USER MANUAL
ANCHOR POST FOR FORMWORK
SAS H
SAS P
SAS D
SAS U

TYPE A ANCHOR POINT

For one or two users

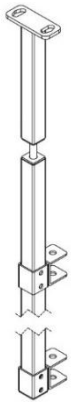
Maximum load allowed – depending on the configuration used:

1 person if belaying from a horizontal lifeline tensioned between two anchor posts

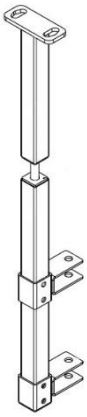
2 persons if belaying directly from a single anchor post for formworks

Read the manual carefully before use!

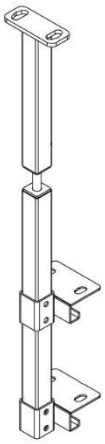
Type for DOKA formworks



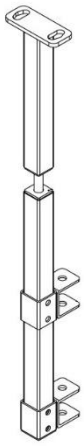
Type for PERI formworks



Type for HÜNNEBECK formworks



Type for ULMA formworks



MANUFACTURER'S DETAILS

ROCK MASTER	Manufacturer's logo
SAS H,SAS P, SAS D, SAS U	Manufacturer's trade name
2 person	Maximum load allowed
EN 795:2012 – A	Number of the EU standard applicable to the device
	An indication to read the user manual before using the device

DESCRIPTION & DESIGN OF THE DEVICE

According to EN 795:2012 anchor points of type A are permanent anchor points. This means that they are permanently attached to structure parts and both installing them as well as disassembling them requires additional tools and connecting parts.

The type A anchor device developed by CBR Rock Master contains an anchor post and a set of sockets and screws for installing it onto a surface.

The anchor posts connect to the horizontal ribs of the formwork with particularly shaped attachments, the shape of which is matched to a particular model of formwork, depending on the manufacturer. The solution developed at CBR Rock Master can be used with formwork from Doka, Hünnebeck, Ulma and Peri.

The post can be used for installing a self-retracting lanyard or as a component in another fall protection system, so that the user is belayed while working or moving around the formwork walls.

The tapered middle part of the post serves to improve fall energy absorption abilities and protects the formwork wall from forces released when arresting a fall. This sort of integrated energy absorber protects the surface to which the post is mounted – in this case, the transversal ribs of the formwork wall – from deformation.

The system parts are quite lightweight, which makes it possible to install the anchor post to a part of the formwork wall when still on the ground, thus eliminating the need for risky installation work at height.

In this way, the operator can use the post for belaying from the ground level up, keeping the fall factor to a minimum.

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GENERAL RULES FOR USING PROTECTIVE EQUIPMENT FOR SAFE WORK AT HEIGHT

INTRODUCTION

- Fall protection equipment should only be used by persons in good health and shape, with no contraindications to performing work at height and who have been adequately trained by a competent and authorized representative of the manufacturer.
- Fall protection equipment should only be used as indicated and designed. The incorrect use or incorrect combination of fall protection equipment can cause severe personal injury or death..
- It is strictly forbidden to modify the device or tamper with it. Any such action shall void the warranty.
- All repairs must be undertaken only by the manufacturer or by persons authorized by said manufacturer.
- Before commencing work using fall protection equipment it is essential that a rescue procedure, and, first and foremost, an adequate set of rescue equipment are in place.
- Work using fall protection equipment is to be carried out only under the guidance of a competent supervisor.

USING THE DEVICE

- Before commencing work, the user has to:
  - read the user manual carefully
  - learn (and train) all basic rescue procedures and techniques
  - check the condition of the device (all parts working correctly, no damage, no wear and tear, no corrosion/'rust, no abrasions) and the correct assembly of all parts of the system as well as whether all parts fulfill the requirements of corresponding standards. The technical condition of all parts of the protection system is to be checked upon completing work as well.
  - check, whether parts of the system do not interfere with one another.
- It is forbidden to use the equipment if any of the parts does not work correctly.
- The only allowed PPE for fall arrest are harnesses according to EN 361
- It is only allowed to attach the self-retracting lanyard to the harness at the connection point marked with the capital A.
- While working with fall protection equipment, proper anchor points according to EN 795 have to be used; there has to be sufficient space below the worker, exceeding the length of fully deployed self-retracting lanyard.
- The fall protection system should be fitted and fastened in a way that reduces the risk of falls and/or their potential length to a minimum. There has to be sufficient space below the worker. Also the distance required for fall absorption (the length of the deployed fall absorber) and the fall distance have to be considered.
- Exercise caution while working in difficult or demanding conditions: avoid extreme temperatures and weather as well as caustic substances.
- After a fall has been arrested, the device is to be retired! A device that has been retired is to be destroyed!, i.e. rendered non-usable.

