rothoblaas

For building and working safely

WING - WINGY - WING A4

INSTALLATION MANUAL



x1

INCLUDED IN THE PACKAGE





C20/25



S235



CLT/GL24H



ANSI Z359.18/A
AS 5532:2025



AS 5532:2025



EN 795:2012 A
CEN/TS 16415:2013



read also:



WING Installation Manual

WING Safety Regulations

EN 795:2012 A	CEN/TS 16415:2013	ANSI Z359.18/A	AS 5532:2025

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 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.

SAFETY INSTRUCTIONS



WING Installation Manual

WING Safety Regulations

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.

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 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 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产品。

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

TOOLS





XEPOX F



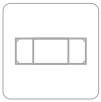
ULS



VINYLESTER [1]













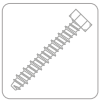












[1] VINYLESTER CHEMICAL ANCHOR WITHOUT STYRENE

INFORMATION

Type
Rothoblaas
WING - WINGY - WING A4

Related standard(s)
EN 795:2012 A
CEN/TS 16415:2013
ANSI Z359.18/A
AS 5532:2025

Maximum number of users
3/2/1 user(s)

Name or logo of manufacturer/distributor
ROTHOBLAAS

Serial number and year of manufacture
YYXXXXX (YY = year – XXXXX = lot number)

MBS (Minimum Breaking Strength)
22,2 kN

T_{min} (Minimum service temperature) **-20°**

PRODUCT INFORMATIONS



EN 795:2012 A
CEN/TS 16415:2013

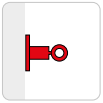


AS 5532:2025



ANSI Z359.18 A
AS 5532:2025













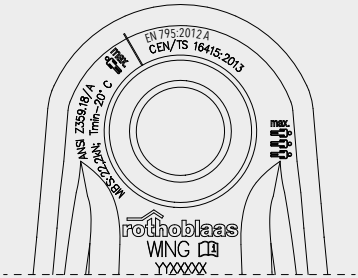


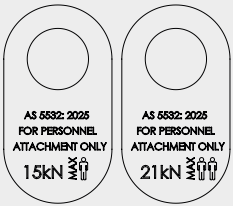
EN
795:2012
A

CEN7TS
16415:2013

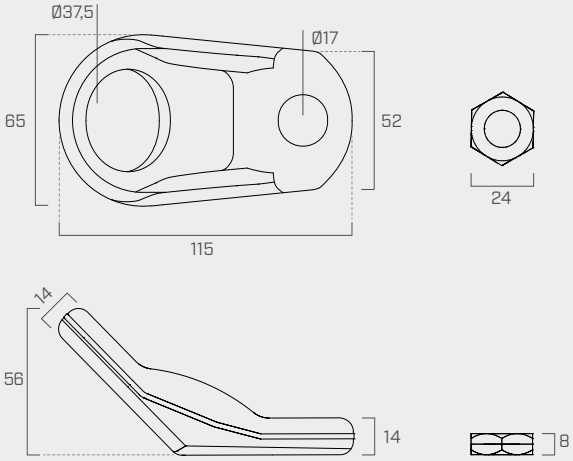
AS
5532:2025

ANSI
Z359.18/A

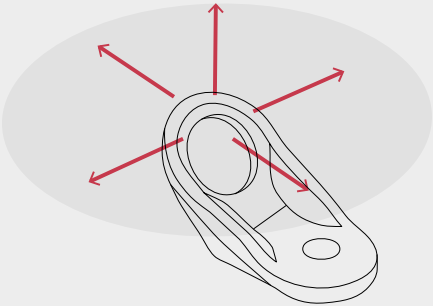




WING - WINGY - WING A4 DIMENSIONS



LOAD TEST MODEL



WING - WINGY SUBSTRUCTURES

		EN 795/A:2012 + CEN/TS 16415:2013	ANSI Z359.18/A	AS 5532:2025
 C20/25	AB1	✓	✗	✓ (1 user / 15 kN)
	VIN-FIX	✓	✓	✓ (2 user / 21 kN)
	SKR	✓	✗	✓ (1 user / 15 kN)
 S235	M16 8.8	✓	✓	✓ (2 user / 21 kN)
 CLT/GL24H/ LVL	CLT MGS	✓	✗	✓ (1 user / 15 kN)
	GL24h XEPOX+VGS	✓	✗	✓ (1 user / 15 kN)
	LVL DISC FLAT	✓	✗	✓ (1 user / 15 kN)

