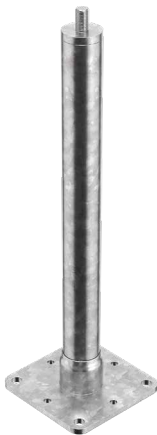


TOWER - TOWER22 - TOWER A2 INSTALLATION MANUAL



C20/25



S235JR



GL24H



CLT



EN 795:2012 A+C+D
CEN/TS 16415:2013 A+C+D
UNI 11578:2015 A+C+D
AS/NZS 1891.2:2001



AS 5532:2025



read also:



TOWER
Installation
Manual

+



TOWER
Safety
Regulations

=



EN
795:2012
A + C + D

CEN/TS
16415:2013
A + C + D

UNI
11578:2015
A + C + D

AS
5532:2025

AS/NZS
1891.2:2001

TOWER
Installation
Manual

+

TOWER
Safety
Regulations

TOOLS

SELF-LOCKING NUT ⁽¹⁾⁽²⁾ ROTHOBLAAS VINYL LESTER CHEMICAL ANCHOR
WITHOUT STYRENE⁽³⁾ SELF-LOCKING NUT (FOLLOW ITS MAINTENANCE
MANUAL)

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 käytömaän 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** PROPIS O SIGURNOSTI na jeziku zemlje uporabe.
- HU** A Rotho Blaas termékét kizárólag hozzáértő személyzet szerelheti be és/vagy használhatja, az adott országnak megfelelő nyelven **1** TELEPÍTÉSI KÉZIKÖNYV és **2** BIZTONSÁGI SZABÁLYOK elolvasása és megértése után.

INFORMATION

Type

Rothoblaas

TOWER - TOWER22 - TOWERA2

Related standard(s)

EN 795:2012 A+C+D

CEN/TS 16415:2013 A+C+D

UNI 11578:2015 A+C+D

Maximum number of users

4 users

Name or logo of manufacturer/
distributor

ROTHOBLAAS

Serial number and year of
manufacture

XXXX

MM/YYYY

(XXXX = lot number,

MM = month /YYYY = year)



+



PRODUCT INFORMATION



TOWER -
TOWER22



TOWERA2



EN 795:2012 A+C+D
CEN/TS 16415:2013 A+C+D
UNI 11578:2015 A+C+D
AS 5532:2025



AS/NZS 1891.2:2001



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 REGLUGERDIR UM ÖRYGGI** á tungumáli þess lands sem varan er notuð í.

LT Produktą „Rotho Blaas“ montuoti ir (arba) naudoti leidžiama tik patyrusiems personalui, prieš tai perskaičius ir supratęs **1 MONTAVIMO VADOVĘ** ir **2 SAUGOS Taisyklės** 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 NĒIEMĒKUMU** 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 VEILIGHEIDSVORSCHRIFTEN** in de taal van het land van gebruik gelezen en begrepen heeft.

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

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

RO Instalarea și/sau utilizarea produsului Rotho Blaas este permisă numai personalului expert, după ce a citit și înțeles **1 MANUALUL DE INSTALARE** și **2 NORMELE DE SIGURANȚĂ** în limba țării de utilizare a produsului.

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

SL Ta proizvod Rotho Blaas lahko namesti in/ali uporablja samo izkušeno osebe, ki je prebralo in razume vse **1 NAVODILH 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 SÄKERHETSFORESKRIFTER** 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。

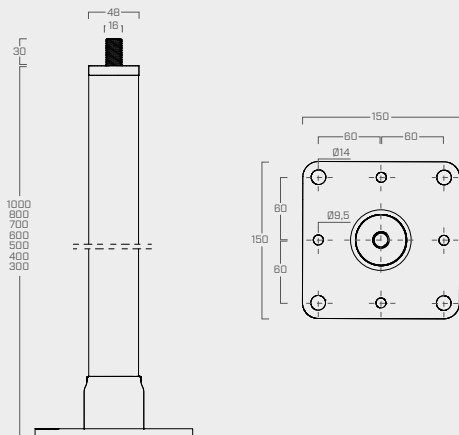
ZH 只有具备合格资质的人员在阅读并理解以使用国的语言编写的**1安装手册**和**2安全规程**后才能安装和/或使用该Rotho Blaas产品。

AR يمكن فقط للفنيين المؤهلين باستخدام أو تركيب منتج Rotho Blaas بعد قراءة وفهم دليل التثبيت **1** نظراً لسلامة **2** لبلغة البلد المستخدم فيها المنتج.

