

VERTIGRIP

INSTALLATION MANUAL



CLT



S235



C20/25

CE

2



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 SIKKERHEDS-FORSKRIFTERNE** 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.



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SAFETY INSTRUCTIONS

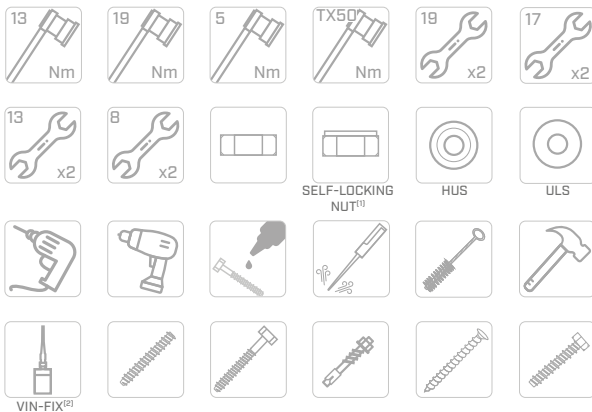
- HU** A Rotho Blaas termék kizárólag hozzáértő személyzet szerelheti be és/vagy használfhatja, az adott országának megfelelő nyelvű **1** **TELEPÍTÉSI KÉZIKÖNYV** és **2** **BIZTONSÁGI SZABÁLYOK** elolvasása és megértése után.
- IS** Aðeins þjálfað starfsfólk má setja upp og/eða nota þessa Rotho Blaas-vöru 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 patyrusiam asmeniui, 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 forstår **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 PREDPIS** v jeziku države njegove uporabe.
- SV** Endast erfaren personal får installera och/eller använda den här Rotho Blaas-produkten efter att **1** **INSTALLATIONSANVISNINGARNA** och **2** **SÄKERHETSFÖRESKRIFTER** har lästs igenom på språket i installationslandet.
- TR** Sadece yetkili personel, **1** **KURULUM KILAVUZUNDA** ve **2** **GÜVENLİK MEVZUATINI** (2) ürünün kullanıldığı ülke dilinde okuyup anladıktan sonra Rotho Blaas ürününü kurabilir ve/veya kullanabilir.
- JA** Rotho Blaas製品の施工および使用は、資格を有する専門家のみに許可されています。施工および使用の前に、必ず使用する国の言語で**1**設置マニュアルと**2**安全規則をお読み下さい。
- ZH** 只有具备合格资质的人员在阅读并理解以使用国的语言编写的**1**安装手册和**2**安全规程后才能安装和/或使用该Rotho Blaas产品。
- AR** يمكن فقط للفنيين المؤهلين باستخدام أو تركيب منتج Rotho Blaas بعد قراءة وفهم دليل التثبيت **1** نظراً إلى سلامة **2** بلغة البلد المستخدم فيها المنتج



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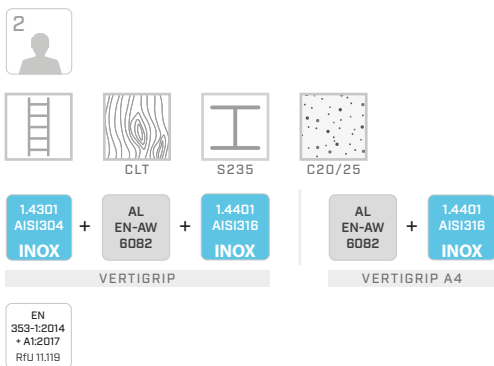
TOOLS



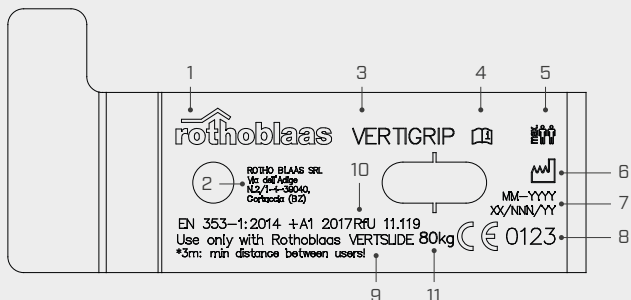
⁽¹⁾ SELF LOCKING NUT (FOLLOW ITS MAINTENANCE MANUAL)

⁽²⁾ ROTHBLAAS VINYL LESTER CHEMICAL ANCHOR WITHOUT STYRENE

PRODUCT INFORMATION

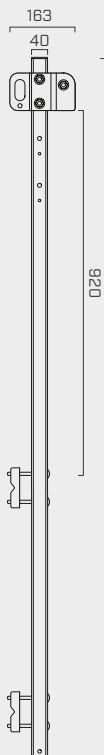


■ INFORMATION



- 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

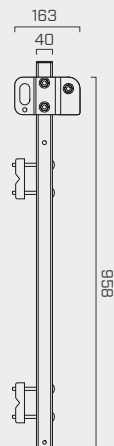
■ BASE ELEMENTS AND DIMENSIONS



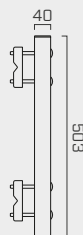
VERTOP17
VERTOP17A4



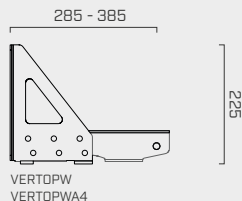
CABLE



VERTOP09
VERTOP09A4



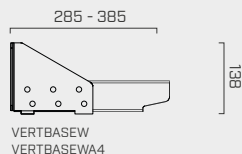
VERTBASE
VERTBASEA4



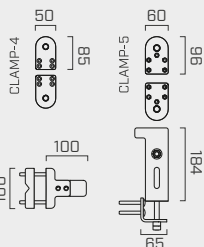
VERTOPW
VERTOPWA4



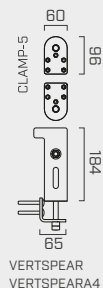
VERTINTW
VERTINTWA4



VERTBASEW
VERTBASEWA4



VERTINT
VERTINTA4



VERTSPEAR
VERTSPEARA4

IT ⚠ Verificare idoneità statica del sottofondo di montaggio!

