

VERTIGRIP

INSTALLATION MANUAL



CLT



S235



C20/25



CE



EN
353-1:2014
+ A1:2017
RfU 11.119

⚠ read also:



VERTIGRIP
Installation
Manual

+



VERTIGRIP
Safety
Regulations

+



VERTSLIDE
Safety
Regulations

=



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 INSTALLATIONS-HANDBUCH** und die **2 SICHERHEITSVORSCHRIFTEN** in der Sprache des Verwendungslandes gelesen und verstanden hat.
- EN** Only qualified personnel may install and/or use this Rotho Blaas product, after reading and understanding the **1 INSTALLATION MANUAL** and the **2 SAFETY REGULATIONS**, in the language of the country of use.
- ES** La instalación y/o el uso del producto Rotho Blaas solo están permitidos al personal experto después de haber leído y comprendido el **1 MANUAL DE INSTALACIÓN** y las **2 NORMAS DE SEGURIDAD** en el idioma del país en el que se utiliza.
- FR** Seul le personnel expérimenté peut installer et/ou utiliser ce produit Rotho Blaas, après avoir lu et compris le **1 MANUEL D'INSTALLATION** et les **2 NORMES DE SÉCURITÉ** dans la langue du pays où le produit est utilisé.
- PT** A instalação e/ou utilização do produto RothoBlaas só é permitida a pessoal especializado após a leitura e compreensão do **1 INFORMAÇÕES NECESSÁRIAS** e das **2 NORMAS DE SEGURANÇA** na língua do respetivo país onde será utilizado.
- RU** К установке и (или) использованию продукции Rotho Blaas допускается только высококвалифицированный персонал после обязательного прочтения и усвоения **1 РУКОВОДСТВО ПО УСТАНОВКЕ** и **2 ПРАВИЛ ТЕХНИКИ БЕЗОПАСНОСТИ** на языке соответствующей страны использования.
- CS** Instalace a/nebo použití výrobku Rotho Blaas je povoleno pouze odborným osobám po přečtení a pochopení **1 NÁVODU K INSTALACI** a **2 BEZPEČNOSTNÍCH PŘEDPISŮ** v jazyce příslušné země použití.
- DA** Kun kvalificeret personale må installere og/eller bruge dette Rotho Blaas-produkt efter at have læst og forstået den **1 INSTALLATIONSMANUALEN** og **2 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 OHUTUSESKIRJU** 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.



+



SAFETY INSTRUCTIONS

- HU** A Rotho Blaas termékét kizárólag hozzáértő személyzet szerelheti be és/vagy hasznáhatja, az adott országnak megfelelő nyelvű **1 TELEPÍTÉSI KÉZIKÖNYV** és **2 BIZTONSÁGI SZABÁLYOK** elolvasása és megértése után.
- IS** Aðeins þjálfað starfsfólk má setja upp og/eða nota þessa Rotho Blaas-vöru eftir að hafa lesið og skilið **1 UPPSETNINGARHANDBÓKAR** og **2 REGLUGERÐIR UM ÖRYGGI** á tungumáli þess lands sem varan er notuð í.
- LT** Produktą „Rotho Blaas“ montuoti ir (arba) naudoti leidžiama tik patyrusiame personalui, prieš tai perskaicius ir supratęs **1 MONTAVIMO VADOVE** ir **2 SAUGOS TAISYKLES** atitinkamos šalies, kurioje eksploatuojama, kalba.
- LV** Rotho Blaas produkta uzstādīšana un/vai lietošana ir atļauta tikai pieredzējušam darbiniekam pēc **1 UZSTĀDĪŠANAS ROKASGRĀMATĀ** un **2 DROŠĪBAS NOTEIKUMU** izlasīšanas un izpratnes attiecīgās valsts valodā, kurā produkts tiks lietots.
- NL** De installatie en/of het gebruik van het product Rotho Blaas is voorbehouden aan uitsluitend vakbekwaam personeel dat de **1 INSTALLATIEHANDLEIDING** en de **2 VEILIGHEIDSVOORSCHRIFTEN** in de taal van het land van gebruik gelezen en begrepen heeft.
- NO** Dette Rotho Blaas-produktet skal bare installeres og/eller brukes av kvalifisert personell som har lest og forstått **1 INSTALLASJONSHÅNDBOKEN** og **2 SIKKERHETSFORSKRIFTENE**, på det språket som brukes i landet produktet anvendes.
- PL** Instalacji i/lub użytkowania produktu Rotho Blaas może dokonać wyłącznie doświadczony personel, który przeczytał i zrozumiał **1 MANUAL DE INSTALAÇÃO** oraz **2 NORMY BEZPIECZEŃSTWA** w języku kraju użytkowania.
- RO** Instalarea și/sau utilizarea produsului Rotho Blaas este permisă numai personalului expert, după ce a citit și înțeles **1 MANUALUL DE INSTALARE** și **2 NORMELE DE SIGURANȚĂ** în limba țării de utilizare a produsului.
- SK** Inštalácia a/alebo používanie produktu Rotho Blaas je povolené len skúsenému personálu po predchádzajúcom prečítaní a pochopení **1 NÁVODE NA INŠTALÁCIU** a **2 BEZPEČNOSTNÝCH NORIEM** v jazyku príslušnej krajiny používania.
- SL** Ta proizvod Rotho Blaas lahko namesti in/ali uporablja samo izkušeno osebe, ki je prebralo in razume vse **1 NAVODILIH ZA VGRADNJO** in **2 VARNOSTNE PREDPISE** v jeziku države njegove uporabe.
- SV** Endast erfaren personal får installera och/eller använda den här Rotho Blaas-produkten efter att **1 INSTALLATIONSANVISNINGARNA** och **2 SÄKERHETSFÖRESKRIFTER** har lästs igenom på språket i installationslandet.
- TR** Sadece yetkili personel, **1 KURULUM KILAVUZUNDA** ve **2 GÜVENLİK MEVZUATINI** (2) ürünün kullanıldığı ülke dilinde okuyup anladıktan sonra Rotho Blaas ürününü kurabilir ve/veya kullanabilir.
- JA** Rotho Blaas製品の施工および使用は、資格を有する専門家のみに許可されています。施工および使用の前に、必ず使用する国の言語で**1**設置マニュアルと**2**安全規則をお読み下さい。
- ZH** 只有具备合格资质的人员在阅读并理解以使用国的语言编写的**1**安装手册和**2**安全规程后才能安装和/或使用该Rotho Blaas产品。

