

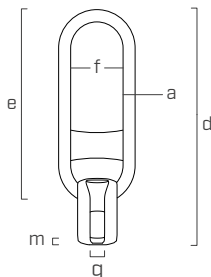


WASP

INSTRUCTIONS FOR USE



GEOMETRY



CODES AND DIMENSION

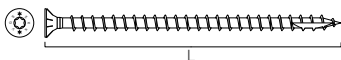
	a [mm]	d [mm]	e [mm]	f [mm]	g [mm]	m [mm]
WASP	12	185	157	40	12	8

SUITABLE SCREWS

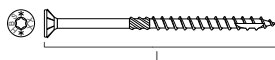


- Rothoblaas full threaded screw with countersunk head: **VGS Ø 11 mm**
- Rothoblaas partially threaded screw with countersunk head: **HBS Ø 10 mm**

VGS



HBS



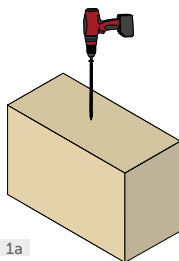
Only new and original Rothoblaas screws may be used for application with WASP anchor. It must be ensured that the screws are only screwed into solid, load-bearing wood. The screw must not be screwed into shrinkage cracks, knotholes or similar. The user is responsible for the application and verification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

For safety reasons the screws may only be used once!

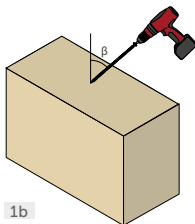


INSTALLATION MODE

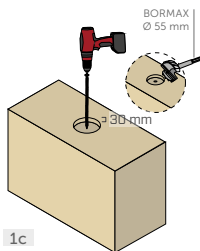
SCREWS INSTALLATION



1a. Perpendicular installation

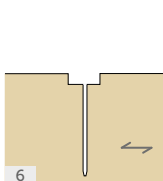
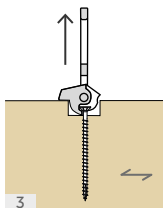
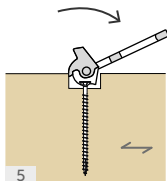
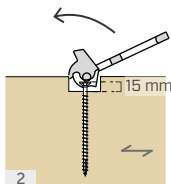


1b. Inclined installation



1c. Installation with milling

WASP INSTALLATION



2. Insertion of the screw into the timber element

3. WASP coupling

4. Lifting of the structure

5. WASP removal (uncoupling)

6. Removing the screw (optional)

NOTES TO THE DESIGNER

The calculation of the resistance is based on the pull out resistance of the screw, the tensile strength of the screw, and the maximum permitted load on the WASP.

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.

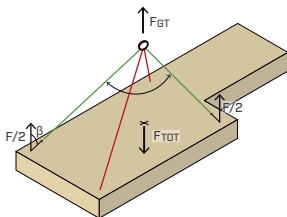
The attachment point of the crane must always be above the centre of gravity of the lifting element.

The load of the transported element must be known.

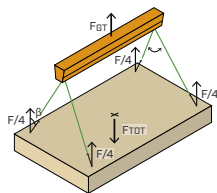
It must be ensured that the load is distributed equally over all WASP anchor points.

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 be taken in account.

Example:

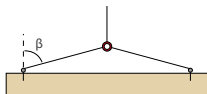


anchors: $n=2$ ❌

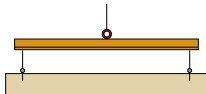


anchors: $n=4$ ✅

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



$\beta \geq 60^\circ$ ❌

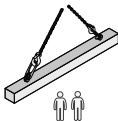
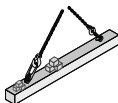


$\beta = 0^\circ$ ✅

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

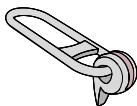


MAINTENANCE AND REGULARLY CHECKS

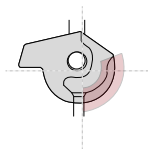
- Visual check before each use by operator
- According to operating conditions, but at least once a year general check by qualified person

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.

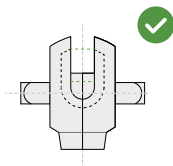
VISUAL CHECK OF ANCHOR ROUND HEAD



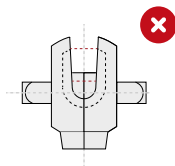
Isometric view of the WASP anchor. The part of the anchor that must be checked is highlighted in red.



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

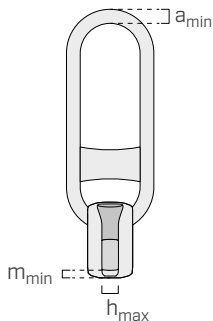


Bottom view of the WASP anchor round head. The distance between the flanges corresponding to the closure of the eyelet is equal to that of the opening of the eyelet. **Check passed.**



Bottom view of the anchor round head. The distance between the flanges corresponding to the closure of the eyelet is different 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

If one of the mentioned dimension is no longer maintained, the transport anchor must be discarded and must not be used any further.



Method to measure minimum shank thickness m_{min}

For further information, detailed user manual, load tables and the latest news, please visit our website: **www.rothoblaas.com**



Rotho Blaas SRL

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



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