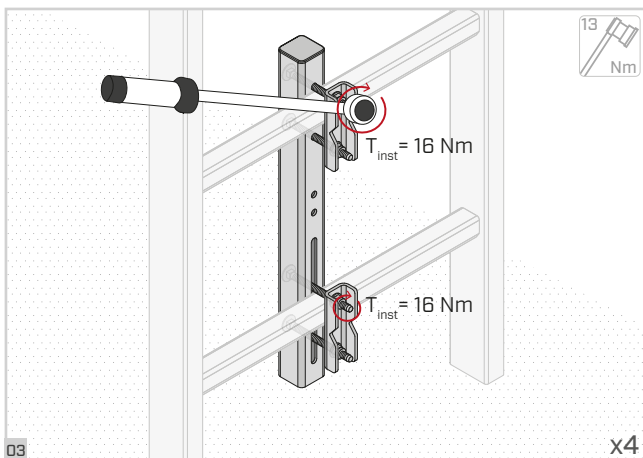
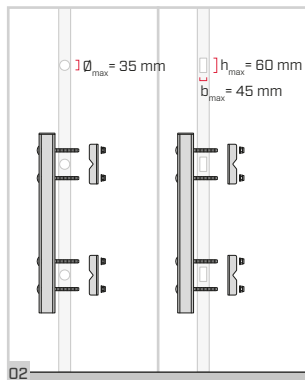
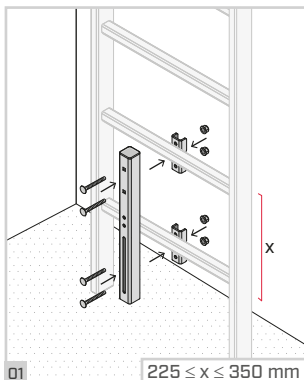
DE ⚠ Die statische Eignung des Montageuntergrundes sicherstellen!

EN ⚠ Check the static suitability of the installation substrate!

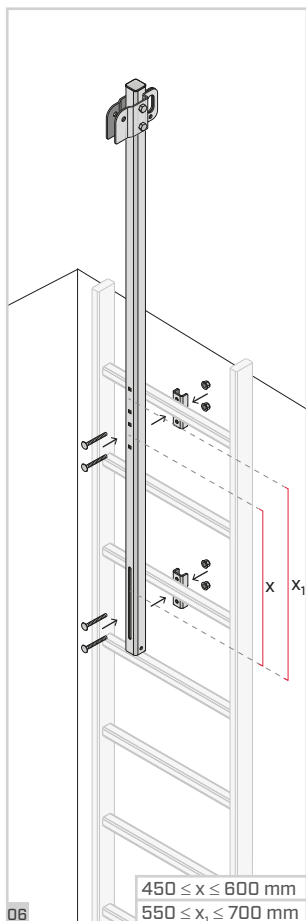
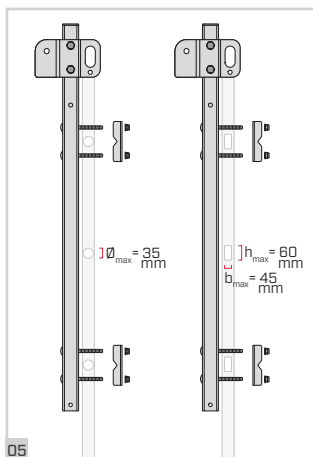
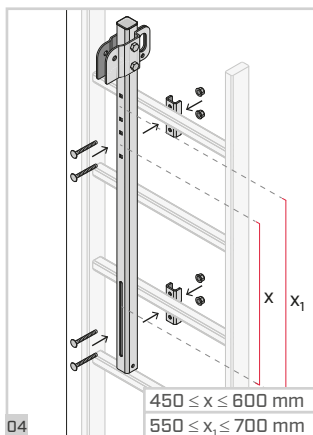
ES ⚠ ¡Compruebe la idoneidad estática del sustrato de montaje!

