rothoblaas

Solutions for Safety

# PATROL + SPEAREVO

## INSTALLATION MANUAL

S235

C20/25

rothoblaas CERTIFIED SUPPORTS

TOWER
SHIELD
SHIELD2
WAVE
BLOCK
T-CLAMP





x2

INCLUDED IN THE PACKAGE

read also:

**PATROL + SPEAREVO** Installation Manual + **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.

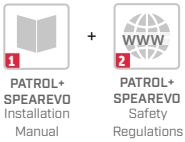
**EL** Η εγκατάσταση ή/και η χρήση του προϊόντος Rotho Blaas επιτρέπεται μόνο σε έμπειρο προσωπικό που έχει διαβάσει και κατανοήσει τις 1 **ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ** και τους 2 **ΚΑΝΟΝΙΣΜΟΥΣ ΑΣΦΑΛΕΙΑΣ** στη γλώσσα της σχετικής χώρας χρήσης.

**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.




**PATROL+ SPEAREVO** Installation Manual

**PATROL+ SPEAREVO** Safety Regulations

## TOOLS




(1) VINYLESTER CHEMICAL ANCHOR WITHOUT STYRENE

## INFORMATIONS

Type

**Rothoblaas**

**PATROL - SPEAREVO**

Name or logo of manufacturer/distributor

**ROTHOBLAAS**

Related standard(s)

**EN 795:2012 C**

**CEN/TS 16415:2013**

**UNI 11578:2015 C**

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 patyrusiam personalui, prieš tai perskaičius ir supratus 1 **MONTAVIMO VADOVE** ir 2 **SAUGOS TAISYKLES** atitinkamos šalies, kurioje eksploatuojama, kalba.

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

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

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

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

**RO** Instalarea şi/sau utilizarea produsului Rotho Blaas este permisă numai personalului expert, după ce a citit şi înţeles 1 **MANUALUL DE INSTALARE** şi 2 **NORMELE DE SIGURANŢĂ** în limba ţării de utilizare a produsului.

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

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

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

**TR** Sadece yetkili personel, 1 **KURULUM KILAVUZUNDA** ve 2 **GÜVENLIK 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。

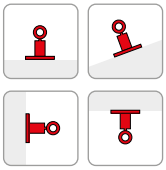
**ZH** 只有具备合格资质的人员在阅读并理解以使用国的语言编写的1安装手册和2安全规程后才能安装和/或使用该Rotho Blaas™品。

**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

1 PATROL+ SPEAREVO Installation Manual + 2 PATROL+ SPEAREVO Safety Regulations

# PRODUCT INFORMATIONS

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

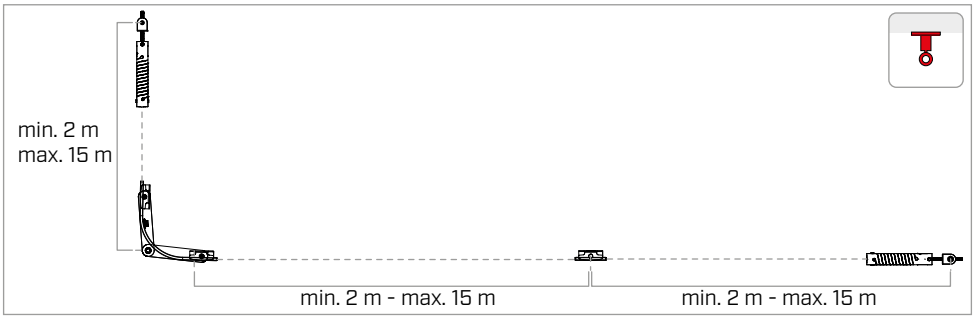


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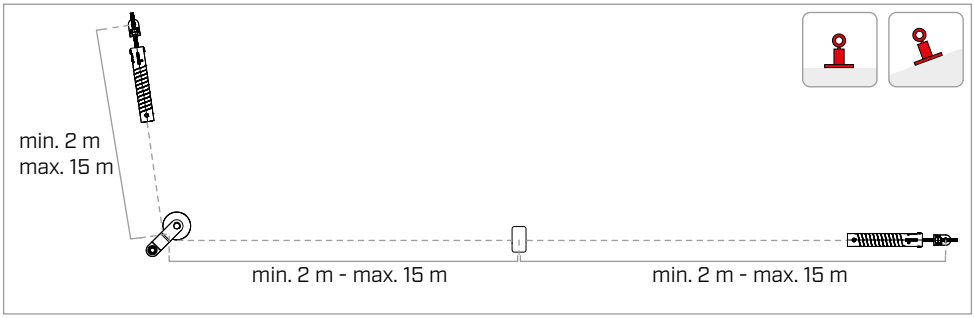
PATROL + SPEAREVO: HORIZONTAL LIFELINE PASSING THROUGH



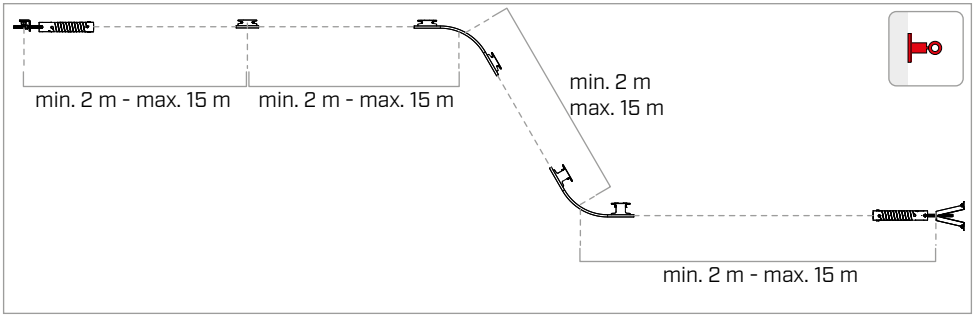

PATROL + SPEAREVO: OVERHEAD LIFELINE




PATROL + SPEAREVO: HORIZONTAL LIFELINE NON-PASSING THROUGH

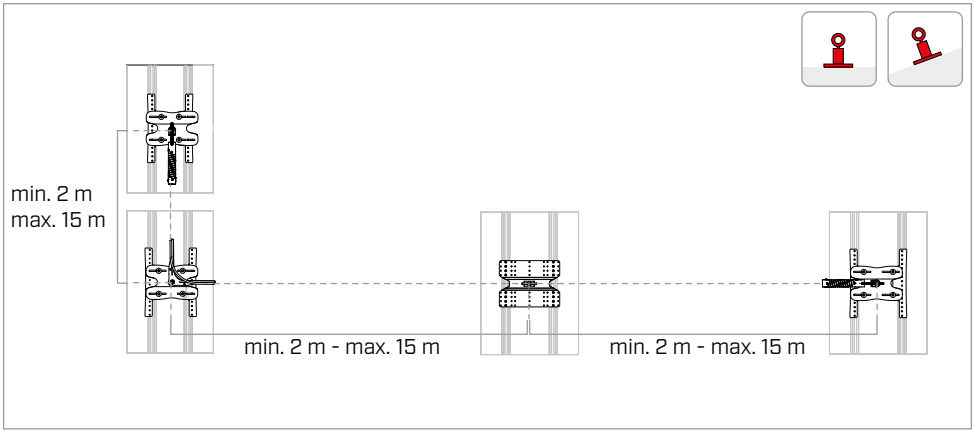



PATROL + SPEAREVO: ON WALL LIFELINE

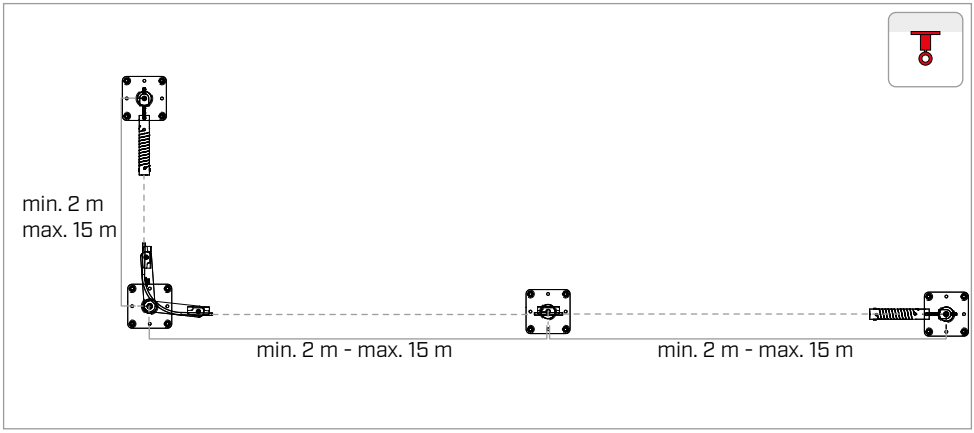


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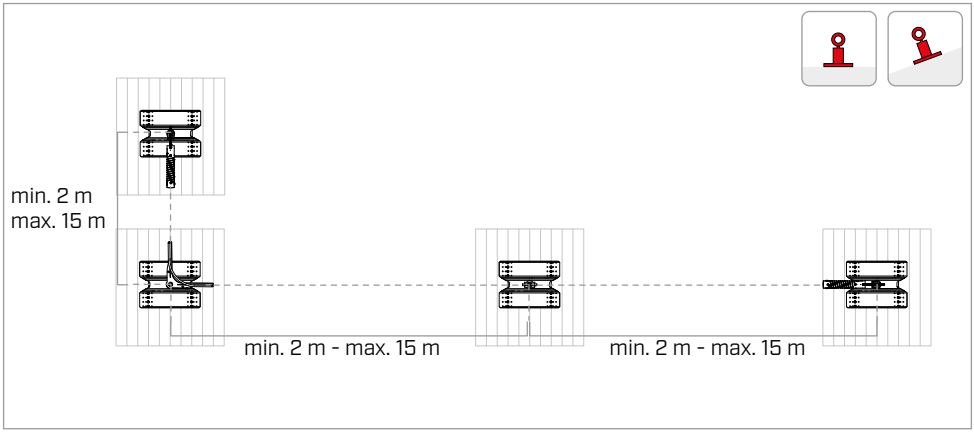
PATROL + SPEAREVO + SHIELD (+ SHIELD 2)




PATROL + SPEAREVO + TOWER: OVERHEAD LIFELINE

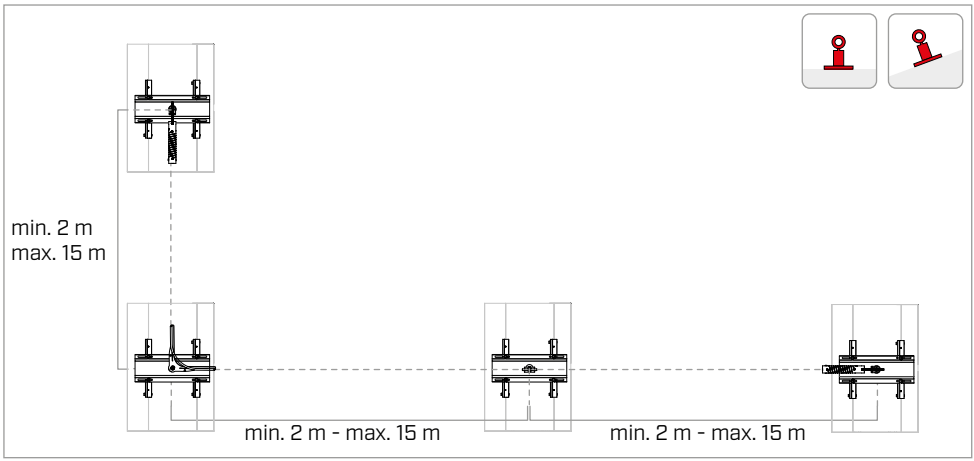



PATROL + SPEAREVO + WAVE

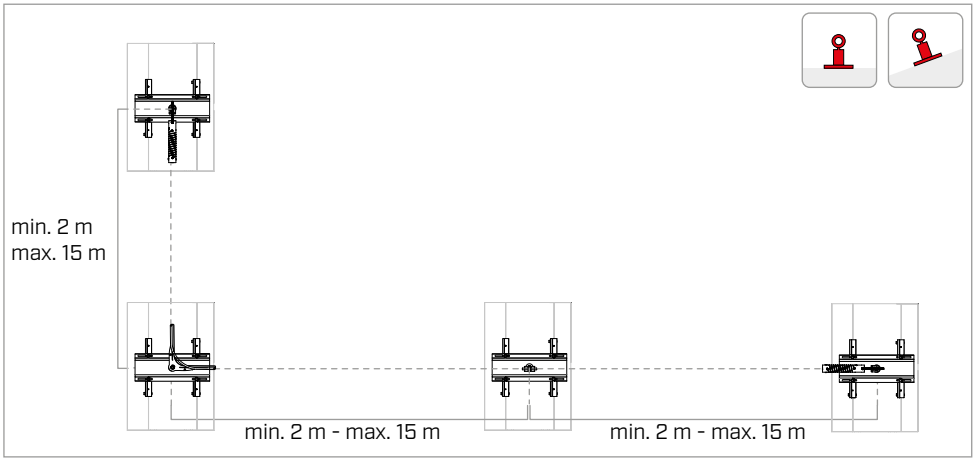


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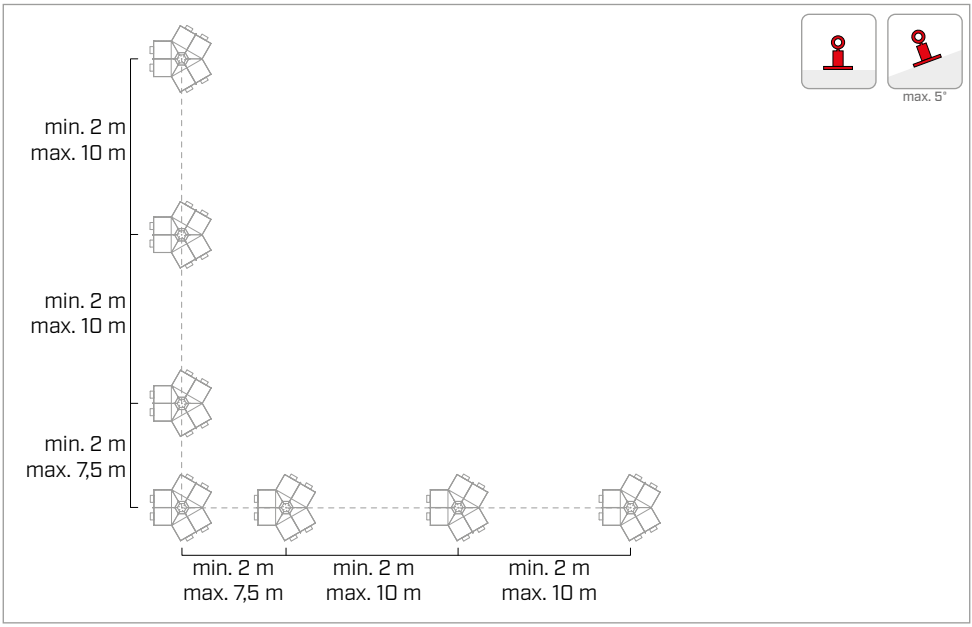
PATROL + SPEAREVO + TCLAMPSTAND/TCLAMPKLIP




PATROL + SPEAREVO + TCLAMPRIVER

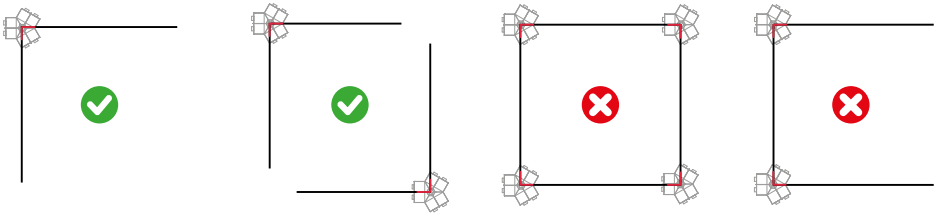


## PATROL + SPEAREVO + BLOCK




MAX. N. 1 CORNER/LIFELINE

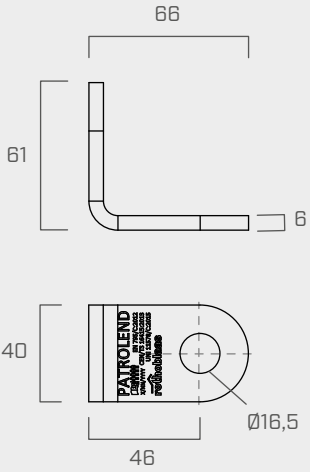
corner support (PASANG/PATROLANG/PASANGBEND)





## PATROLEND - PATROLEND A4

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1.4401 AISI316 INOX — PATROLENDA4
C20/25
S235





