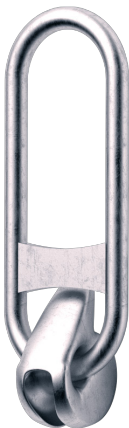




WASP

INSTRUCTIONS FOR USE



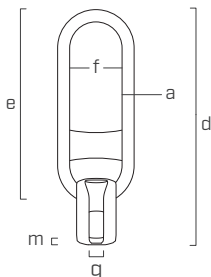
DM 2006/42/CE



MANUALS



GEOMETRY



CODES AND DIMENSION

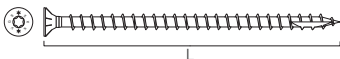
	a [mm]	d [mm]	e [mm]	f [mm]	g [mm]	m [mm]
WASP	12	185	157	40	12	8

SUITABLE SCREWS

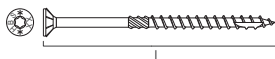


- Rothoblaas full threaded screw with countersunk head: **VGS Ø 11 mm**
- Rothoblaas partially threaded screw with countersunk head: **HBS Ø 10 mm**

VGS



HBS



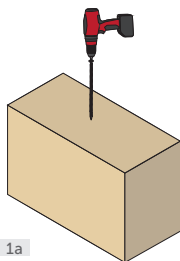
Only new and original Rothoblaas screws may be used for application with WASP anchor. It must be ensured that the screws are only screwed into solid, load-bearing wood. The screw must not be screwed into shrinkage cracks, knotholes or similar. The user is responsible for the application and verification of the required conditions.

For safety reasons the screws may only be used once!



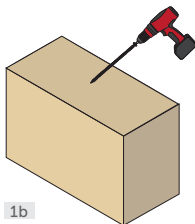
INSTALLATION MODE

SCREWS INSTALLATION



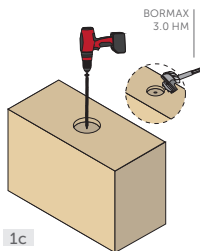
1a

1a. Perpendicular installation



1b

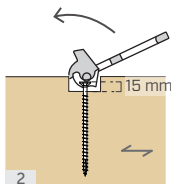
1b. Inclined installation



1c

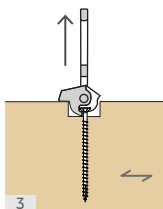
1c. Installation with milling

WASP INSTALLATION



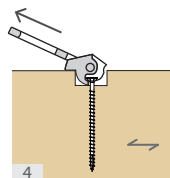
2

2. Insertion of the screw into the timber element to be lifted



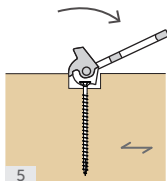
3

3. WASP positioning



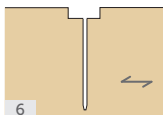
4

4. Lifting of the structure



5

5. WASP removal



6

6. Removing the screw (optional)

NOTES TO THE DESIGNER

The calculation of the resistance is based on the pull out resistance of the screw and the tensile strength of the screw.

Load bearing tables and calculation methods are available in the technical datasheet and manual, which are published on the website www.rothoblaas.com.

Only the above indicated screws are allowed for the use with WASP transport anchor.

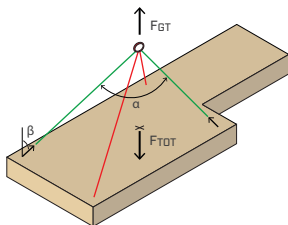
The attachment point of the crane must always be above the centre of gravity of the lifting element.

The load of the transported element must be known.

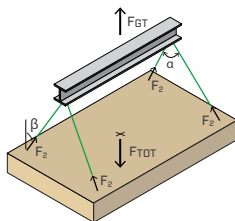
It must be ensured that the load is distributed equally over all WASP anchor points.

If more than 3 anchor points are used, it is strongly recommended to use a balancing traverse or similar. Otherwise not the total amount of anchors can taken in account.

Example:

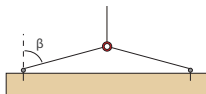


anchors: $n=2$ ❌

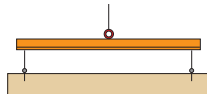


anchors: $n=4$ ✅

Try to use an angle as small possible. Angles greater than 60° are not permitted!



$\beta \geq 60^\circ$ ❌



$\beta = 0^\circ$ ✅

GENERAL SAFETY CONSIDERATIONS

In order to ensure a safe operation with the WASP transport anchor, the following considerations have to be respected:

- Not respecting the operating instructions can result in serious accidents and even death.
- The instructions for installation and use of the WASP system must be available at the place of use of the lifting anchor system, i.e. in the precast factory and on the construction site. The site management must ensure that the users of this system have taken note of the instructions for installation and use.
- Before each lift, all elements shall be checked for possible defects, material fatigue or abrasion.
- During the transport with the WASP anchor, the transported element has to be observed. If cracking noises occur at the connection point, the load must be immediately put down and the connection must be checked.
- Loads on which loose single items are lying must not be transported.
- Do not transport persons with the load.
- No persons should ever be under a lifted load. Keep a safe distance from the load



WARNING



MANUALS

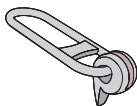


MAINTENANCE AND REGULARLY CHECKS

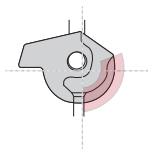
- Visual check before each use by operator.
- according to operating conditions, but at least once a year general check by qualified person

There is no fixed discard time for the WASP transport anchor, but it depends on the wear and tear. The transport anchor must be inspected as mentioned above to ensure that it is in safe operating condition. If any damage (Plastic deformations e.g. irreversible bending or punching, and cracks) are noticed, the anchor has to be replaced and can not be used anymore. Any repairs, in particular, welding on the hook are inadmissible.