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

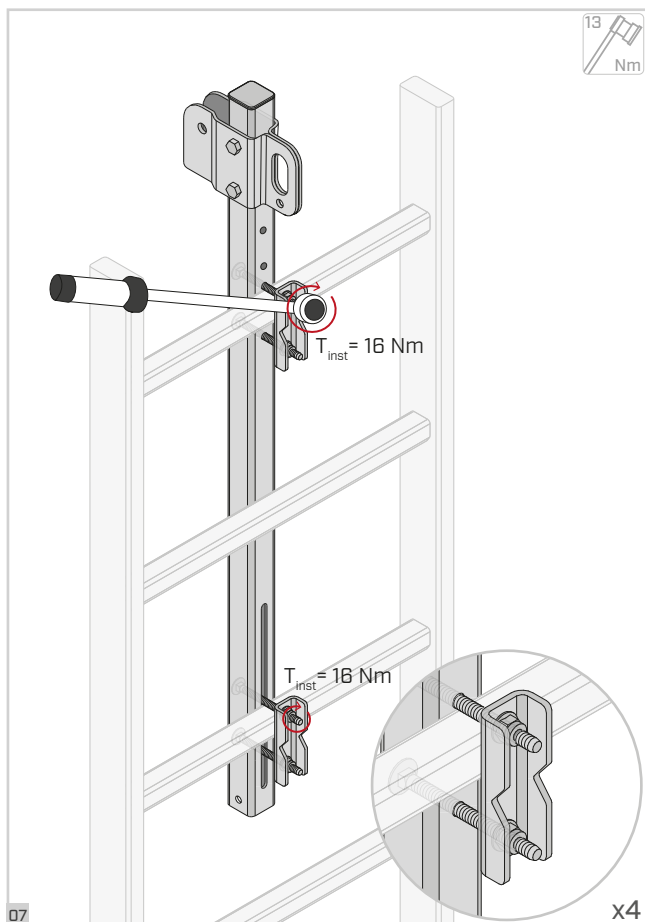
VERTIGRIP ON LADDER VERTBASE APPLICATION INSTRUCTIONS



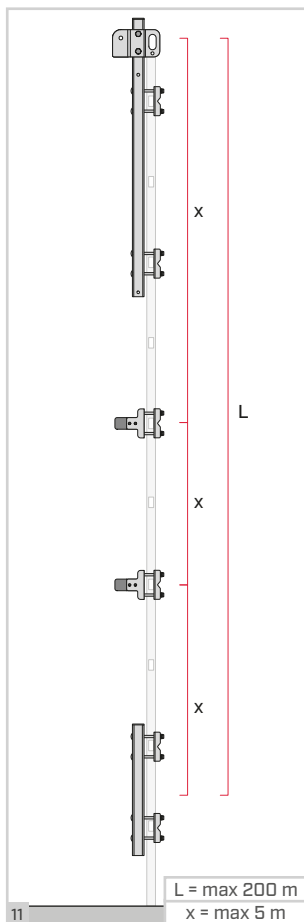
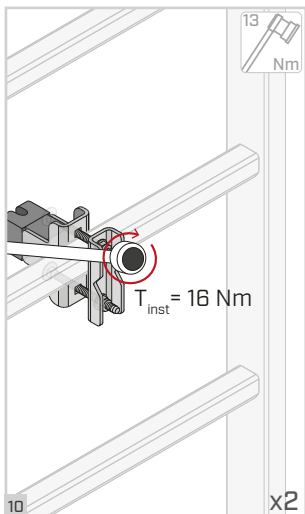
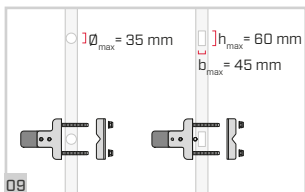
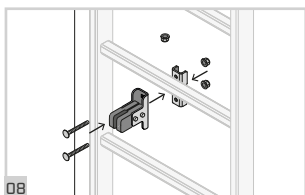
VERTOP09-VERTOP17 APPLICATION INSTRUCTIONS



VERTOP09-VERTOP17 APPLICATION INSTRUCTIONS



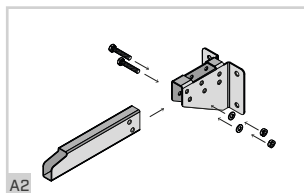
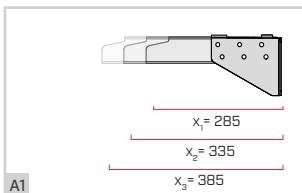
VERTINT APPLICATION INSTRUCTIONS



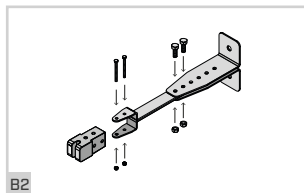
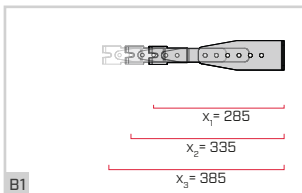
VERTIGRIP ON WALL APPLICATION WOOD - STEEL - CONCRETE



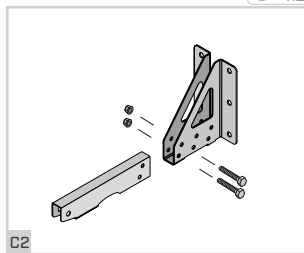
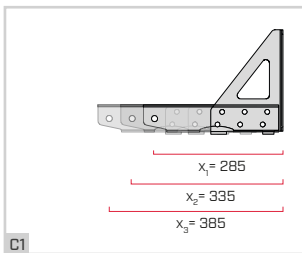
VERTBASEW APPLICATION INSTRUCTIONS



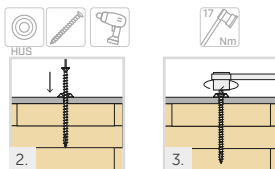
VERTINTW APPLICATION INSTRUCTIONS



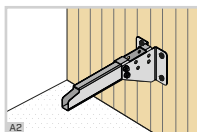
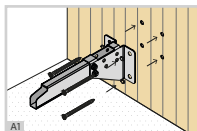
VERTOPW APPLICATION INSTRUCTIONS



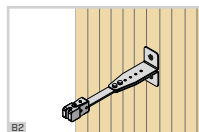
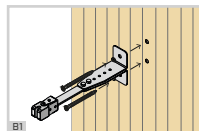
VERTIGRIP ON WALL APPLICATION WOOD



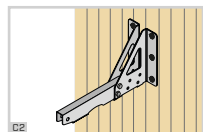
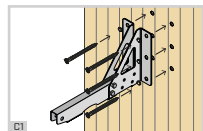
VERTBASE