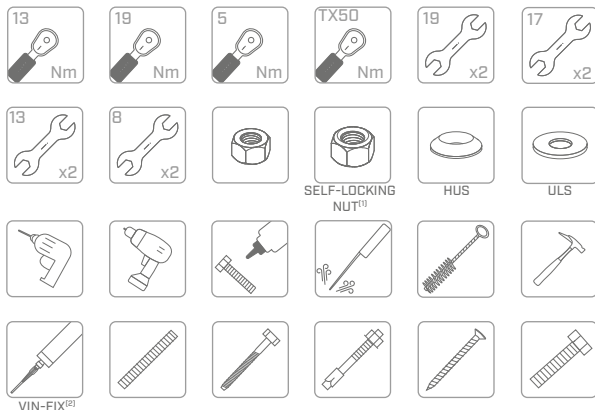
AR يمكن فقط للخبين المؤهلين باستخدام أو تركيب منتج Rotho Blaas بعد قراءة وفهم دليل التثبيت **1** نظراً **2** السلامة **2** بلغة البلد المستخدم فيها المنتج



+



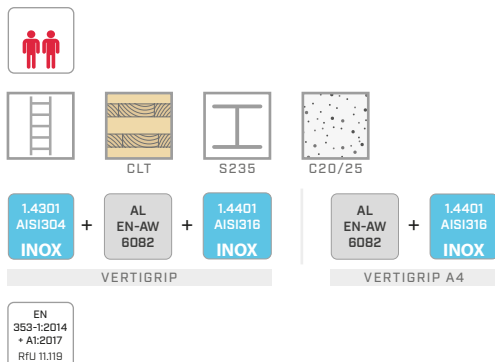
TOOLS



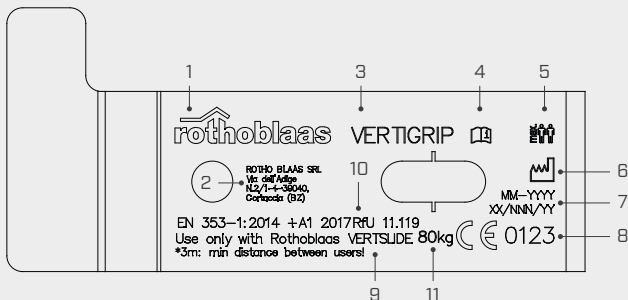
⁽¹⁾ SELF LOCKING NUT (FOLLOW ITS MAINTENANCE MANUAL)

⁽²⁾ ROTHBLAAS VINY LESTER CHEMICAL ANCHOR WITHOUT STYRENE

PRODUCT INFORMATION

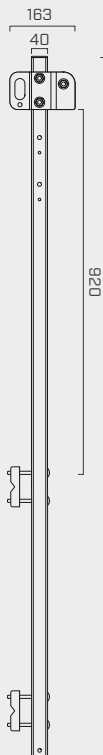


■ INFORMATION



- 1 Name and logo of the manufacturer
- 2 Address of the manufacturer
- 3 Type designation
- 4 Sign that the user instructions must be followed
- 5 Maximum number of users to be fastened
- 6 Month and year of manufacture
- 7 Serial number
- 8 CE-Conformity designation
- 9 Reference to the guided type fall arresters which must be used and the minimum distance between users
- 10 Number of the applicable norm
- 11 Recommended pre-tension

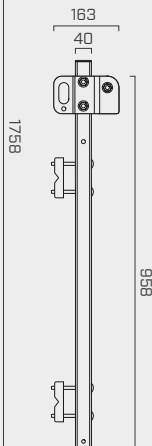
BASE ELEMENTS AND DIMENSIONS



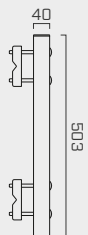
VERTOP17
VERTOP17A4



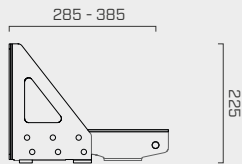
CABLE



VERTOP09
VERTOP09A4



VERTBASE
VERTBASEA4



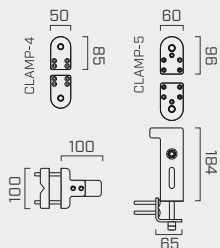
VERTOPW
VERTOPWA4



VERTINTW
VERTINTWA4



VERTBASEW
VERTBASEWA4



VERTINT
VERTINTA4

VERTSPEAR
VERTSPEARA4

IT ⚠ Verificare idoneità statica del sottofondo di montaggio!

DE ⚠ Die statische Eignung des Montageuntergrundes sicherstellen!