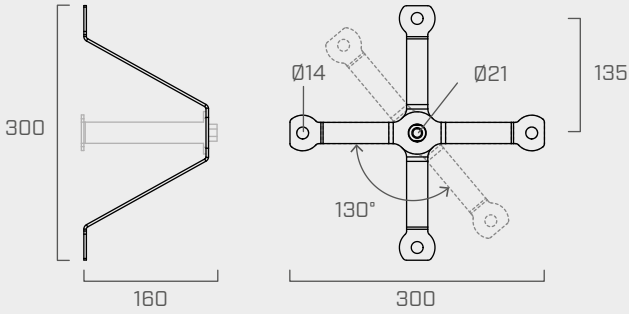

PATROLEND
EN 795/C:2012
X/NN/YYYY CEN/TS 16415:2013
UNI 11578/C:2015
rothoblaas



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## PAREND - PAREND A4

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1.4401 AISI316 INOX — PARENDA4
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EN 795/C:2012
X/NN/YYYY CEN/TS 16415:2013
UNI 11578/C:2015
rothoblaas



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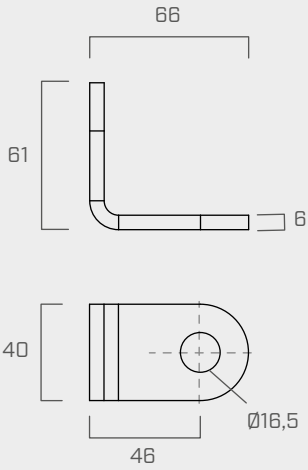
## PATROLTERM - PATROLTERMA4



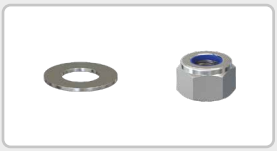
1.4301 AISI304 INOX — PATROLTERM

1.4401 AISI316 INOX — PATROLTERMA4

rothoblaas CERTIFIED SUPPORTS — TOWER SHIELD WAVE BLOCK





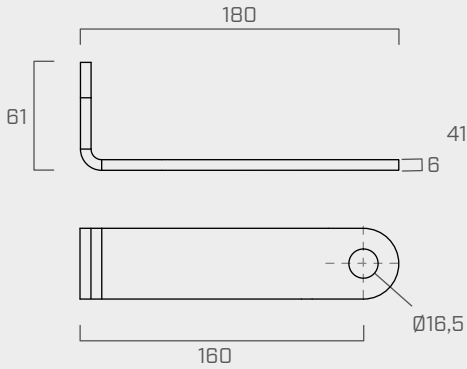
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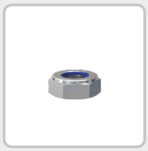


1.4301 AISI304 INOX — PATROLTERML

rothoblaas CERTIFIED SUPPORTS — TOWER SHIELD WAVE BLOCK





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## PATROLINT

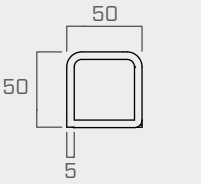


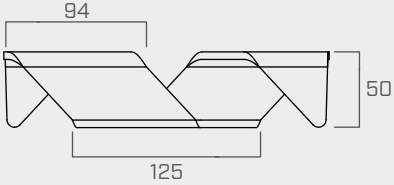
1.4301
AISI304
**INOX**
PATROLEND

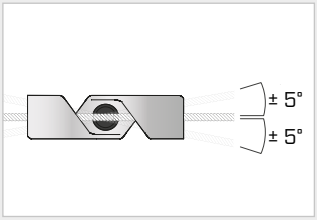
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S235

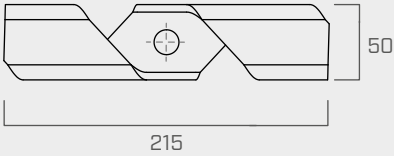
rothoblaas
CERTIFIED SUPPORTS
TOWER
SHIELD
SHIELD2
WAVE
BLOCK








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## PATROLMED

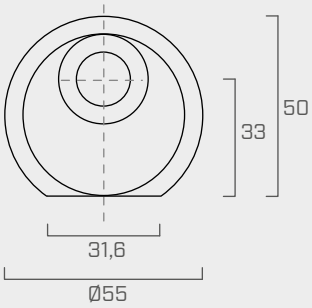


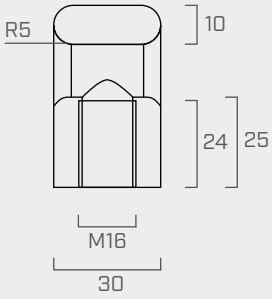
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C20/25

S235

rothoblaas
CERTIFIED SUPPORTS
TOWER
SHIELD
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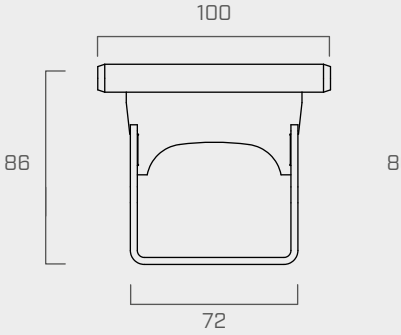





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## PASINT - PASINT A4

1.4301 AISI304 INOX — PASINT
1.4401 AISI316 INOX — PASINTA4
C20/25
S235
rothoblaas CERTIFIED SUPPORTS — TOWER SHIELD SHIELD2 WAVE BLOCK



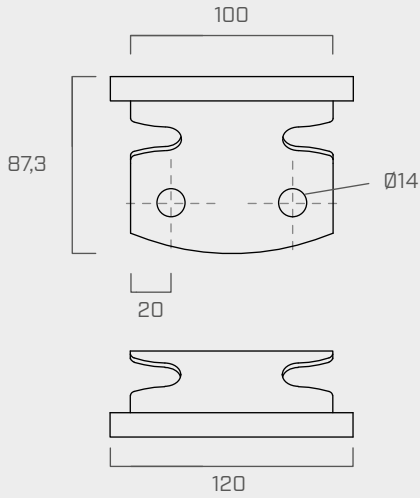





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## PARINTER - PARINTER A4

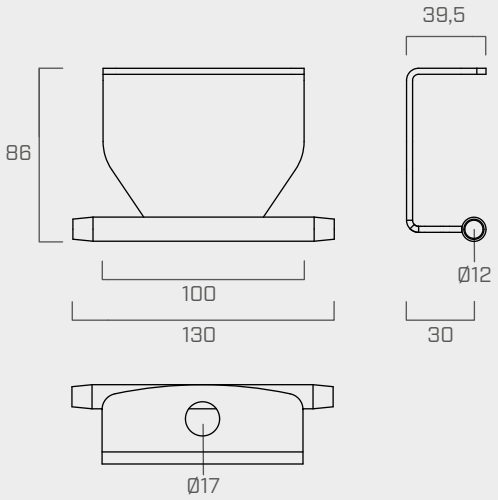
1.4301 AISI304 INOX — PARINTER
1.4401 AISI316 INOX — PARINTERA4
C20/25
S235






## OHINT

1.4301 AISI304 INOX — OHINT
1.4401 AISI316 INOX — OHINTA4
C20/25 — S235 — TOWER





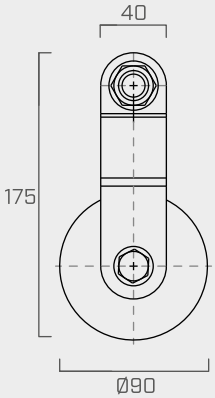


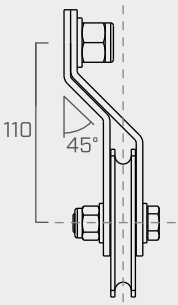

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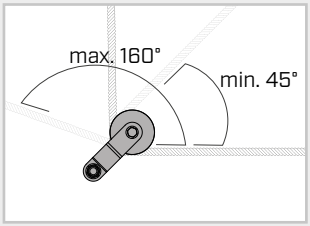
## PATROLANG

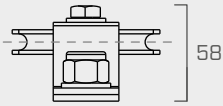
1.4301 AISI304 INOX | AL EN-AW 6082 | C20/25 | S235 | rothoblaas CERTIFIED SUPPORTS

TOWER SHIELD SHIELD2 WAVE BLOCK

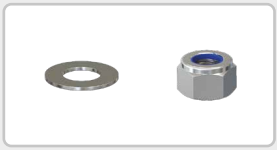




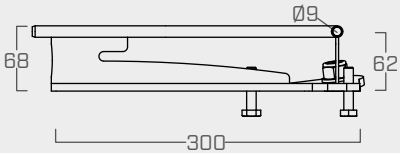



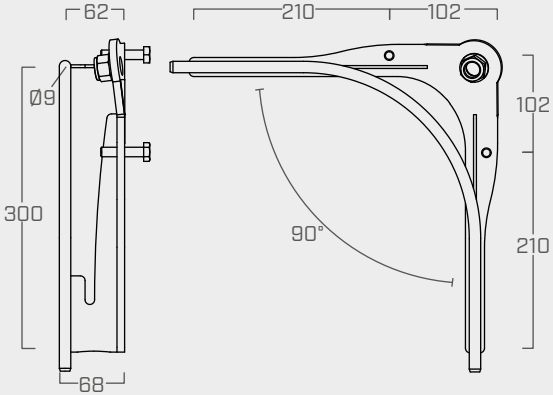
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## PASANG - PASANG A4

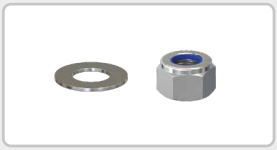
1.4301 AISI304 INOX PARINTER | 1.4401 AISI316 INOX PARINTERA4 | C20/25 | S235 | rothoblaas CERTIFIED SUPPORTS

TOWER SHIELD SHIELD2 WAVE BLOCK





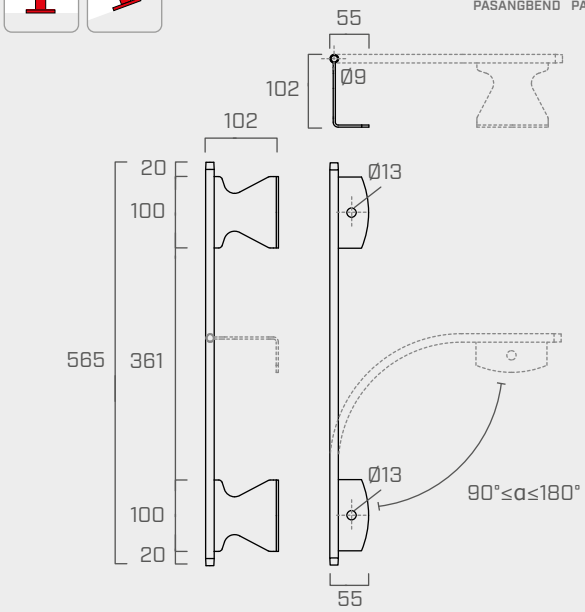
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## PASANGBEND - PASANGBEND A4

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1.4401 AISI316 INOX PASANGBENDA4

C20/25 S235






## ANGSUP - ANGSUP A4

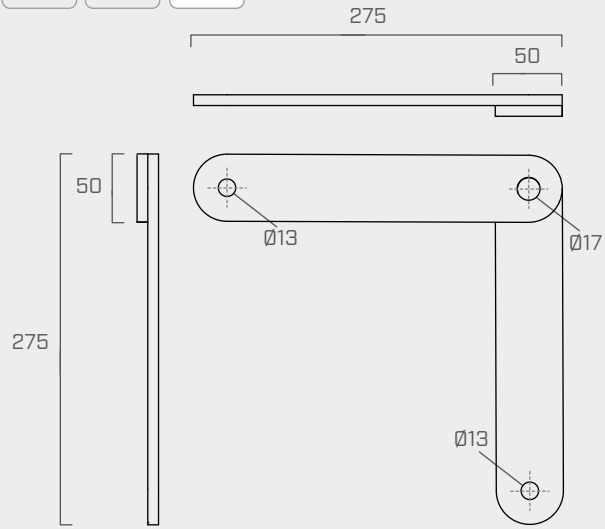
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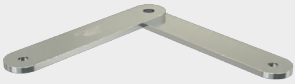
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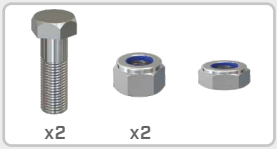
C20/25 S235