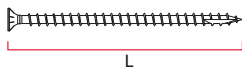
VERTINT



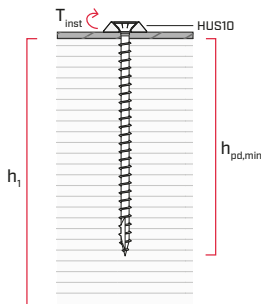
VERTOP



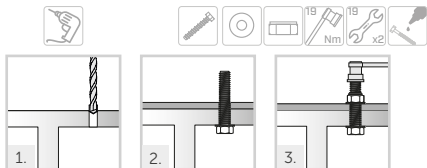
VGS 11 X L mm



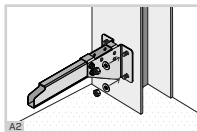
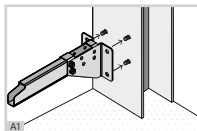
$h_1 \geq 100 \text{ mm}$	$h_{pd,min} \leq h_1$
$L \geq 100 \text{ mm}$	$h_{pd,min} \geq 83 \text{ mm}$
$L < 400 \text{ mm}$	$T_{inst} = 30 \text{ Nm}$
$L \geq 400 \text{ mm}$	$T_{inst} = 40 \text{ Nm}$
$d = 11 \text{ mm}$	



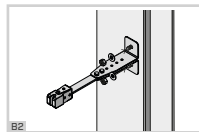
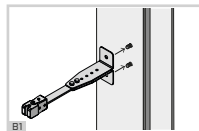
VERTIGRIP ON WALL APPLICATION STEEL



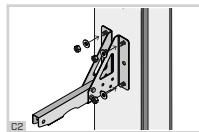
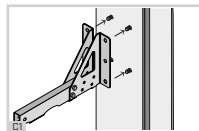
VERTBASE



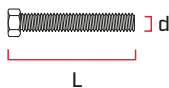
VERTINT



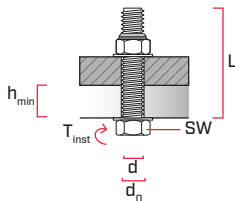
VERTOP



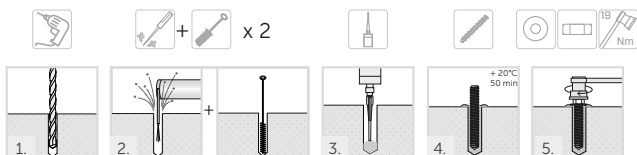
M12 - 8.8 min/A2



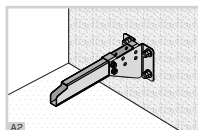
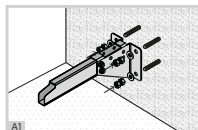
d	=	12 mm	SW	=	17 mm
d ₀	=	12,5 mm	8.8	▶	T _{inst} = 100 Nm
L	≥	50 mm	A2-A4	▶	T _{inst} = 80 Nm
L	≥	h _{min} + 40 mm			
h _{min}	≥	5 mm			



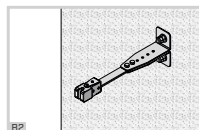
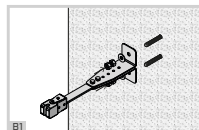
VERTIGRIP ON WALL APPLICATION CONCRETE



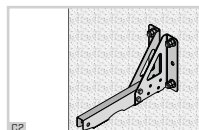
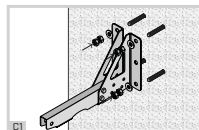
VERTIBASE



VERTINT



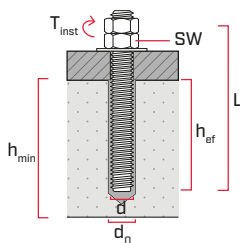
VERTOP



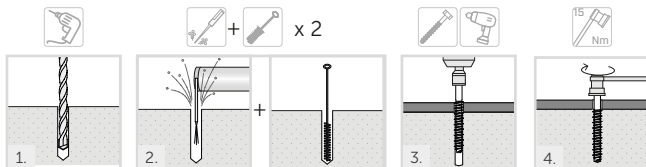
M12 - 8.8 min/A2



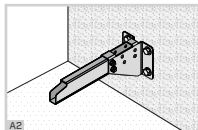
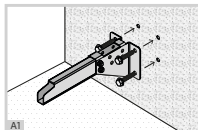
$196 \leq h_{ef} \leq 240 \text{ mm}$	
$h_{min} \geq h_{ef} + 30 \text{ mm}$	
$L \geq h_{ef} + 40 \text{ mm}$	
$h_{min} \geq 126 \text{ mm}$	$SW = 19 \text{ mm}$
$d_0 = 14 \text{ mm}$	$T_{inst} = 40 \text{ Nm}$
$d = 12 \text{ mm}$	



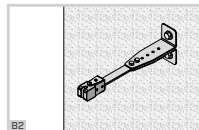
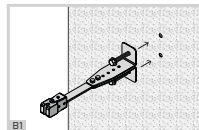
VERTIGRIP ON WALL APPLICATION CONCRETE



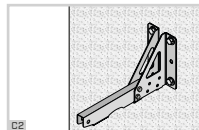
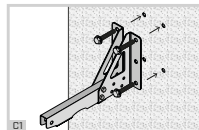
VERTIBASE



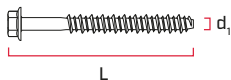
VERTINT



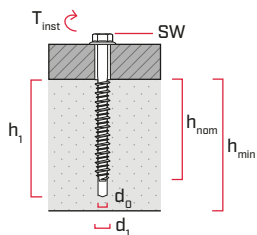
VERTOP



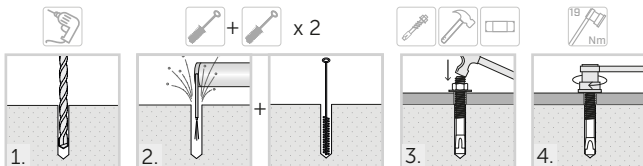
SKR CE 12 X 90 mm



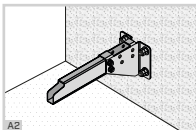
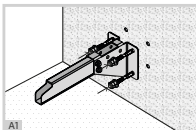
d_1	$\geq$	12 mm	h_{min}	$\geq$	150 mm
L	$\geq$	90 mm	d_0	$=$	10 mm
h_1	$\geq$	100 mm	SW	$=$	15 mm
h_{nom}	$\geq$	80 mm	T_{inst}	$=$	80 Nm



