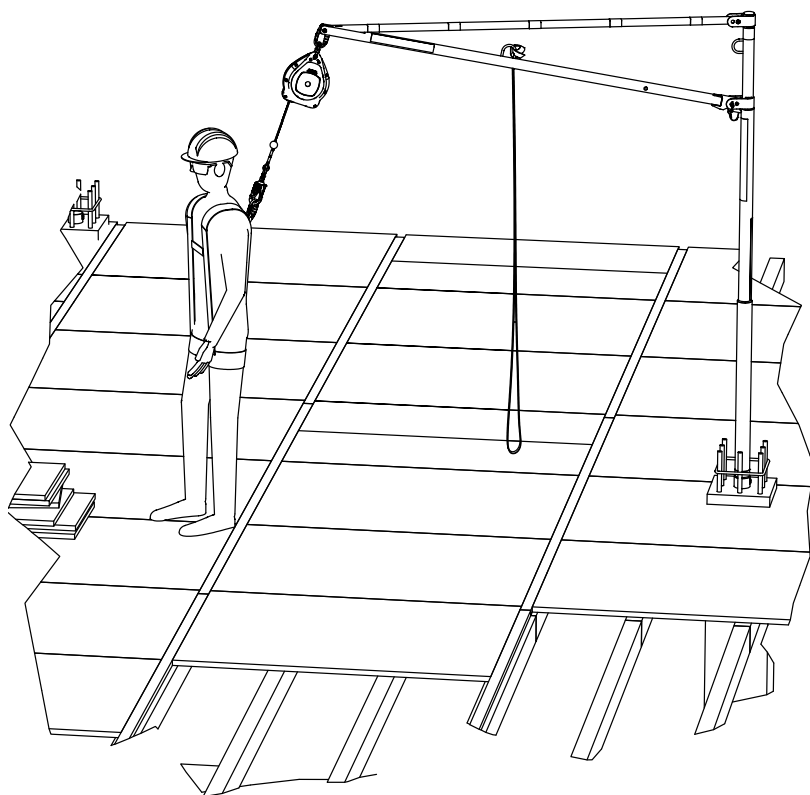


# Honeywell

## COMBISAFE®

### 8100 SkyReach Anchor



## USER INSTRUCTIONS

CE 0158 - EN 795:2012-B

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## General

The SkyReach Anchor is a product that has been designed to prevent falls from heights, mainly during all work associated with decking for horizontal formwork operations. Together with specific attachments and certified Personal Fall Protection Equipment (PFPE) it will create a personal fall protection system which contributes to a safe workplace.

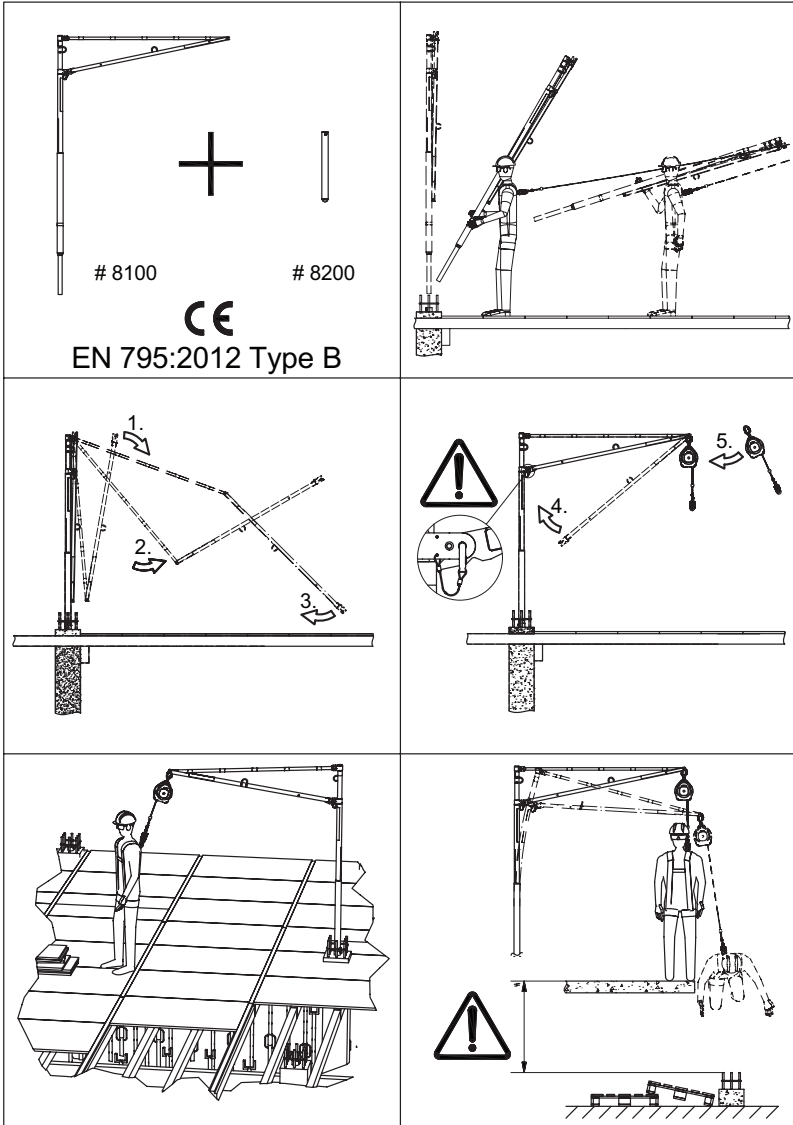
The SkyReach Anchor is also compatible to use with the COMBISAFE Loading System MkII, which allows you to load and unload flatbed vehicles in a safe manner.

The SkyReach Anchor is 3,1 metres high and the anchor boom is 2 metres long which allows the system to cover a working radius of up to 8.5 metres and gives access to a surface area of close to 230 m<sup>2</sup> when used in conjunction with a Falcon 6.2 m retractable fall arrest block. Due to the lightweight design of the SkyReach Anchor, it can be manoeuvred and installed by a single person, and it can also be moved by crane if that is preferred.

The SkyReach Anchor is tested to comply with EN 795:2012 Type B standard, and is CE-certified by DEKRA Testing and Certification GmbH, Dinnendahlstraße 9, 44809 Bochum, Germany, with identification nr O158.

Read carefully through this user instruction before using the product. In case of questions and uncertainties, please contact Combisafe for support.

### Quick Guide



## Safety instructions

**The SkyReach Anchor is intended for the purpose stated in this user instruction only, any other use is not allowed. The SkyReach Anchor is a personal fall protection anchor device, used to protect workers operating at height. If used incorrectly there is a potential risk of accidents to both the user and other people in the vicinity. Please read this manual carefully before use.**

- Under no circumstances may the product be used as a makeshift crane or lifting/lowering device.
- Under no circumstances may any item other than those provided with the system be used either in replacement or through choice as this may affect the performance of the product.
- Care should be taken in the transportation of the product between locations. If any damage is found on any part, the item must be withdrawn from use, inspected by a trained person and replaced if required.
- Care should be taken while installing the product and if any damage occurs or is found on any part, the item must be withdrawn from use, inspected by a trained person and replaced if required.
- The site location where the SkyReach Anchor is being used must have a rescue plan in place, in the event of a fall arrest incident.
- The device is designed for use by one person at a time only. Under no circumstances may multiple persons be attached to the device.
- If a crane is used as lifting device, be aware of the movements made by the crane and keep workers at a safe distance.
- The SkyReach Anchor is designed to be used within a zero factor fall arrest system. Make sure that the anchorage is always overhead and the self-retracting lifeline is taut between the anchorage point and the worker.
- The maximum vertical deflection of the anchor point that can occur during service is 0,7 m.
- In case that SkyReach Anchor is re-sold outside the original country of destination, it is essential that the reseller provides user instructions in the language of the country in which the system is to be used.
- When referring to included components not produced by Combisafe, please refer to the specific user guide / manual for that specific item.

- When using a retractable fall arrest block, the certification of this product is only valid when the prescribed block is used, hence it is tested and approved in combination with the SkyReach Anchor.
- PFPE that is used together with the SkyReach Anchor must be CE-certified and approved in the specific country of use.
- It is forbidden to use the products stated in this user instruction if pregnant, suffering from cardiovascular disease, affected by alcohol or drugs or other health issues that might affect your mental or physical capacity.

## Always check products and equipment before use

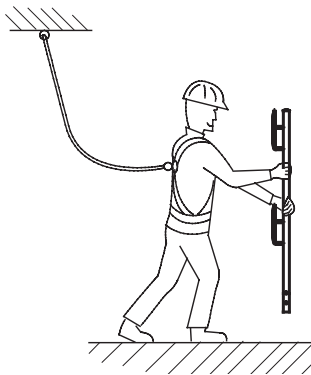
Check all component parts of the SkyReach Anchor before assembly. Never use damaged or rusty parts, as this can affect safety. Refer to the check list in the *Maintenance* chapter which must be followed prior to use.

## Never combine products

It is not recommended to install, combine or interconnect products other than those supplied by Combisafe. Combisafe product liability is limited to correctly installed Combisafe products only.

## Always use Personal Fall Protection Equipment

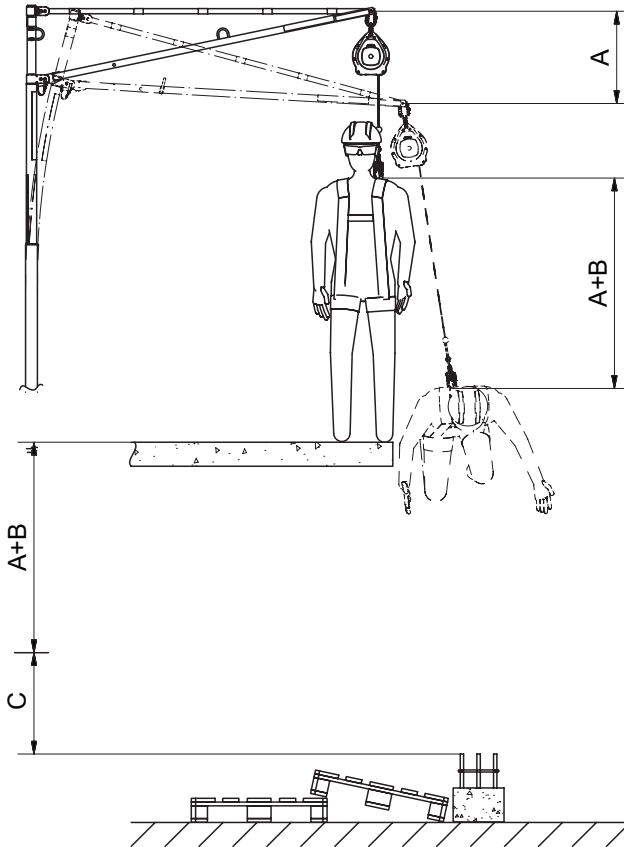
Personal Fall Protection Equipment (PFPE) must always be worn during assembly and dismantling when a risk of falling exists, see Figure 1. This also applies to work carried out from MEWPs (Mobile Elevating Working Platforms).