EN 795:2012 A+C+D, CEN/TS 16415:2013, UNI 11578:2015 A+C+D	XXXXX MM/YYYY
rothoblaas TOWER	
EN 795:2012 A+C+D, CEN/TS 16415:2013, UNI 11578:2015 A+C+D	XXXXX MM/YYYY
rothoblaas TOWER22	
EN 795:2012 A+C+D, CEN/TS 16415:2013, UNI 11578:2015 A+C+D	XXXXX MM/YYYY
rothoblaas TOWERA2	

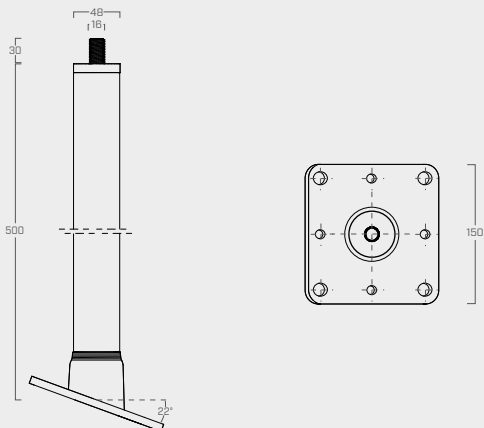
■ TOWER - TOWER A2 DIMENSIONS

TOWER300 - TOWER400 - TOWER500 - TOWER600 - TOWER700 - TOWER800 - TOWER1000 -
TOWERA2300 - TOWERA2400 - TOWERA2500



■ TOWER22 DIMENSIONS

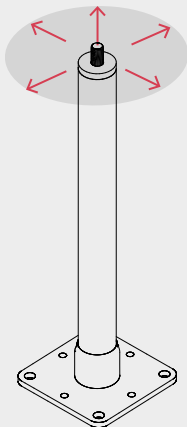
TOWER22500



LOAD TEST MODEL TOWER - TOWER A2

TOWER300 - TOWER400 - TOWER500 - TOWER600 - TOWER700 - TOWER800 - TOWER1000 -
TOWERA2300 - TOWERA2400 - TOWERA2500

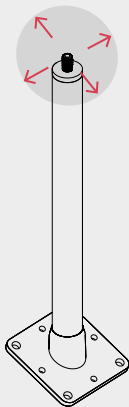
- IT** ⚠ Verificare idoneità statica del sottofondo di montaggio!
- DE** ⚠ Die statische Eignung des Montageuntergrundes sicherstellen!
- EN** ⚠ Check the static suitability of the installation substrate!
- ES** ⚠ ¡Compruebe la idoneidad estática del sustrato de montaje!
- FR** ⚠ Vérifier l'adéquation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



LOAD TEST MODEL TOWER22

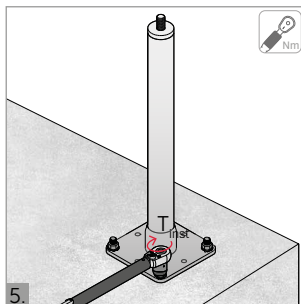
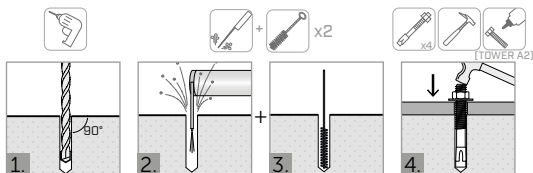
TOWER22500

- 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!