rothoblaas CERTIFIED SUPPORTS

TOWER SHIELD SHIELD2 WAVE BLOCK





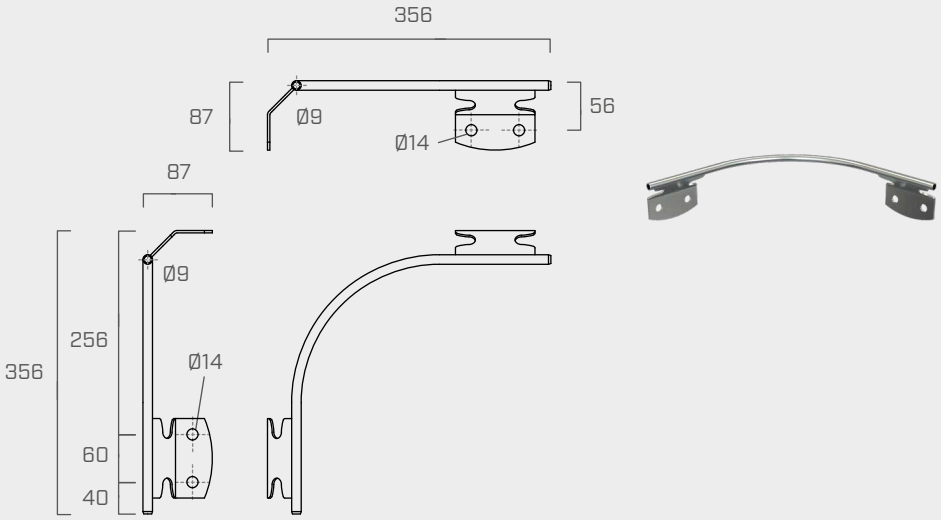

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## PARIN - PARIN A4

1.4301 AISI304 INOX — PARIN

1.4401 AISI316 INOX — PARINA4

C20/25 S235

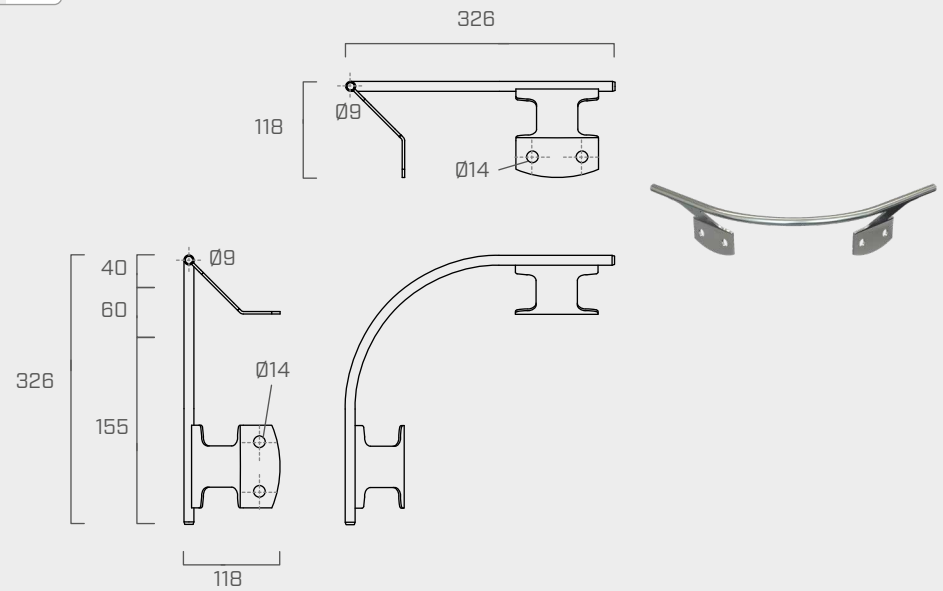



## PAREX - PAREX A4

1.4301 AISI304 INOX — PAREX

1.4401 AISI316 INOX — PAREXA4

C20/25 S235



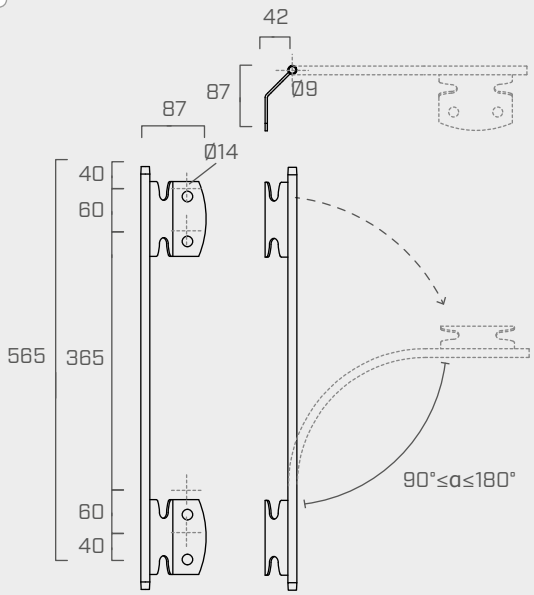
## PARINBEND - PARINBEND A4

1.4301 AISI304 INOX — PARINBEND

1.4401 AISI316 INOX — PARINBENDA4

C20/25 S235







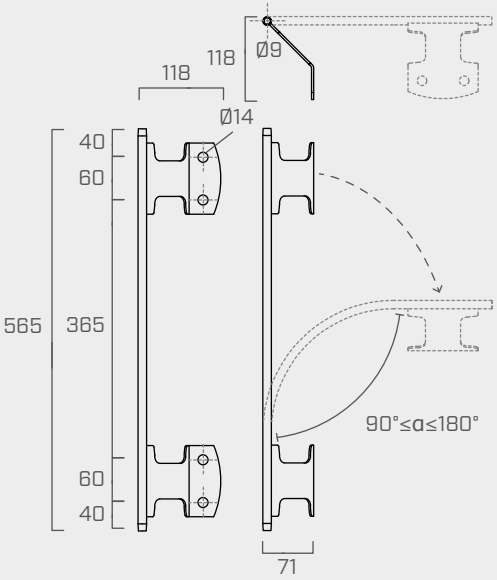

## PAREXBEND - PAREXBEND A4

1.4301 AISI304 INOX — PAREXBEND

1.4401 AISI316 INOX — PAREXBENDA4

C20/25 S235





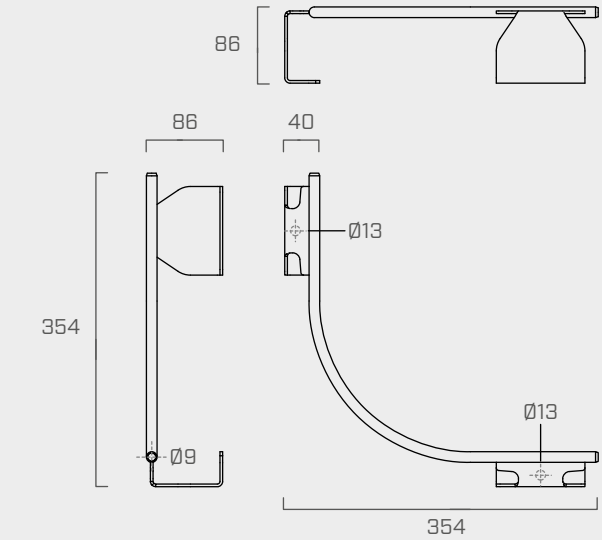



## OHANGINT - OHANGINT A4

1.4301 AISI304 INOX — OHANGINT

1.4401 AISI316 INOX — OHANGINTA4

C20/25 S235



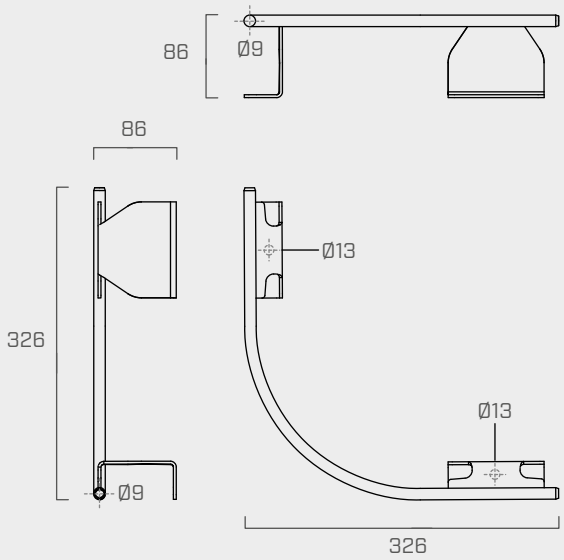



## OHANGEXT - OHANGEXT A4

1.4301 AISI304 INOX — PAREXBEND

1.4401 AISI316 INOX — PAREXBENDA4

C20/25 S235



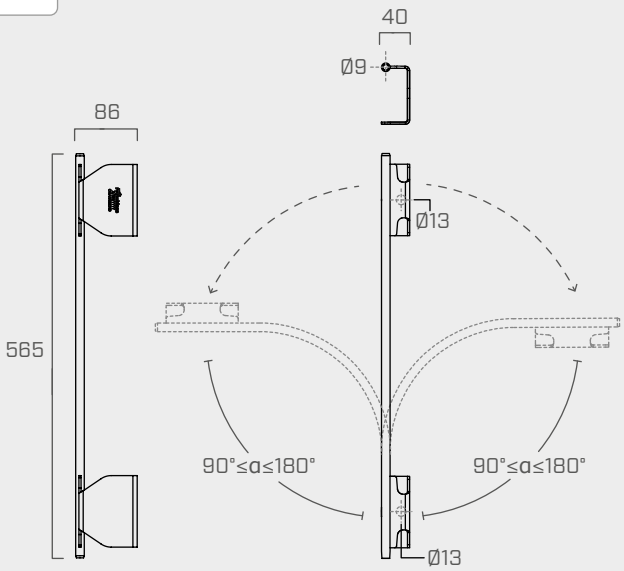



## OHANGBEND - OHANGBEND A4

1.4301 AISI304 INOX — OHANGBEND

1.4401 AISI316 INOX — OHANGBENDA4

C20/25 S235



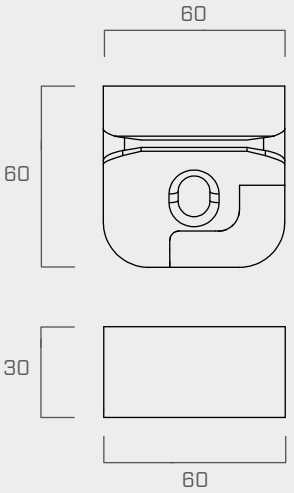


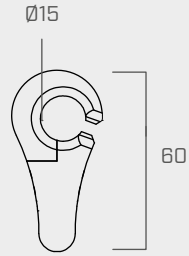

## SLIDE - SLIDE A4

1.4301 AISI304 INOX — SLIDE

1.4401 AISI316 INOX — SLIDEA4

SLIDE1-SLIDE2-OHSLIDE Installation Manual






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



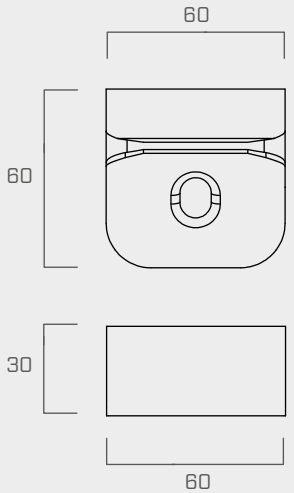
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CARSCREW (AZ 011)

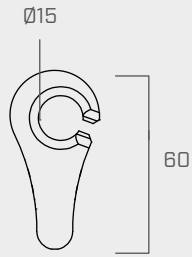
## SLIDE 2 - SLIDE 2 A4

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



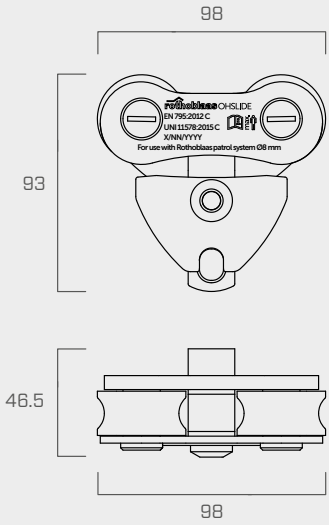
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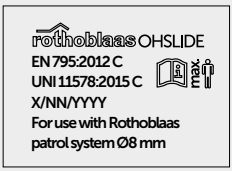
## OHSLIDE - OHSLIDE A4

1.4301 AISI304 INOX
OHSLIDE

1.4401 AISI316 INOX
OHSLIDEA4

SLIDE1-SLIDE2-OHSLIDE
Installation Manual





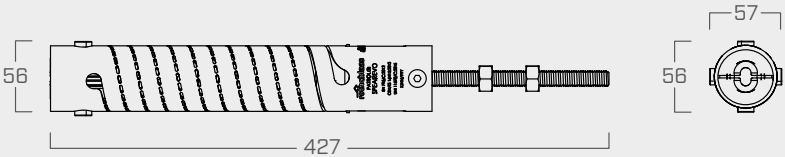



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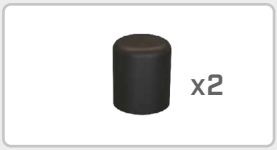
## SPEAREVO - SPEAREVO A4