**Figure 1.** *Personal Fall Protection Equipment*

### Fall clearance

Note that it is necessary that enough free distance is verified to closest underlying object, see Figure 2 below.



**Figure 2.** Explanation of fall clearance

- A: 0,7 [m] Vertical deflection of the SkyReach Anchor Point
  - B: X Braking distance of the PFPE. Please refer to the manufacturer's user instructions for specific value.
  - C: 1 [m] Safety distance.
- Total required fall clearance =  $A+B+C$

## Periodic inspection/inspection after a fall

To ensure the function and safety of the components, a safety inspection of the SkyReach Anchor, the attachments and the PFPE, needs to be done by a competent person at least once every 12 months. The inspections must be documented into a component record.

If an accident has occurred, e.g. a person has fallen, the items must be immediately withdrawn from use and inspected by a competent person according to the manufacturer's safety check.

Please contact Combisafe for more information regarding inspections and associated documentation.

### — NOTE —

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**The SkyReach Anchor is designed to deform if a fall occurs, to absorb the energy and reduce the arising forces. When tested, the maximum vertical deflection of the anchor point is 0,7 m.**

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## Rescue

If there is a need to rescue a person that has fallen, the SkyReach Anchor can provide help by using a SafEscape Elite (Part No. CM1028770) and Webbing Anchorage Sling (Part No. CM1002918). By looping the sling round the lower section of the mast of the SkyReach Anchor, a rescue operation can be performed. It is not allowed to connect the SafEscape to the anchor point of the SkyReach Anchor. Remember that a rescue operation can only be performed by a person that has been trained to use the SafEscape. Thus, no rescue method can be described in this User Instruction. The operation needs to be planned by the Safety Manager at the site and evaluated to the actual case with a separate risk analysis.

## Remember

- Plan the fall prevention at an early stage, this will benefit everyone.
- Use only safety-checked products.
- Restrict access below and around the installation and working area to prevent injury to others from any fall hazard.
- Use tools designed for the type of work to be carried out.
- Keep the installation area in order.
- A safe workplace is a good workplace.
- Many fall accidents occur from a low height.



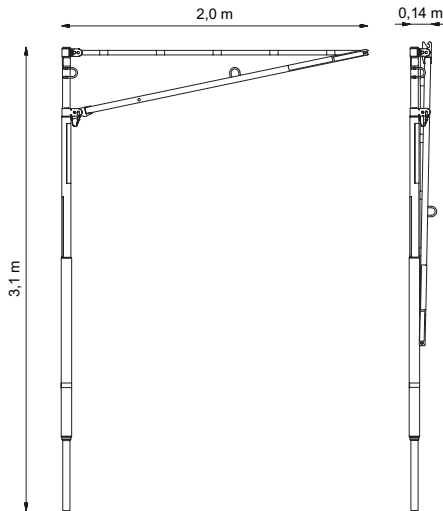
## Technical data

### SkyReach Anchor

The SkyReach Anchor is designed to be a lightweight product and is easily foldable for moving and configured to be space-saving when transporting or storing the item, see Figure 3. To secure both positions (assembled mode and folded mode) the attached Lock Pin is used. Due to the lightweight design of the SkyReach Anchor it can be installed by a single person.

Incorporated to the SkyReach Anchor there are two pieces of 2 m Endless Webbing Sling (100605) which allows the product to be lifted by crane if needed. For this purpose there are two lifting eyes on SkyReach.

Material:.....Hot-dip galvanised/painted steel  
 Weight:.....25 kg  
 Height:.....3,1 m  
 Assembled width:.....2,0 m  
 Packed width:.....0,2 m

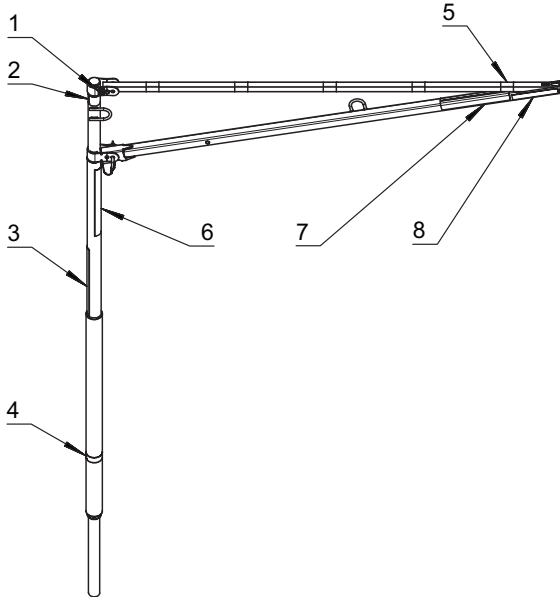


**Figure 3.** SkyReach Anchor in assembled mode and folded mode

### SkyReach Anchor Labels and Markings

Figure 4 below shows all the labels and markings of the SkyReach Anchor.

The following figures (Figure 5, Figure 6 and Figure 7) are showing these important elements.



**Figure 4.** Labels and markings on the SkyReach Anchor

- 1. ID Plate
- 2. Reflective Tape
- 3. Anti Slip Grip Tape
- 4. Insertion Marking Label
- 5. 5 x Reflective Tape
- 6. Combisafe Label
- 7. Anti Slip Grip Tape
- 8. Product Information Label



Figure 5. A close-up of the ID Plate which includes the serial number.

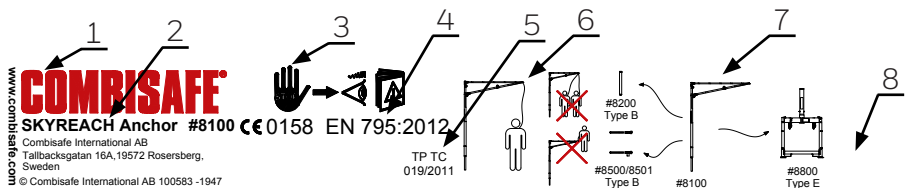


Figure 6. Detailed view of the Product Information Label

1. Manufacturer.
2. Name of the product.
3. Pictograms: Read user instruction before use.
4. Identification number of the notified body; DEKRA Testing and Certification GmbH, responsible for CE production quality control. Compliance with EN 795:2012.
5. Pictograms, EuroAsian Conformity mark, Compliance with TP TC 019/2011.
6. Description of usage.
7. Product combination with different attachments.
8. Pictogram with manufacturing date in MM/YYYY format.

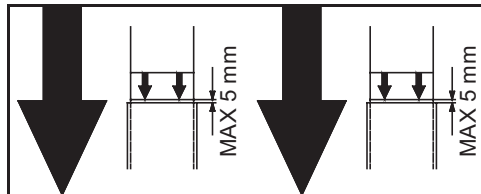


Figure 7. A close-up of the Insertion Marking Label, which shows accepted tolerances when inserting the SkyReach Anchor into its attachment

## Personal Fall Protection Equipment

To create a complete system to protect the operative when working at height, the SkyReach Anchor needs to be equipped with Personal Fall Protection Equipment (PFPE). Figure 8 shows an example on how to equip the SkyReach Anchor with recommended PFPE. All PFPE that is used must be certified and approved in the specific country of use.

The following PFPE is approved to be used together with the SkyReach Anchor:

### SRL

Fall Arrest Block certified to EN 360.

Only the Miller Falcon 6,2 m, Miller Falcon 10 m or Miller Falcon Edge 6,2m, Miller Falcon Edge 9m has been tested and approved in combination with the SkyReach Anchor, and thus the only SRL (Self Retracting Lifeline) that will enable the system to be CE certified. **Use of other SRL will invalidate the CE certification.**

### Harness

Full body harnesses certified to EN 361

### Lanyard

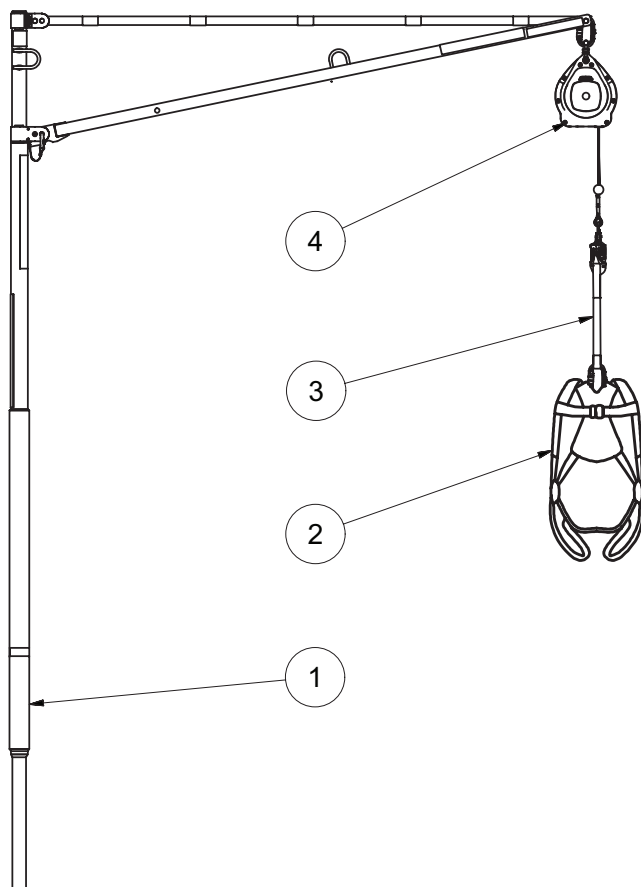
Non shock absorbing lanyards certified to EN 354

Can be used separately or in combination with EN 355 certified lanyard, or with a max length of 0,6 m in combination with the Falcon block.