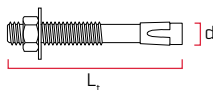
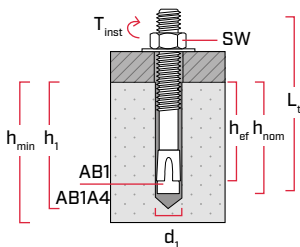


TOWER - TOWER A2 - TOWER22 CONCRETE SUBSTRUCTURE

TOWER300 - TOWER400 - TOWER500 - TOWER600 -
TOWER700 - TOWER800 - TOWER1000 - TOWERA2300 -
TOWERA2400 - TOWERA2500 - TOWER22500



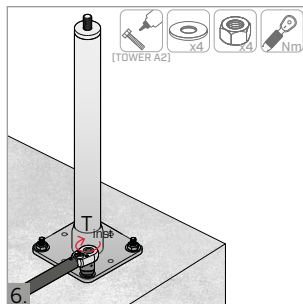
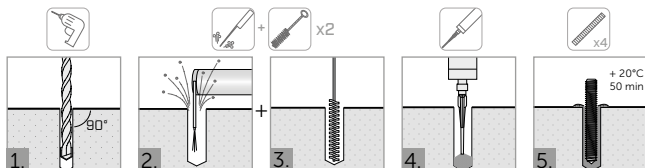
AB1/AB1A4



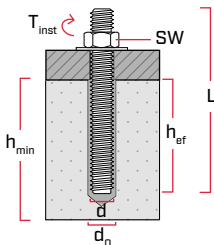
d	$= d_1 = M12$	$h_{ef} \geq 70$	mm
L_t	≥ 118	$SW = 19$	mm
h_1	≥ 90	$T_{inst} = 70$	Nm
h_{nom}	≥ 81	$h_{min} \geq 140$	mm

TOWER - TOWER A2 - TOWER22 CONCRETE SUBSTRUCTURE

TOWER300 - TOWER400 - TOWER500 - TOWER600 -
TOWER700 - TOWER800 - TOWER1000 -
TOWERA2300 - TOWERA2400 - TOWERA2500 -
TOWER22500



M12 - 5.8 min/A2



$$70 \leq h_{ef} \leq 240 \text{ mm}$$

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

$$L \geq h_{ef} + 20 \text{ mm}$$

$$h_{min} \geq 140 \text{ mm}$$

$$d_0 = 14 \text{ mm}$$

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

$$SW = 19 \text{ mm}$$

$$T_{inst} = 40 \text{ Nm}$$

$$L \geq 140 \text{ mm}$$

TOWER - TOWER A2 - TOWER22 CONCRETE SUBSTRUCTURE

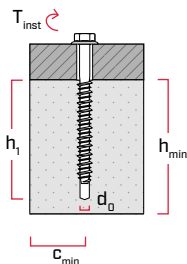
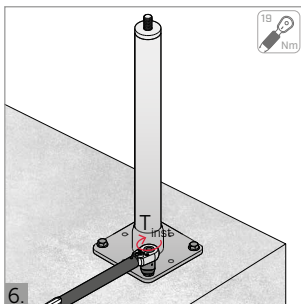
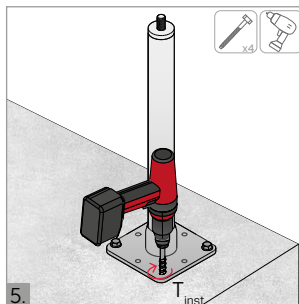
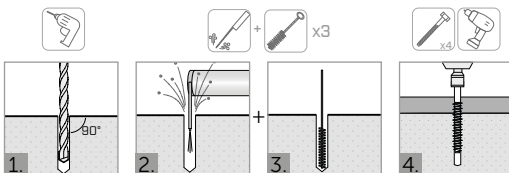
TOWER300 - TOWER400 - TOWER500 - TOWER600 -
TOWER700 - TOWER800 - TOWER1000 - TOWERA2300 -
TOWERA2400 - TOWERA2500 - TOWER22500



C20/25



SKR

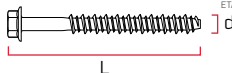


M12 - 5.8 min/A2



SKR

ETA-18/0279
ETA-18/0100



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

TOWER - TOWER A2 - TOWER22

GL24H SUBSTRUCTURE

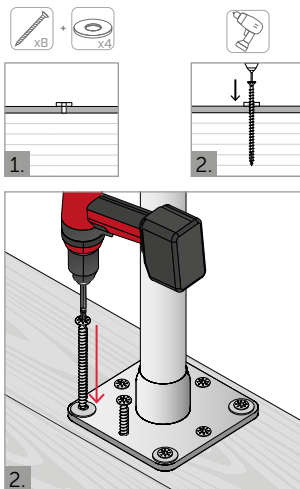
TOWER300 - TOWER400 - TOWER500 - TOWER600 -
TOWER700 - TOWER800 - TOWER1000 - TOWERA2300 -
TOWERA2400 - TOWERA2500 - TOWER22500



