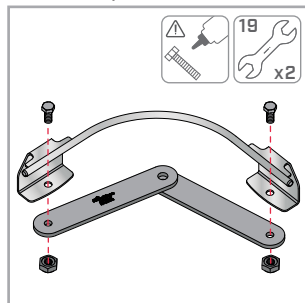
OHANGEXT/OHANGBEND + ANG SUP



OHANGINT/OHANGBEND

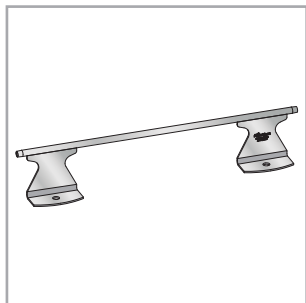


OHANGINT/OHANGBEND + ANG SUP

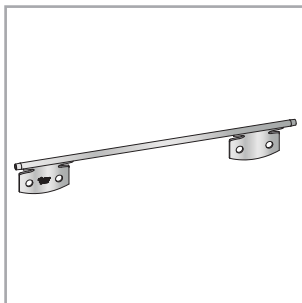


■ ADJUSTABLE CORNER SUPPORT INSTALLATION

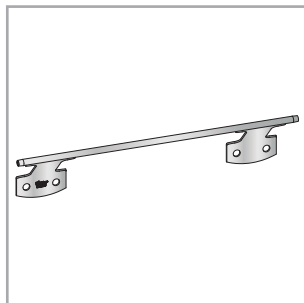
PASANGBEND



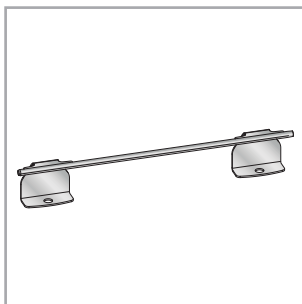
PAREXBEND



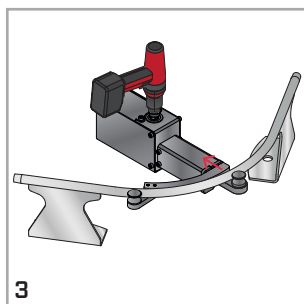
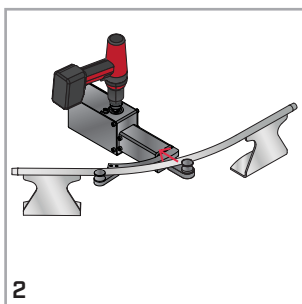
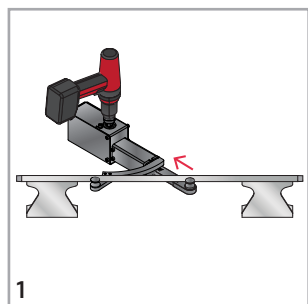
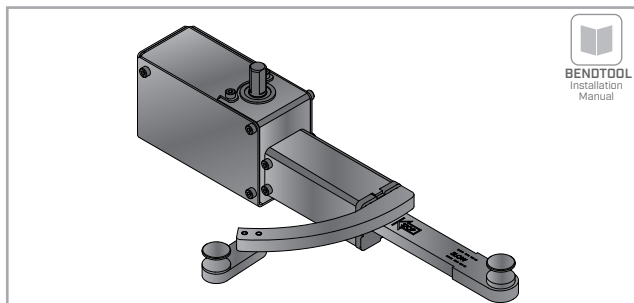
PARINBEND



QHANGBEND

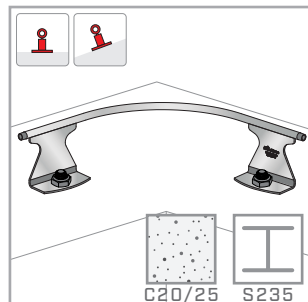


BENDTOOL

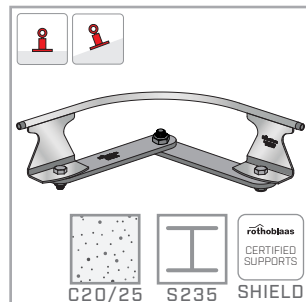
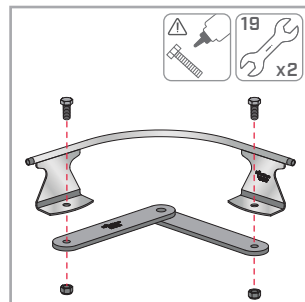