### Lanyard

Shock absorbing lanyards certified to EN 355

Can be used separately or in combination with an EN 354 certified lanyard. Must **NOT** be combined with the Falcon Fall Arrest Block.



**Figure 8.** The figure shows a fully PFPE equipped SkyReach Anchor

Item	Art no.	Designation	Weight
1	8100	SkyReach Anchor	25 kg
2	-	Full body harness certified to EN 361	-
3	CM1002889	Miller extra webbing, 0.3 m	0,2 kg
4	CM1011729	Falcon Fall Arrest Block, 6.2 m	4 kg

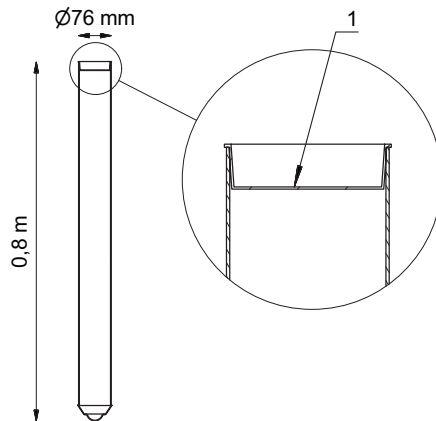
## Attachments

The SkyReach Anchor has been tested and approved to be used together with the following described attachments. Please remember that the SkyReach Anchor CE-certification is valid only when used with these attachments.

### Cast-in Sleeve (Art. 8200)

The Cast-in Sleeve is a metal socket that shall be cast directly into the concrete on-site to house the SkyReach Anchor, see Figure 9. A plastic plug covers the opening to protect against the ingress of dirt and water, remove before inserting the SkyReach Anchor into the sleeve. Please see the Attachment installation chapter for information on how to cast the sleeve into the concrete.

Material:..... Electroplated steel/oil-treated inner face  
 Weight:..... 2,3 kg  
 Height:..... 0,8 m  
 Diameter:..... 76 mm



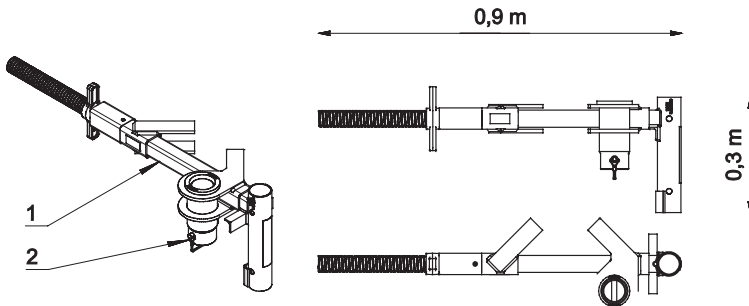
**Figure 9.** Cast-in Sleeve body with plastic plug

- 1. Plastic plug

### Steel Flange Clamp Kit MkII - NEW (Art. 8501)

This Steel Flange Clamp MkII - 8501 is new substitute for old clamp 8500. Clamp is designed to be placed onto pillars with flange width between 12 and 45 cm, see Figure 11. For the use of each SkyReach Anchor, two pieces of the Steel Flange Clamp MkII and one piece of the Steel Flange Clamp Cup is needed. The combined article number for this set is 8501. After installation, the SkyReach Anchor can be slotted into the clamps and is free to swivel. Please see the *Attachment installation* chapter for information on how to install the clamps.

Material:..... Hot-dip galvanised steel  
 Total weight:..... 20 kg  
 Length:..... 0,9 m  
 Fits flange widths:..... 0,12 – 0,45 m



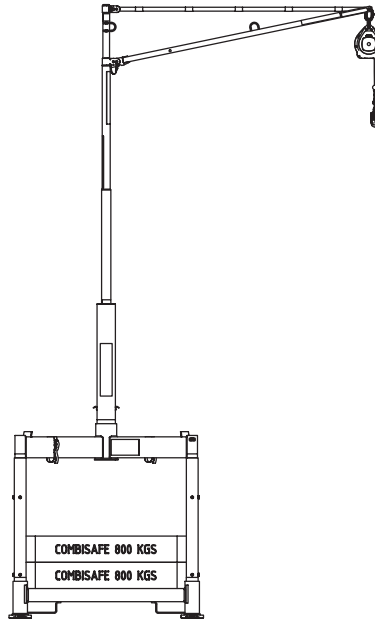
**Figure 11.** Steel Flange Clamp Kit MkII - NEW

## Loading System MkII (Art. 8800)

The SkyReach Anchor can be used together with the COMBISAFE Loading System MkII for the safe loading and unloading of e.g. flatbed lorries, see Figure 12. This combination is certified according to EN 795:2012 Type E.

Please see *UI Loading System MkII*, provided by Combisafe.

Material:	Painted steel, painted/galvanised steel
Total weight:	275 kg
Height:	2,4/3,6 m
Width:	1,4 m
Depth:	1,4 m



**Figure 12.** *The SkyReach Anchor placed in a COMBISAFE Loading System MkII Base*



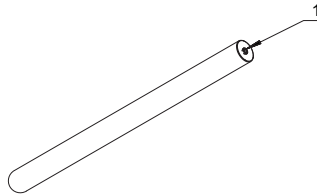
### Optional items

The following items are not delivered as standard together with the SkyReach Anchor but can be ordered separately if required.

#### Levelling Element (Art. 83416)

The levelling element is a steel tube with a level on the top, see Figure 13. It is applied to ensure that the Cast-in Sleeve is level when cast into concrete. The levelling element must be lowered into the Cast-in Sleeve while the concrete is still wet to verify the alignment.

Material:.....	Galvanised steel
Weight:.....	2,8 kg
Height:.....	1,0 m
Diameter:.....	72 mm



**Figure 13.** *Combisafe levelling element*

#### 1. Spirit Level

#### SkyReach Reach Hook (Art. 11530)

The Reach Hook is used to reach adjacent SkyReach Anchors, which are out of reach by hand when changing the anchorage. It can also be useful to guide the SkyReach Anchor into the attachment if the anchor is lifted by crane. It has a shaft which is extendable and the length can vary from 1,2 to 2,7 m. Figure 14 is showing an image of the item.

Material:.....	Aluminum/Hot-dip galvanised steel
Weight:.....	1,0 kg
Length:.....	1,2 – 2,7 m



**Figure 14.** *SkyReach Reach Hook*

### Latex Cone (Art. 100608)

The Latex Cone is a weather protective gasket which is placed onto the mast of the SkyReach Anchor, see Figure 15. The purpose is to prevent water and dirt getting into the Cast-In Sleeve when the SkyReach Anchor is in place in the sleeve, and therefore preventing the SkyReach Anchor from becoming frozen in the sleeve. Since it is made out of Latex it is flexible and can be pulled from the bottom of the mast and up onto the widest section of the mast.

Make sure the Latex cone is pulled high enough so that the Insertion Marking Label is still visible, place the SkyReach Anchor into the Cast-in Sleeve according to the Assembly chapter. When it is correctly installed, the gasket can be pulled down to cover the opening of the sleeve.

Material:..... Latex  
 Weight:..... 0,03 kg  
 Height:..... 125 mm

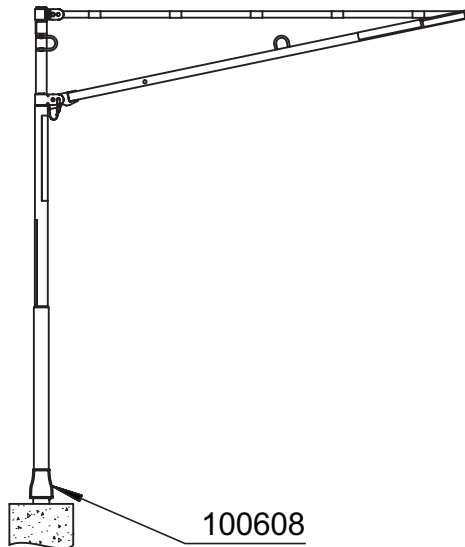
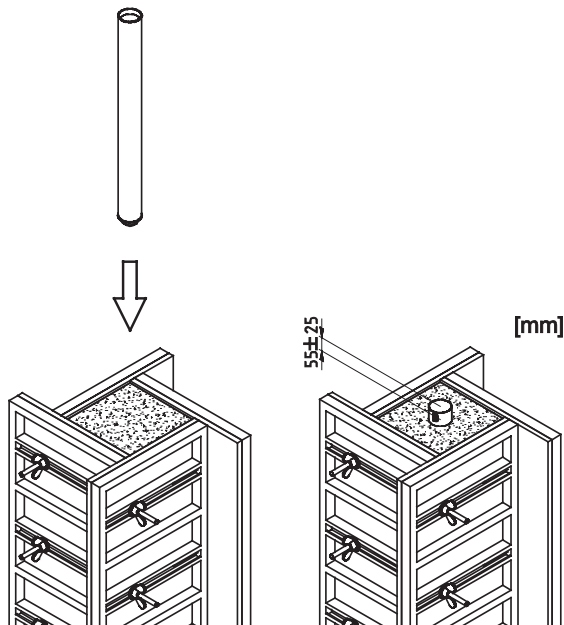


Figure 15. Latex Cone

## Attachment installation

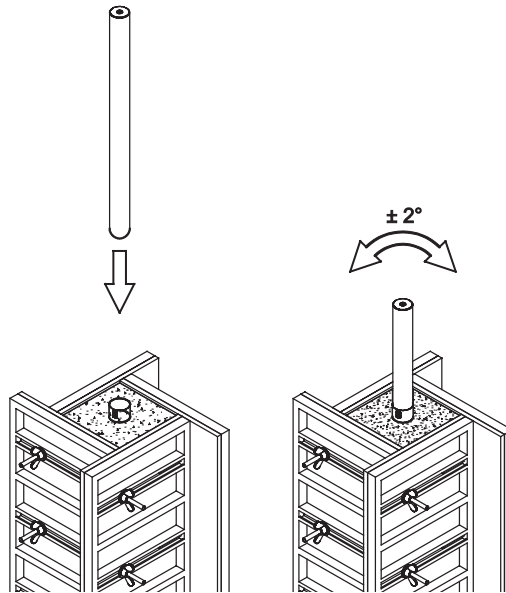
### Cast-In Sleeve installation

1. After pouring concrete into the column mold, place a Cast-In Sleeve in the upper side of the column while the concrete is still wet. The Sleeve has to be protruding 30-80 mm above the top surface of the column. See Figure 16. The Sleeve will be used as housing for the SkyReach Anchor.