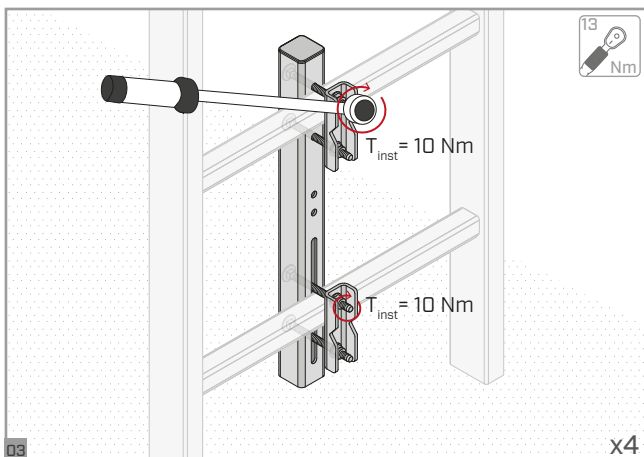
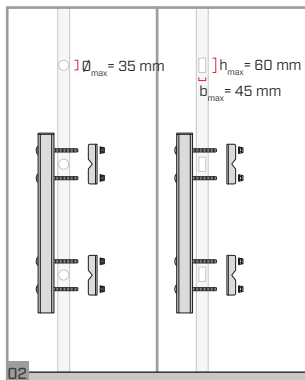
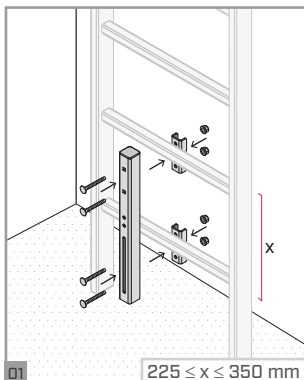
EN ⚠ Check the static suitability of the installation substrate!

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

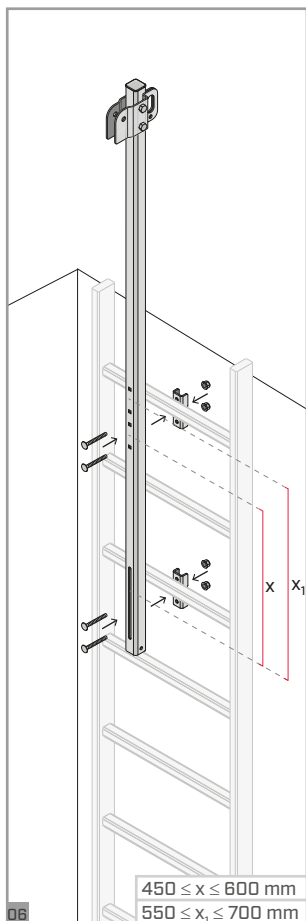
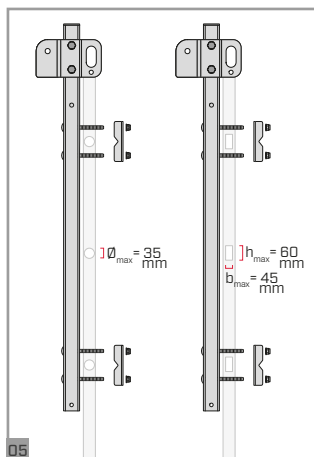
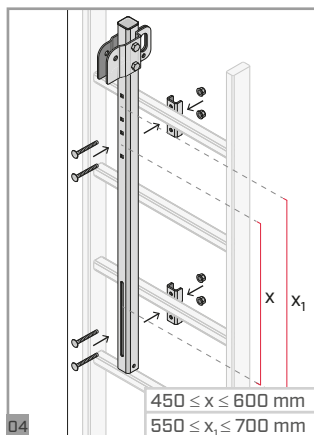
FR ⚠ Vérifier l'adéquation statique du substrat d'assemblage!

VERTIGRIP ON LADDER

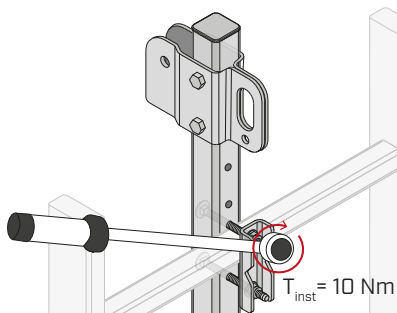
VERTBASE APPLICATION INSTRUCTIONS



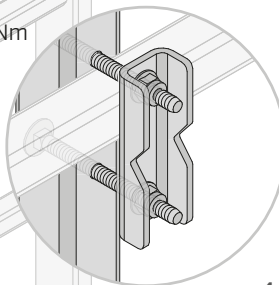
VERTOP09-VERTOP17 APPLICATION INSTRUCTIONS



VERTOP09-VERTOP17 APPLICATION INSTRUCTIONS

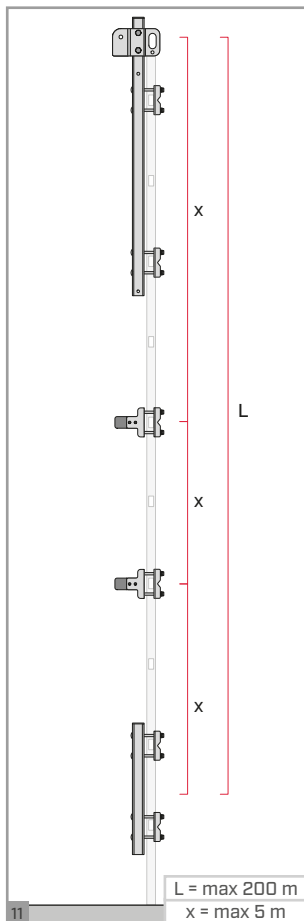
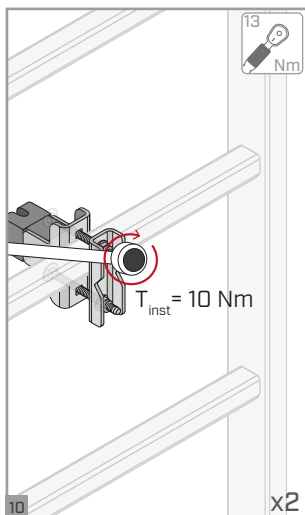
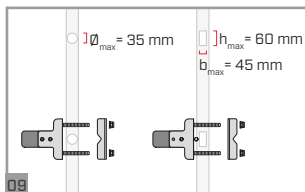
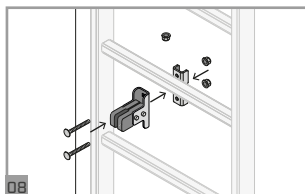