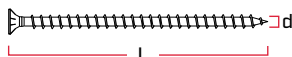
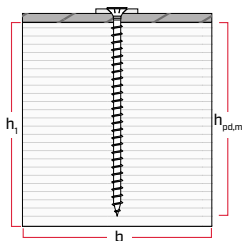
GL24H



INCLUDED IN BEF201VGS



VGS 9 x L mm



h_1	$\geq$	160 mm	$h_{pd,min}$	$\geq$	150 mm
d	$=$	9 mm	h_1	$\geq$	$h_{pd,min}$
L	$\geq$	160 mm	b	$\geq$	160 mm

TOWER - TOWER A2 - TOWER22 CLT SUBSTRUCTURE

TOWER300 - TOWER400 - TOWER500 - TOWER600 -
TOWER700 - TOWER800 - TOWER1000 - TOWERA2300 -
TOWERA2400 - TOWERA2500 - TOWER22500



CLT

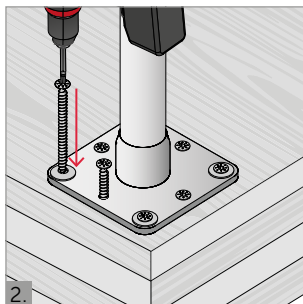
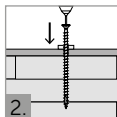
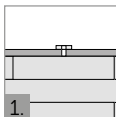


VGS

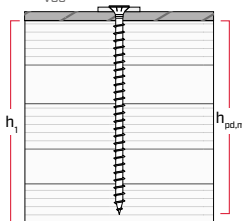


ULS

INCLUDED IN BEF202VGS



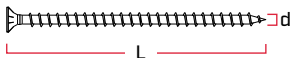
VGS



VGS 9 x L mm



VGS
VGS EVO
ETA-11/0030



h_1	$\geq$	200 mm	$h_{pd,min}$	$\geq$	190 mm
d	$=$	9 mm	h_1	$\geq$	$h_{pd,min}$
L	$\geq$	200 mm			

TOWER - TOWER A2 - TOWER22

STEEL SUBSTRUCTURE

TOWER300 - TOWER400 - TOWER500 - TOWER600 -
TOWER700 - TOWER800 - TOWER1000 - TOWERA2300 -
TOWERA2400 - TOWERA2500 - TOWER22500



S235



ULS



M12

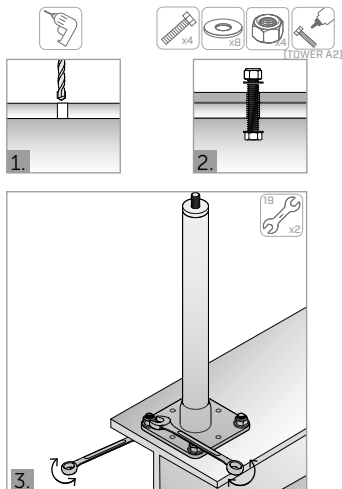


M12

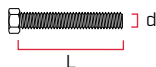
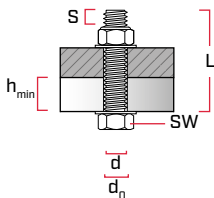


19

(TOWER A2)



M12 - 8.8 min/A2-A4



d	$=$	12 mm	SW	$=$	19 mm
d_0	$=$	12,5 mm	s	$\geq$	2 mm
L	$\geq$	35 mm			
L	$\geq$	$h_{min} + 25$ mm			
h_{min}	$\geq$	6 mm			