**Figure 16.** *Placing the Cast-in Sleeve body into the concrete column*

2. Remove the plastic plug from the top of the Cast-in Sleeve and use the levelling element to make sure that the sleeve is in a vertical position, see Figure 17. Prescribed tolerances have to be respected.



**Figure 17.** *Levelling the Cast-in Sleeve body.*

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**NOTE**

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During concrete hardening, uplift of the Cast-in Sleeve may occur. To prevent this, the tube should be encumbered or alternatively may be wired to rebars to keep the protruding tolerance.

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In Figure 18, the cross-section area of a column, and the acceptable position of the Cast-in Sleeve, is shown. The acceptable position of the sleeve is varying depending according to the following formula:

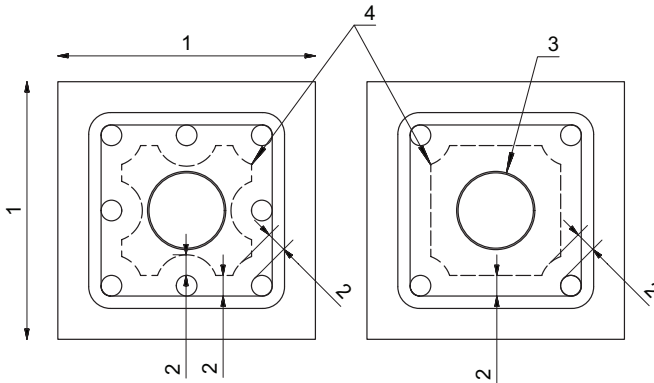
$C_{\min}$  = maximum value of  $(d_g + 5\text{mm}); (\varnothing_{\text{bar}}); (20\text{ mm})$ , where:

$C_{\min}$ : minimum distance between the outer surface of the Cast-in Sleeve and closest reinforcement bar

$d_g$ : maximum size of aggregate used in concrete

$\varnothing_{\text{bar}}$ : maximum diameter of any of the reinforcement bars used in the column

As an example; if the maximum aggregate size is 16 mm, a  $\varnothing 20$  mm vertical bar and a  $\varnothing 12$  mm horizontal bar are used in a column. The minimum size to closest bar must then be 21 mm, hence the determined value is  $d_g = 16 + 5 = 21$  mm. The two other options  $\varnothing_{bar}$ ; or 20 mm are both 20 mm. Thus, the minimum distance can never be less than 21 mm. Please see Figure 18 for an example.



**Figure 18.** Accepted position for the Cast-in Sleeve in two different set-ups.

1. Column width
2. Cmin
3. Cast-in Sleeve
4. Boundary line for accepted position of the Cast-in Sleeve

3. After the leveling is done, the plastic plug can be returned to the top of the sleeve to avoid ingress of water and debris.

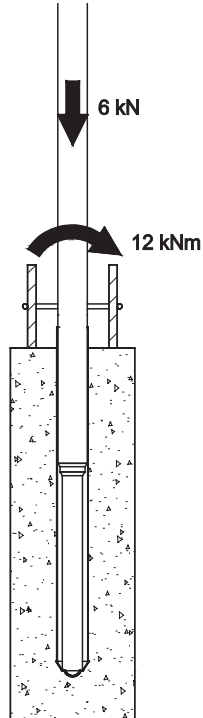
The SkyReach Anchor has been tested and approved, according to EN 795:2012 Type B, in a Cast-in Sleeve cast into a column with the cross section 250 x 250 mm. In case of columns with smaller dimension, please contact Combisafe for installation details.

#### — NOTE —

**Always wait at least 24 hours after pouring concrete before the SkyReach Anchor is installed and used. Otherwise the concrete may not be strong enough to withstand the loads that will occur from a fall.**

## Load on structure

The structure upon which the the SkyReach Anchor is mounted, must be capable of carrying the imposed loads. The maximum forces transmitted to the structure during service are shown in Figure 19.

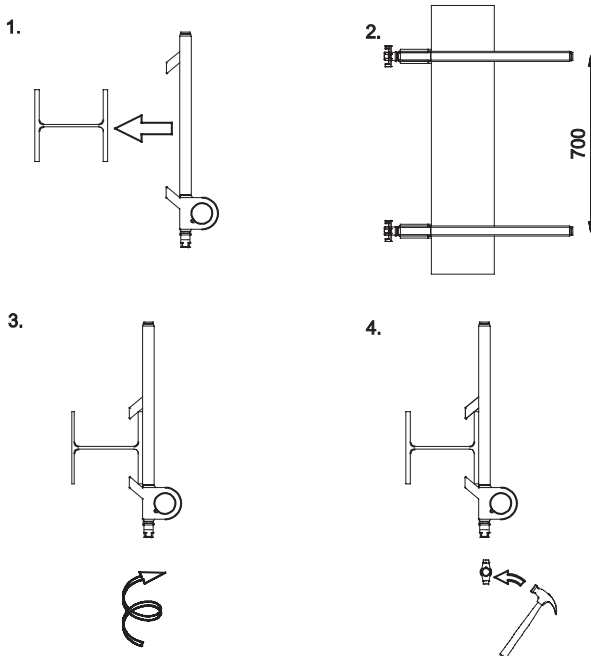


**Figure 19.** *Maximum loads transmitted to the structure*

## Steel Flange Clamp installation

The Steel Flange Clamp installation is shown in Figure 20.

1. Loosen the adjustment nut and increase the gap of the jaws enough to place the clamp over the beam flange.
2. Make sure the centre-to-centre distance between the upper clamp and the lower clamp is 700 mm, and that the clamps are perpendicular to the column.
3. Once the clamps are in the correct position on the column, tighten the nut to secure the position and to avoid accidental displacement of the Steel Flange Clamp.
4. Use a hammer to tighten the nut properly.



**Figure 20.** *Attaching the Clamps to the column.*

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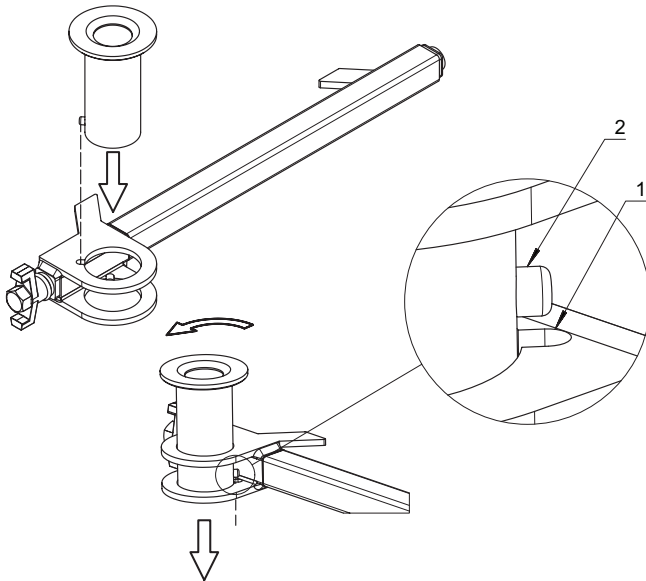
### NOTE

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The nut and the threaded rod should be cleaned from any dirt and be free of rust.

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5. Install the cup into the lower Steel Column Clamp. There is a pin located on the side of the cup, which has to pass into the grooves on each lug on the clamp. The grooves in the lugs are not aligned so the cup must be turned to pass through both lugs. See Figure 21 for a detailed view.



**Figure 21.** *Installing the Steel Flange Cup*

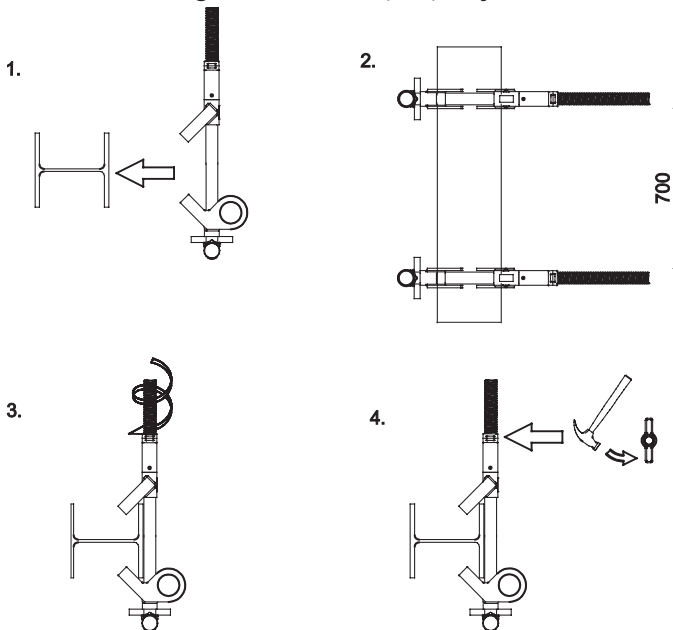
1. Groove
2. Pin



## Steel Flange Clamp Kit MkII Instalation

The Steel Flange Clamp Kit MkII installation is shown in Figure 22.