$T_{inst} = 10 \text{ Nm}$



x4

VERTINT APPLICATION INSTRUCTIONS



VERTIGRIP ON WALL APPLICATION WOOD - STEEL - CONCRETE



CLT

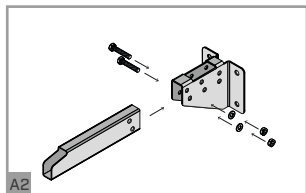
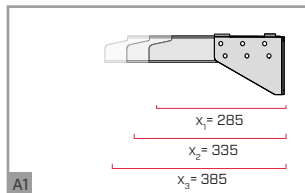


S235

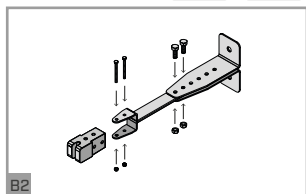
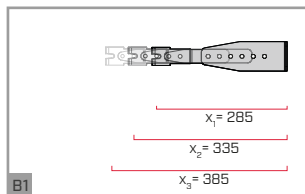


C20/25

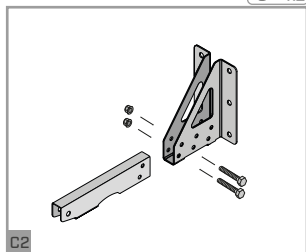
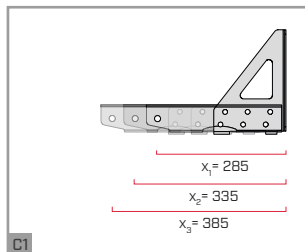
VERTBASEW APPLICATION INSTRUCTIONS



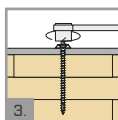
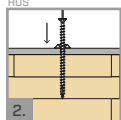
VERTINTW APPLICATION INSTRUCTIONS



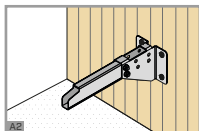
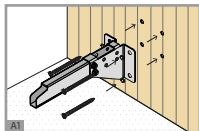
VERTOPW APPLICATION INSTRUCTIONS



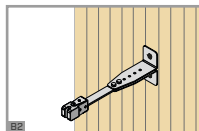
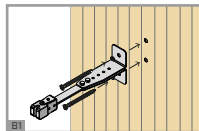
VERTIGRIP ON WALL APPLICATION WOOD



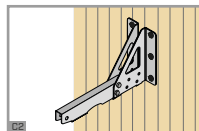
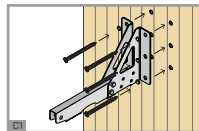
VERTBASE



VERTINT



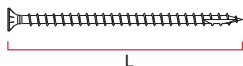
VERTOP



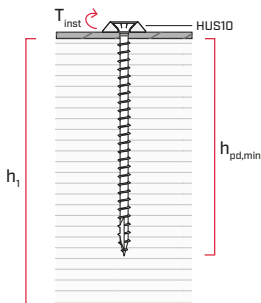
VGS 11 X L mm



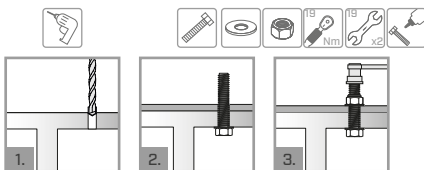
VGS



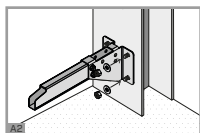
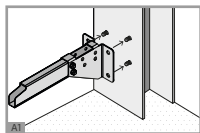
$h_1 \geq 100 \text{ mm}$	$h_{pd,min} \leq h_1$
$L \geq 100 \text{ mm}$	$h_{pd,min} \geq 83 \text{ mm}$
$L < 400 \text{ mm}$	$T_{inst} = 30 \text{ Nm}$
$L \geq 400 \text{ mm}$	$T_{inst} = 40 \text{ Nm}$
$d = 11 \text{ mm}$	



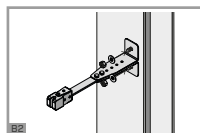
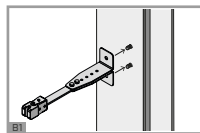
VERTIGRIP ON WALL APPLICATION STEEL



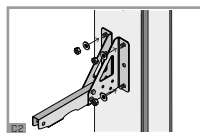
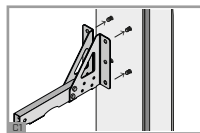
VERTBASE



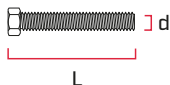
VERTINT



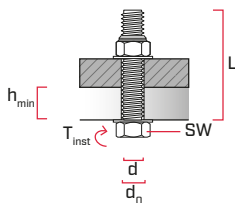
VERTOP



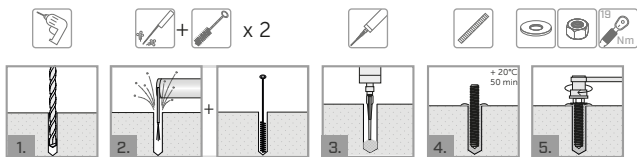
M12 - 8.8 min/A2



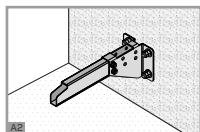
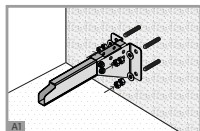
$d = 12 \text{ mm}$	$SW = 17 \text{ mm}$
$d_0 = 12,5 \text{ mm}$	$8.8 \rightarrow T_{inst} = 100 \text{ Nm}$
$L \geq 50 \text{ mm}$	$A2-A4 \rightarrow T_{inst} = 80 \text{ Nm}$
$L \geq h_{min} + 40 \text{ mm}$	
$h_{min} \geq 5 \text{ mm}$	