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SPEAREVO

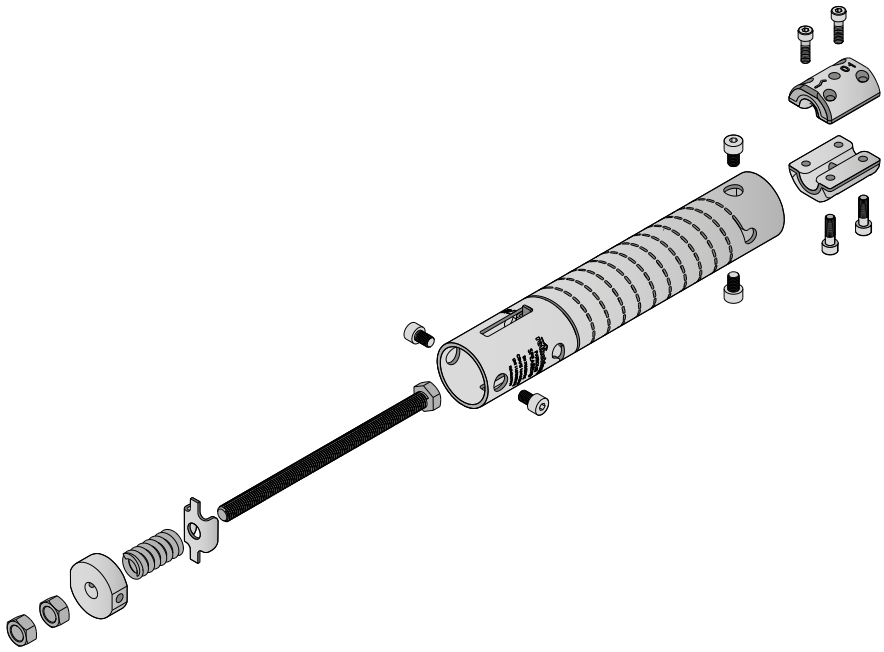
1.4401 AISI316 INOX
SPEAREVOA4






INCLUDED IN THE PACKAGE



SUPPORT INSTALLATION

# ON TOWER





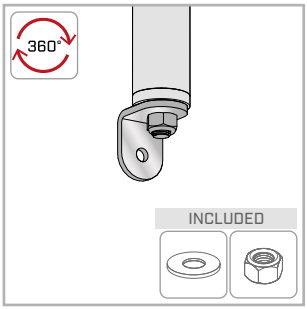




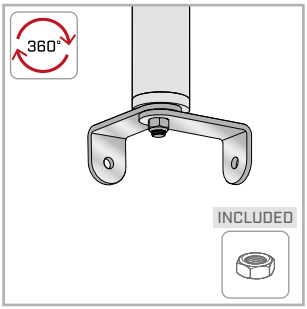
TOWER TOWERA2 Installation Manual

TOWER TOWERA2 Safety Regulations

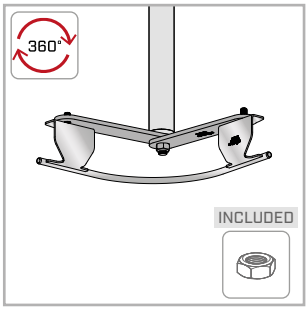
TOWER + PATROLTERM




TOWER + PATROLTERML



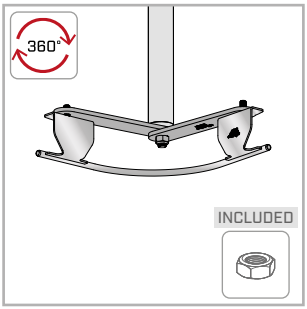

TOWER + ANGSUP + OHANGEXT




TOWER + ANGSUP + OHANGINT




TOWER + ANGSUP + OHANGBEND




TOWER + OHINT






SUPPORT INSTALLATION

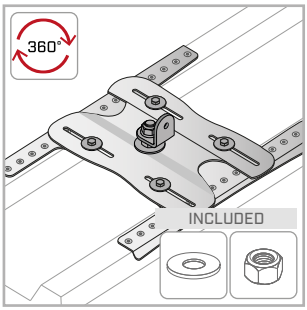
# ON SHIELD



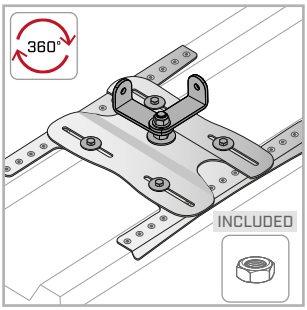




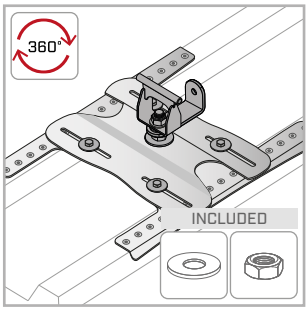
SHIELD + PATROLTERM



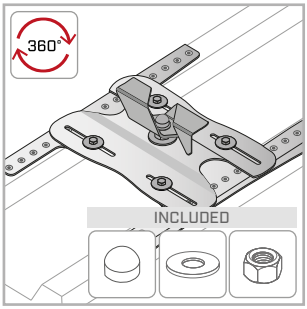

SHIELD + PATROLTERML



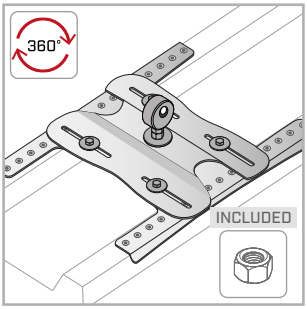

SHIELD + PATROLTERML + PASINT



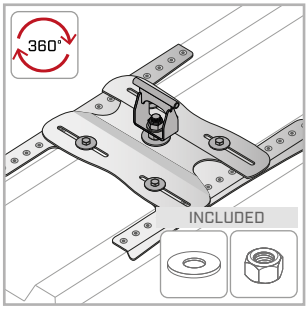

SHIELD + PATROLINT



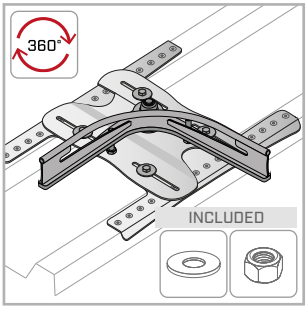

SHIELD + PATROLMED



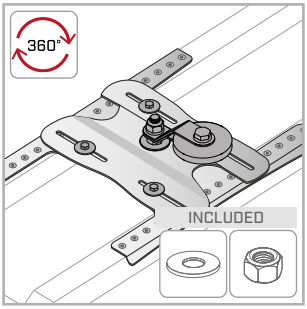

SHIELD + PASINT



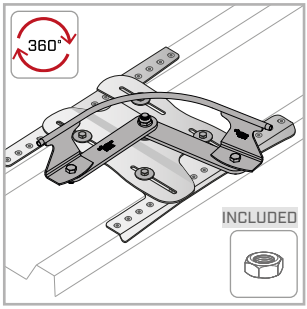

SHIELD + PASANG

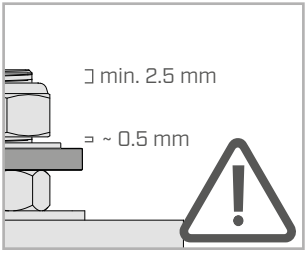



SHIELD + PATROLANG




SHIELD + ANGSUP + PASANGBEND



SUPPORT INSTALLATION

# ON SHIELD 2



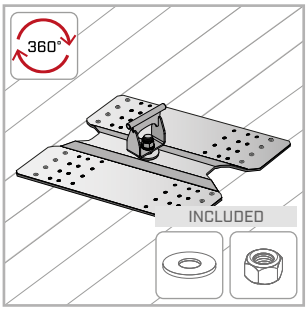




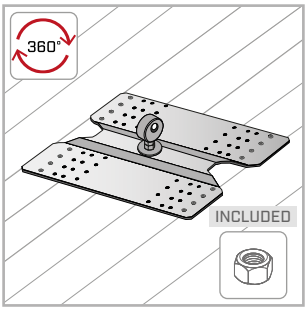
**SHIELD2** Installation Manual

**SHIELD2** Safety Regulations

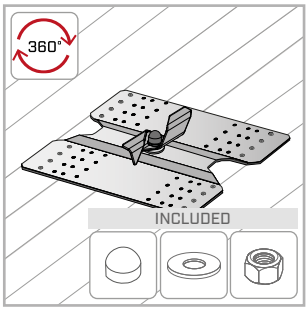
SHIELD 2 + PASINT

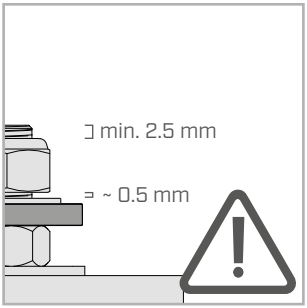



SHIELD 2 + PATROLMED




SHIELD 2 + PATROLINT



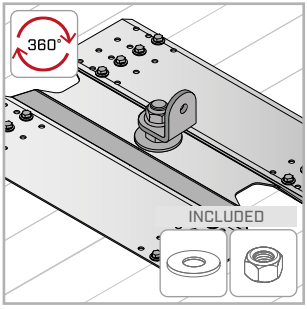



SUPPORT INSTALLATION

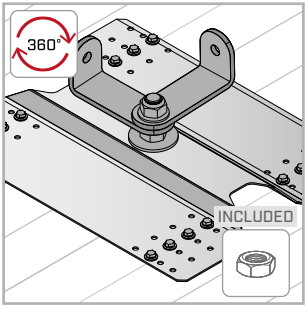
# ON WAVE

WAVE Installation Manual + WAVE Safety Regulations

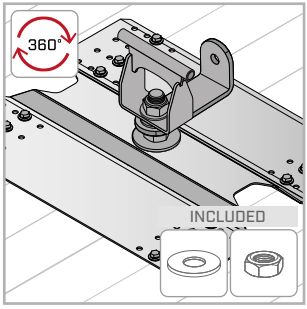
WAVE + PATROLTERM



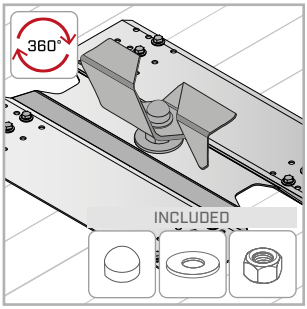

WAVE + PATROLTERML



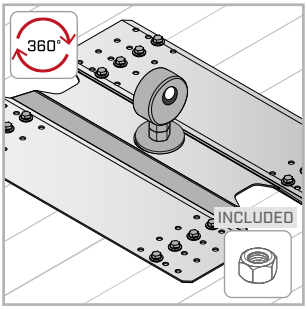

WAVE + PATROLTERML + PASINT



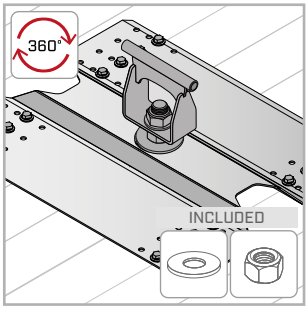

WAVE + PATROLINT



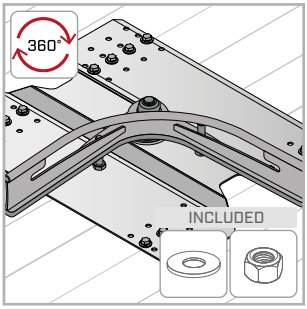

WAVE + PATROLMED



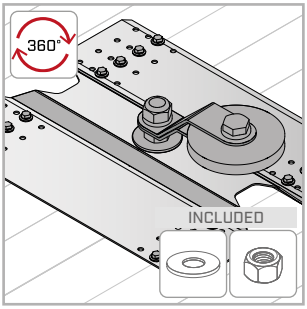

WAVE + PASINT



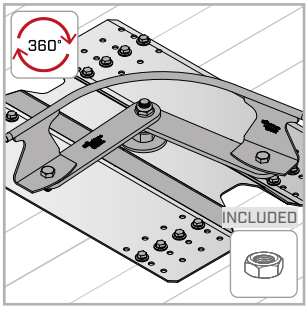

WAVE + PASANG

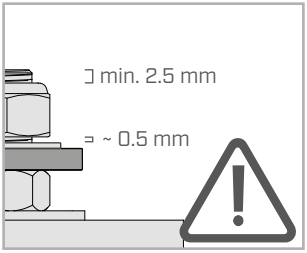



WAVE + PATROLANG




WAVE + ANGSUP + PASANGBEND



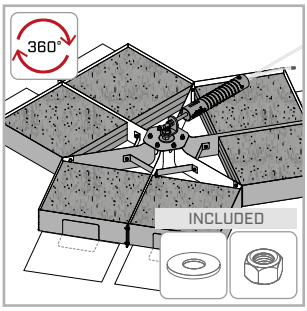



SUPPORT INSTALLATION

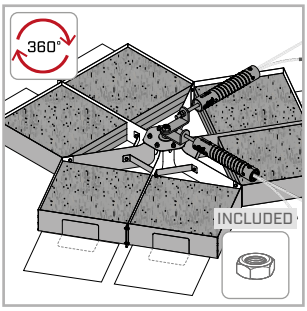
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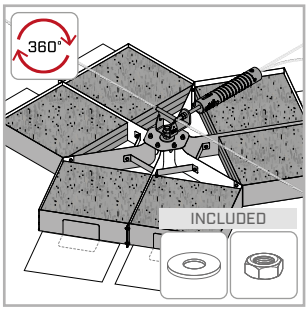

BLOCK + PATROLTERM



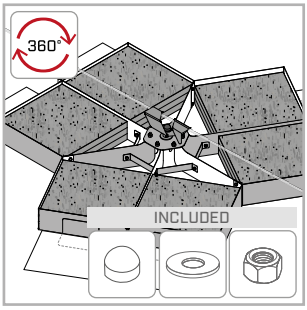

BLOCK + PATROLTERML



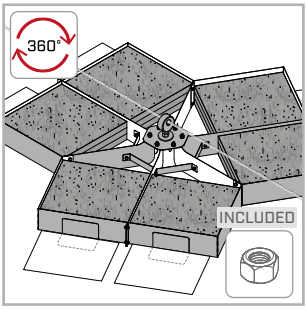

BLOCK + PATROLTERML + PASINT



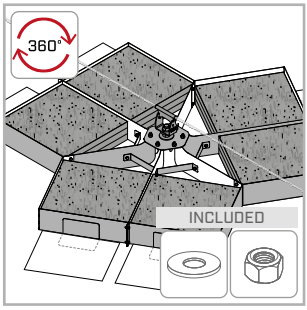

BLOCK + PATROLINT



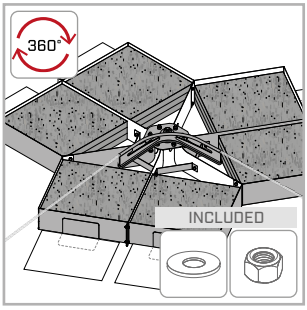

BLOCK + PATROLMED



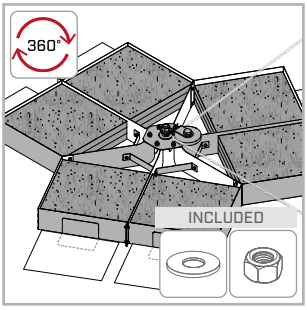

BLOCK + PASINT



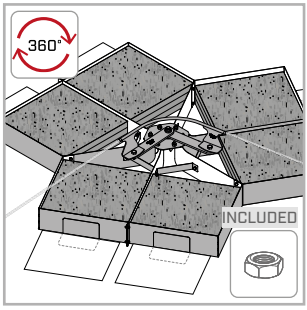

BLOCK + PASANG

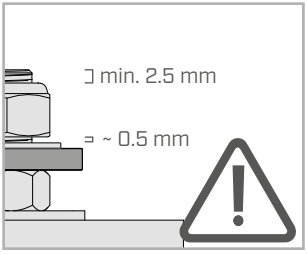



BLOCK + PATROLANG




BLOCK + ANGSUP + PASANGBEND



SUPPORT INSTALLATION

# T-CLAMP

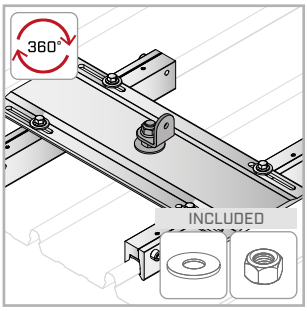




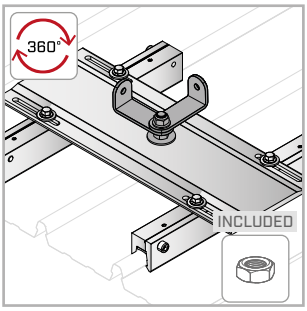


WAVE Installation Manual + WAVE Safety Regulations

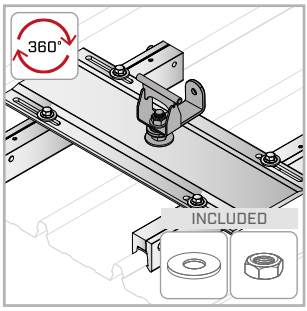
SHIELD + PATROLTERM



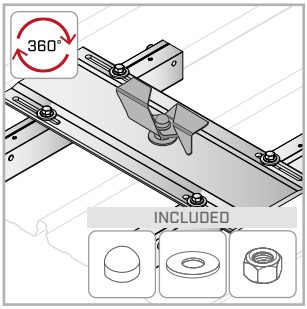

SHIELD + PATROLTERML



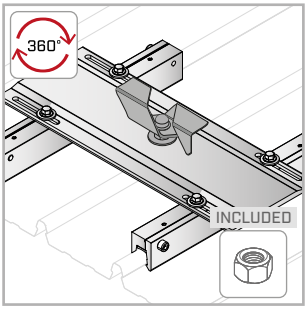

SHIELD + PATROLTERML + PASINT



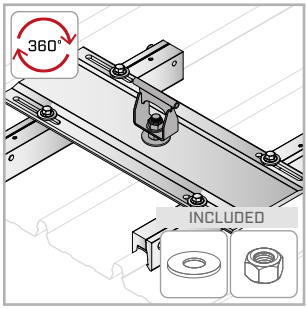

SHIELD + PATROLINT



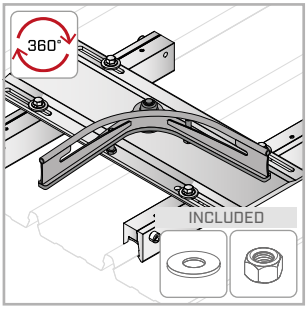

SHIELD + PATROLMED



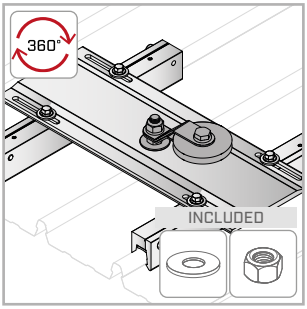

SHIELD + PASINT



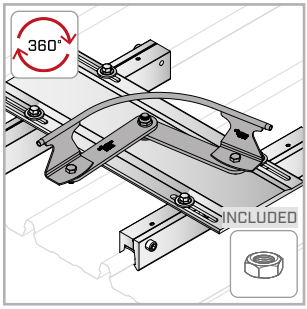

SHIELD + PASANG

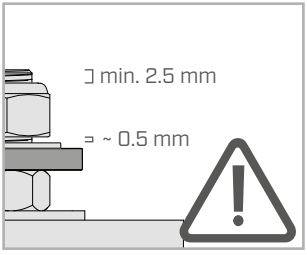



SHIELD + PATROLANG




SHIELD + ANGSUP + PASANGBEND



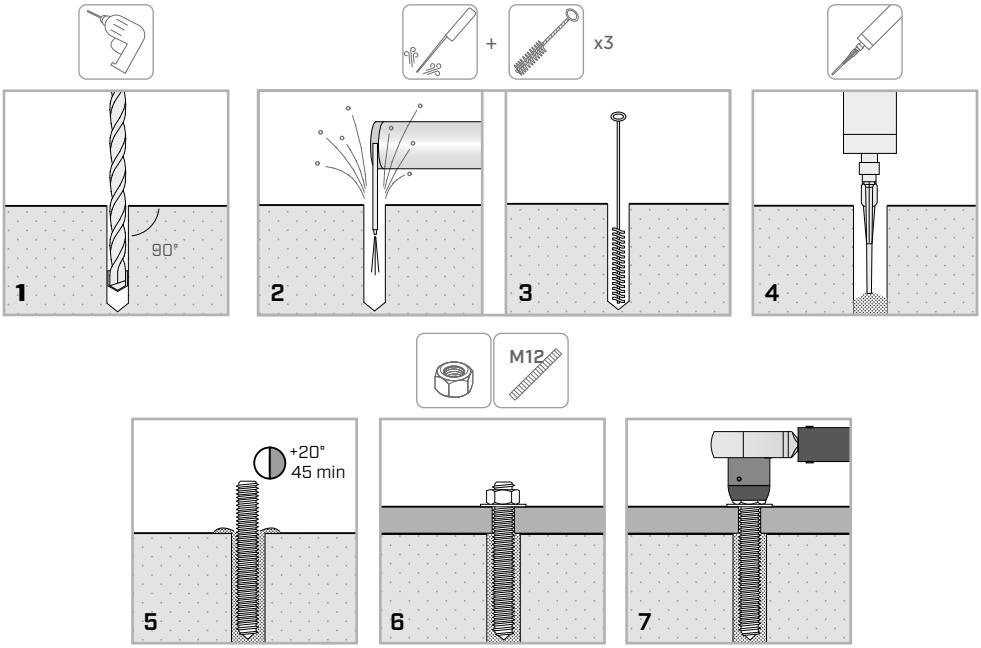



# CONCRETE



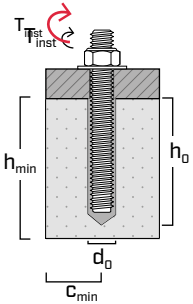


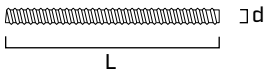





A2-70/A4-70
M12 - 5.8 min

VIN-FIX
ETA 20/0363




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 | |

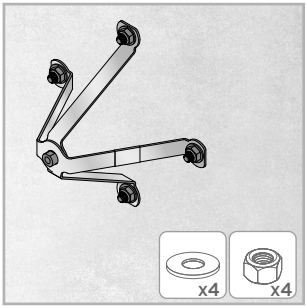
SUBSTRUCTURE INSTALLATION

## CONCRETE

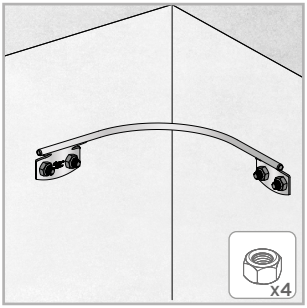
4 X M12



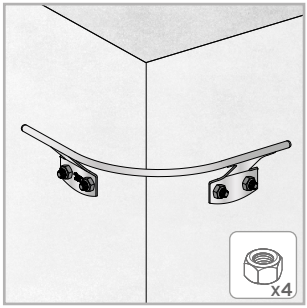

PAREND



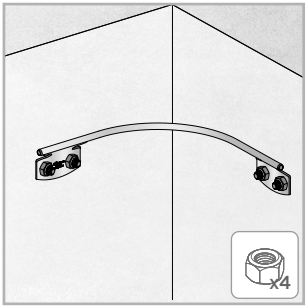

PARINBEND



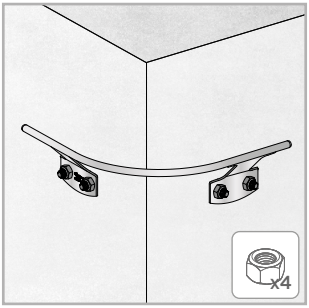

PAREXBEND




PARIN

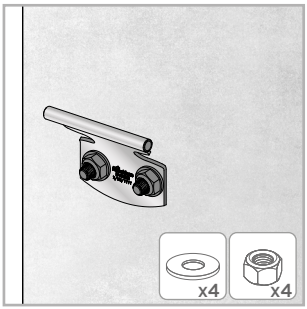



PAREX

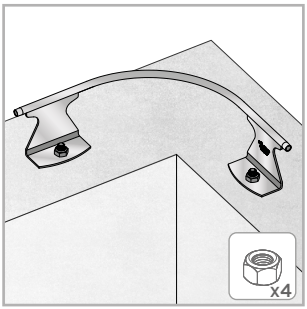



2 X M12

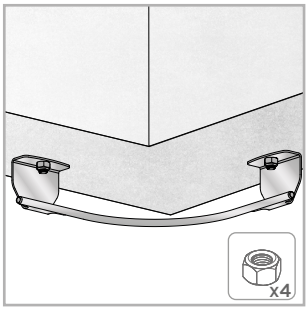
PARINTER



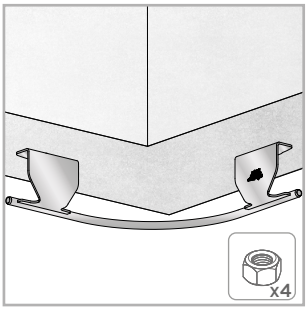

PASANGBEND



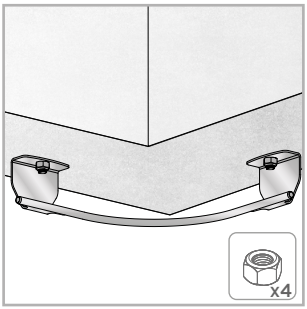

OHANGINT




OHANGEXT



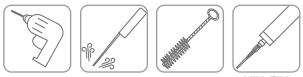

OHANGBEND

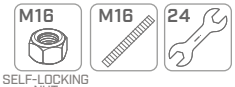


## CONCRETE

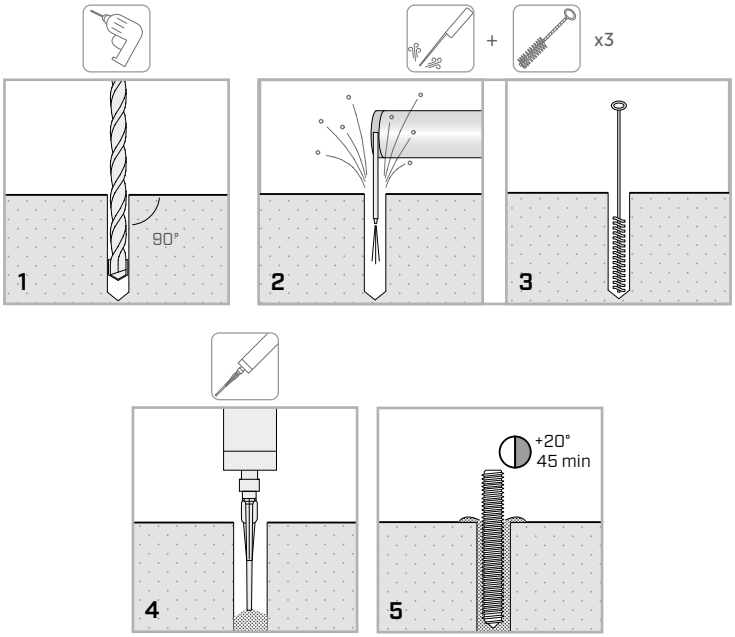


C20/C25



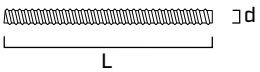



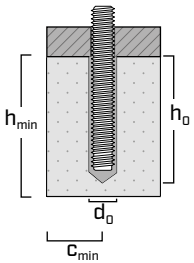

SELF-LOCKING NUT




A2-70/A4-70
M12 - 5.8 min

VIN-FIX
ETA 20/0363




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| d | = | 16 | mm | $d_0$ | = | 18 | mm |
| L | ≥ | $h_{ef}$ +30 | mm | $h_{ef}$ | = | 80 | mm |
| $c_{min}$ | ≥ | 80 | mm | $h_{min}$ | = | $h_{ef}$ +30 ≥ 100 | mm |