If there are any doubts about the technical condition of a piece of equipment, it should be retired. Such a device can be reused only after a full inspection has been carried out by the manufacturer and a written approval has been issued

INSPECTIONS AND MAINTENANCE

- The device functioning correctly is crucial to preserving the user's health and safety; therefore, regular inspections are necessary.
- An inspection is to be carried out at least once per year (at least every 12 months). An inspection can be carried out by a competent authorized person; for more complex devices, an inspection is to be carried out by the manufacturer or a person authorized by the same in writing. Check the technical condition of the device as well as the function and all the markings, which need to be clearly visible. If the result of the inspection is unsatisfactory, the device should be retired.
- All information in regard to the equipment, including the periodic inspection results, shall be recorded in its designated logbook by the persons responsible for storing and maintenance. It is forbidden to use any equipment if its corresponding logbook has not been maintained properly and/or does not contain crucial information, if documents are missing or incomplete or if the equipment's history is unclear/unknown.
- The equipment's lifespan depends on environmental conditions, any harmful factors present, the intensity of use, and storage conditions.
- The maximum allowed lifespan for textile parts is prescribed by the manufacturer and not longer than 15 years from date of manufacture or 10 years from the date of first use. The lifetime of metal parts is not limited. It is however recommended to replace the device after 10 years.
- A device is to be retired if the maximum lifetime given by the manufacturer has been exceeded. The manufacturer can retroactively change the lifetime of a specific type of product and publish this information eg. on their website.
- To clean the device, wash it with clear, lukewarm water (up to 30°C), using a soft wipe; for more persistent dirt, use natural soap. Leave the device to dry in room temperature.
- The device can be sanitized using spray disinfectants.
- Only silicon-based spray grease can be applied to metal devices, if needed. Any excessive grease on the surface touching the rope or on the outside can be removed using a clean wipe.

STORING AND TRANSPORTING

- To ensure the longevity of equipment, when not in use, store it in its original packaging in a dry, ventilated place, at room temperature.
- Make sure to avoid exposure to dust and salty environments, high temperatures, harmful and corrosive substances, abrasive and sharp surfaces and edges when storing and transporting the equipment.
- Do not leave the equipment out where it is directly exposed to sunlight

Before use, familiarize yourself with the below information on the correct handling of the A type anchor device for use on formwork; the information complements the general instructions for use of fall protection equipment and/or builds on them.

The A type anchoring device for use on formwork can be used in combination with other parts and devices to create a full fall protection system.

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DETAILED INSTRUCTIONS FOR USE

Before use, familiarize yourself with the below information on the correct handling of the A type anchor device for use on formwork; the information complements the general instructions for use of fall protection equipment and/or builds on them.

The A type anchoring device for use on formwork can be used in combination with other parts and devices to create a full fall protection system.

SCOPE OF USE:

Applicable standard: The anchor device conforms to EN 795A:2012

Load limit: 2 PERSONS OR 1 PERSON/100 kg

If one single anchor post is used, two persons can belay off it. If there are two anchor posts and a horizontal lifeline, this setup can only be used as belay for one person. If the setup consists of more than two anchor posts, each length of lifeline can be used as belay by one person only. The distance between the anchor posts should not exceed 6 m.

Allowed temperature range: -30°C ÷ +50°C

NOTE

Each piece of equipment should be accompanied by a set of instructions for its use, maintenance and periodic inspections and repairs in the language of the future user's country.

LIFETIME AND INSPECTIONS

Standard wear and tear is to be expected when the device is used as designed and not exposed to any harmful environmental factors. It is however recommended to replace the device after 10 years.

The device should be inspected before and after every use by the user.

That notwithstanding, the device has to be inspected at least once every 12 months. The inspection is to be carried out by the manufacturer or a person authorized by the same in writing and is to follow the checklist provided by the manufacturer.

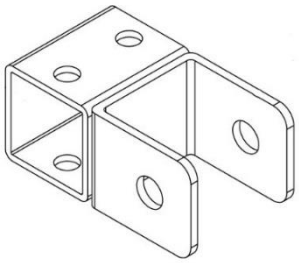
If a fall has been arrested, a TYPE A anchoring device is to be retired immediately!

INSTALLATION:

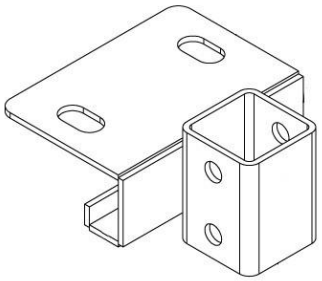
The person performing the installation work (user) must be equipped with the proper fall protection/fall arrest PPE before commencing any work.

