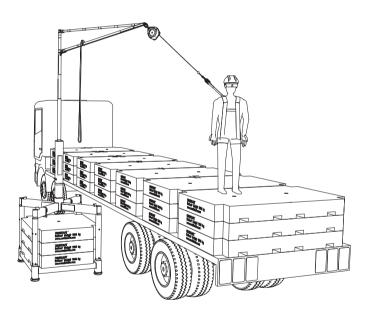


Loading System MkII

Including SkyReach Anchor



USER INSTRUCTIONS

C€ 0158 - EN 795:2012-E

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General

The Loading System MkII has been designed to ease the loading and unloading of equipment from the top of a flatbed delivery lorry/trailer in a safe manner.

The Loading System MkII incorporates a SkyReach Anchor unit which itself shall be attached by a Retractable Fall Arrest Block to connect to the full body safety harness worn by the operative.

The SkyReach Anchor is designed to deform, absorb the energy and reduce the arising forces, when a fall occurs.

When working at lower heights, the standard Loading System MkII can be used. This configuration gives a total height of 4,7 metres and allows the operative to work up to 4,3 metres in height from ground level. When working at higher positions the system can be equipped with the SkyReach Adaptor 5.9 which gives 5,9 metres in height from the ground to the anchor point position. This allows the operative to work up to 5,5 metres in height from ground level.

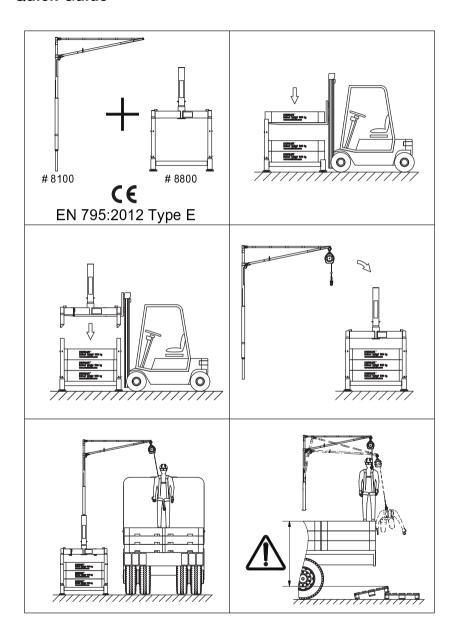
The combination Loading System MkII and SkyReach, is tested to prove compliance with EN 795:2012 Type E standard, and is CE-certified by DEKRA EXAM GmbH, Dinnendahlstraße 9, 44809 Bochum, Germany, with identification no 0158.

The Loading System MkII can be used on a construction site or in a loading yard and it can be moved to alternative locations as needs arise. To ease transportation and storage, the Loading System MkII is designed to be flat packed and stackable. When flat packed the total height of the base is 0,6 m. The SkyReach Anchor itself can be separated and folded for ease of transport between locations.

When used for unloading a trailer up to 8 m in length, the Loading System MkII Single Unit can be used. If unloading a trailer between 8 and 14 m in length, the Loading System MkII Double Unit can be used.

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

Quick Guide



Safety Instructions

The Loading System MkII is only intended for the purpose stated in this user instruction, any other usage is not recommended. The product is used to protect workers operating at height and 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 any usage.

- Under no circumstances shall the product be used as a makeshift crane or lifting/lowering device.
- Under no circumstances shall any items, other than those provided with the system be used either in replacement or through preference as this may affect the performance of the product.
- Care should be taken in the transportation of the product between uses and locations. If any damage occurs or is detected in any part, the item should be withdrawn from use, inspected by a trained person and replaced if required.
- Care should be taken in the installation of the product and if any damage occurs or is detected in any part, the item should be withdrawn from use, inspected by a trained person and replaced if required.
- The site location where the Loading System MkII is being used should have a rescue plan in place, in the event of a fall incident.
- The device is only intended for use by one person at a time. Under no circumstances shall multiple persons be attached to the device.
- Where the base is positioned directly onto the ground, as opposed to hard standing concrete, sole plates of suitable size and strength should be placed under the feet of the base to safely transmit and sustain a load of up to 2,5 N/mm².
- Do not lift the Loading System MkII unit, including any of its components with crane, except for the SkyReach Anchor unit itself.
- When a crane is lifting the SkyReach Anchor unit, be aware of the movements made by the crane and keep workers at a safe distance.
- The SkyReach Anchor is intended to be used within a zero factor fall arrest system. Make sure that the anchorage is always overhead and the 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 this product 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.
- PFPE that is used together with the Loading System MkII must be CEcertified and approved in the specific country of usage.
- It is not recommended to use the products stated in this user instruction
 when 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 Loading Systemm MkII before assembly. Never use damaged or rusty materials, 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 Protective 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 essential that enough free distance is verified to closest underlying object, please see Figure 2 below.