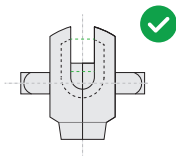
REPLACEMENT CRITERIA



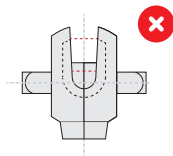
Isometric view of the WASP anchor. The part of the anchor that must be checked is highlighted in red.



Section view of the WASP anchor round head. The part of the eyelet subject to checking is highlighted in red.



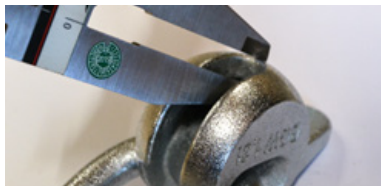
Bottom view of the WASP anchor round head. The distance between the flanges corresponding to the closure of the eyelet is equal to that of the opening of the eyelet. Check passed.



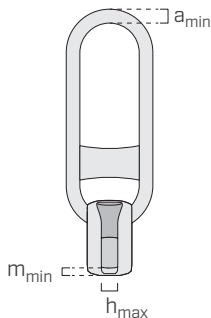
Bottom view of the anchor round head. The distance between the flanges corresponding to the closure of the eyelet is equal to that of the opening of the eyelet. Check NOT passed.

MINIMUM DIMENSIONS

anchor version	h_{max} [mm]	m_{min} [mm]	a_{min} [mm]
WASP	13,5	6,0	10,8



Method to measure minimum shank thickness m_{min}



IT Se il manuale non è disponibile nella lingua locale, contattare il produttore prima dell'uso. **DE** Wenn das Handbuch in der Landessprache nicht verfügbar ist, bitte vor der Verwendung den Hersteller kontaktieren. **EN** If the manual is not available in your local language, please contact the manufacturer before use. **ES** Si el manual no está disponible en el idioma local, contactar con el fabricante antes de usar el producto. **FR** Si le manuel n'est pas disponible dans la langue locale, veuillez contacter le fabricant avant l'utilisation. **PT** Se o manual não estiver disponível na sua língua local, contacte o fabricante antes de o utilizar. **RU** Если руководство недоступно на местном языке, свяжитесь с производителем до начала эксплуатации. **CS** Pokud návod není k dispozici v místním jazyce, kontaktujte před použitím výrobce. **DA** Hvis manualen ikke er tilgængelig på det lokale sprog, skal du kontakte producenten før brug. **EL** Εάν το εγχειρίδιο δεν είναι διαθέσιμο στην τοπική γλώσσα, επικοινωνήστε με τον κατασκευαστή πριν από τη χρήση. **ET** Kui juhend pole teie kohalikus keeles saadaval, võtke enne kasutamist ühendust tootjaga. **FI** Jos opasta ei ole saatavilla paikallisella kielellä, ota yhteys valmistajaan ennen käyttöä. **HR** Ako priručnik nije dostupan na lokalnom jeziku, obratite se proizvođaču prije upotrebe. **HU** Amennyiben a kézikönyv nem áll rendelkezésre az Ön nyelvén, a használat előtt vegye fel a kapcsolatot a gyártóval. **IS** Vinsamlegast hafðu samband við framleiðandann ef að leiðbeiningarnar eru ekki áanlegar á þínu tungumáli. **LT** Jei instrukcija nėra pasiekiamą jūsų kalba, prieš naudodami susisiekite su gamintoju. **LV** Ja rokasgrāmata nav pieejama jūsu vietējā valodā, lūdzu, pirms lietošanas sazinieties ar ražotāju. **NL** Als de handleiding niet beschikbaar is in uw plaatselijke taal, neem dan vóór gebruik contact op met de fabrikant. **NO** Hvis veiledningen ikke er tilgjengelig på det lokale språket må du kontakte produktet før bruk. **PL** Jeśli instrukcja nie jest dostępna w języku lokalnym, przed użyciem należy skontaktować się z producentem. **RO** Dacă manualul nu este disponibil în limba locală, adresați-vă producătorului înainte de utilizare. **SK** Ak návod nie je k dispozícii vo vašom jazyku, pred použitím kontaktujte výrobcu. **SL** Če priročnik ni na voljo v lokalnem jeziku, se pred uporabo obrnite na proizvajalca. **SV** Kontakta tillverkaren före användning om handboken inte finns tillgänglig på lokalt språk. **TR** Eğer kılavuz ülkenizin dilinde mevcut değilse, ürünü kullanmadan önce üretici ile iletişime geçiniz. **JA** ご使用言語のマニュアルがない場合は、使用前に製造元にお問い合わせください。 **ZH** 如果该手册没有当地语言版本，请在使用前联系制造商。 **AR** إذا لم يكن دليل المستخدم متوفرًا بلدي، يرجى الاتصال بالمتخصص قبل الاستخدام. **MT** Jekk il-manwal mhux disponibbli fil-lingwa lokali, ikkuntattja l-manifattur qabel l-użu. **BG** Ако ръководството не е налично на Вашия местен език, моля, свържете се с производителя преди употреба. **GA** If the manual is not available in your local language, please contact the manufacturer before use.

For further information please visit our website: www.rothoblaas.com



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