WING A4 SUBSTRUCTURES

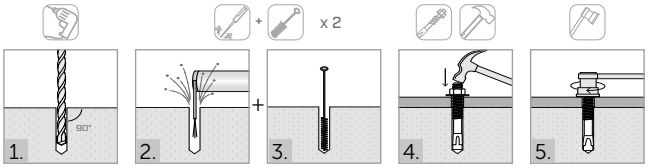
		EN 795/A:2012 + CEN/TS 16415:2013	ANSI Z359.18/A	AS 5532:2025
 C20/25	AB1 A4	✓	✗	✓ (1 user / 15 kN)
	VIN-FIX	✓	✓	✓ (2 user / 21 kN)
 S235	M16 A2/A4	✓	✓	✓ (2 user / 21 kN)
 CLT/GL24H	CLT MGS	✓	✗	✓ (1 user / 15 kN)
	GL24h XEPOX+VGS			
	LVL DISC FLAT	✓	✗	✗ (1 user / 15 kN)

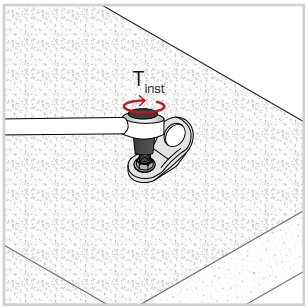
WING - WINGY - WING A4

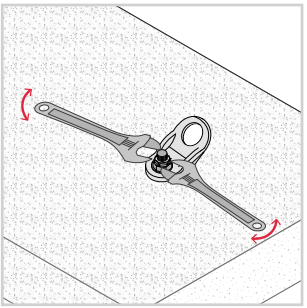
CONCRETE SUBSTRUCTURE

FOR AS 5532:2025 SEE PIC. A ON PAGE 15

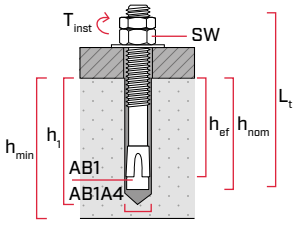


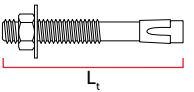






AB1/AB1A4





AB1

d	=	d_0 = M16		h_{ef}	=	85	mm
L_t	=	145	mm	SW	=	24	mm
h_1	≥	105	mm	T_{inst}	=	100	Nm
h_{nom}	=	97	mm	h_{min}	≥	170	mm

AB1A4

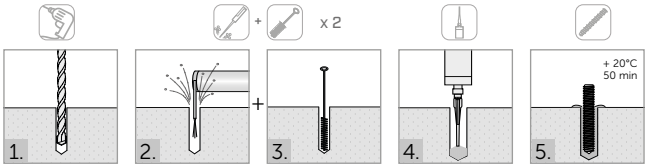
d	=	d_0 = M16		h_{ef}	=	85	mm
L_t	=	138	mm	SW	=	24	mm
h_1	≥	110	mm	T_{inst}	=	120	Nm
h_{nom}	=	96	mm	h_{min}	≥	170	mm