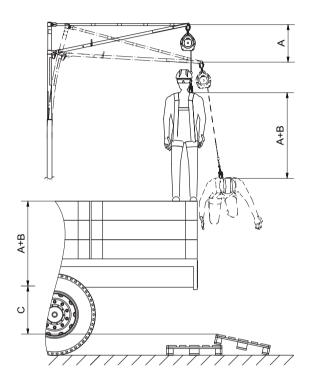


Figure 2. Explanation of fall clearance.

A: 0,7 [m] Vertical deflection of the SkyReach Anchor Point

B: X Braking distance of the PFP-Equipment. Please refer to the

manufacturer's user manual for specific values.

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 system, a safety inspection of the Loading System Base, the SkyReach Anchor and the PFPE, needs to be performed 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 falling, the items should immediately be 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 —

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

Remember

- Plan fall prevention at an early stage, this will benefit everyone.
- Use only safety-checked products.
- Restrict access below and around 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.
- · Parts might be slippery when wet, be cautious when handling.

Technical Data

Main Parts

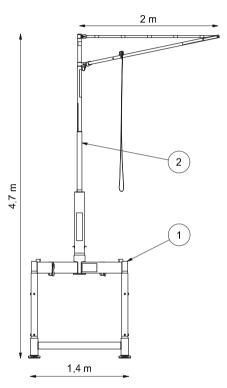


Figure 3. Main parts of the Loading System MkII with the SkyReach Anchor installed.

Item	Art no.	Designation	Weight
1	8800	Loading System MkII Base	275 kg
2	8100	SkyReach Anchor	25 kg

Loading System MkII Base

The Loading System MkII Base is a 275 kg steel structure, when loaded with ballast it is a CE certified attachment to be used as a housing for the SkyReach Anchor.

Material:	Painted and galvanised/painted steel
Total weight:	275 kg
Height:	2,7 m
Width:	1,4 m
Depth:	1,4 m

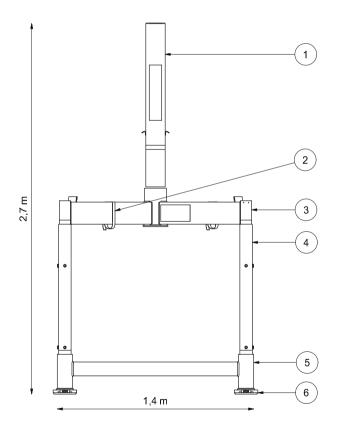


Figure 4. Loading System MkII Base.

Item	Art. no.	Designation	Weight
1	11468	Top Column 4.7	27 kg
2	100413	Combistrap, 1 m (2 pcs)	0,2 kg
3	11438	Top Frame	72 kg
4	11431	Corner Post (4 pcs)	10 kg/pc
5	11432	Bottom Frame	108 kg
6	11518	Foot (4 pcs)	2 kg/pc

SkyReach Anchor

The SkyReach Anchor is designed to be a light weight product and is easily folded for moving and configured to be space-saving when transporting or storing the item, see Figure 5. To secure both positions (assembled mode and folded mode) the attached Lock Pin is used.

Incorporated to the SkyReach Anchor is the 2 m Endless Webbing Sling which allows the product to be lifted by crane.

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

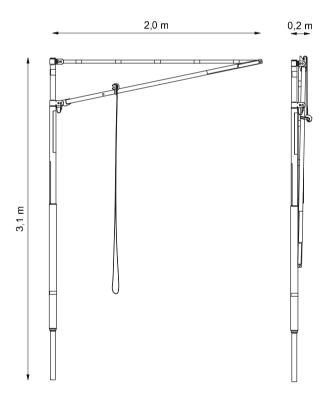


Figure 5. The SkyReach Anchor in assembled and folded mode.

SkyReach Anchor Labels and Markings

The Figure 6 below shows all the labels and markings of the SkyReach Anchor. The following figures (Figure 7, Figure 8 and Figure 9) are showing these important elements.