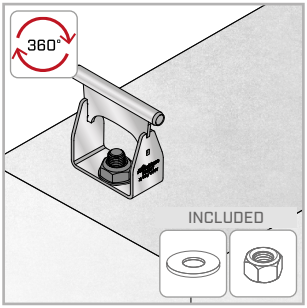
## CONCRETE

24

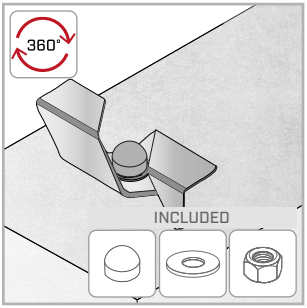
PATROLEND



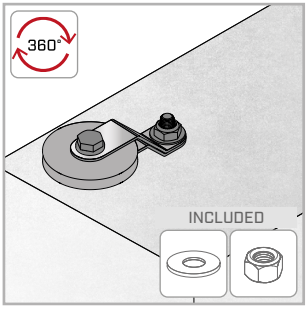

PASINT



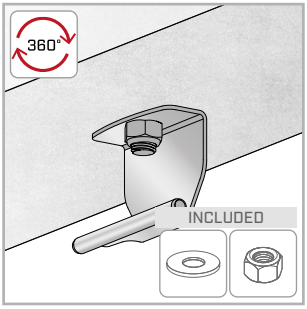

PATROLINT




PATROLANG



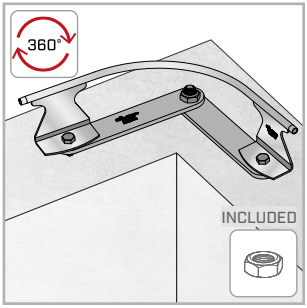

OHINT



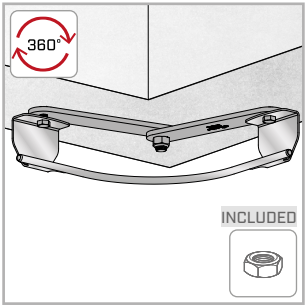

PASANG



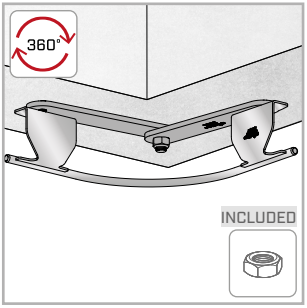

PASANGBEND + ANGSUP



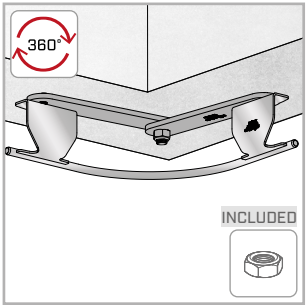

OHAGINT + ANGSUP



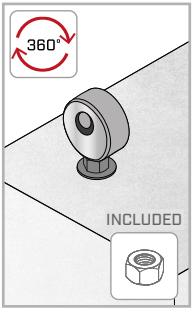

OHANGEXT + ANGSUP

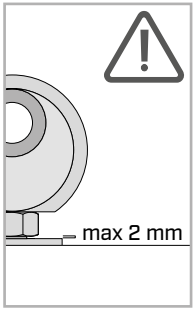


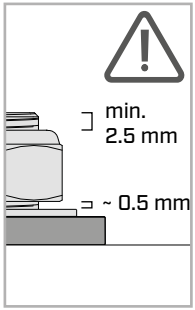

OHANGBEND + ANGSUP



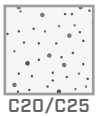

PATROLMED



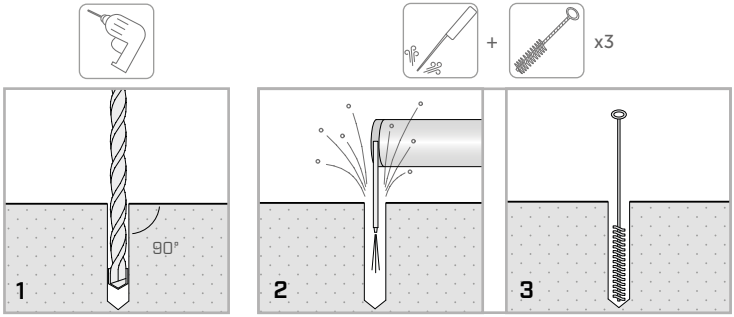



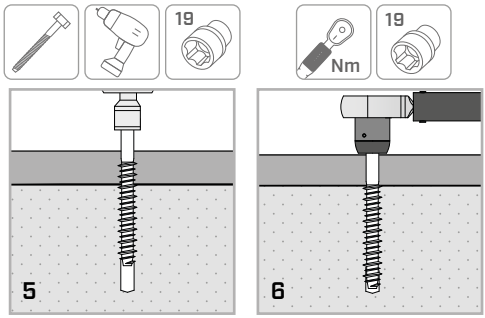
## CONCRETE





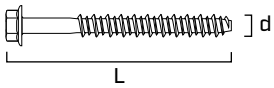


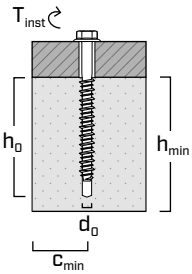



SKR 12 x 90 mm

SKR
ETA-18/0279
ETA-19/0100



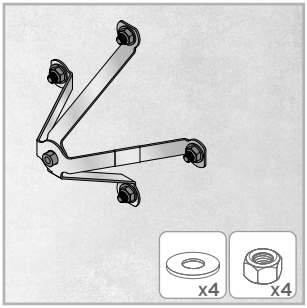

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| d | = | 12 | mm | $d_0$ | = | 10 | mm |
| L | = | 90 | mm | $h_1$ | = | 100 | mm |
| $T_{inst}$ | = | 80 | Nm | $h_{min}$ | ≥ | 130 | mm |
| | | | | $c_{min}$ | ≥ | 96 | mm |

## CONCRETE

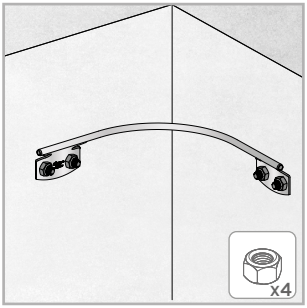



4 X M12

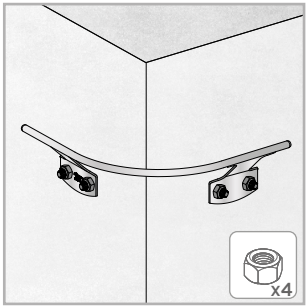
PAREND



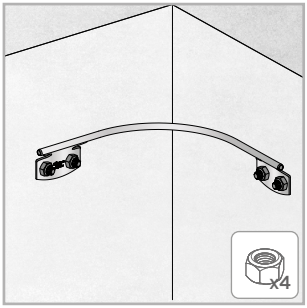

PARINBEND



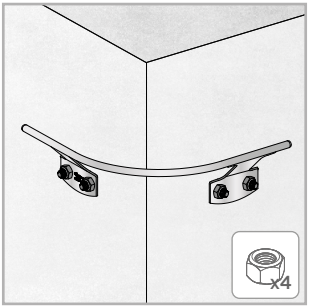

PAREXBEND




PARIN

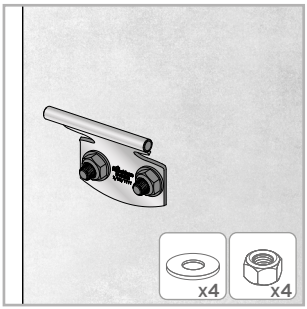



PAREX

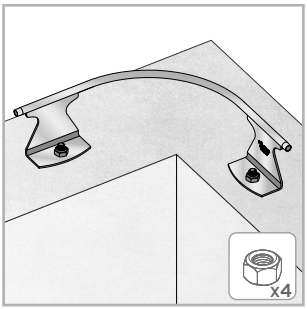



2 X M12

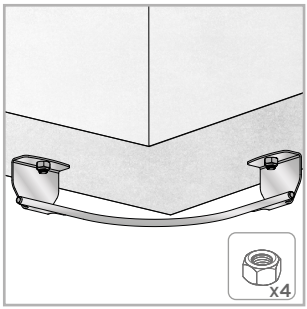
PARINTER



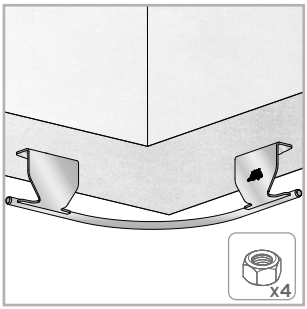

PASANGBEND



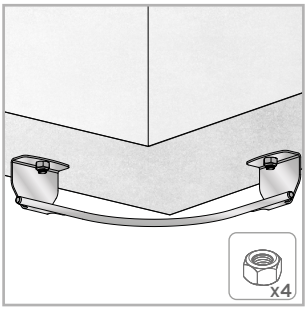

OHANGINT




OHANGEXT




OHANGBEND

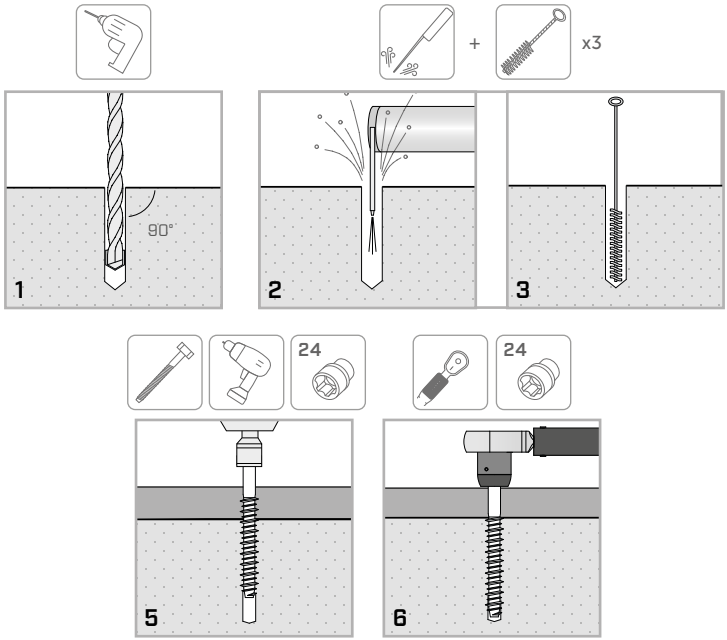


## CONCRETE



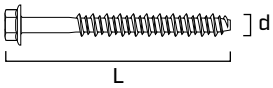


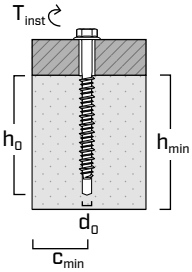





SKR 16 x 130 mm

SKR
ETA-18/0279
ETA-19/0100



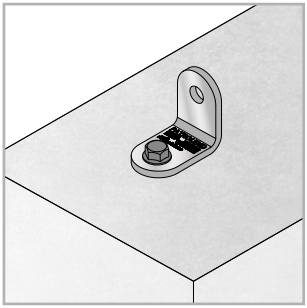




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| d | = | 16 | mm | $d_0$ | = | 14 | mm |
| L | = | 130 | mm | $h_1$ | = | 140 | mm |
| $T_{inst}$ | = | 160 | Nm | $h_{min}$ | ≥ | 170 | mm |
| | | | | $c_{min}$ | ≥ | 80 | mm |

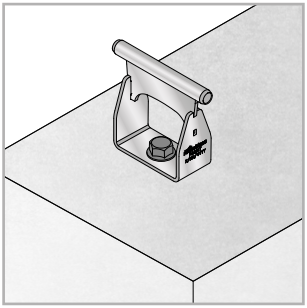
## CONCRETE



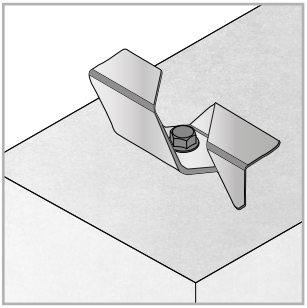

PATROLEND



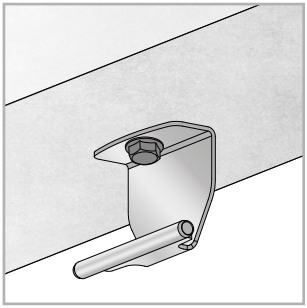
PASINT



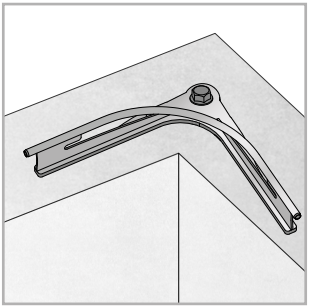
PATROLINT



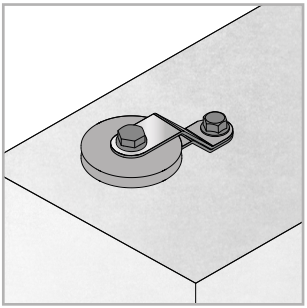
OHINT



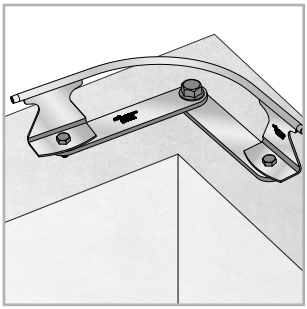
PASANG



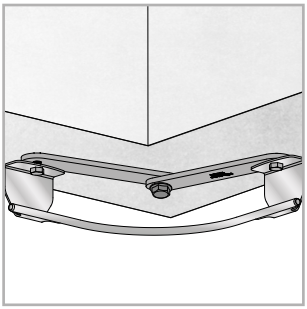
PATROLANG



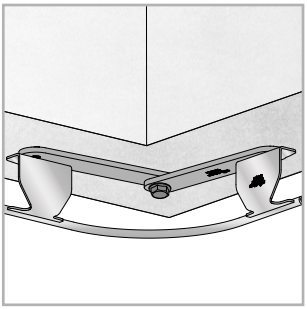
PASANGBEND + ANGSUP



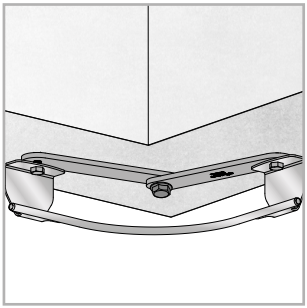
OHANGINT + ANGSUP



OHANGEXT + ANGSUP



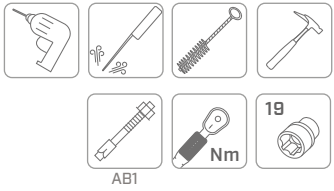
OHANGBEND + ANGSUP

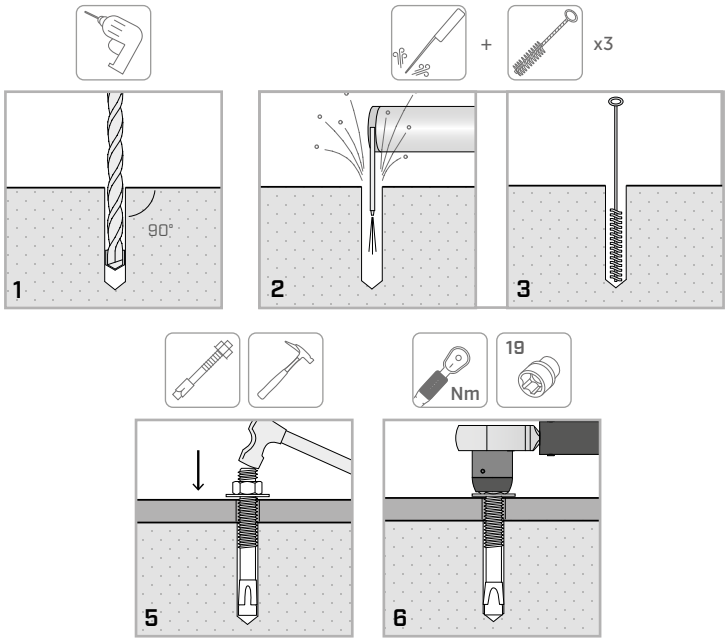


## CONCRETE



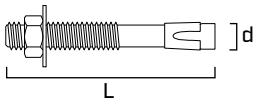
C20/C25

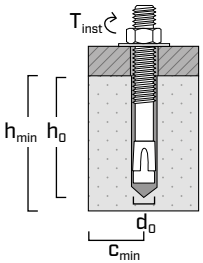



AB1 A4 12 x 118 mm

AB1 A4
ETA 10-0076



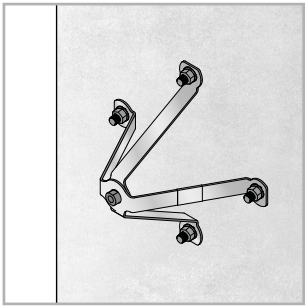

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| d | = | 12 | mm | $d_0$ | = | 12 | mm |
| L | = | 100 | mm | $h_1$ | ≥ | 85 | mm |
| $T_{inst}$ | = | 60 | Nm | $h_{min}$ | ≥ | 140 | mm |
| | | | | $c_{min}$ | ≥ | 70 | mm |