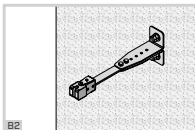
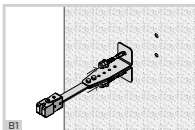
VERTIGRIP ON WALL APPLICATION CONCRETE



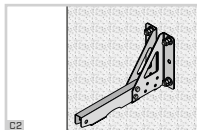
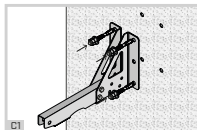
VERTBASE



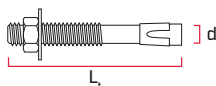
VERTINT



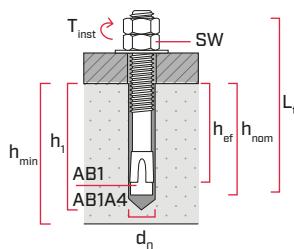
VERTOP



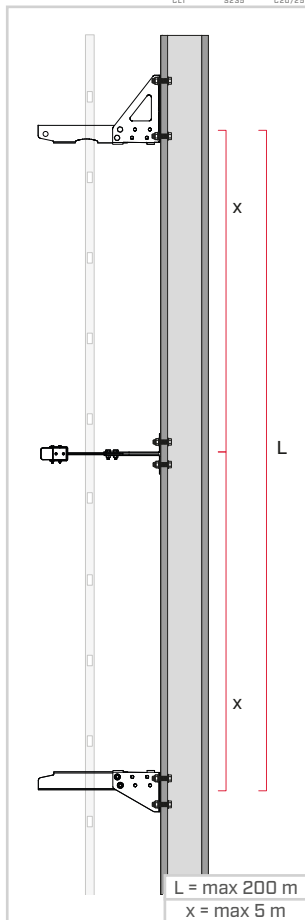
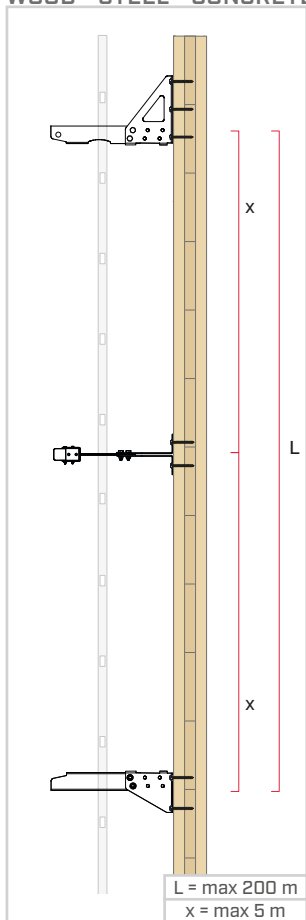
AB1

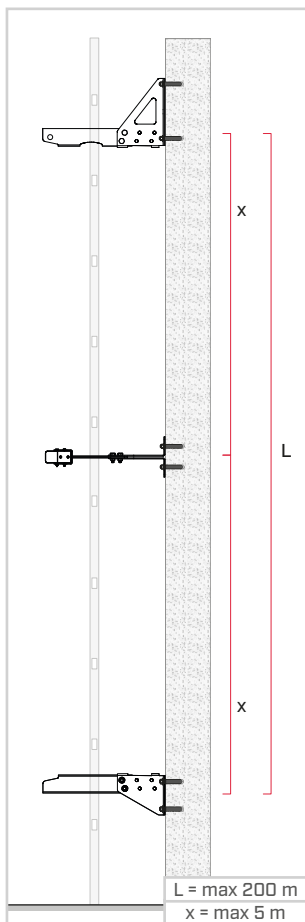


$d = d_0 = M12$	$h_{ef} = 70 \text{ mm}$
$L_t = 120 \text{ mm}$	$SW = 19 \text{ mm}$
$h_1 \geq 85 \text{ mm}$	$T_{inst} = 60 \text{ Nm}$
$h_{nom} = 80 \text{ mm}$	$h_{min} \geq 140 \text{ mm}$

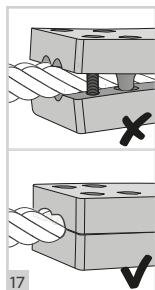
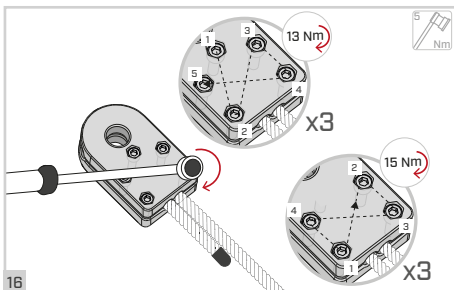
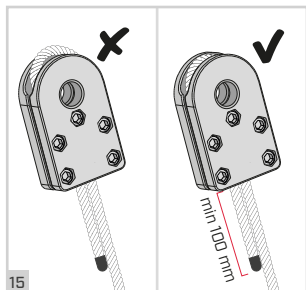
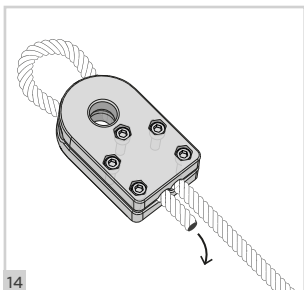
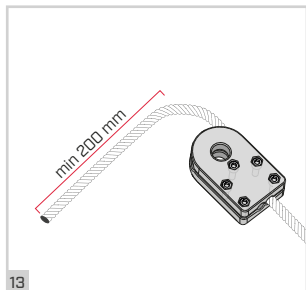
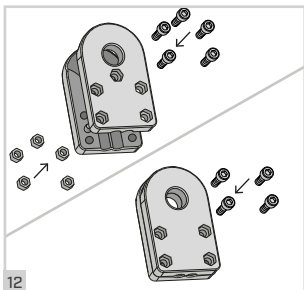