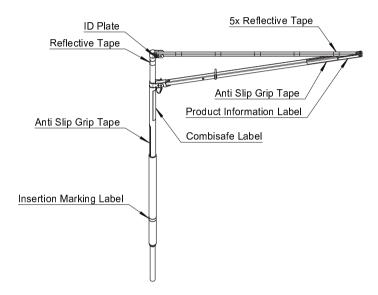


Figure 6. Labels and markings on the SkyReach Anchor.



Figure 7. A close-up on the ID Plate which includes the serial number.

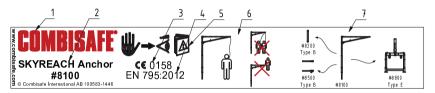


Figure 8. Detailed view of the Product Information Label

- Manufacturer.
- 2. Name of the product.
- 3. Identification number of the notified body; DEKRA EXAM GmbH, responsible for CE production quality control.
- 4. Compliance with EN 795:2012.
- 5. Pictogram: Read user instruction before use.
- 6. Description of usage.
- Product combination with different attachments.

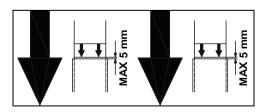


Figure 9. A close-up on the Insertion Marking Label, which shows accepted tolerances when inserting the SkyReach Anchor into its attachment.

Personal Fall Protection Equipment

To create a complete system to protect the operative when working at height, the Loading System MkII needs to be equipped with Personal Fall Protection Equipment (PFPE). Figure 10 shows an example on how to equip the SkyReach Anchor with recommended PFPE. All PFPE that is used must be certified according to valid standards and approved in the specific country of use.

The following PFPE is approved to be used together with the SkyReach Anchor and the Loading System MkII:

RTFA Fall arrest blocks certified to EN 360.

Only the Miller Falcon 6,2 m, or the Miller Falcon 10 m when a Double Unit is used, has been tested and approved in combination with the Loading System MkII and SkyReach Anchor, and thus the only RTFA that will remain the system

as CE certified.

Harness Full body harnesses certified to EN 361.

Lanyard Non shock absorbing lanyards certified to EN 354,

to 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 Fall Arrest Block.

Lanyard Shock absorbing lanyards certified to EN 355.

To be used in separate or in combination with an EN 354

certified lanyard. Must **NOT** be combined with the Falcon

Fall Arrest Block.

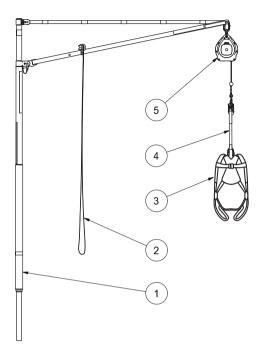


Figure 10. The figure shows the SkyReach Anchor equipped with recommended PFPE.

Item	Part no.	Designation	Weight
1	8100	SkyReach Anchor (includes item 2)	25 kg
2	100605	Endless Webbing Sling, 2 m	0,2 kg
3	CM1014237	Miller Revolution 2, Full Body Harness	1,5 kg
4	CM1002889	Miller Extra Webbing, 0.3 m	0,2 kg
5	CM1011729	Miller Falcon Fall Arrest Block, 6.2 m	4 kg

Optional Items

The following items are not delivered as standard together with the Loading System MkII but can be ordered separately if required, please see Figure 11 for visual clarification of the items

Precast Kentledge (Art. 10663)

This precast concrete block is one out of three possible ballast options, and can be ordered from Combisafe. Please see the following chapter *Ballast* for more information.

Material:	Concrete
Weight:	1000 kg
Height:	0,25 m
Width:	
Depth:	1,4 m

Formwork Support (Art. 11446)

To use any of the other two ballast options, the Loading System MkII Base needs to be equipped with 8 pcs of the Formwork Support. These channel steel bars with a wooden inlay will give the support needed as the base is filled with gravel or concrete.

Material:	Painted steel/wood
Weight:	11 kg
Length:	

SkyReach Adaptor 5.9 (Art. 8801)

When a greater working height is required then the standard Top Column 4.7 contributes, the SkyReach Adaptor 5.9 will give a total height of 5,9 m from the ground to the anchor point.