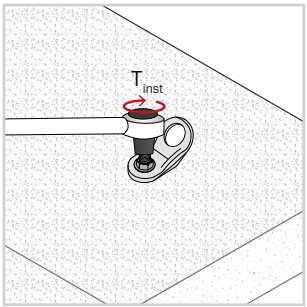
WING - WINGY - WING A4

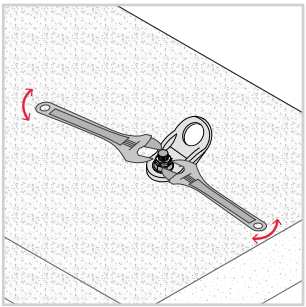
CONCRETE SUBSTRUCTURE

FOR AS 5532:2025 SEE PIC. B ON PAGE 15



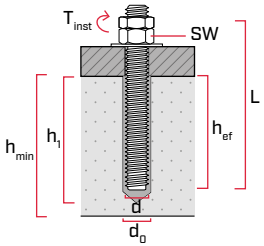


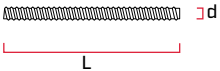




VIN-FIX

M16 - 8.8 min/A4





$128 \leq h_{ef} \leq 320$ mm

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

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

$h_{min} \geq 158$ mm

$d_0 = 18$ mm

$d = 16$ mm

SW = 24 mm

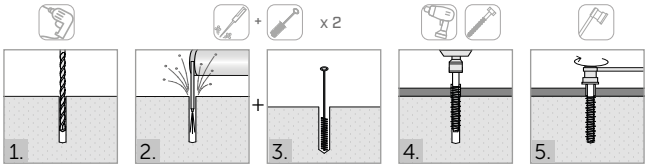
T_{inst} = 80 Nm

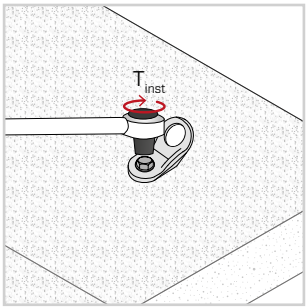
WING - WINGY

CONCRETE SUBSTRUCTURE

FOR AS 5532:2025 SEE PIC. A ON PAGE 15

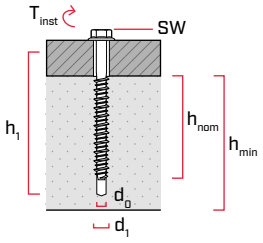


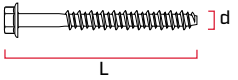




SKR

SKR 16 x 130 mm





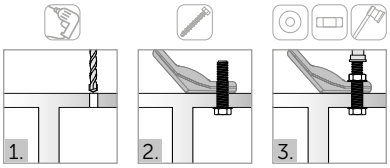
h_1	≥	140 mm	d_1	=	16 mm
d_0	=	14 mm	SW	=	21 mm
h_{min}	≥	170 mm	T_{inst}	=	160 Nm
L	=	130 mm	h_{nom}	≥	110 mm

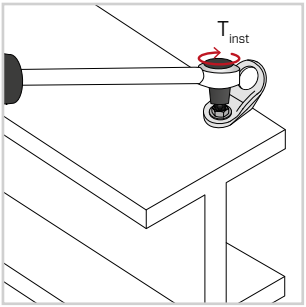
WING - WINGY - WING A4

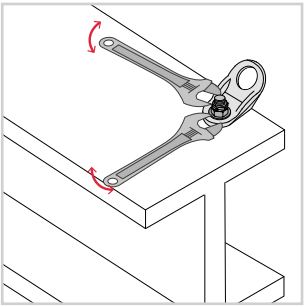
STEEL SUBSTRUCTURE

FOR AS 5532:2025 SEE PIC. B ON PAGE 15

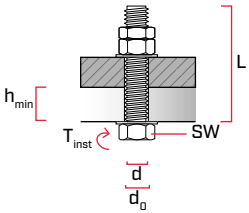








M16 - 8.8 min/A4





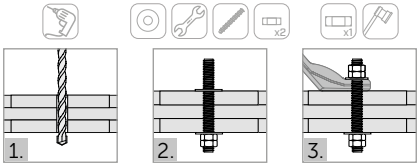
d	=	16 mm	SW	=	24 mm
d_0	=	16,5 mm	8.8	▶ T_{inst}	= 230 Nm
L	≥	50 mm	A2-A4	▶ T_{inst}	= 120 Nm
L	≥	h_{min}+40 mm			
h_{min}	≥	5 mm			

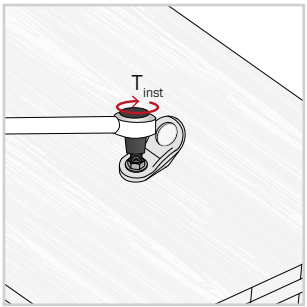
WING - WINGY

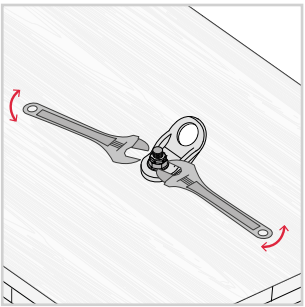
WOOD SUBSTRUCTURE

FOR AS 5532:2025 SEE PIC. A ON PAGE 15

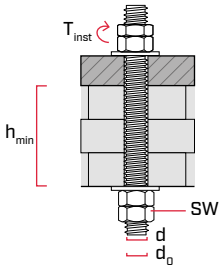


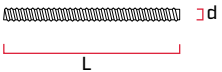






M16 - 8.8 min





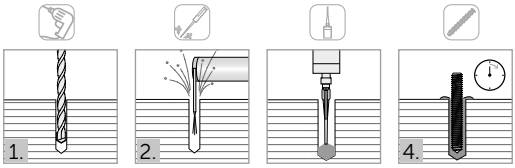
d	=	16 mm	SW	=	24 mm
d_0	=	16 mm	T_{inst}	=	100 Nm
L	≥	h_{min}+60 mm			
h_{min}	≥	100 mm			