1. Loosen the adjustment nut and increase the gap of the jaws enough to place the clamp over the beam flange.
2. Make sure the centre-to-centre distance between the upper clamp and the lower clamp is 700 mm, and that the clamps are perpendicular to the column.
3. Once the clamps are in the correct position on the column, tighten the nut to secure the position and to avoid accidental displacement of the Steel Flange Clamp.
4. Use a hammer to tighten the nut properly.

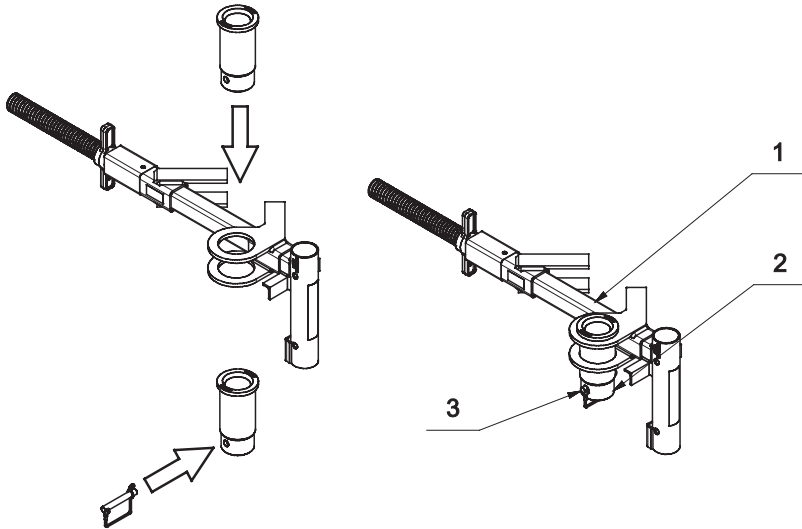


**Figure 22.** *Installing the Steel Flange Cup.*

### — NOTE

The nut and the threaded rod should be cleaned from any dirt and be free of rust.

5. Install the cup into the lower Steel Flange Clamp MkII on the column. Once Cup is inserted into lower Steel Flange Clamp MkII, Insert Quick Release Pin into Cup locking hole and secure it. See Figure 23 for a detailed view.

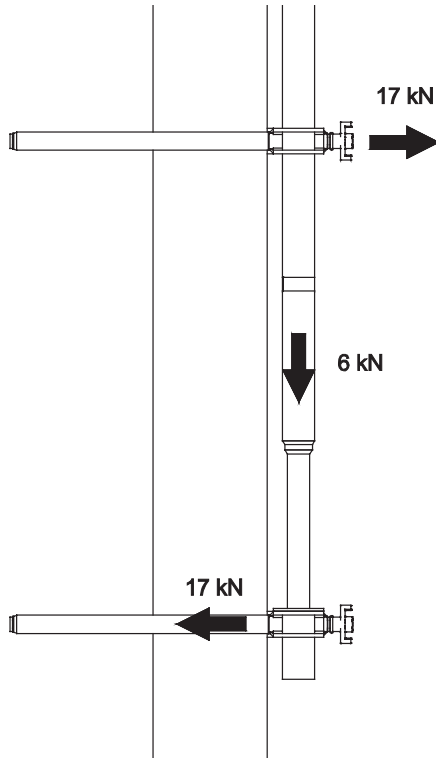


**Figure 23.** *Installing the Steel Flange Clamp Cup*

1. Steel Flange Clamp MkII
2. Steel Flange Clamp Cup
3. Quick Release Pin

## Load on structure

The structure upon which the SkyReach Fall Arrest System is mounted must be capable of carrying the imposed loads. The maximum forces transmitted to the structure are shown in Figure 24.



**Figure 24.** *Maximum loads transmitted to the structure.*

### — NOTE —

It is important to take into consideration the column quality and stability under load. Evaluate all forces affecting the building structure. Never attach the Steel Flange Clamps to a column that would not stand the load caused by the fall of person using the SkyReach Anchor.

## Assembly

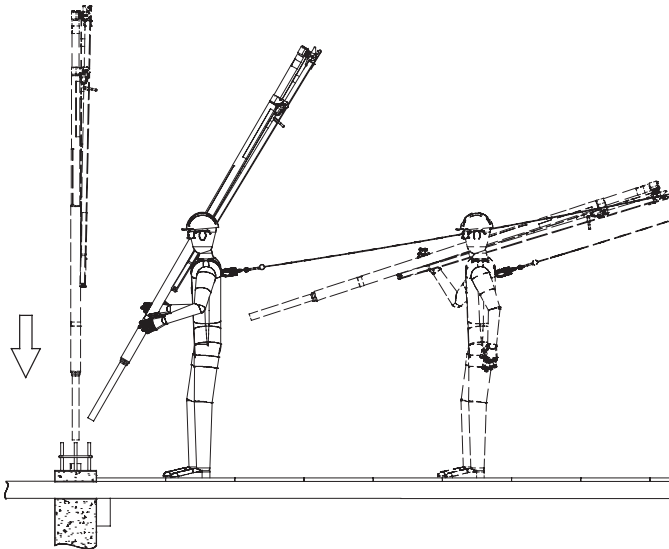
In this document two different methods to assemble and install the SkyReach Anchor will be described. Either just by hand, or with the help of a crane. The outcome of your risk analysis, depending on the site, will decide what method to use.

### Installation by hand

Due to the lightweight design of the SkyReach Anchor it can easily be moved and installed by one person only. Follow the instructions below to perform the installation in a safe and efficient way.

This method can only be recommended to use when the distance between each installed SkyReach Anchor is 8,5 m or less, when the 6,2 m Falcon fall arrest block and the 0,3 m extra webbing is used.

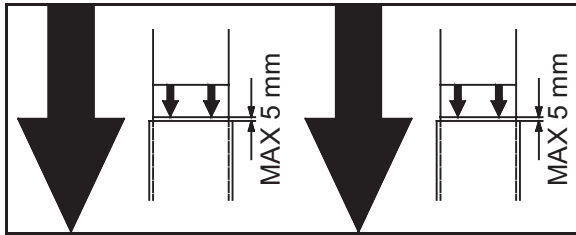
1. Remove the plastic plug from the Cast-in Sleeve. Carry the SkyReach Anchor in its folded position to its location at the column. Use your shoulder for easier transfer, see Figure 25. Lower the anchor and insert it into the sleeve. Make sure that the SkyReach Anchor is fully inserted.



**Figure 25.** *Moving the SkyReach Anchor by hand*

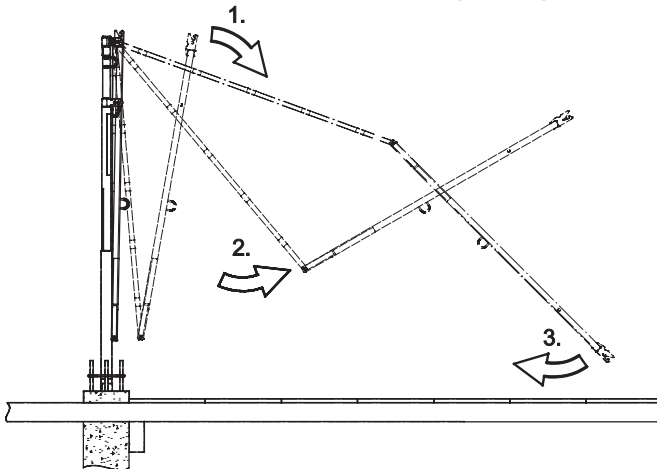
— NOTE —

Make sure that the SkyReach Anchor is inserted the correct length by observing the Insertion Marking Label. The upper edge of the sleeve must be aligned with the lower edge of the label, see Figure 26 for a closer illustration of the label.



**Figure 26.** *Close-Up on the Insertion Marking Label*

2. Unpin the Lock Pin located at the lower lug of the mast, which secures the boom and brace. Release the SkyReach Anchor boom and brace and proceed according to Figure 27.

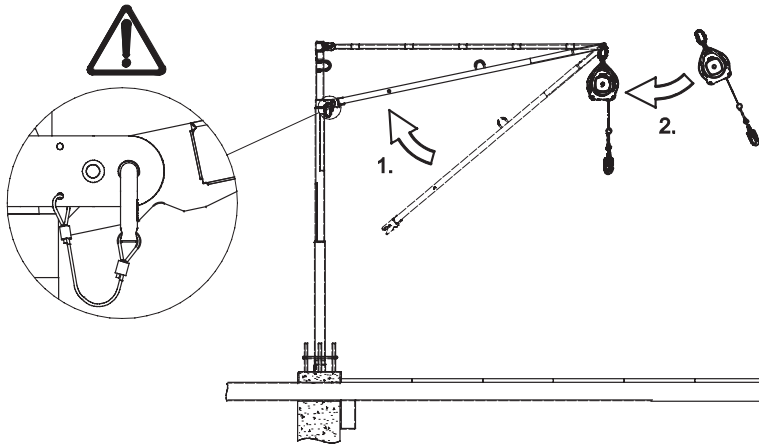


**Figure 27.** *Unfolding the SkyReach Anchor*

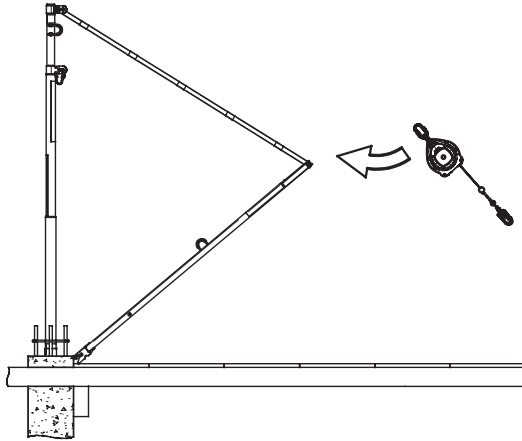
3. Proceed either by; (1) fully assemble the SkyReach Anchor by placing the brace hook into lower lugs at the mast according to Figure 28, secure the brace with the Lock Pin according to the figure. Then connect the fall arrest block to the anchor point and make sure it is correctly secured. **Or** (2) proceed by arranging the position of boom and brace according to Figure 29, connect the fall arrest block to the anchor point, as it is now located at a lower height, before securing the brace to the mast.