Material:	. Hot dip galvanised/painted steel
Weight:	.25 kg
Height:	.2,4 m

SkyReach Reach Hook (Art. 11530)

The Reach Hook is useful to guide the SkyReach Anchor into the Top Column 4.7/SkyReach Adaptor 5.9 when the anchor is lifted and lowered by crane. It has got a shaft which is extendable and the length can vary from 1,2 to 2,7 m.

Material:	Aluminum/Hot dip galvanised steel
Weight:	1,0 kg
Length:	1.2 – 2.7 m

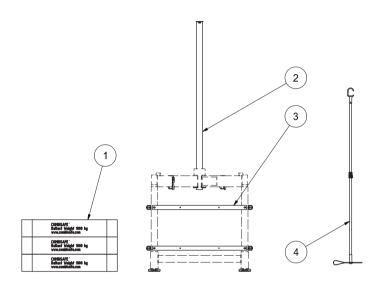


Figure 11. Optional items.

Item	Part no.	Designation	Weight
1	10663	Precast Kentledge (3 pcs needed)	1000 kg/pc
2	8801	SkyReach Adaptor 5.9	25 kg
3	11446	Formwork Support (8 pcs needed)	11 kg/pc
4	11530	SkyReach Reach Hook	1,5 kg

Ballast

The Loading System MkII Base needs to be loaded with minimum 2800 kg of ballast to keep stable and meet the requirements in the standard. The ballast can be applied in three different ways, which are presented below. Further details on how to perform the ballast loading procedure are described in the *Assembly* chapter.

Precast Kentledge

The Precast Kentledge is a 1000 kg concrete block designed to fit into the Loading System MkII Base. Using three units of the Precast Kentledge is enough to achieve the weight requirement. These should to be ordered as an option as they are not included as a standard.

Concrete box cast on site

For this option, a package of Formwork Supports should be ordered, as they are not included in Loading System MkII as a standard. With the Formwork Supports mounted, a plywood box inside the Loading System MkII Base will make it possible to cast concrete in the box directly on site.

Gravel box

For this option, a package of Formwork Supports should be ordered, as they are not included in Loading System MkII as a standard. With the Formwork Supports mounted, a plywood box inside the Loading System MkII Base will make it possible to fill up with gravel directly on site.

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Assembly

Assembling the Loading System MkII

The following information and illustrations are a step by step guide on how to rig a Loading System MkII together with a SkyReach Anchor unit successfully. The Loading System MkII can be used with any of the three ballast options described. Please refer to the appropriate instruction pertaining to the actual case.

Before attempting to rig a Loading System MkII unit, please make sure you have the following tools:

- Hammer or a 22 mm spanner or an adjustable spanner.
- · Spirit level.
- · Crane for installation of the SkyReach unit.
- Fork lift truck, or equivalent vehicle, for lifting the device.

-NOTE -

Except for lifting the SkyReach Anchor unit alone, lifting the Loading System MkII, or its parts with a crane is not permitted. Use a fork lift truck and refer to the guides in this document.

Installation instructions for Loading System MkII

1. Make sure that the ground, where the Loading System MkII is placed, is relatively flat. The Loading System MkII Base has got adjustable feet which are designed to adjust within a 5 degree inclination. Use a fork lift truck to handle the Bottom Frame, place the forks underneath the horizontal tubes and spread the forks apart prior to lifting, see Figure 12. Place the Bottom Frame on the ground. Use a spirit level to make sure that the Bottom Frame is level. If not, simply rotate the feet by hand or use a 22 mm spanner to wrench, or a hammer to strike on the Adjusting Bar to adjust the feet until the Bottom Frame is level, see Figure 13.

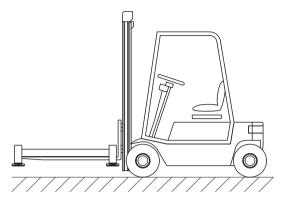


Figure 12. Lifting the Bottom Frame with truck.

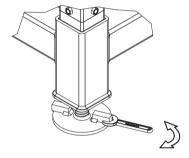


Figure 13. Adjustment of the Foot height with a 22 mm spanner.

Place the four Corner Posts into the Bottom Frame, with the welding nuts facing outwards. (When using the Precast Kentledge as ballast, it is recommended to only insert the two rear Corner Posts before loading the ballast.)

Make sure that the Corner Posts are inserted the correct length into the sleeves, observe the Insertion Marking Label position, see Figure 14.