First of all, consider the type of formwork at hand. There is a number of sockets available depending on the manufacturer, ie. the following types:

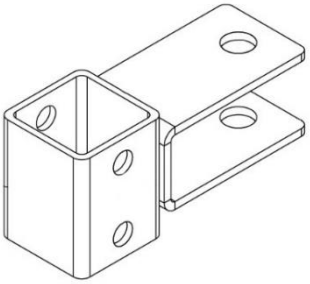
ORMA



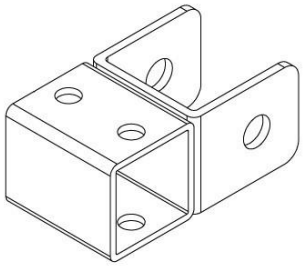
MANTO



TRIO



FRAMAX



- To install a socket, a set of screws is needed; one anchor post requires two sockets.
- The safety system using the anchor post or posts is prepared at ground level, when the formwork is still laid out flat on the ground.
- Place two sockets on the transverse ribs of the formwork wall in a straight line, one above the other. Their spacing depends on the anchor holes of the post.
- Install the anchor post on the formwork wall above the planned entry point, following a straight line so that it's placed directly above it.
- Fix the position of the post on the technical holes of the formwork ribs and insert the clamps of the formwork post from the front side of the ribs.
- The upper clamp is attached to the uppermost element, which is the frame of the structure, and the lower one to the one below – according to the spacing of the anchor holes of the post.

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- Using the following sets: bolt, 2 flat washers and nut (diameter and length of the bolt matching the thickness of the formwork module's structural elements), screw the top and bottom clamps to the structural elements of the formwork in turn.
- The post is inserted from the top in such a way that it is placed in both sockets at the same time and that its holes coincide with the fixing holes of the sockets.

The anchor holes of the post should coincide with the socket holes

- When inserting the post from above, align and adjust the position of the holes in the post profile and the profile of the lower clamp. Fix the post to the lower clamp with two M12x80 mm bolts, using flat washers and nuts to connect the post with the socket.

NOTE:

The post should be positioned in such a way that the anchor points at its top run along the formwork wall – this will allow to potentially expand the safety system into a horizontal lifeline according to EN 795 B.

SETTING UP A SAFETY SYSTEM USING ANCHOR POSTS

1. **For formwork walls not broader than two meters:**
   - Attach a SRL of such a length that it is possible to use it from ground level, so before the operator commences climbing on the formwork wall. The length should therefore at least equal the height of the formwork wall.
   - Put a slim accessory cord on the connector at the end of the SRL cable, long enough to reach ground level.
   - Attach the end of the accessory cord to the base of the formwork wall, so that, when the wall is erected and vertical, the user can reach it.
   - The accessory cord will allow the operator to pull down the connector of the SRL to attach it to the belay point on their harness – it is not allowed to extend the cable of the SRL and leave it in this position, attached to the base of the structure; this might damage the internal spring and, in turn, the function of the device.

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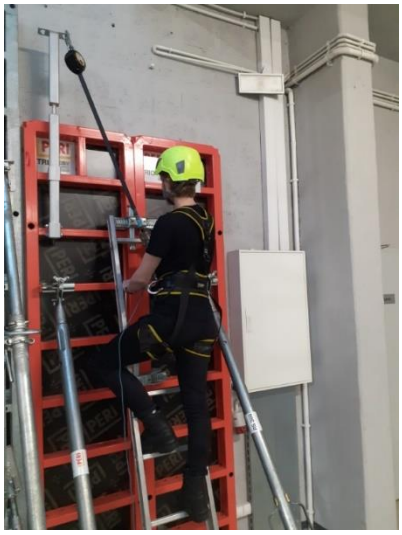
It is also possible to use a system of two anchor posts installed on one wall (no broader than 2 m) and belaying using a double fall arrest lanyard. The spacing of the posts will allow the operator to clip in and out between them without losing belay.

Such a safety setup allows the operator to work on a formwork wall without risking a fall from height, as the system is installed on ground level. A SRL anchored to the top of the post will allow the operator to belay while working off a portable ladder leaned on the formwork wall.



2. **For formwork walls broader than two meters:**
   - The risk of a serious fall swing is high when working further from the anchor post; therefore, only a horizontal lifeline is an accepted fall protection solution,
   - Dynamic and static load tests using the weight of 1 person were performed according to the requirements of EN 795 type B for this system of two posts connected by an 18x7-WSC galvanised steel cable with a diameter of 8 mm.
   - The manufacturer allows setting up of fall protection systems according to EN 795 type B, provided they are tensioned with a force not greater than 700 N.
   - It is permitted for one person to manually tension a FineLine rope or webbing with a force of no more than 700 N.
   - Mechanical tensioning by means of a so-called "ratchet" is also possible. Ten clicks – a tension range of ten teeth – usually correspond to a force of 700 N, which is acceptable for a length of 6 m.