— NOTE —

Always take care during installation; keep hands away from hinged or folding parts to avoid injury. Keep a firm grip of the SkyReach Anchor brace, during final unfolding, to avoid contact / impact with the head or other parts of the body.



**Figure 28.** *Assembling the SkyReach Anchor and attaching a 6,2m Falcon Fall Arrest Block*



**Figure 29.** Attaching a 6,2m Falcon Fall Arrest Block at a lower height.

4. Make sure that the steps in the safety check in the Maintenance chapter are followed and executed. Now the SkyReach Anchor is ready to use!

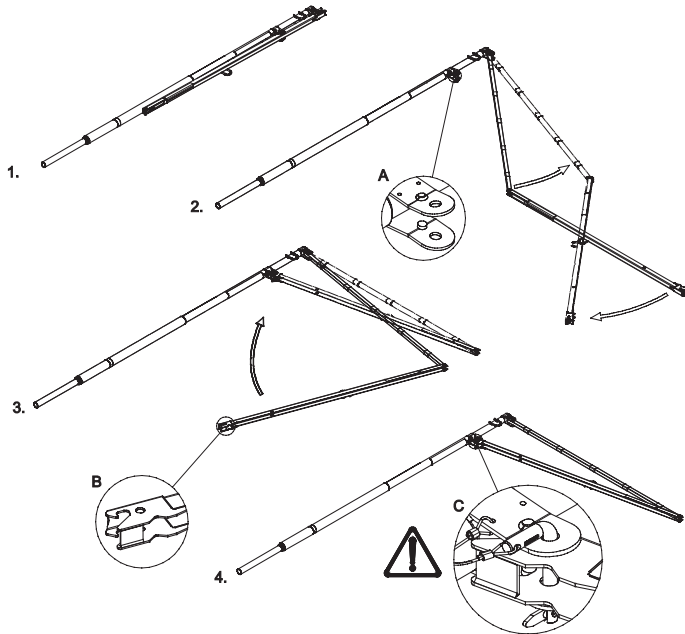
**— NOTE —**

**Make sure that the Lock Pin is properly installed, latch is dropped and that it is secured with the wire. Under no circumstances can a Lock Pin other than provided by Combisafe be used. The SkyReach Anchor should be able to rotate freely after installation, make sure that nothing prevents the rotation.**

**Installation by crane**

With this method the SkyReach Anchor itself will be unfolded and assembled on the ground and then lifted into place by a crane. Please follow the instructions below. This method only recommended when the distance between each installed SkyReach Anchor is 8,5-11 m, when the 6,2 m Falcon fall arrest block is used.

1. Mount the SkyReach Anchor in four easy steps, please see Figure 30.
  1. Place the folded SkyReach Anchor on the ground and unpin the Lock Pin to release the SkyReach Anchor brace and boom.
  2. Arrange the position of the boom.
  3. Move the SkyReach Anchor brace and make sure that the brace hook bracket (detail B) fits into the lower lugs (detail A).
  4. Secure the position from step 3 with the attached Lock Pin as shown in view C.



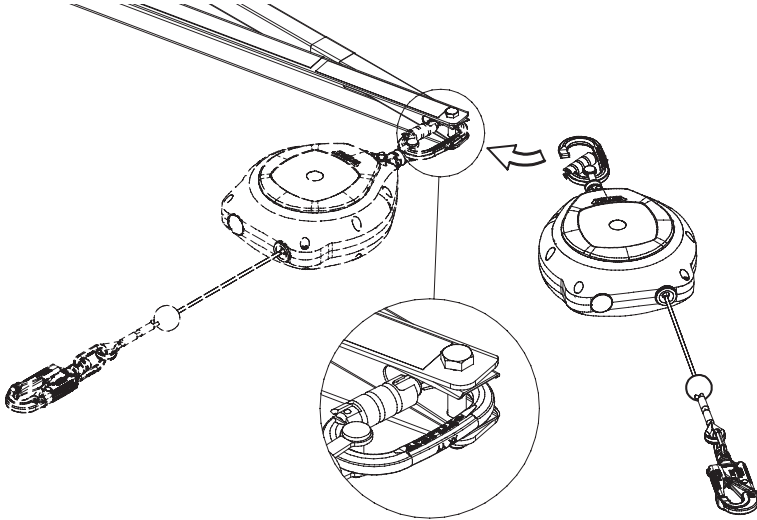
**Figure 30.** *Assembly process of the SkyReach Anchor on the ground*

#### NOTE

**Make sure that the Lock Pin is properly installed, latch is dropped and that it is secured with the wire. Under no circumstances can a substitute Lock Pin other than ones provided by Combisafe be used.**



- The next step is to connect the fall arrest block. Make sure that the component is correctly attached and secured to the SkyReach Anchor. Figure 31 shows how the 6,2 m Falcon Fall Arrest Block is attached to the anchor point.



**Figure 31.** Attaching a 6,2m Falcon Fall Arrest Block

#### — NOTE —

The SkyReach Anchor is equipped with two Endless Webbing Slings which are used to lift the SkyReach Anchor by crane. Use only the slings supplied by Combisafe. Use the slings only for the purposes described in this user instruction. Please read the Endless Webbing Sling User Instruction for more information.

- Make sure that the Endless Webbing Slings are correctly attached to the Lifting Eyes located at the brace and mast. It is necessary to use both slings each connected to one lifting eye. Attach the crane hook to both slings and lift the SkyReach Anchor. Remove the plastic plug from the Cast-In Sleeve, then lower the SkyReach Anchor down into the sleeve, see Figure 32. If required, the SkyReach Reach Hook can be used to guide the SkyReach Anchor into place by hooking to the mast and guide the anchor into position.

— NOTE —

Check that the Cast-In Sleeve is empty and free of dirt (e.g. building debris, concrete, ice) prior installation of the SkyReach Anchor. Make sure that the SkyReach Anchor is inserted the correct length by observing the Insertion Marking Label. The upper edge of the sleeve must be aligned with the lower edge of the label, see Figure 33.

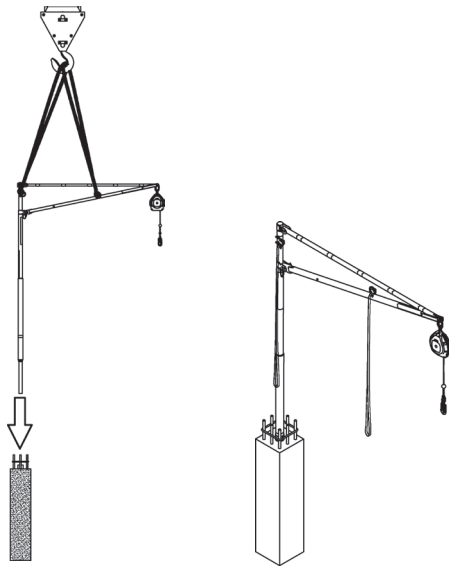


Figure 32. Placement of the SkyReach Anchor

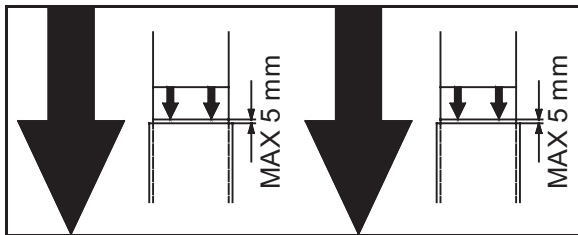


Figure 33. Close-Up on the Insertion Marking Label

4. Make sure that all steps in the safety check in the Maintenance chapter are followed and executed. Now the SkyReach Anchor is ready to use!

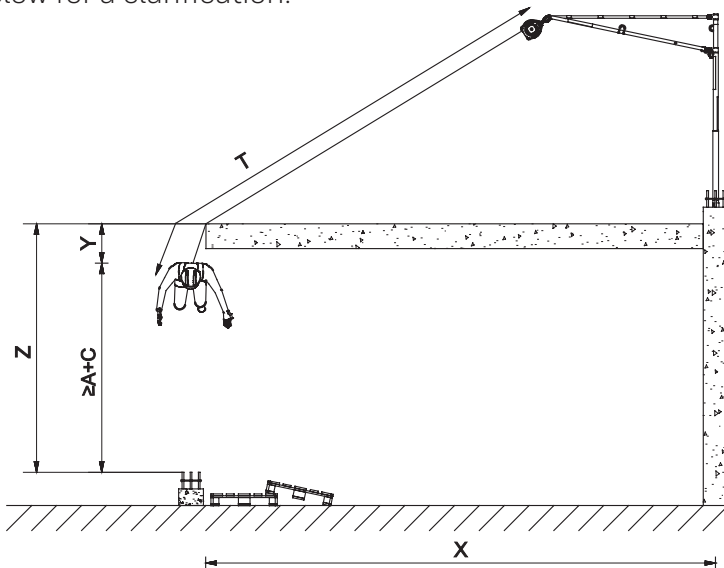
## **Dismantling**

The installation procedure should be performed in the reverse order when dismantling. When lifting SkyReach from its position by crane, check that there is no part bent or damaged.

## Working procedure

To ensure proper function of the SkyReach Anchor, the proposed method of installation has to be used in a controlled and disciplined manner. Failure to follow this working method could result in a fall which could result in injury or even death. Always perform a risk analysis and take actions before proceeding. It is always recommended to use edge protection in conjunction with the SkyReach Anchor when using it for decking for formwork operations.

If using the SkyReach without edge protection on the building, please be aware of how the maximum length of your PFPE will affect how close to the edge of the building the SkyReach can be inserted to prevent a hazardous pendulum fall. Please see Figure 34 below for a clarification.



**Figure 34.** Distance from SkyReach to edge of building

If  $Z$  decreases, then  $X$  must be increased. At all times must the following relation be followed:

$$Z - Y \geq (A+C)$$

The values for  $A$  and  $C$  can be found in Figure 2 and the explanation belonging to "Fall clearance".

If using edge protection, the above statement do not have to be considered, and the SkyReach can be inserted as close to the edge as needed. The pictures in the following installation description shows the method when edge protection is used.