■ ADJUSTABLE CORNER SUPPORT INSTALLATION

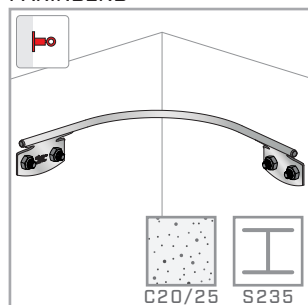
PASANGBEND



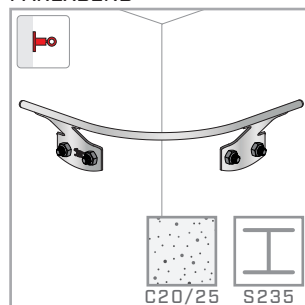
PASANGBEND + ANG SUP



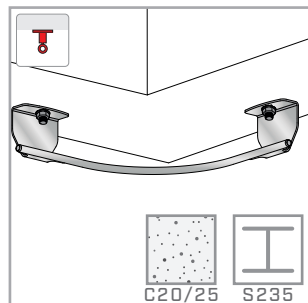
PARINBEND



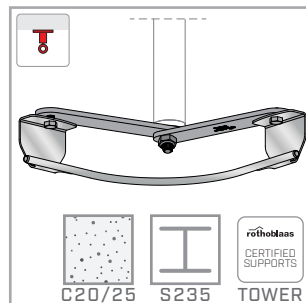
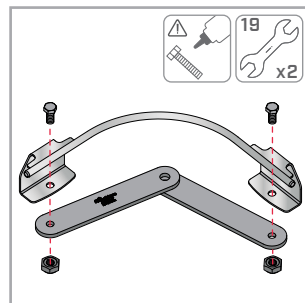
PAREXBEND



OHANGBEND



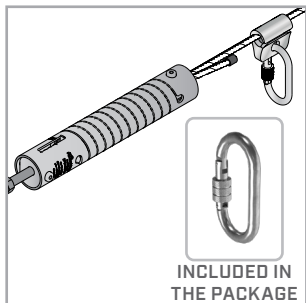
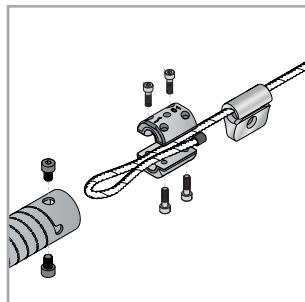
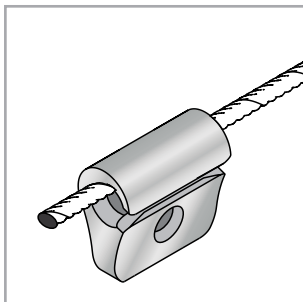
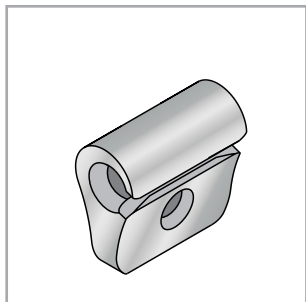
OHANGBEND + ANG SUP



■ SLIDE 2 INSTALLATION

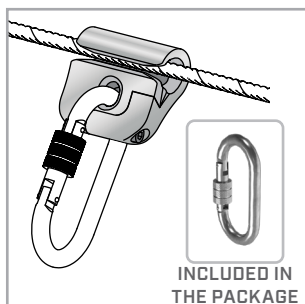
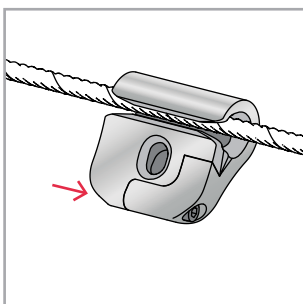
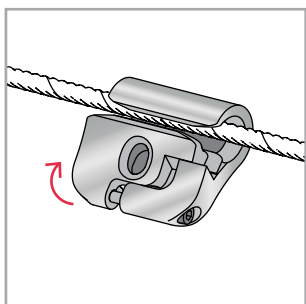
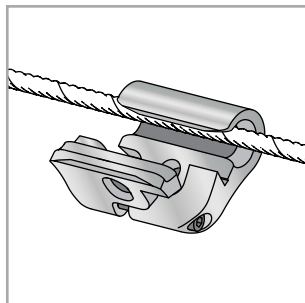
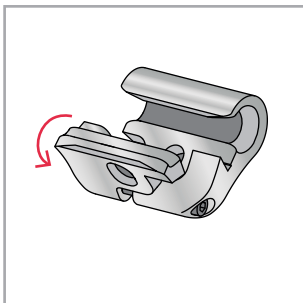
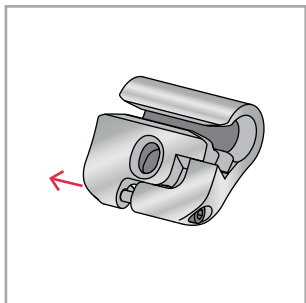