When setting up systems where the distance between posts exceeds 6 m, it is recommended to use an intermediate point.

If using a system with a an 18x7-WSC galvanised steel cable with a diameter of 8mm, the minimum safety distance (MSD) is calculated as follows:

$$MSD = \mathrm{B} + \mathrm{C} + \mathrm{D} + \mathrm{E}\ [\mathrm{m}]$$

- A – the maximum horizontal distance between anchor points of the horizontal lifeline. If A exceeds 6 m, it is recommended to incorporate an intermediate anchor point in the system.
- B – cable stretch
- C – the total length of other functional parts between the lifeline and the dorsal point on the user's harness,
- D – theoretical distance from the attachment point of the safety lanyard on the user's harness to the user's feet. Assume that D = 1,5 m.
- E – clearance underneath the user after a hypothetical fall. Assume that E = 1 m.
- If tensioned tape is used, tfind information on the stretch in the manufacturer's documentation and add 1 m for the allowed deflection of the SAS anchor posts
- If using a system with a an 18x7-WSC galvanised steel cable with a diameter of 8mm, assume the deflection of the system as 2 m.

  The anchor post system was designed in such a way, that the posts extend by 110 cm over the top edge of the formwork wall. If the operator uses a SRL, the MSD equals CS + MSD for the given SRL, where CS is the cable stretch.

TYPE A FORMWORK ANCHOR POINT – LOGBOOK

The owner and sole user of the equipment is responsible for keeping to logbook updated and complete. Before the equipment is first issued, the logbook should be completed by the person responsible for stock keeping with all necessary information in regard to the equipment (name, type, serial number, date of purchase, catalogue number, the manufacturer's name). Information on periodic inspections is entered by the manufacturer or their authorized representative.

NOTE:

It is forbidden to use any PPE for which no logbook is present or is incomplete.

DEVICE NAME:	
MANUFACTURED BY: ROCK MASTER SAFE WORK AT HEIGHT	**DATA PRODUKCJI: DATE OF MANUFACTURE:**
PART:	**SERIAL NUMBER:**
DATE OF PURCHASE:	**FIRST USED ON:**

INSPECTION AND REPAIR HISTORY

No.	DATE	REASON	RESULT	NEXT INSPECTION (DATE)	INSPECTOR'S SIGNATURE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

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TYPE A FORMWORK ANCHOR POINT – WARRANTY CARD

THANK YOU FOR PURCHASING A ROCK MASTER PRODUCT

Congratulations on the purchase of your new equipment. Please remember that to enjoy it safely and for a long time it is crucial to use it correctly, according to its design and purpose.

Should you need to use services covered by the warranty, please get in touch directly with the manufacturer or with a customer service and/or repair shop authorized by the manufacturer.

Before reaching out for service, please read the manual carefully.

DEVICE NAME:	
TYPE:	**SERIAL NUMBER:**
MANUFACTURED BY: ROCK MASTER SAFE WORK AT HEIGHT	
DATE OF MANUFACTURE:	**DATE OF PURCHASE:**
WARRANTY PERIOD **12 months from purchase, until:**	

WARRANTY CONDITIONS

1. Rock Master sp. z o. o. sp. k. provides a 12-month warranty for the correct function of the device, starting from purchase.
2. The warranty only covers manufacturing faults.
3. Any fault discovered should be reported to the manufacturer or to a customer service and/or repair shop authorized by the manufacturer.
4. The manufacturer guarantees that any faults discovered during the warranty period will be checked at no cost and removed at no cost within 14 or 21 days since they were reported. The warranty period is extended by the time needed for repairs.
5. In case of any complaints, it is only possible to replace the faulty product if the repairs undertaken are unsuccessful and the manufacturer deems the product impossible to repair.
6. The warranty card is only valid together with proof of purchase and is the only basis for any warranty service.
7. When purchasing, you declare to have read and accepted the warranty conditions.

NOT COVERED BY THE WARRANTY

1. The product is to be used only as designed, any other use is not covered by the warranty.
2. Any repairs by unauthorized persons, tampering or modifications void the warranty.
3. Any normal wear and tear (scrapes, scratches, slight chafing of the protective or decorative coating) is not covered by the warranty.
4. The warranty does not cover normal maintenance work required for the device to function properly or inspections necessary during the warranty period.

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