VERTIGRIP ON WALL APPLICATION WOOD - STEEL - CONCRETE

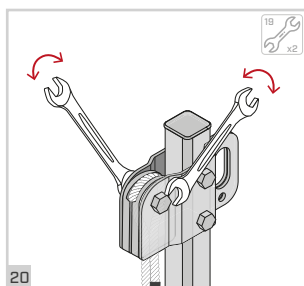
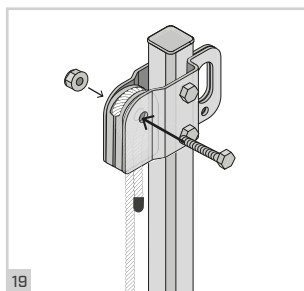
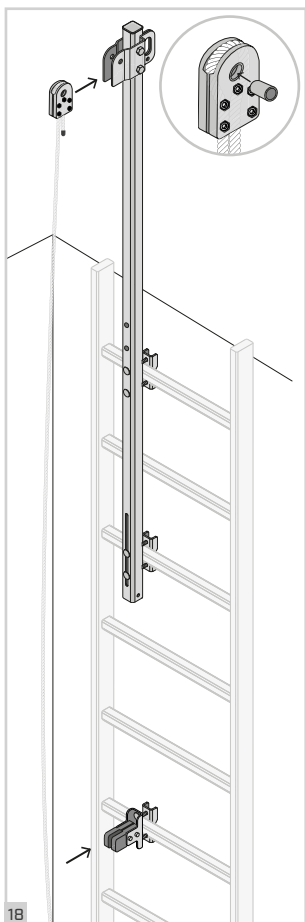




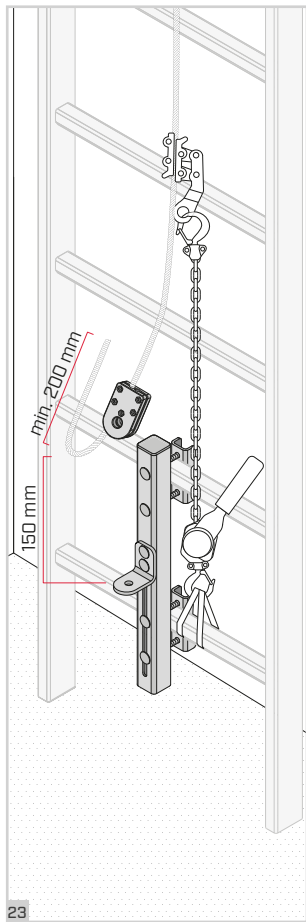
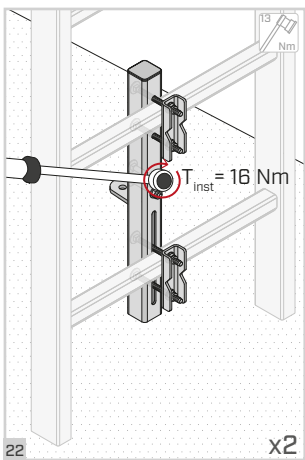
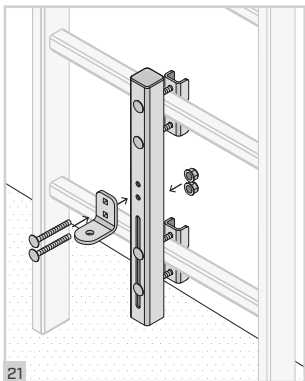
VERTSPEAR APPLICATION INSTRUCTIONS



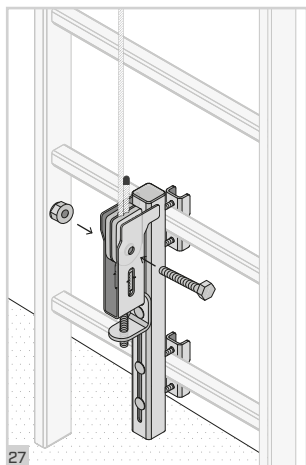
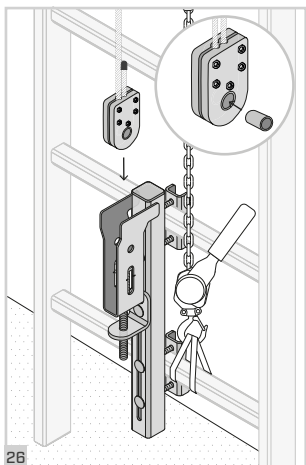
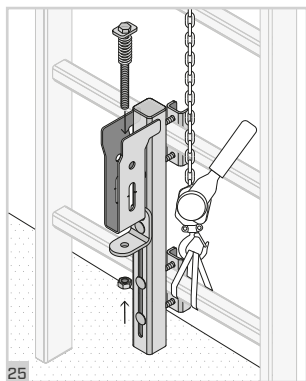
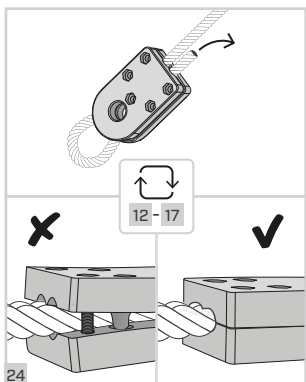
■ VERTSPEAR APPLICATION INSTRUCTIONS