Any operative performing this action should be wearing:

- Appropriate footwear,
- Reflective vest and helmet with chin strap,
- Full body harness
- Extra webbing 0.3 m for extended back anchorage.

1. Always plan the area in advance and assure that the most suitable place for the first SkyReach is chosen. It is extremely important that the protected area is decked in a progressive, leading edge fashion, working from the SkyReach Anchor in the priority sequence as shown in Figure 35.
2. The area within 2 m around the SkyReach Anchor and column has to be decked first, and then joined to areas of adjacent deck to form a leading edge approximately 2 m in front of the SkyReach Anchors.

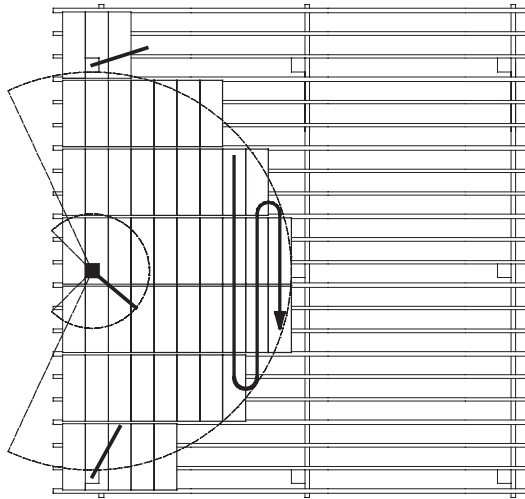
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**— NOTE —**

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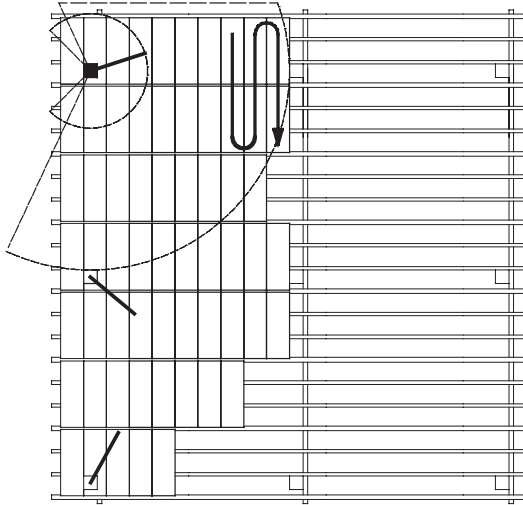
**The work method has to be adjusted to cover any “man size” holes as the work progress, and not leave them as unprotected voids in the working deck.**

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**Figure 35.** *Decking process.*

3. After all accessible areas provided by the SkyReach Anchor in use are covered, the connection has to be changed and the sequence started again. The areas protected by the SkyReach Anchors from adjacent columns will overlap, permitting workers to support each other, and ensure a common, progressive leading edge.
4. Connect to an adjacent SkyReach Anchor and proceed by decking the areas reachable from that anchor, please see Figure 36. Repeat the procedure by changing to anchors placed in the remaining columns needed to cover the whole deck.

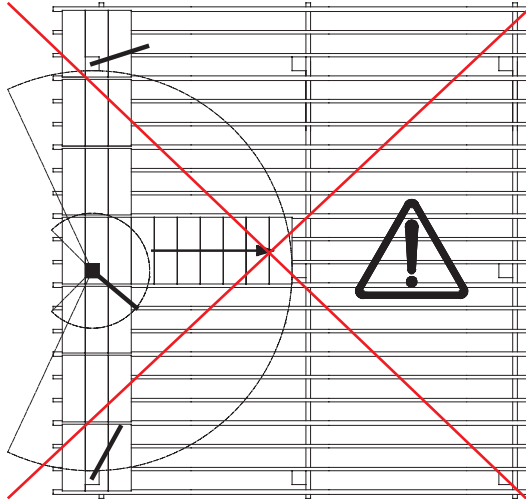


**Figure 36.** *Decking process after changing anchor point.*

— **NOTE** —

The leading edge of all decking sections has to be continuously spread across the whole width of the circular work area. No decking section should stick out too much in front of the decking section beside it. This prevents pendulum falls towards the SkyReach Anchor, where the vertical falling distance becomes significantly higher.

One example of **wrong way of formwork installation** is shown in Figure 37.

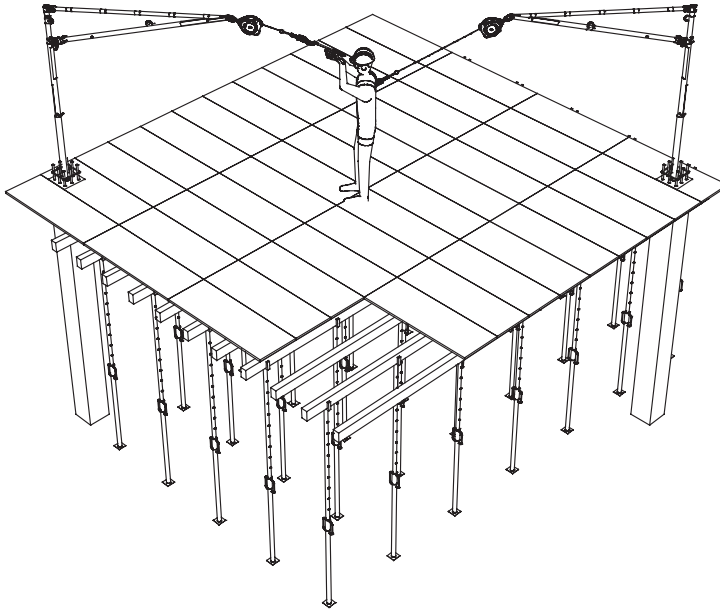


**Figure 37.** *Wrong way of formwork installation, this is not allowed*



## Changing anchor

The SkyReach Anchor has been designed to allow the operator to change anchor before unhooking themselves from the first anchor, and thus provide safety at all times, see Figure 38. The use of the recommended 0.3 m Extra Webbing attached to the Full body harness allows quick and comfortable attaching of a snap hook or fast disengagement if any dangerous situation occurs.



**Figure 38.** *Changing anchor points between adjacent SkyReach Anchors*

Use the SkyReach Reach Hook to reach next SkyReach Anchor in case when it is not possible to reach it by hand.

### — NOTE —

**Under no circumstances may the Reach Hook be hung anywhere on the SkyReach body when used. It could cause injury or malfunction of the SkyReach Anchor.**

## Maintenance

### Safety check before each use

Checking of the system shall be performed before each use, if any of the listed statements below are not met, make sure to correct any issue before using the product.

Checking includes the following steps:

#### **SkyReach Anchor:**

- Ensure that no drill holes have been made.
- Ensure that no corrosion that can affect the strength of the component has occurred.
- Ensure that there is no weld damage or deformation to any part of the component.
- Ensure that there is no damage to the Lifting Eyes neither to the welds attached to the Eyes.
- Ensure that all bolts are tightened securely.
- Ensure that the Lock Pin is connected to the wire attached to the lower lug on the mast, it is fitted correctly in place, and that it is not damaged or deformed.
- Ensure the legibility of the product marking.
- Ensure that the Hook at the end of the brace is not damaged, and that it can be smoothly placed into the lower lugs on the mast when performing the mounting.
- Ensure that the Fall Arrest Block or lanyard is completely secured to the Anchor Point.
- Ensure that the SkyReach Anchor is fully inserted into the attachment and free to rotate.
- Ensure that there is no damage to the Endless Webbing Slings.

**Cast-In sleeve:**

- Ensure that no drill holes have been made.
- Ensure that no corrosion that can affect the strength of the component has occurred.
- Ensure that there is no weld damage or deformation to any part of the component.
- Ensure that the SkyReach Anchor can be inserted correctly and is free to rotate.
- Ensure that the Cast-in Sleeve is protruding within the accepted measurement from the concrete column top surface.

**Steel Flange Clamp:**

- Ensure that no drill holes have been made.
- Ensure that no corrosion that can affect the strength of the component has occurred.
- Ensure that there is no weld damage or deformation to any part of the component.
- Ensure that the adjusting wing nut rotates properly and the jaw is moving.
- Ensure that the cup is fitted properly in the lower clamp.
- Ensure that the distance between the upper and lower clamp is correct.
- Ensure that the clamps are perpendicular to the column.
- Ensure that the SkyReach Anchor can be inserted correctly and is free to rotate.

**PFPE**

- Please follow the manufacturer's recommendations for safety and checking.

If any of the listed statements above are not met, correct any issue before usage of product.

**Cleaning**

Periodically clean the exterior of the parts. Wipe all parts to remove grease or dirt using a damp cloth and if needed use mild detergent, towel dry.

Do not use any detergent that could affect the strength of the parts.

**Storage**

Store Combisafe products in a dry and ventilated area protected from the effects of the weather and from corrosive substances.

**Recycling**

When the SkyReach Anchor and Steel Flange Clamps have been taken out of service they can be recycled as steel.

Endless Webbing Slings and plastic plugs can be recycled according to material specification on the items.