SLIDE - SLIDE2 - OHSLIDE
Installation
Manual



SLIDE - SLIDE2 - OHSLIDE
Installation
Manual

■ SLIDE 1 INSTALLATION

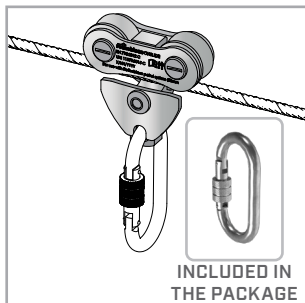
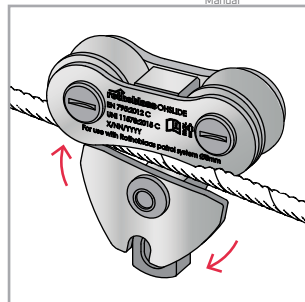
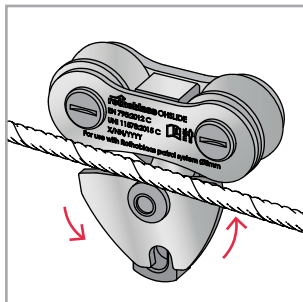
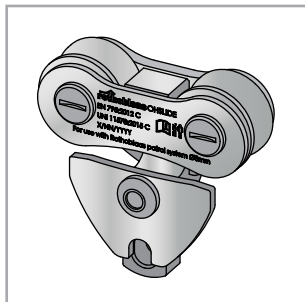


LIFELINE INSTALLATION

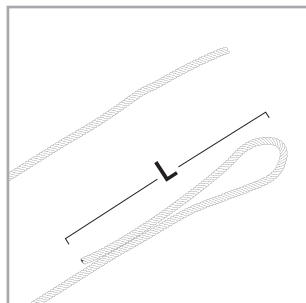
OHSLIDE INSTALLATION



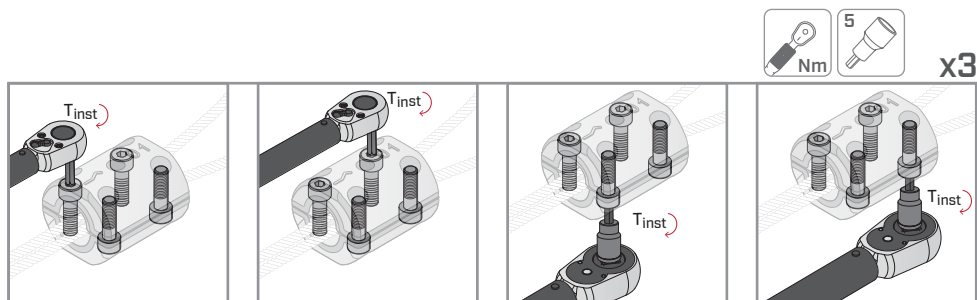
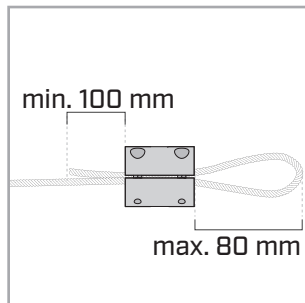
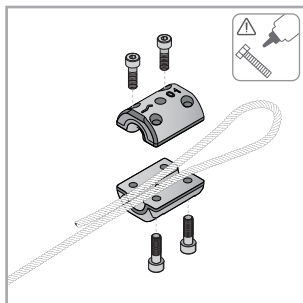
SLIDE - SLIDE2 - OHSLIDE
Installation
Manual



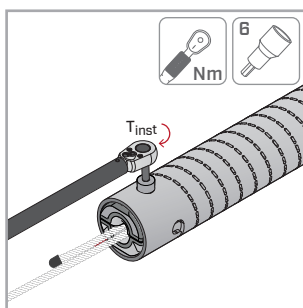
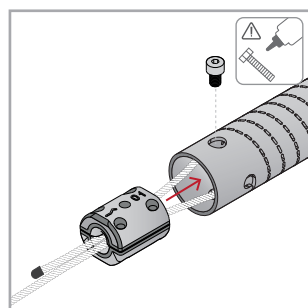
SPEAREVO INSTALLATION