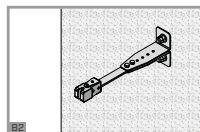
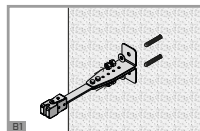
VERTIGRIP ON WALL APPLICATION CONCRETE



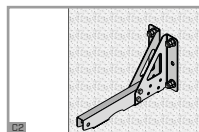
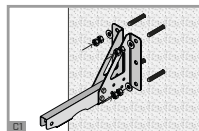
VERTIBASE



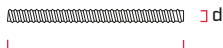
VERTINT



VERTOP



M12 - 8.8 min/A2



L

$$196 \leq h_{ef} \leq 240 \text{ mm}$$

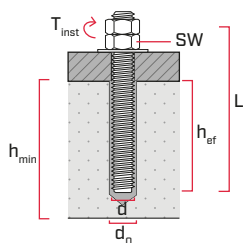
$$h_{min} \geq h_{ef} + 30 \text{ mm}$$

$$L \geq h_{ef} + 40 \text{ mm}$$

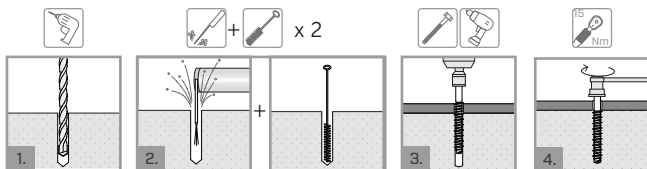
$$h_{min} \geq 126 \text{ mm} \quad \left| \quad SW = 19 \text{ mm} \right.$$

$$d_0 = 14 \text{ mm} \quad \left| \quad T_{inst} = 40 \text{ Nm} \right.$$

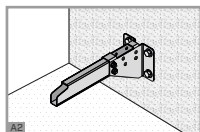
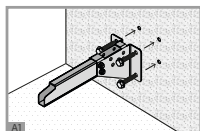
$$d = 12 \text{ mm}$$



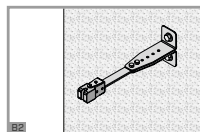
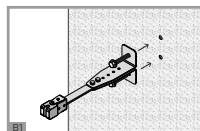
VERTIGRIP ON WALL APPLICATION CONCRETE



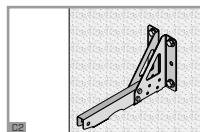
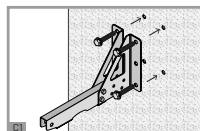
VERTIBASE



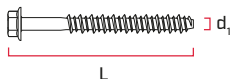
VERTINT



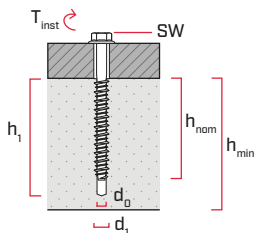
VERTOP



SKR CE 12 X 90 mm

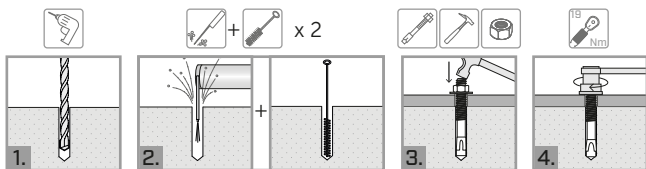


d_1	=	12 mm	h_{min}	≥	150 mm
L	≥	90 mm	d_0	=	10 mm
h_1	≥	100 mm	SW	=	15 mm
h_{nom}	≥	80 mm	T_{inst}	=	80 Nm

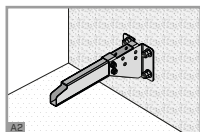
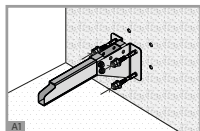


VERTIGRIP ON WALL APPLICATION CONCRETE

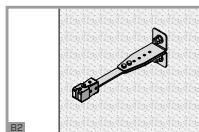
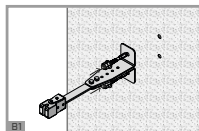
C20/25



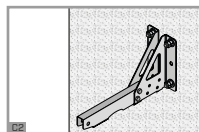
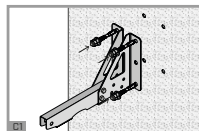
VERTIBASE



VERTINT



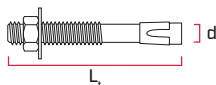
VERTOP



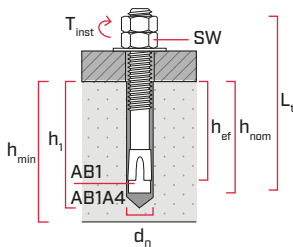
AB1



AB1



$d = d_0 = M12$	$h_{ef} = 70 \text{ mm}$
$L_t = 120 \text{ mm}$	$SW = 19 \text{ mm}$
$h_1 \geq 85 \text{ mm}$	$T_{inst} = 60 \text{ Nm}$
$h_{nom} = 80 \text{ mm}$	$h_{min} \geq 140 \text{ mm}$