EN/ Notified body having carried out the EU test of type: /BG/ Нотифициран орган, който провежда ЕС изпитване на тип: /CS/ Oznámený orgán, který provedl EU test typu: /DA/ Godkendt organisme, der har udført EU-typeprøvnningen: /DE/ Zugelassene Stelle, welche die EU-Typprüfung durchgeföhrt führt hat: /EL/ Κοινοποιημένος οργανισμός ο οποίος διενήργησε τη δοκιμή τύπου ΕΕ: /ES/ Organismo notificado que ha realizado el examen UE de tipo: /ET/ Teavitatud asutus, mis tegi EL-tüübikatsed: /FI/ Ilmoitettu järjestö, joka on suorittanut EU-tyyppitarkastuksen: /FR/ Organisme notifié ayant réalisé l'examen UE de Type: /HR/ Nadležno tijelo, koje je izvršilo EU tipsko testiranje: /HU/ A típus EU teszjtét elvégző kijelölt szervezet: /IT/ Organismo notificato che ha effettuato il controllo UE del Tipo: /LT/ Informuota institucija, atlikusi ES tipo testą: /LV/ Pilnvarotā iestāde, kas veikusi tipa ES pārbaudi: /NL/ Erkend organisme dat het EU type-onderzoek uitvoerde: /NO/ Notifisert organ som har utført EU-typeundersøkelse: /PL/ Jednostka notyfikowana zrealizowała badanie UE typu: /PT/ Organismo notificado tendo realizado o exame de tipo UE /RO/ Organismul notificat care a efectuat testarea UE de tip: /RU/ Уполномоченный орган, выполняющий испытание ЕС типа: /SK/ Notifikovaný orgán, ktorý vykonal skúšku typu EÚ: /SV/ Officiellt provningsorgan som utfört EU-kontrollen av Typ: /TR/ AB tip testini yürütmüş olan onaylı kuruluş:

EN/ Notified body involved in the monitoring of production (module C2): /BG/ Нотифициран орган, включен в мониторинга на производството (модул C2): /CS/ Oznámený orgán zapojený do sledování výroby (modul C2): /DA/ Bemyndiget organ involveret i overvågning af produktion (modul C2): /DE/ Benannte Stelle, die an der Überwachung der Produktion beteiligt ist (Modul C2): /EL/ Κοινοποιημένος οργανισμός που συμμετέχει στην παρακολούθηση της παραγωγής (ενότητα Δ (C2)): /ES/ Organismo notificado involucrado en el monitoreo de producción (módulo C2): /ET/ Tootmist jälgiv teavitatud asutus (modul C2): /FI/ Ilmoitettu taho, joka mukana laitteen valmistuksen valvonnassa (moduuli C2): /FR/ Organisme notifié intervenant dans le suivi de production (module C2): /HR/ Nadležno tijelo uključeno u nadzor proizvodnje (modul C2): /HU/ A termelés felügyelését biztosító szerv (C2 modul): /IT/ Organismo notificato coinvolto nel monitoraggio della produzione (modulo C2) /LT/ Notifikuotoji įstaiga, atliekanti gamybos stebėjimą (C2 modulis): /LV/ Pilnvarotā iestāde, kas iesaistīta ražošanas pārraudzībā (modulis C2): /NL/ Erkend organisme dat betrokken is bij het toezicht op de productie (module C2): /NO/ Notifisert organ involvert i overvåkning av produksjon (modul C2): /PL/ Jednostka notyfikowana zaangażowana w monitorowanie produkcji (modul C2): /PT/ Organismo notificado incluído para a monitorização da produção (módulo C2): /RO/ Organismul notificat responsabil cu monitorizarea producției (modulul C2): /RU/ Уполномоченный орган, занимающийся мониторингом производства (модуль C2): /SK/ Notifikovaný orgán zapojený do monitorovania výroby (modul C2): /SL/ Obveščeni organ, ki je vključen v nadzorovanje izdelovanja (modul C2): /SV/ Officiellt provningsorgan ansvarigt för produktionsövervakning och inspektion: /TR/ Üretim izleminde görev alan onaylı kuruluş (Modül C2)

**/EN/** Honeywell Fall Protection hereby declares that this product is in compliance with the essential requirements and other relevant provisions of Regulation EU 2016/425 and all other EU directive requirements. The complete declaration of conformity can be found at: **/BG/** С настоящото Honeywell Fall Protection декларира, че този продукт съответства на основните изисквания и останалите съответни разпоредби на Регламент 2016/425 на ЕС и на всички останали изисквания на директивите на ЕС. Цялата декларация за съответствие е достъпна на: **/CS/** Honeywell Fall Protection tímto prohlašuje, že tento výrobek splňuje základní požadavky a další relevantní ustanovení Nařízení EU 2016/425 a všechny ostatní požadavky směrnic EU. Úplné prohlášení o shodě lze nalézt na: **/DA/** Honeywell Fall Protection erklærer hermed, at dette produkt stemmer overens med de væsentlige krav og andre relevante bestemmelser i Forordning EU 2016/425 og alle andre krav i EU-direktiver. Den fulde overensstemmelseserklæring kan findes på: **/DE/** Die Honeywell Fall Protection erklärt hiermit, dass dieses Produkt die wesentlichen Anforderungen und andere relevante Bestimmungen der Verordnung EU 2016/425 und weitere EU-Richtlinien erfüllt. Die vollständige Konformitätserklärung ist einsehbar unter: **/EL/** Honeywell Fall Protection δηλώνει ότι το προϊόν αυτό συμμορφώνεται με τις βασικές απαιτήσεις και τις λοιπές σχετικές διατάξεις του ΚΑΝΟΝΙΣΜΟΣ ΕΕ 2016/425 και με όλες τις άλλες απαιτήσεις της Οδηγίας της ΕΕ. Η πλήρης δήλωση συμμόρφωσης βρίσκεται στον ιστότοπο: **/ES/** Por la presente, Honeywell Fall Protection declara que este producto cumple con los requisitos esenciales y con otras cláusulas relevantes de la Reglamento EU 2016/425 y con todos los demás requisitos de directivas de la UE. La declaración de conformidad completa se puede encontrar en: **/ET/** Käesolevaga deklareerib Honeywell Fall Protection, et see toode vastab ELi määruse EL 2016/425 ja kõikide muude ELi direktiivide põhinõuetele ja muudele asjakohastele nõuetele. Täieliku vastavusdeklaratsiooni võite leida saidilt: **/FI/** Honeywell Fall Protection vakuuttaa täten, että tämä tuote täyttää Asetus EU 2016/425 sekä muiden EU-direktiivien olennaiset vaatimukset. Täydellinen vaatimustenmukaisuusvakuutus on osoitteessa: **/FR/** Honeywell Fall Protection déclare que ce produit est conforme aux critères essentiels et autres dispositions du Règlement UE 2016/425 et des autres directives européennes applicables. L'attestation complète de conformité est disponible à l'adresse: **/HR/** Honeywell Fall Protection izjavlja da proizvod ispunjava zahtjeve i druge odgovarajuće odredbe Uredba EU 2016/425 i ostalih EU-Direktiva. Potpunu izjavu o suglasnosti potražite na: **/HU/** A Honeywell Fall Protection nyilatkozta, hogy a termék megfelel az érvényes követelményeknek és a 216/425 sz. EU Rendelet előírásainak és a többi EU-s irányelvnek előírásainak. A teljes megfeleléségi nyilatkozatot megtekintheti a weboldalon. **/IT/** Honeywell Fall Protection dichiara che il presente prodotto è conforme ai requisiti essenziali e ad altre disposizioni applicabili dal Regolamento UE 2016/425 e di tutte le altre direttive UE. La dichiarazione di conformità completa è disponibile all'indirizzo: **/LT/** Šiuo dokumentu „Honeywell Fall Protection“ pareiškia, kad šis produktas atitinka 2016/425 ES reglamentais ir kitų ES direktyvų atitikamą esminius reikalavimus ir kitas susijusias nuostatas. Visą atitikties deklaraciją galite rasti: adresu **/LV/** Uzņēmums Honeywell Fall Protection ar šo paziņo, ka šis produkts atbilst Regulas (ES) 2016/425 pamatprasībām un saistītajiem noteikumiem, kā arī visu citu ES direktīvu prasībām. Pilna atbilstības deklarācija ir pieejama vietnē: **/NL/** Honeywell Fall Protection verklaart hierbij dat dit product voldoet aan de essentiële vereisten en andere relevante bepalingen van Verordening EU 2016/425 en alle andere vereisten van de EU-Reglementering. De volledige conformiteitsverklaring kunt u vinden op: **/NO/** Honeywell Fall Protection erklærer herved at dette produktet er i samsvar med grunnleggende og andre relevante krav i henhold til forordning EU 2016/425 og alle andre krav i EU-direktiver. Den fullstendige overholdelseserklæringen finner du på: **/PL/** Firma Honeywell Fall Protection niniejszym deklaruje, że ten produkt jest zgodny z podstawowymi wymaganiami i zaleceniami określonymi w rozporządzeniu EU 2016/425 oraz innych dyrektywach UE. Pełna treść Deklaracji zgodności jest dostępna w witrynie: **/PT/** Honeywell Fall Protection declara pelo presente que este produto está de acordo com os requisitos essenciais, bem como outras disposições relevantes, da Regulamento EU 2016/425 e todos os outros requisitos de diretivas da União Europeia. O texto completo da Declaração de Conformidade encontra-se em: **/RO/** Honeywell Fall Protection declară prin prezentul că acest produs respectă cerințele esențiale și ale prevederilor relevante ale Regulamentului UE 2016/425 și ale tuturor celorlalte cerințe ale directivelor UE. Declarația completă de conformitate poate fi găsită la: **/RU/** Корпорация Honeywell Fall Protection настоящим заявляет, что данный продукт соответствует основным требованиям и другим соответствующим положениям регламента EU 2016/425 и прочим требованиям директивы ЕС. Полную декларацию соответствия можно найти здесь: **/SK/** Spoločnosť Honeywell Fall Protection týmto vyhlasuje, že tento výrobok je v súlade so základnými požiadavkami a ďalšími príslušnými ustanoveniami nariadenia EÚ 2016/425 a všetkými ostatnými požiadavkami smernice EÚ. Úplné vyhlásenie o zhode možno nájsť na adrese: **/SL/** Honeywell Fall Protection s temi izjavlja, da je ta izdelek skladen s ključnimi zahtevami in drugimi relevantnimi določili Uredbe EU 2016/425 in vsemi drugimi zahtevami direktive EU. Celotno izjavo o skladnosti lahko najdete na: **/SV/** Härmed förklarar Honeywell Fall Protection att denna produkt i alla väsentliga avseenden uppfyller de krav och föreskrifter som uppställts enligt Förordning EU 2016/425 och andra EG-direktiv. En komplett försäkran om överensstämmelse finns på: **/TR/** Honeywell Düşme Önlleyici Tertibat işbu belgede bu ürünün AB Yönetmeliği 2016/425'in temel gerekliliklerine ve diğer ilgili hükümlerine ve diğer tüm AB yönetgisi gerekliliklerine uygun olduğunu beyan eder. Tam uygunluk beyanı adresinde mevcuttur.

<https://doc.honeywellsafety.com>

# Honeywell

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