TOWER - TOWER A2 + TOWERPEAK WOOD SUBSTRUCTURE

TOWER300 - TOWER400 - TOWER500 - TOWER600 -
TOWER700 - TOWER800 - TOWER1000 - TOWERA2300 -
TOWERA2400 - TOWERA2500



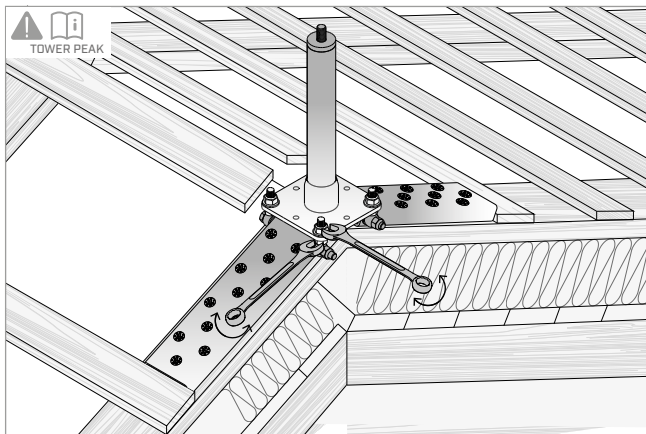
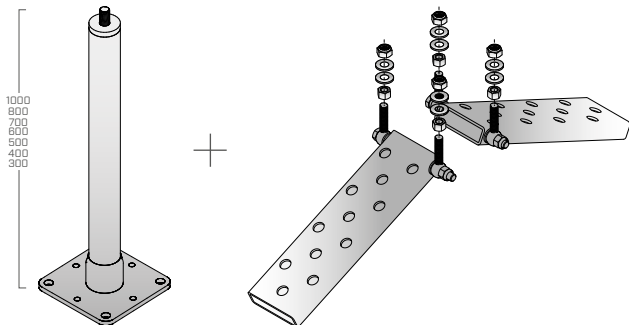
GL24H



HBS



TOWER PEAK



TOWER22 + TOWERSLOPE
WOOD SUBSTRUCTURE
TOWER22500



GL24H



19
x2



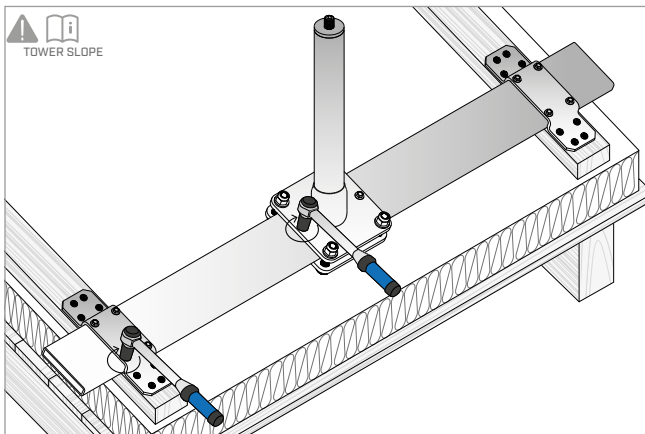
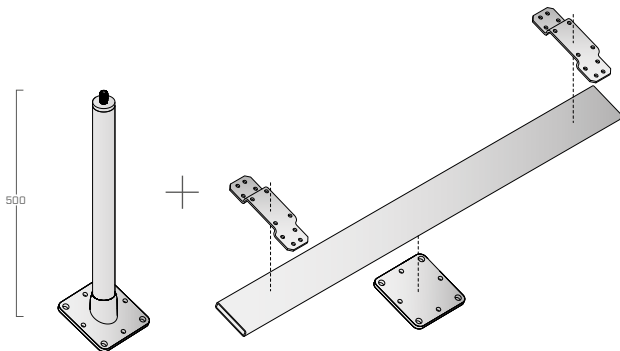
HBS



Nm

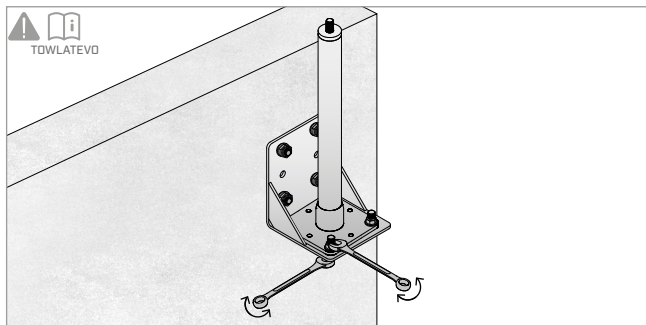
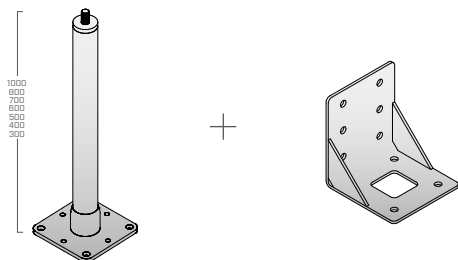
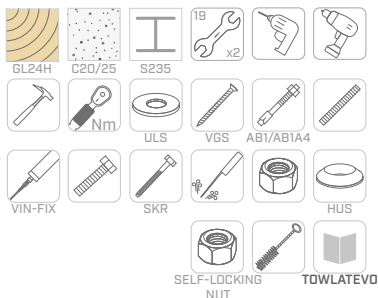