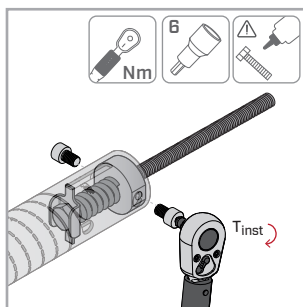
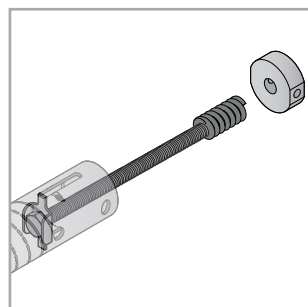
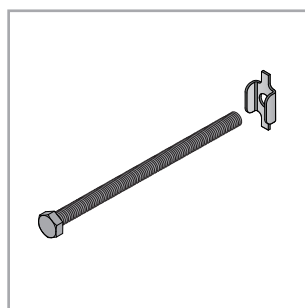
$L = \text{min. } 200 \text{ mm}$



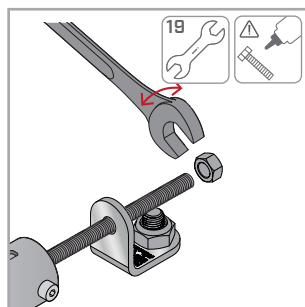
$T_{\text{inst}} = 15 \text{ Nm}$



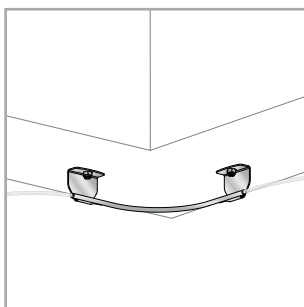
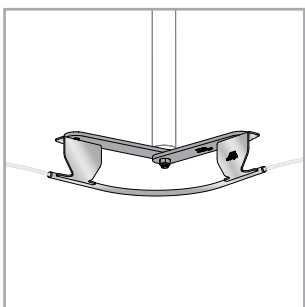
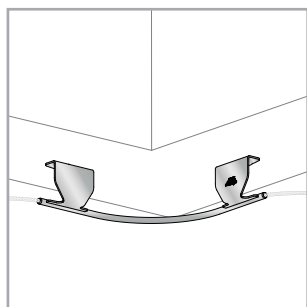
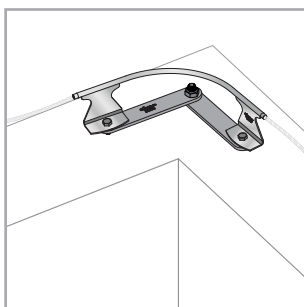
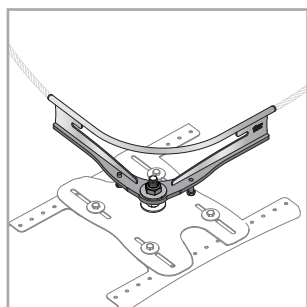
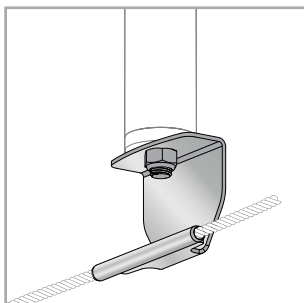
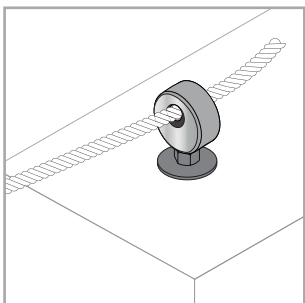
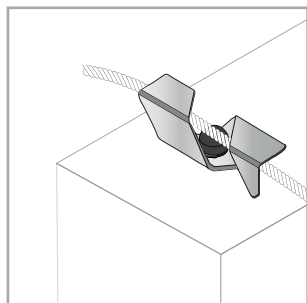
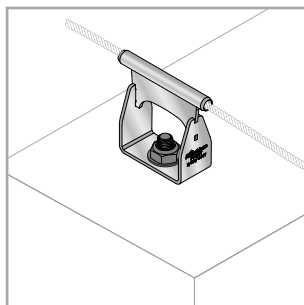
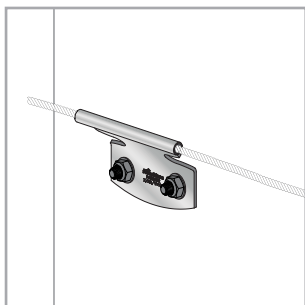
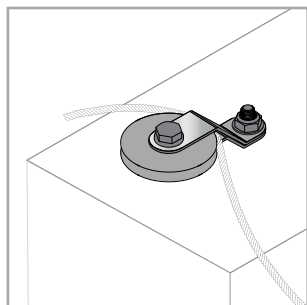
$T_{\text{inst}} = 15 \text{ Nm}$