VERTIGRIP ON WALL APPLICATION WOOD - STEEL - CONCRETE



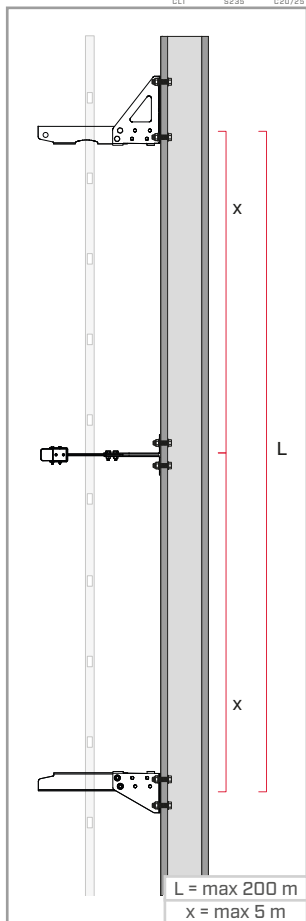
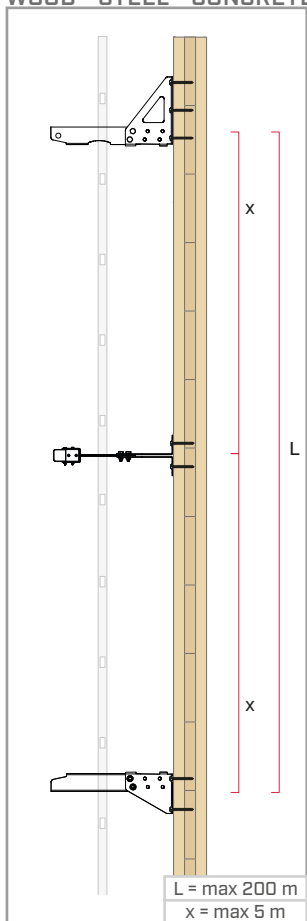
CLT

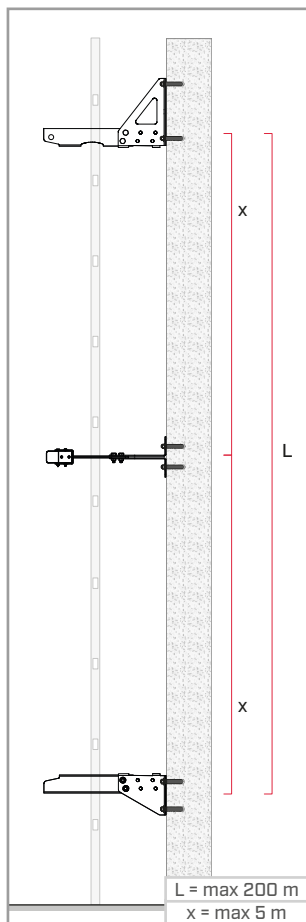


S235

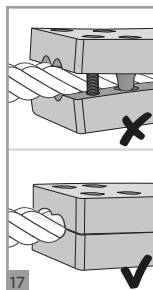
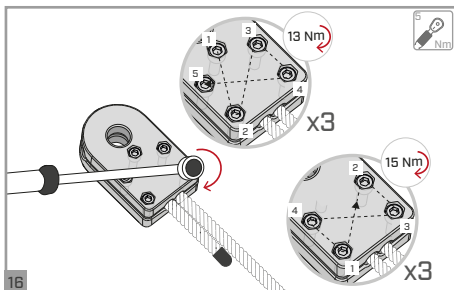
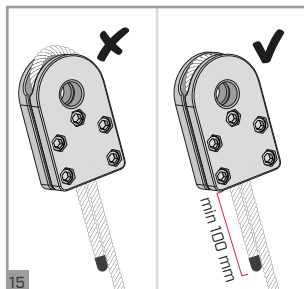
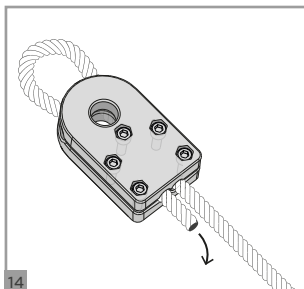
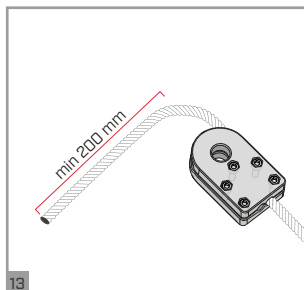
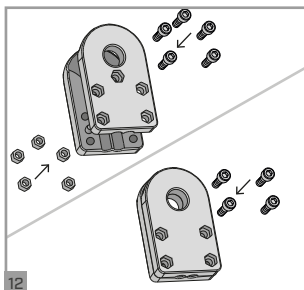


C20/25

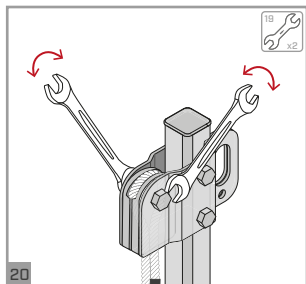
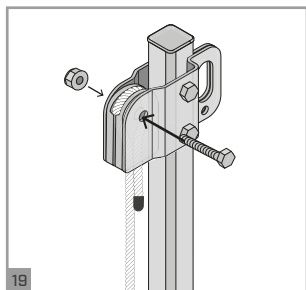
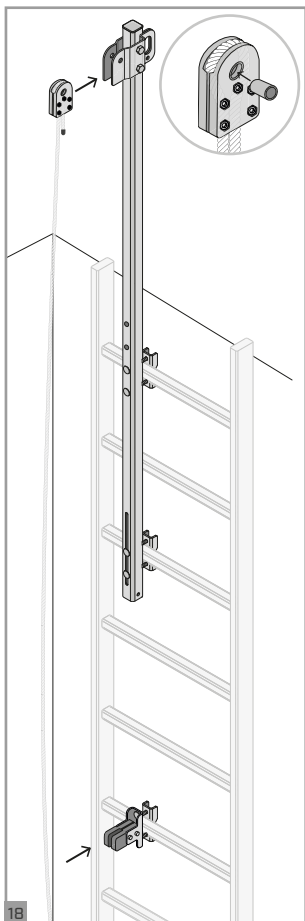