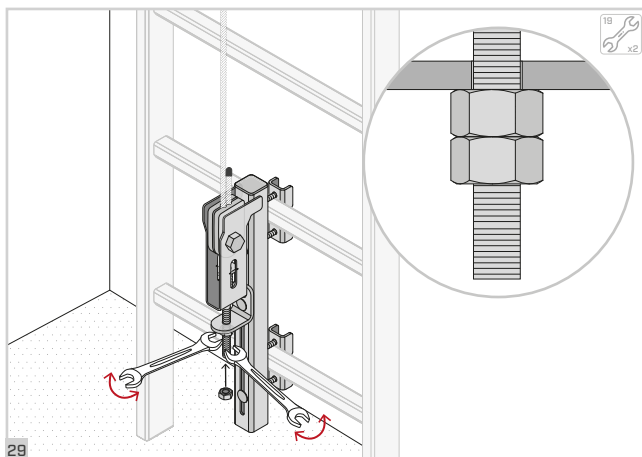
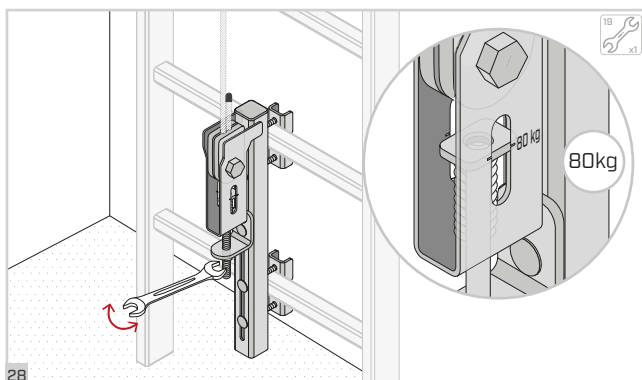
■ VERTSPEAR APPLICATION INSTRUCTIONS



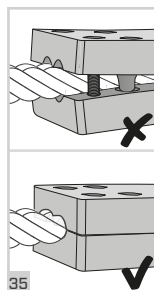
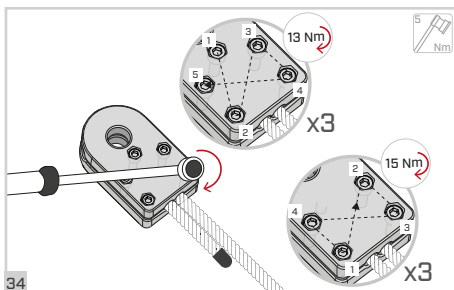
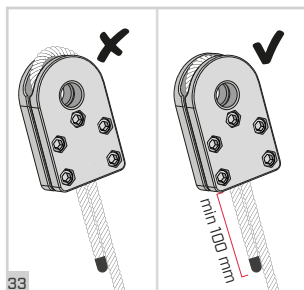
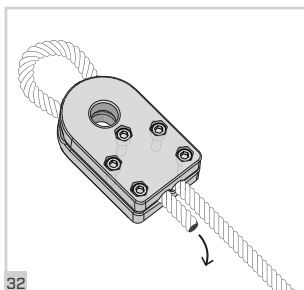
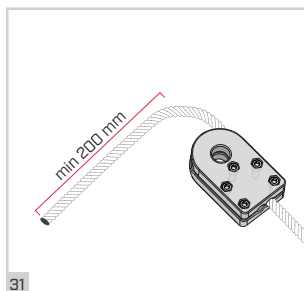
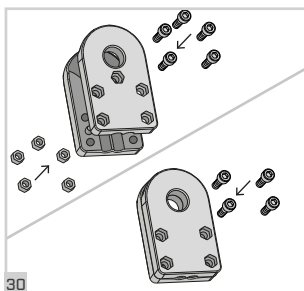
■ VERTSPEAR APPLICATION INSTRUCTIONS



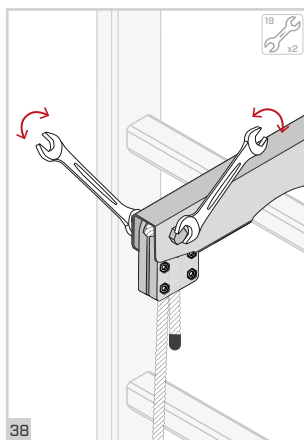
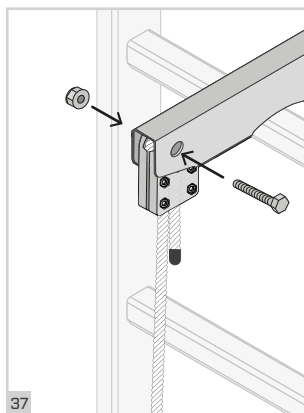
VERTSPEAR APPLICATION INSTRUCTIONS