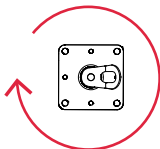
TOWER SLOPE



TOWER - TOWER A2 + TOWLATEVO STEEL/CONCRETE/ WOOD SUBSTRUCTURE

TOWER300 - TOWER400 - TOWER500-
TOWER600 - TOWER700 - TOWER800-
TOWER1000 - TOWERA2300 - TOWERA2400-
TOWERA2500





TOWER - TOWER22 - TOWERA2 + AOS01

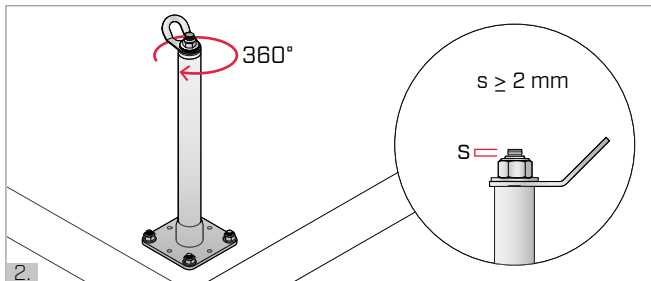
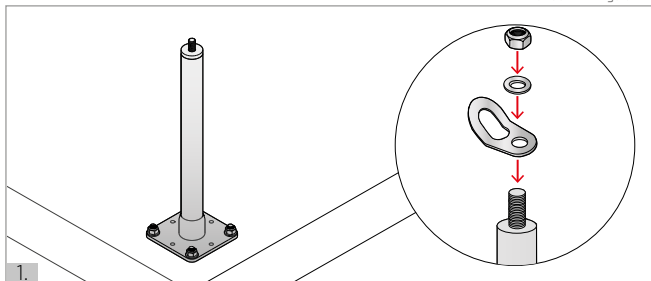
TOWER300 - TOWER400 - TOWER500 - TOWER600 -
TOWER700 - TOWER800 - TOWER1000 - TOWERA2300 -
TOWERA2400 - TOWERA2500

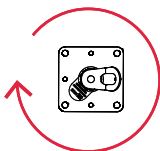


AOS01
Installation
Manual



AOS01
Safety
Regulations





TOWER - TOWER22 - TOWERA2 + AOS01

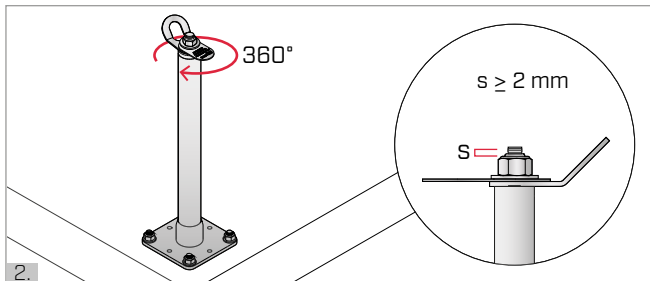
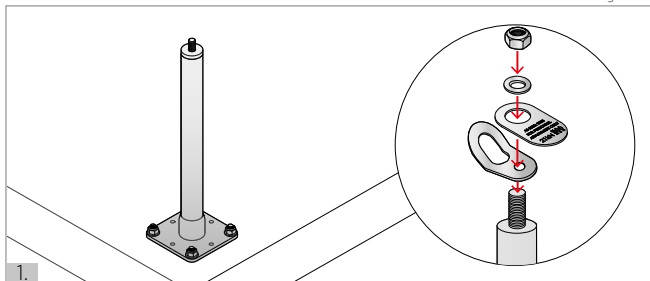
TOWER300 - TOWER400 - TOWER500 - TOWER600 -
TOWER700 - TOWER800 - TOWER1000 - TOWERA2300 -
TOWERA2400 - TOWERA2500