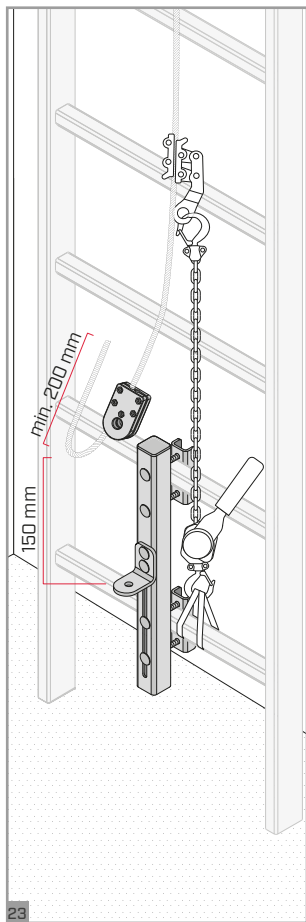
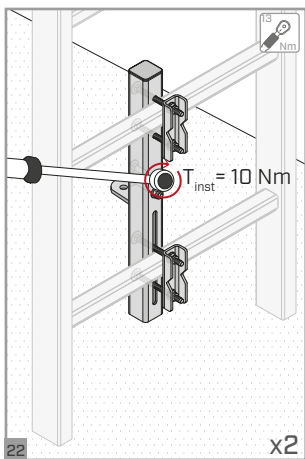
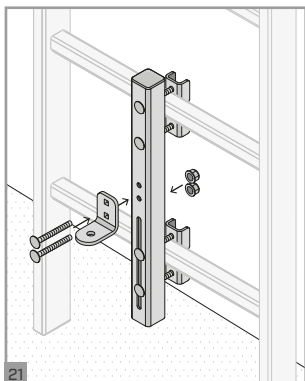
VERTSPEAR APPLICATION INSTRUCTIONS



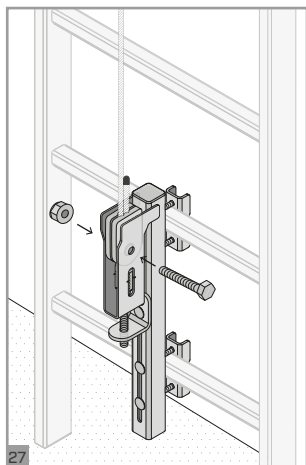
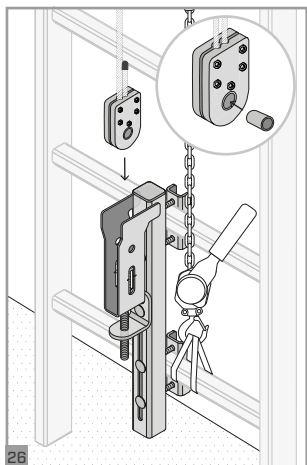
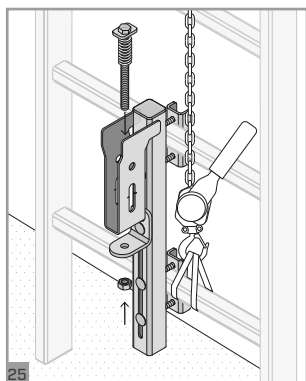
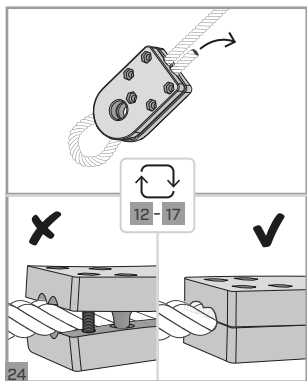
VERTSPEAR APPLICATION INSTRUCTIONS



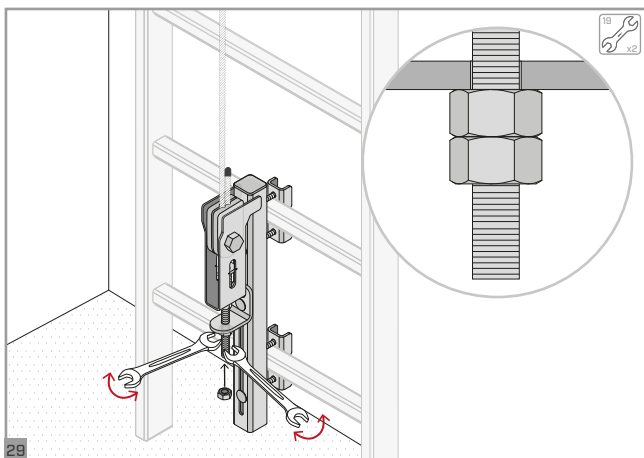
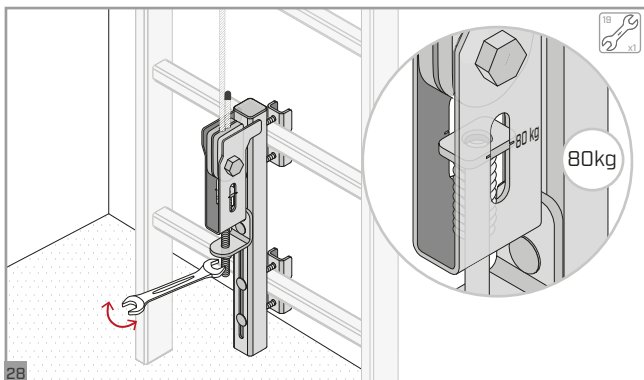
VERTSPEAR APPLICATION INSTRUCTIONS