## CONCRETE

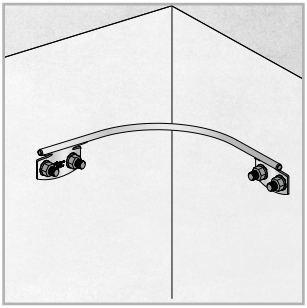
4 X M12



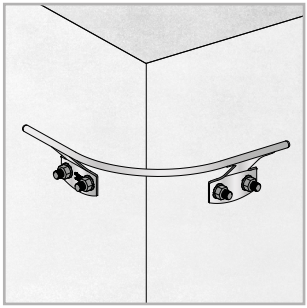

PAREND



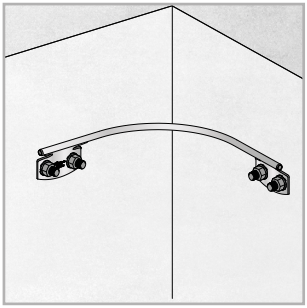
PARINBEND



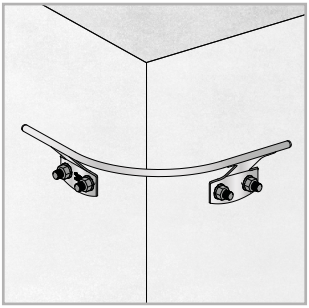
PAREXBEND



PARIN

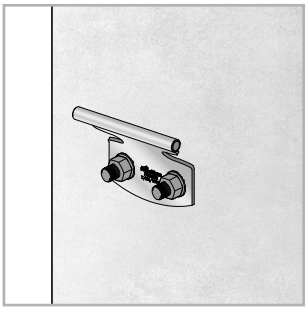


PAREX

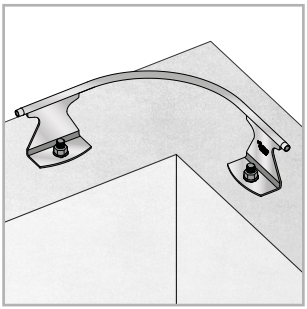


2 X M12

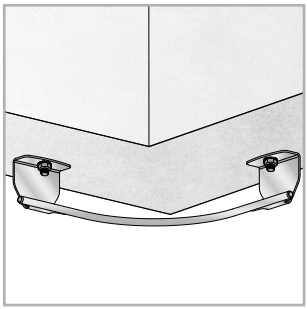
PARINTER



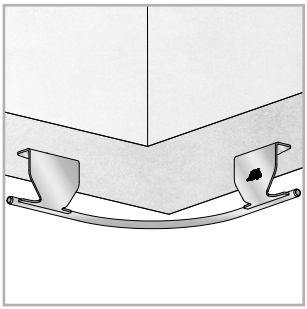
PASANGBEND



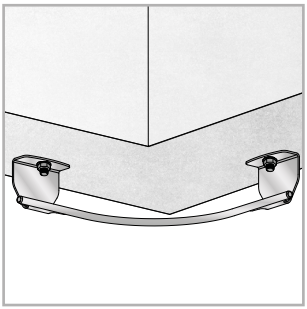
OHANGINT



OHANGEXT

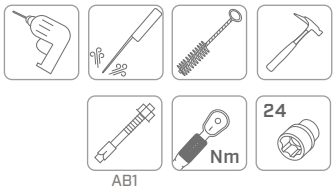


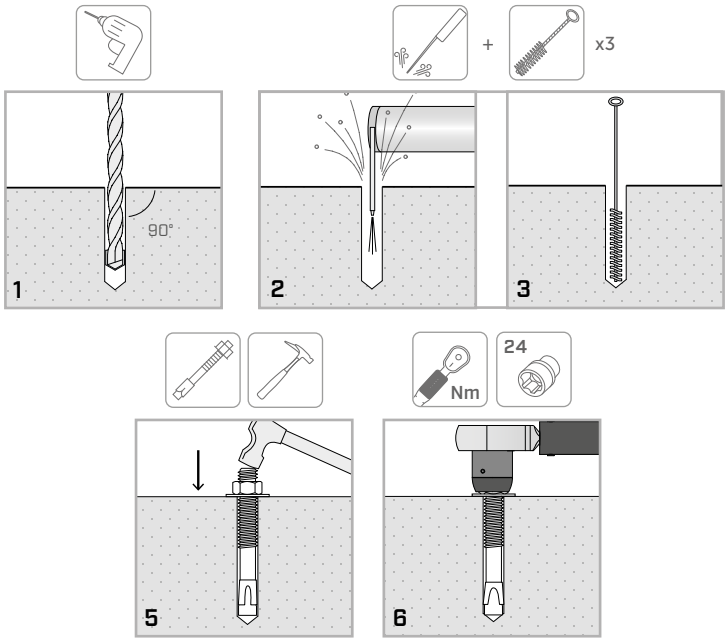
OHANGBEND



## CONCRETE

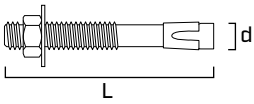


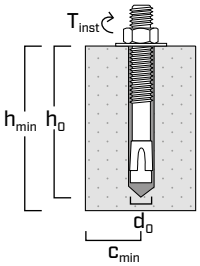




AB1 A4 16 x 138 mm



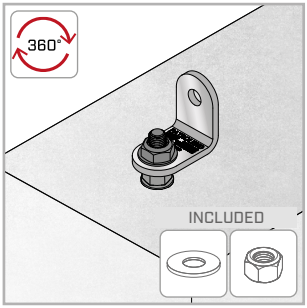




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| d | = | 16 | mm | $d_0$ | = | 16 | mm |
| L | = | 145 | mm | $h_1$ | ≥ | 105 | mm |
| $T_{inst}$ | = | 100 | Nm | $h_{min}$ | ≥ | 170 | mm |
| | | | | $c_{min}$ | ≥ | 85 | mm |

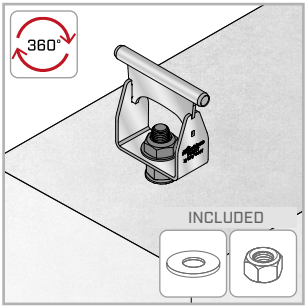
## CONCRETE

24

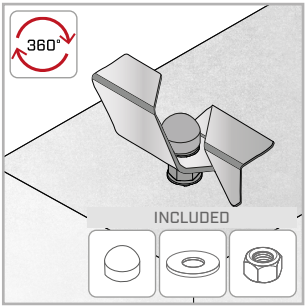
PATROLEND



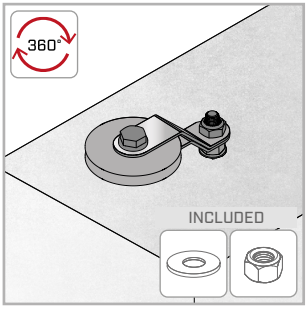

PASINT



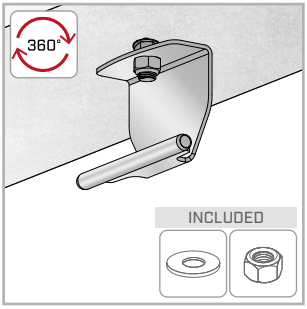

PATROLINT



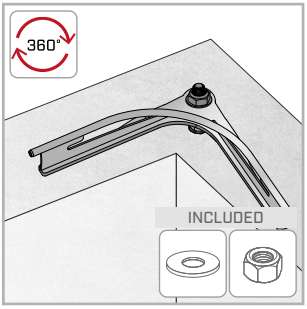

PATROLANG



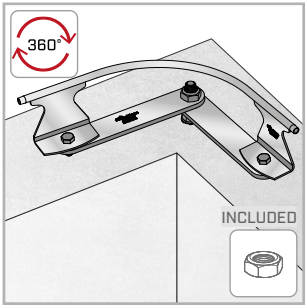

OHINT



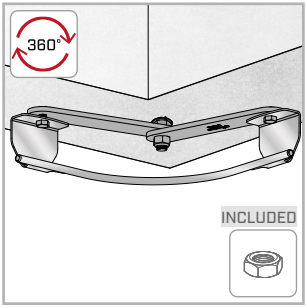

PASANG



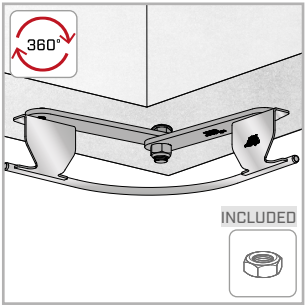

PASANGBEND + ANGSUP




OHAGINT + ANGSUP



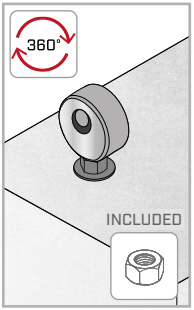

OHANGEXT + ANGSUP

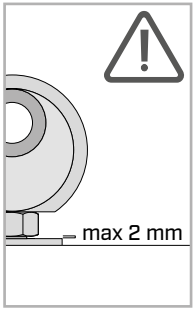


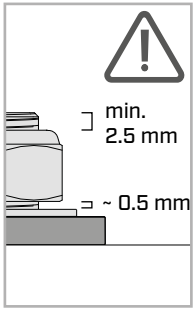

OHANGBEND + ANGSUP




PATROLMED



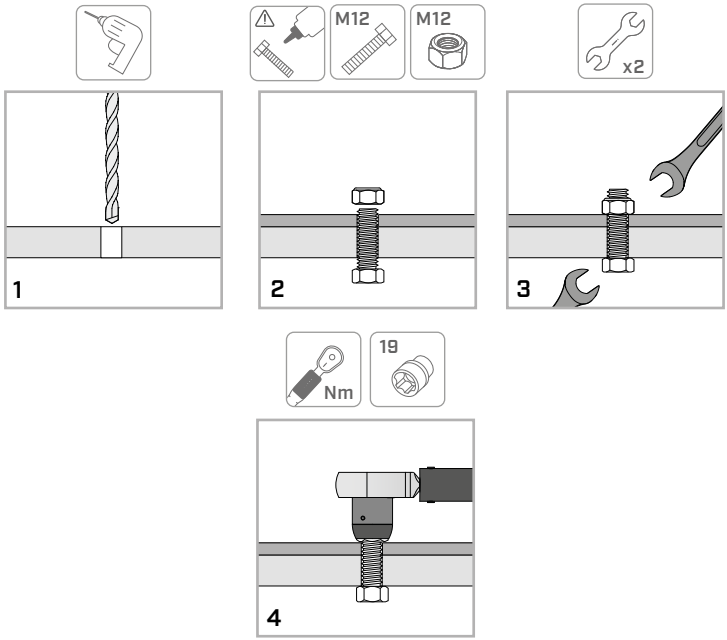



## STEEL

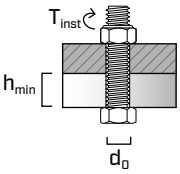


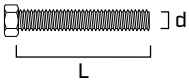







M12 - A2-70



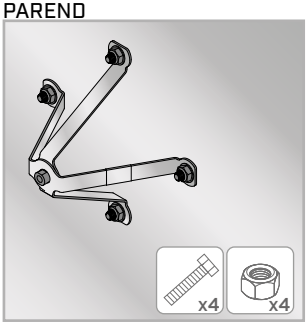




| | | | | | |
|---|---|---|---|---|---|
| d | = | 12 mm | $d_0$ | = | 12,5 mm |
| L | ≥ | $h_{min}$+25 mm | $h_{min}$ | ≥ | 5 mm |
| A2-70 | ▶ | $T_{inst}$ = 30 Nm | | | |

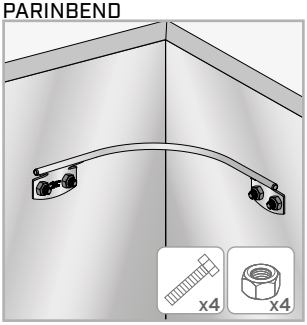
## STEEL

4 X M12

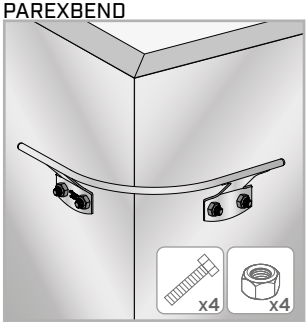
PAREND



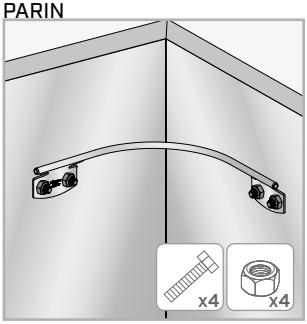

PARINBEND



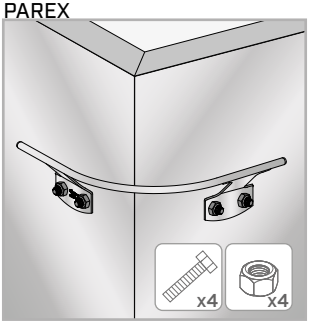

PAREXBEND




PARIN

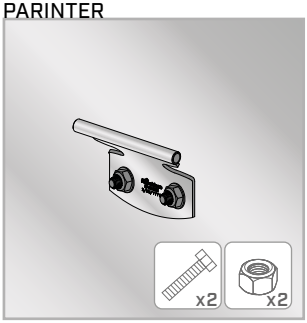



PAREX

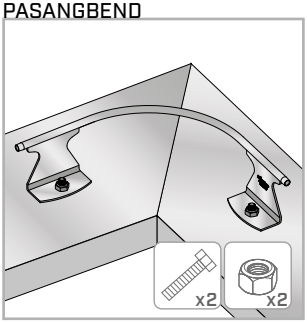



2 X M12

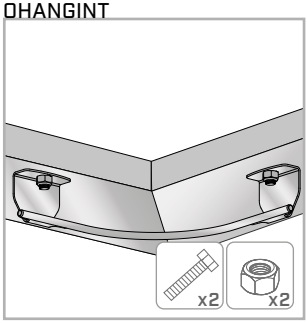
PARINTER



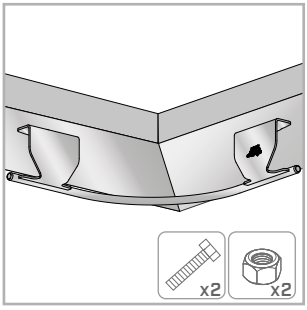

PASANGBEND



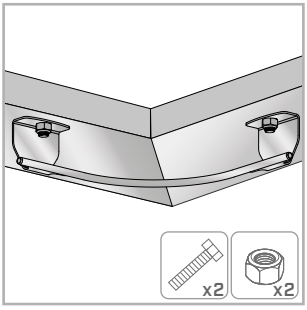

OHANGINT




OHANGEXT




OHANGBEND

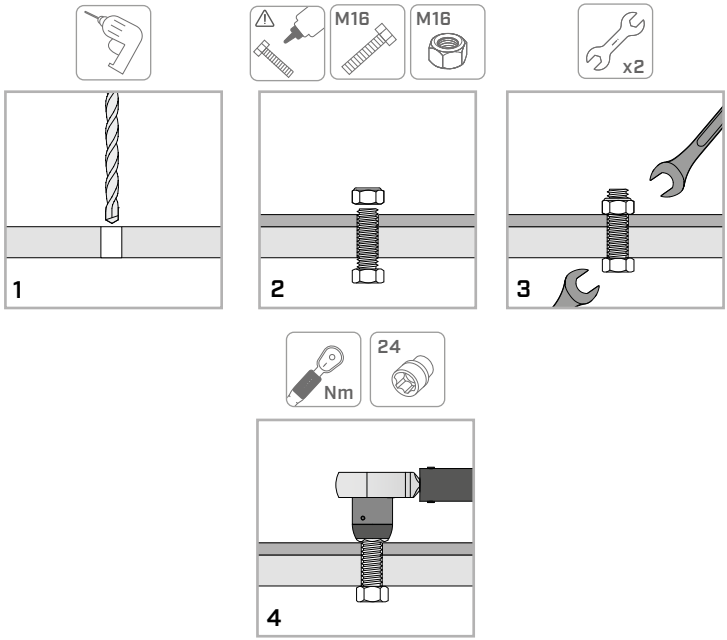


## STEEL

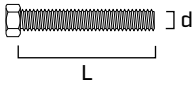


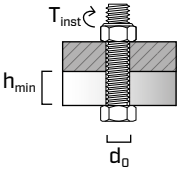







M16 - A2-70




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| d | = | 16 | mm | $d_0$ | = | 16,5 | mm |
| L | ≥ | $h_{min}$+45 | mm | $h_{min}$ | ≥ | 5 | mm |