AOS01
Installation
Manual



AOS01
Safety
Regulations



ANCHOR LINE | PATROL

EN
795:2012
C

CEN/TS
16415:2013
C

UNI
11578:2015
C

AS
5532:2025

TOWER - TOWERA2 + PATROL + SPEAR



TOWER22 + PATROL + SPEAR

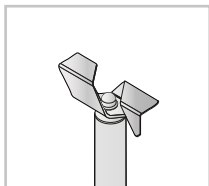


TOWER - TOWERA2 + PATROL + SPEAREVO

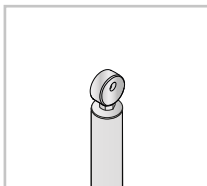


PATROL SUPPORTS

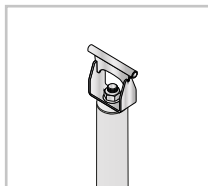
PATROLINT



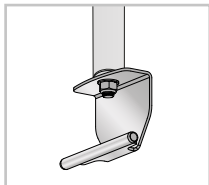
PATROLMED



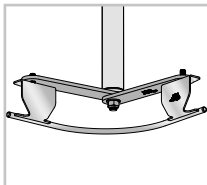
PASINT



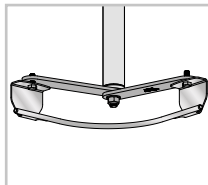
OHINT



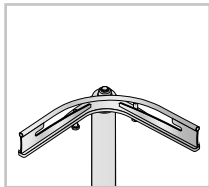
OHANGEXT + ANG SUP



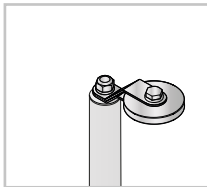
OHANGINT + ANG SUP



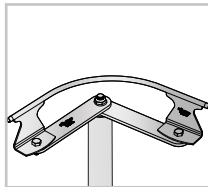
PASANG



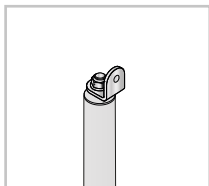
PATROLANG



PASANGBEND + ANG SUP

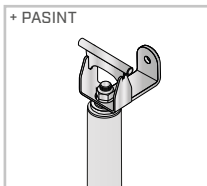


PATROLTERM

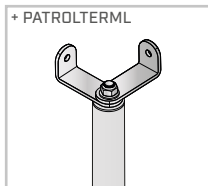


PATROLTERML

+ PASINT



+ PATROLTERML



ANCHOR LINE | H-RAIL



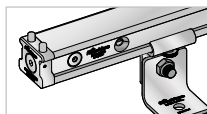
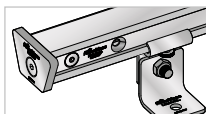
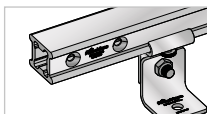
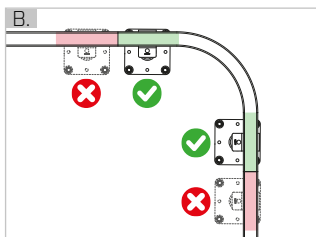
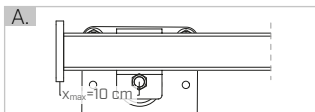
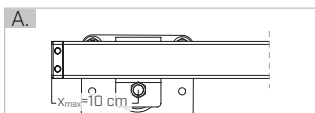
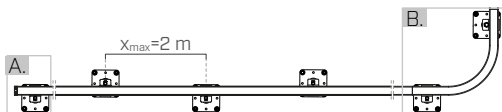
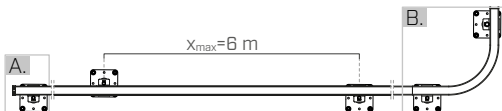
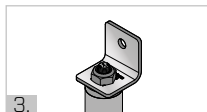
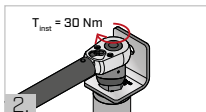
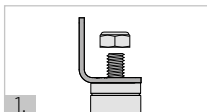
EN
795:2012
C

CEN/TS
18415:2013
C

UNI
11578:2015
C

AS
5532:2025

RAILBRAT16 | RAILBRAT16 A4 INSTALLATION





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01-26

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