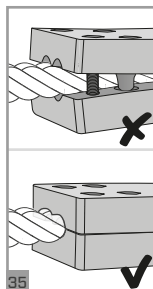
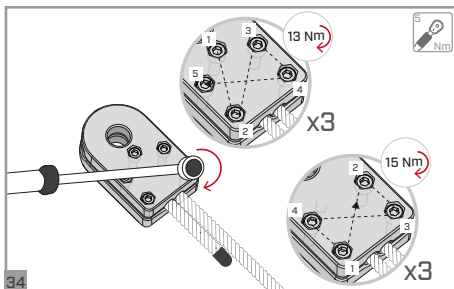
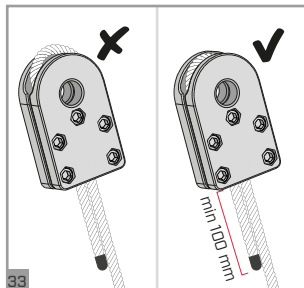
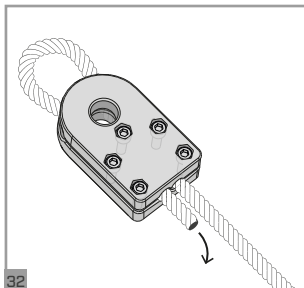
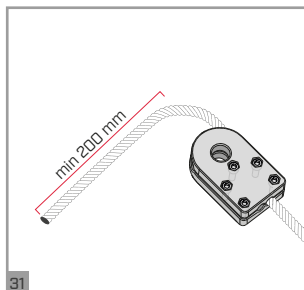
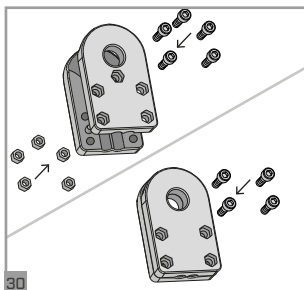
VERTSPEAR APPLICATION INSTRUCTIONS



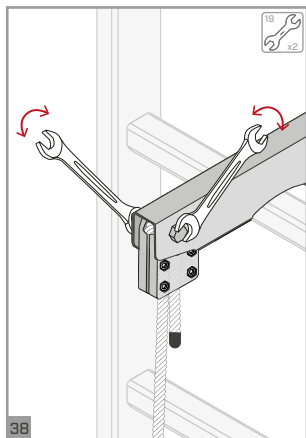
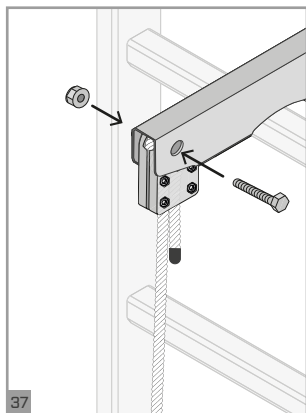
VERTSPEAR APPLICATION INSTRUCTIONS



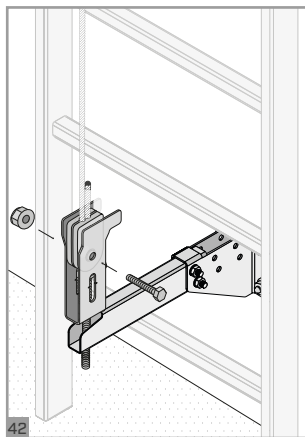
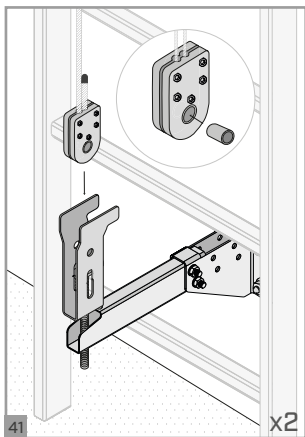
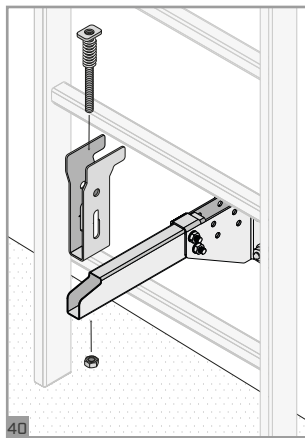
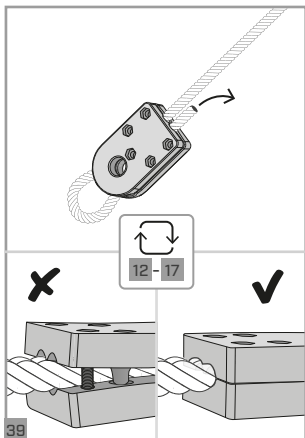
VERTSPEAR APPLICATION INSTRUCTIONS



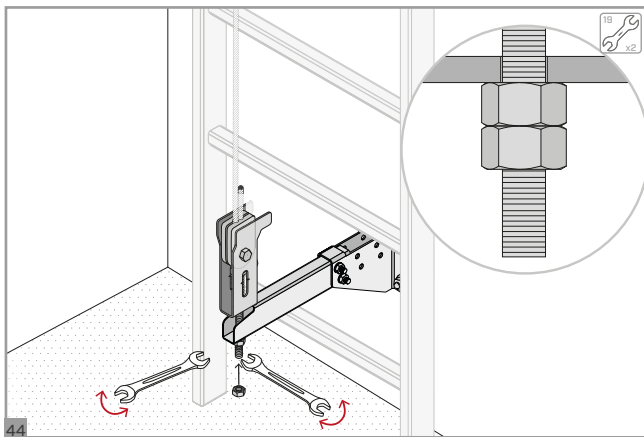
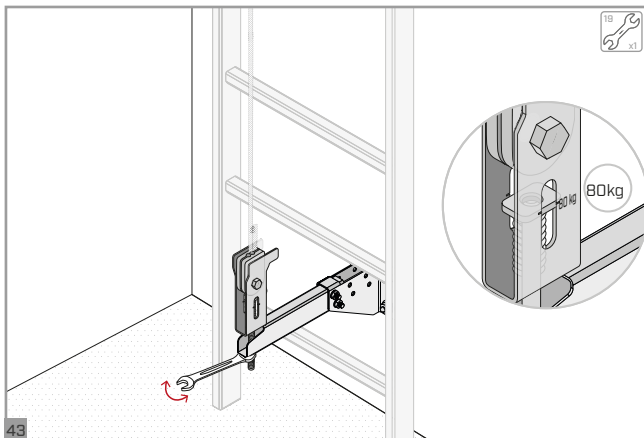
VERTSPEAR APPLICATION INSTRUCTIONS



VERTSPEAR APPLICATION INSTRUCTIONS



VERTSPEAR APPLICATION INSTRUCTIONS





Rotho Blaas SRL

05 - 23

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