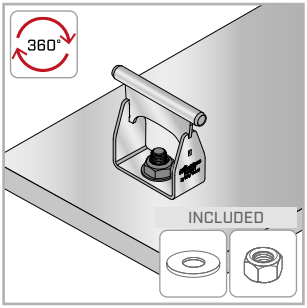
## STEEL

24

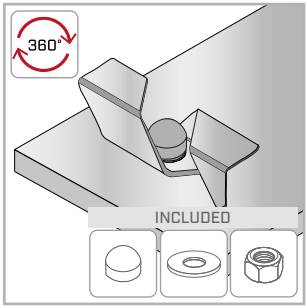
PATROLEND



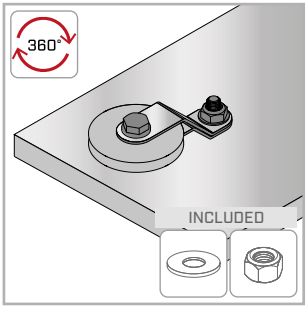

PASINT



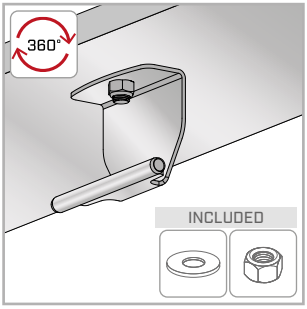

PATROLINT



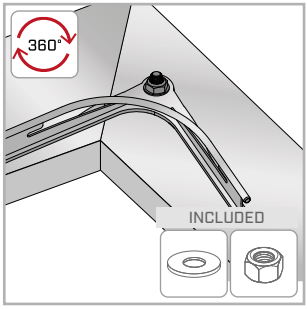

PATROLANG



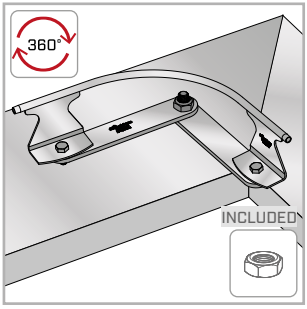

OHINT



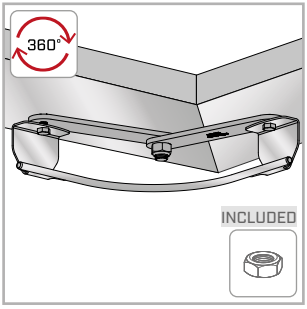

PASANG



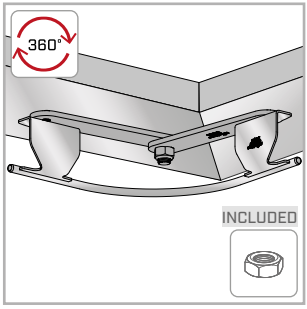

PASANGBEND + ANGSUP



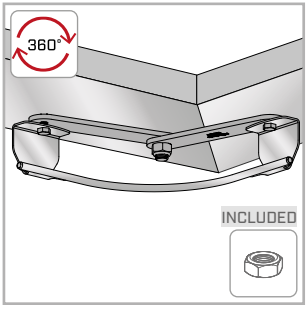

OHAGINT + ANGSUP



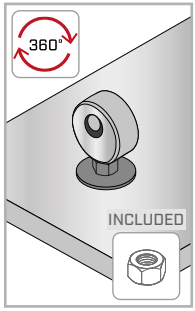

OHANGEXT + ANGSUP

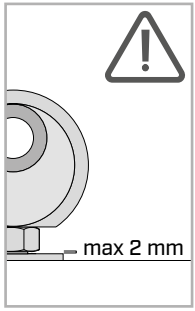


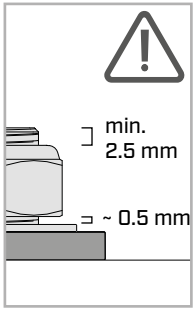

OHANGBEND + ANGSUP




PATROLMED

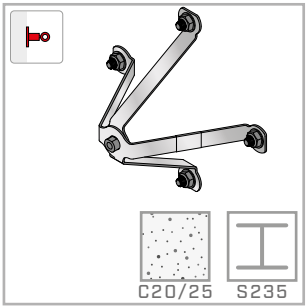


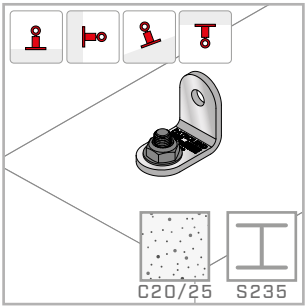



## TERMINAL SUPPORTS INSTALLATION

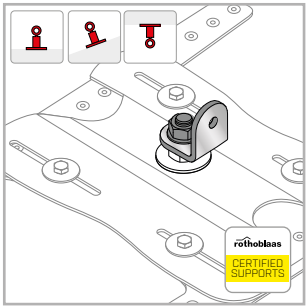
PAREND



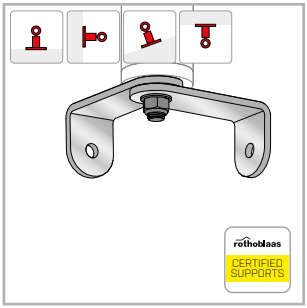

PATROLEND




PATROLTERM

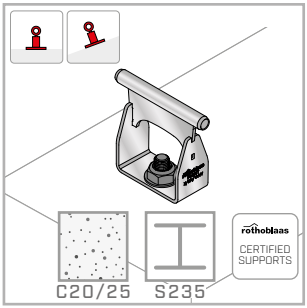



PATROLTERML

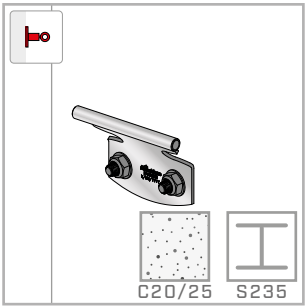



## INTERMEDIATE SUPPORTS INSTALLATION

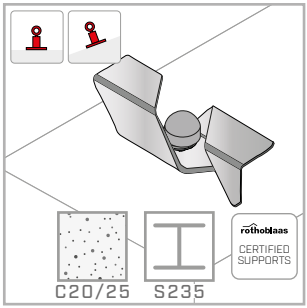
PASINT



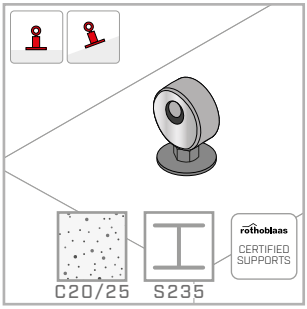

PARINTER



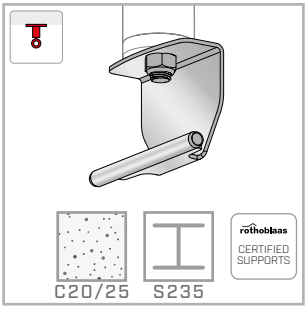

PATROLINT




PATROLMED

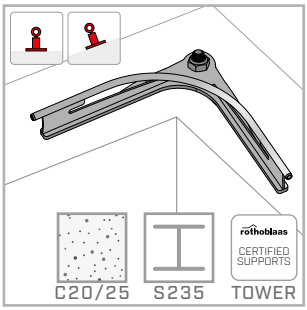



OHINT

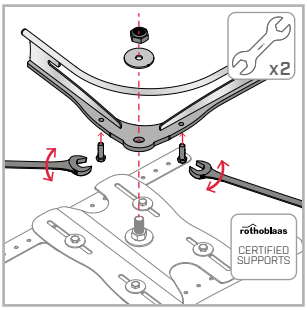


## CORNER SUPPORTS INSTALLATION

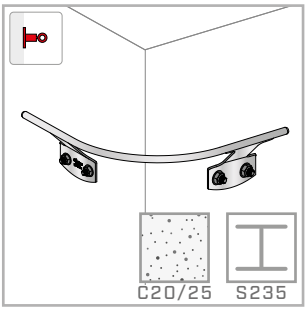
PASANG



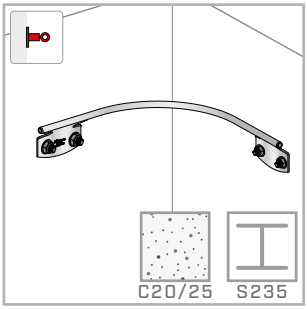

PASANG + SHIELD



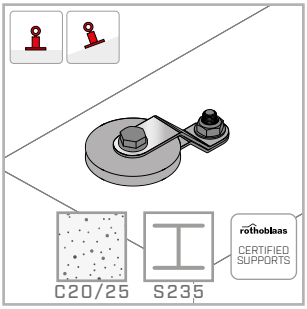

PARIN




PAREX

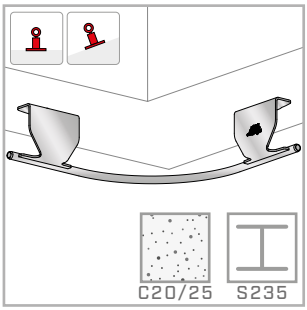



PAREX

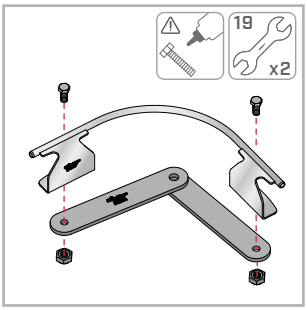


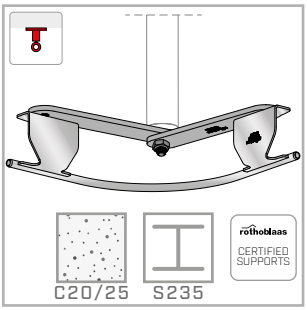

## CORNER INSTALLATION

OHANGEXT/OHANGBEND

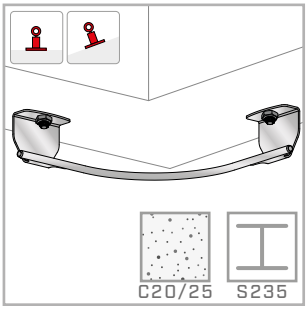



OHANGEXT/OHANGBEND + ANGSUP

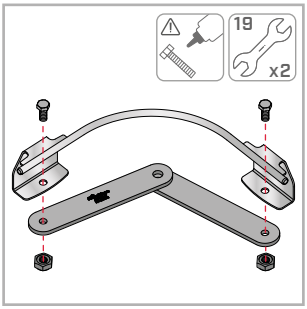


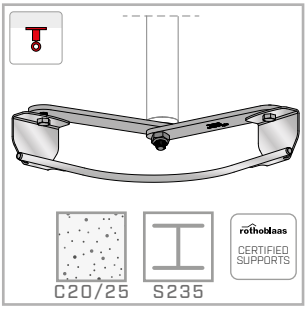




OHANGINT/OHANGBEND



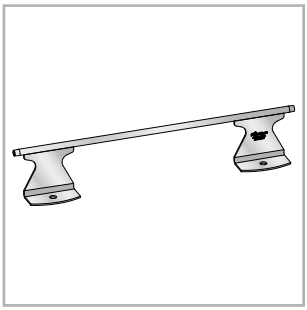

OHANGINT/OHANGBEND + ANGSUP



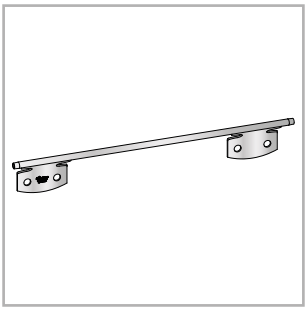



## ADJUSTABLE CORNER SUPPORT INSTALLATION

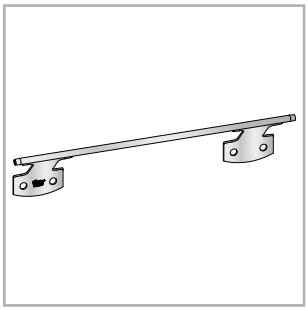
PASANGBEND



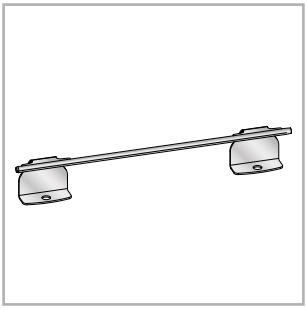
PAREXBEND



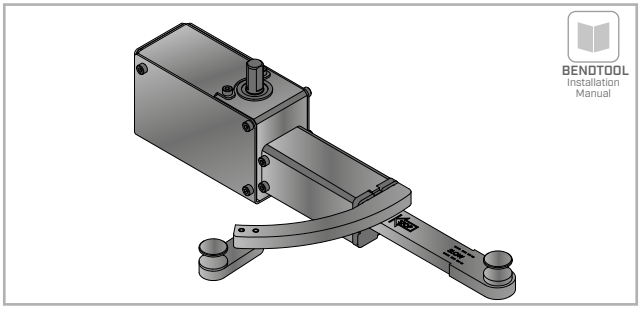
PARINBEND

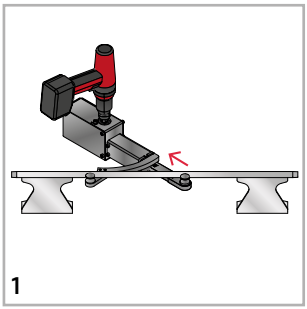


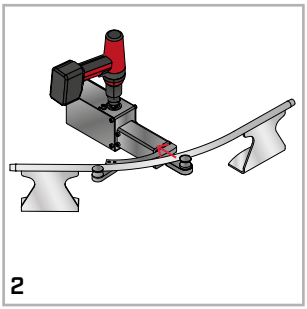
OHANGBEND

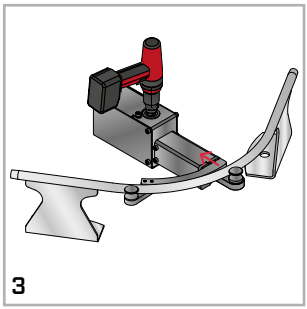


BENDTOOL



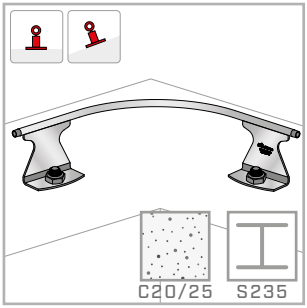



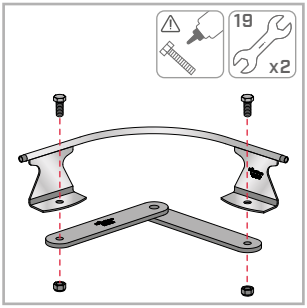



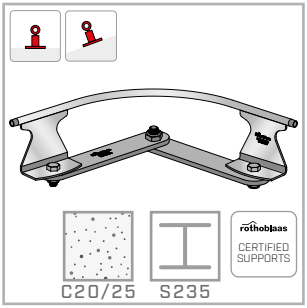
## ADJUSTABLE CORNER SUPPORT INSTALLATION

PASANGBEND

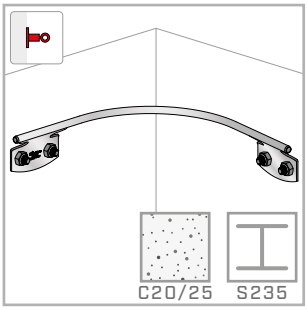



PASANGBEND + ANGSUP

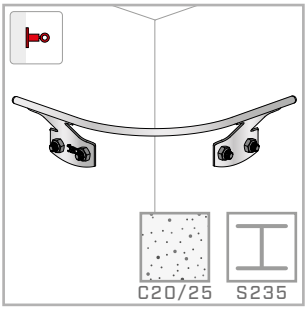


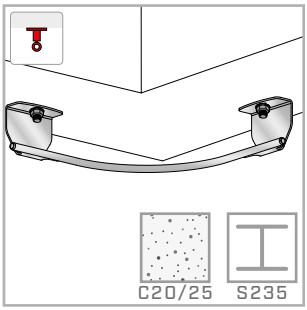

PARINBEND



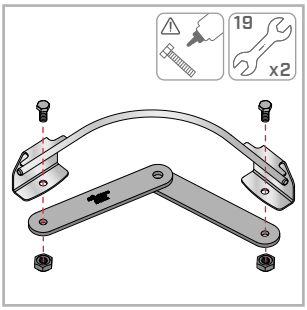

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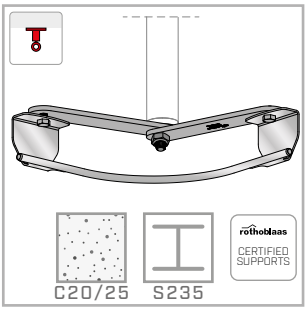