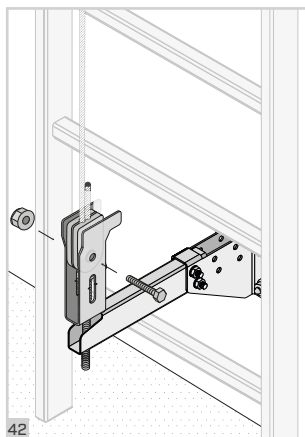
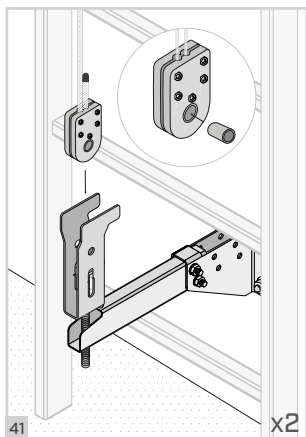
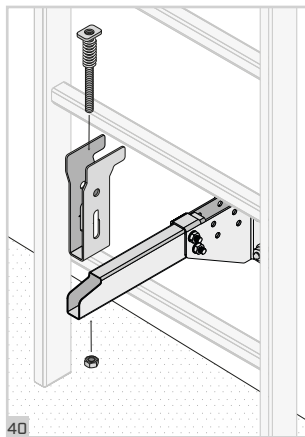
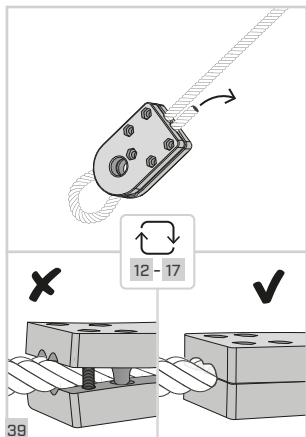
■ VERTSPEAR APPLICATION INSTRUCTIONS



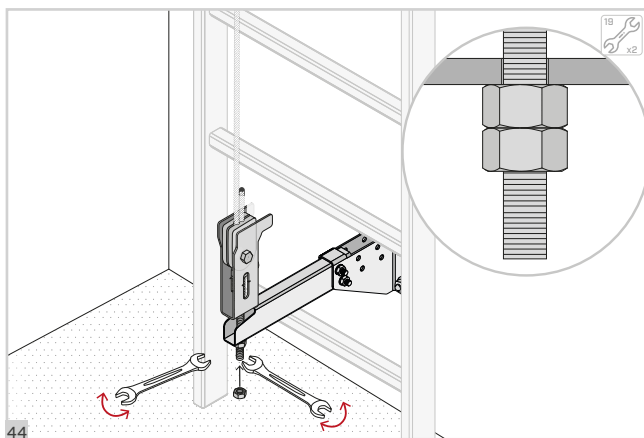
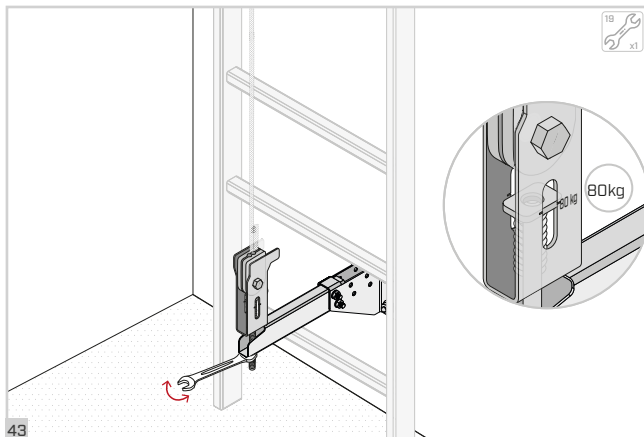
■ VERTSPEAR APPLICATION INSTRUCTIONS

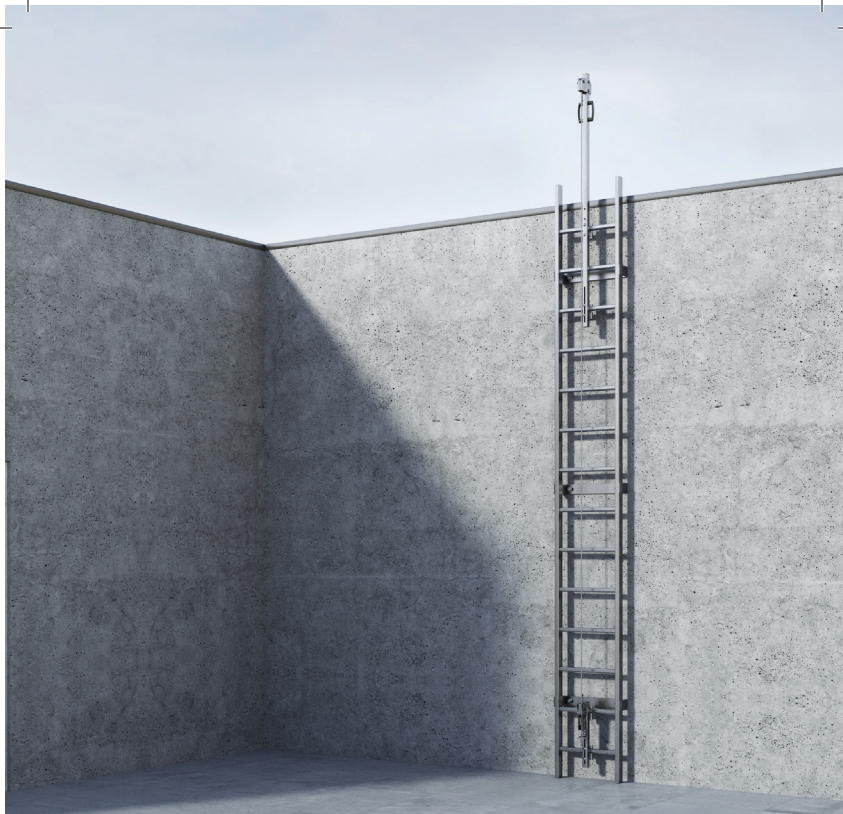


■ VERTSPEAR APPLICATION INSTRUCTIONS



VERTSPEAR APPLICATION INSTRUCTIONS





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