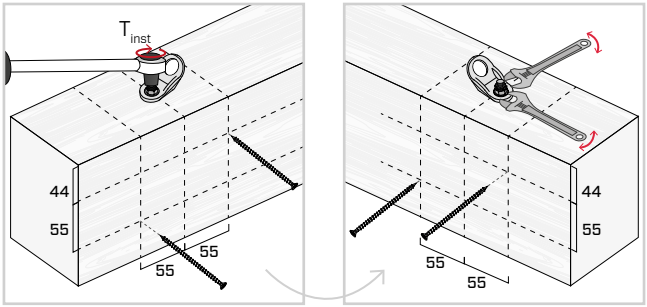
WING - WINGY

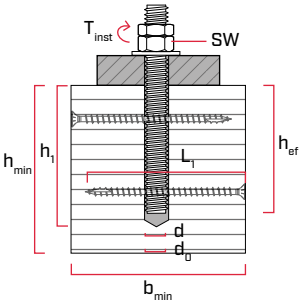
WOOD SUBSTRUCTURE

FOR AS 5532:2025 SEE PIC. A ON PAGE 15





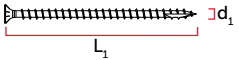




M16 - 8.8 min



VGS 11 x L_1 mm



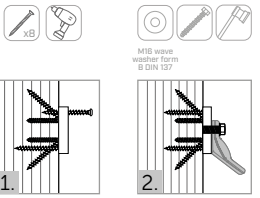
h_{min}	≥	160	mm	L	≥	175	mm
b_{min}	≥	100	mm	L	≥	h_{ef}+40	mm
d	=	16	mm	L_1	≥	100	mm
d_0	=	20	mm	L_1	≤	b_{min}	
h_{ef}	≥	130	mm	SW	=	24	mm
h_1	=	h_{ef} +5	mm	T_{inst}	=	100	Nm

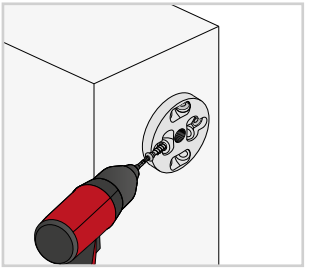
WING - WINGY - WING A4

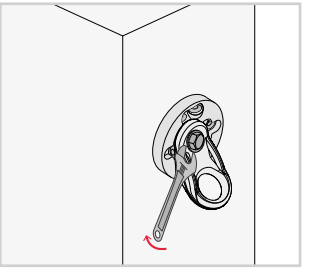
LVL SUBSTRUCTURE

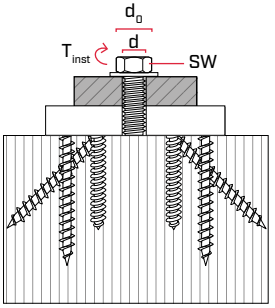
FOR AS 5532:2025 SEE PIC. B ON PAGE 15



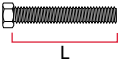




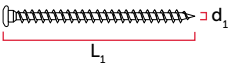




M16 - 8.8 min/A4

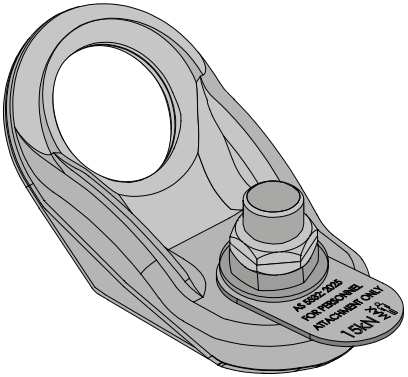


LBS 7 x L_1 mm

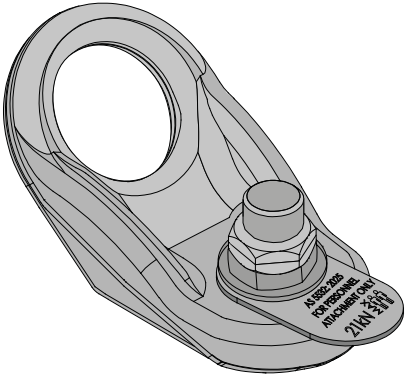


d	=	16 mm	SW	=	24 mm
d_0	=	16,5 mm	8.8	▶ T_{inst}	= 230 Nm
L	≥	50 mm	A2-A4	▶ T_{inst}	= 120 Nm
L	≥	h_{min}+40 mm			
h_{min}	≥	5 mm			

PICTURE A



PICTURE B





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07-26

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