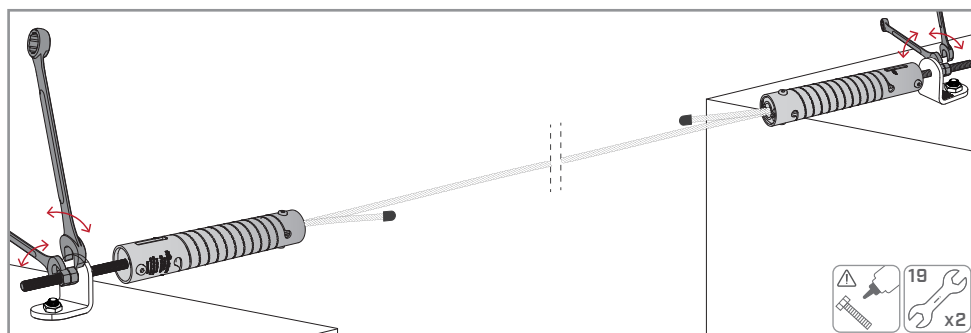
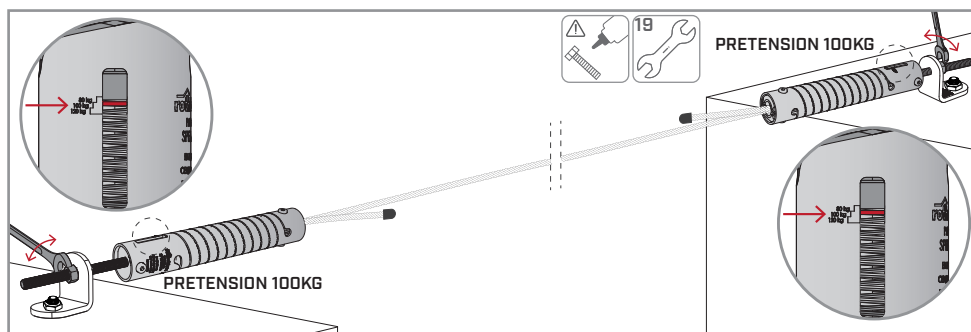
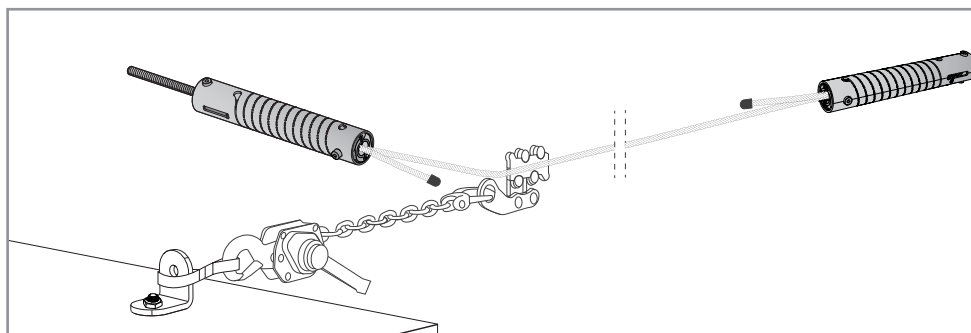
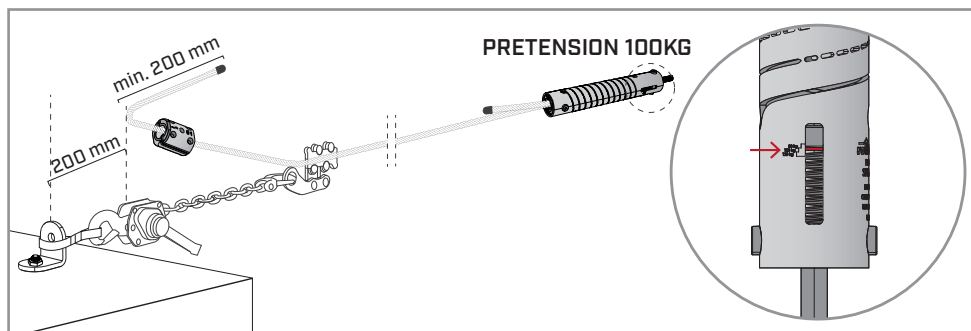
$T_{\text{inst}} = 15 \text{ Nm}$



LIFELINE INSTALLATION
■ CABLE INSTALLATION



SPEAREVO INSTALLATION





Rotho Blaas SRL

06-25

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