OHANGBEND



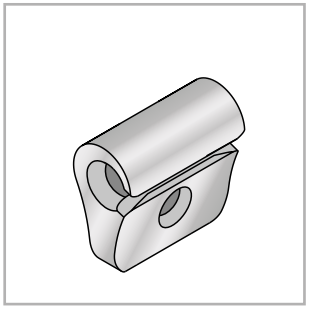

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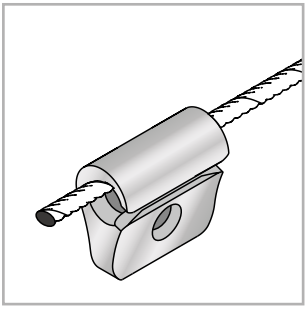


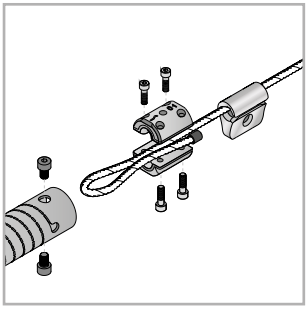



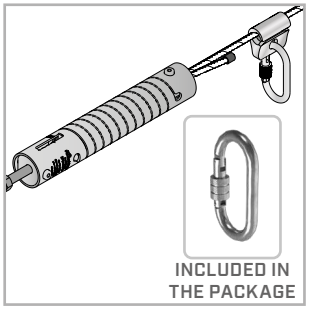
## SLIDE 2 INSTALLATION

SLIDE - SLIDE2 - OHSLIDE
Installation
Manual



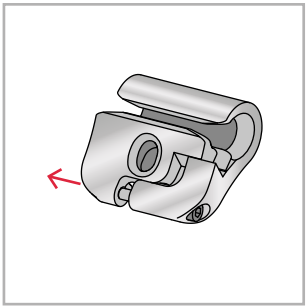


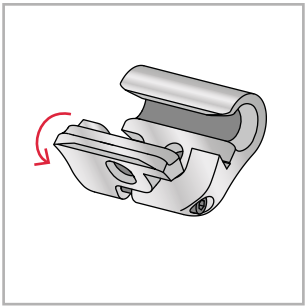


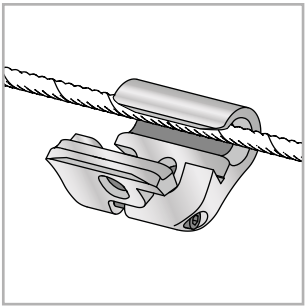


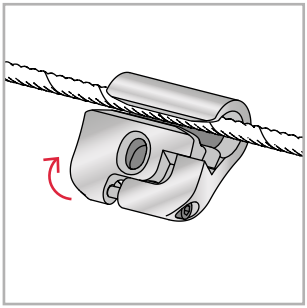

## SLIDE 1 INSTALLATION

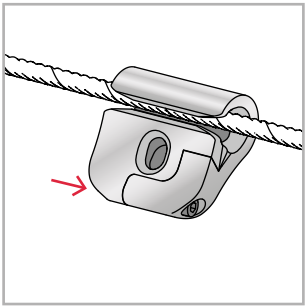
SLIDE - SLIDE2 - OHSLIDE
Installation
Manual

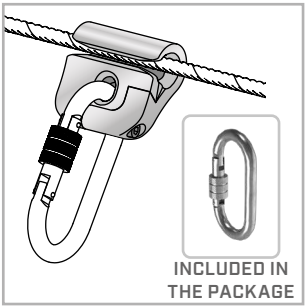






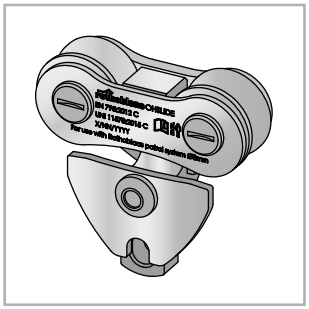


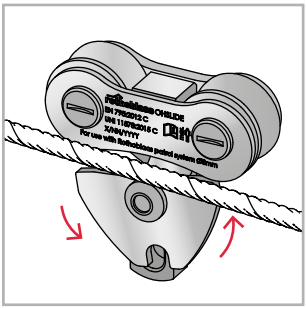


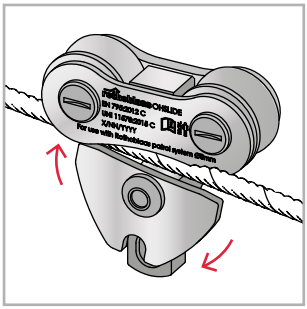


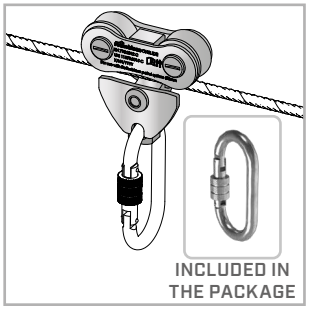
## OHSLIDE INSTALLATION





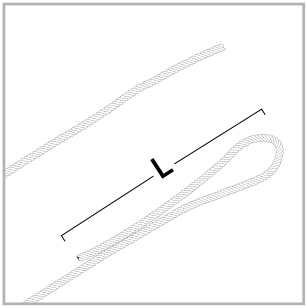




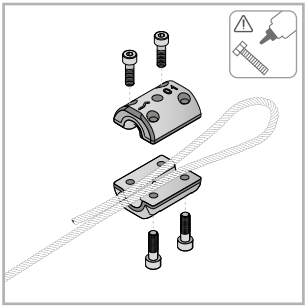


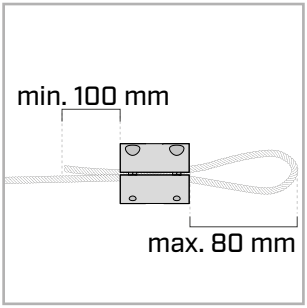
INCLUDED IN
THE PACKAGE

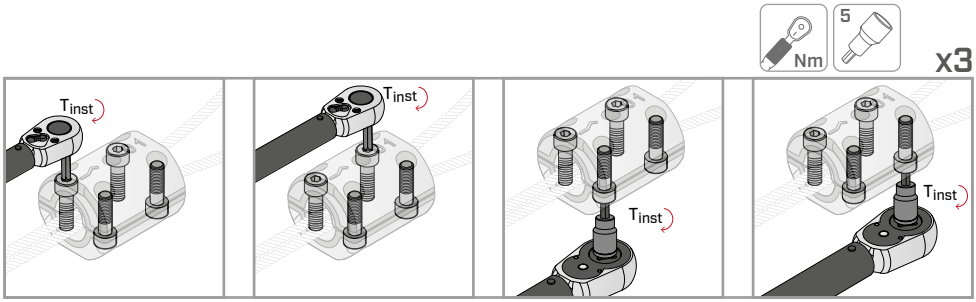
## SPEAREVO INSTALLATION



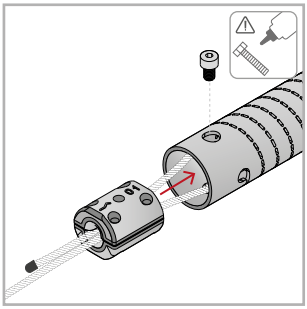

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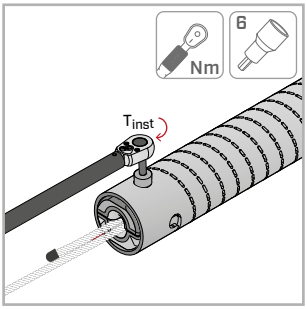




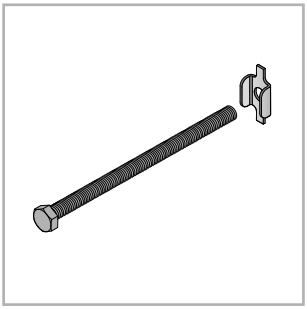



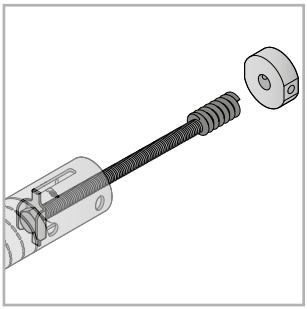

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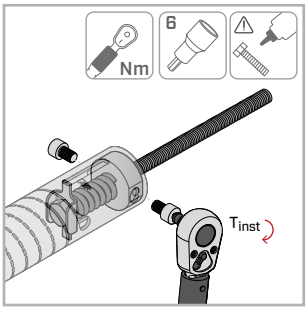




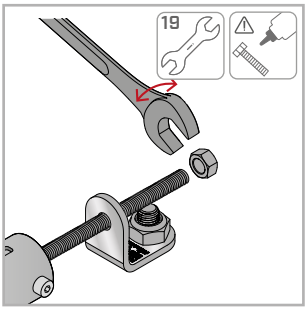

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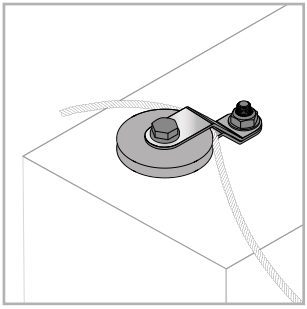
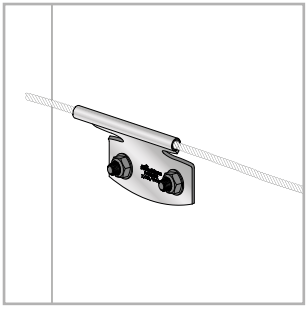
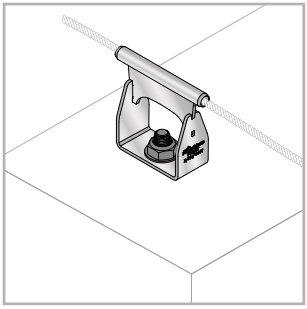
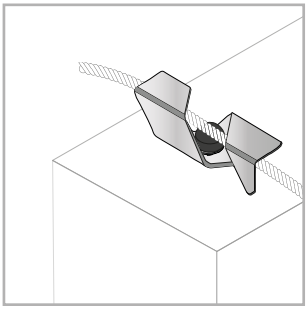
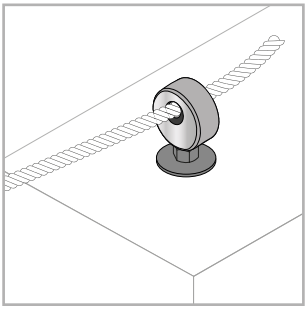
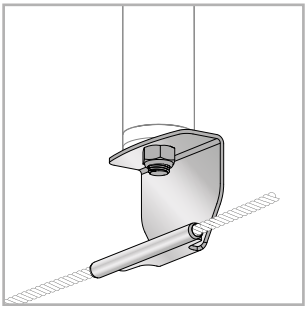
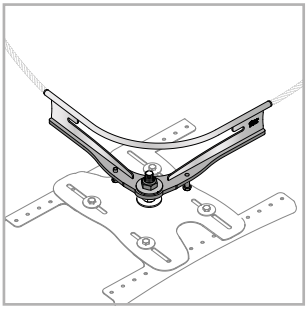


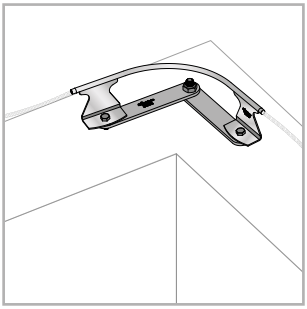
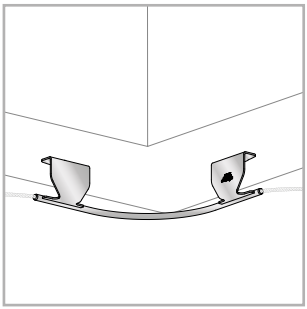
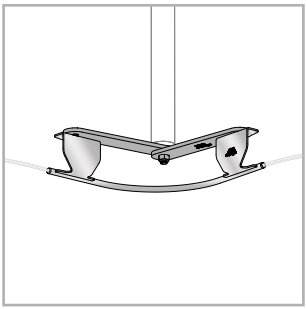
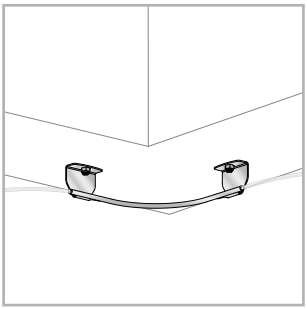



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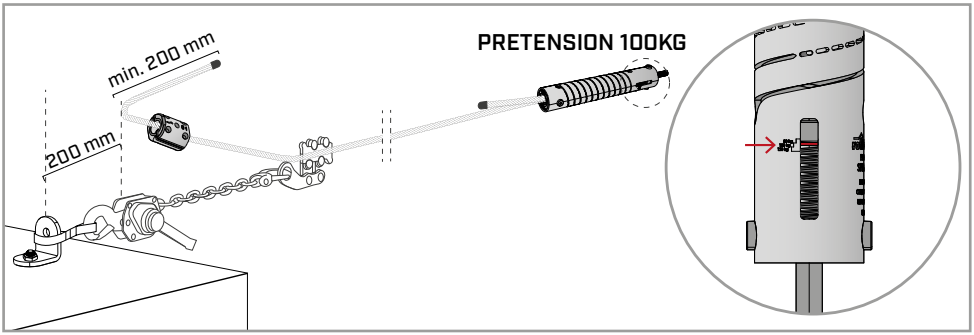


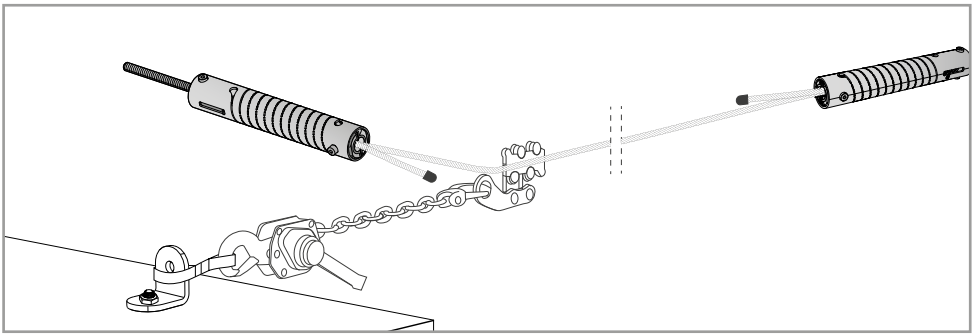
## CABLE INSTALLATION

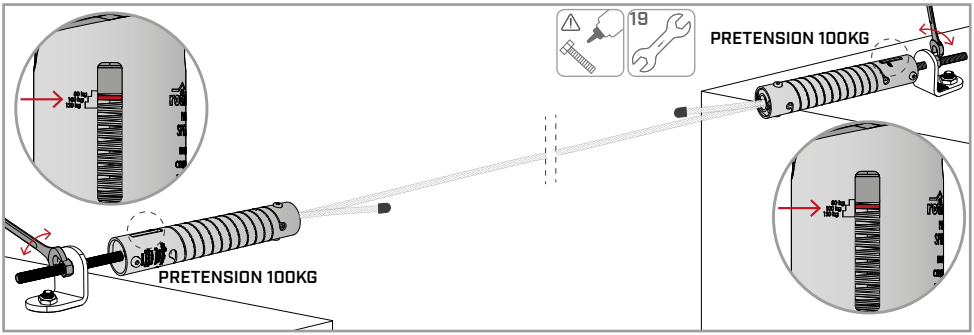








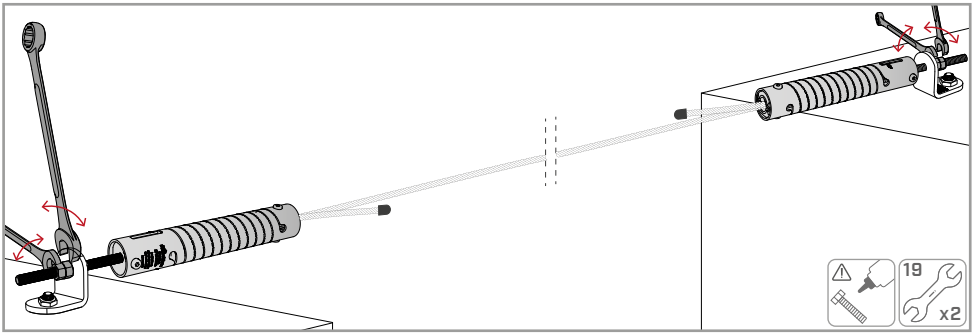





## SPEAREVO INSTALLATION








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07-26

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