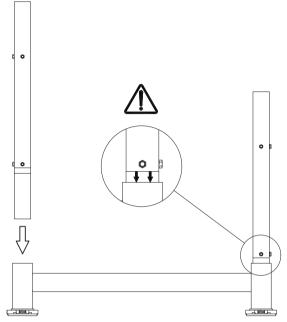


Figure 14. Insertion of the Corner Posts.

-NOTE -

The lower edge of the Insertion Marking Label on the Corner Posts must be aligned with the upper edge of the Bottom Frame Posts for a safe and proper installation. See Figure 15 below for a closer illustration of the label.

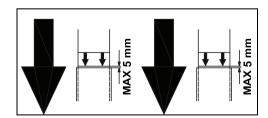


Figure 15. Close-Up of Insertion Marking Label.

If using Precast Kentledges as ballast option, please proceed to step 3. If using cast concrete as ballast option, please proceed to step 4 and if using gravel as ballast option, please proceed to step 5.

3. Precast Kentledge ballast option

Check that the two rear Corner Posts are inserted correctly, and the two front Corner Posts are left beside. Use a forklift truck to place the three 1000 kg COMBISAFE Precast Kentledges onto the Bottom Frame one after another, see Figure 16. When the concrete blocks are in place, place the two remaining Corner Posts into the Bottom Frame. Next step is to mount the top unit, please proceed to step 6.

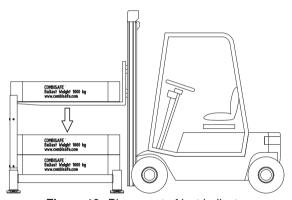


Figure 16. Placement of last ballast.

4. Cast-In-Concrete ballast option

4.1 Check that all four Corner Posts are inserted correctly into the Bottom Frame. Cut a piece of 18 mm Formwork Plywood, complying with EN 636-3, in the format as shown in Figure 17 and place in the centre of the Bottom Frame. Bolt the eight Formwork Supports to the welding nuts located on the Corner Posts. Use the bolts attached to the Formwork Supports, see Figure 18. At this step it is not necessary to tighten the bolts.

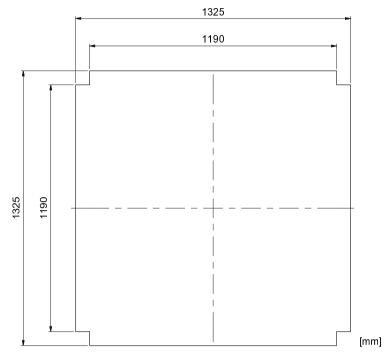


Figure 17. Dimensions for the bottom board.

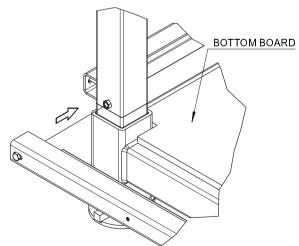


Figure 18. Example of placement of Formwork Support.

4.2 Cut twelve 70x45 wooden ribs to 920 mm in length and four pieces of 18 mm Formwork Plywood, complying with EN 636-3, to the format 1285x920 mm and cut out a notch in one corner as shown in Figure 19. Make four similar side board units according to these instructions, and then fix the ribs to the boards with wooden screws as in Figure 19.

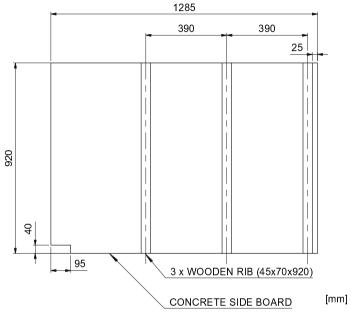


Figure 19. Dimensions for the concrete side board.

4.3 Place the four Concrete Side Board assembly units equally one after another onto the Bottom Board located in the Base, with the notch facing down and the Wooden Ribs leaning towards the Formwork Supports, see Figure 20. Make sure to place all the units overlapping so that all the sideboard units get the same support when leaning against the Formwork Supports.

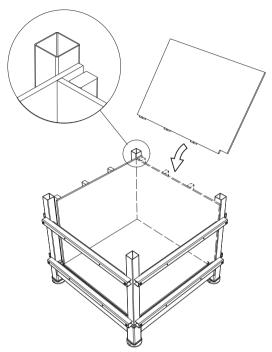


Figure 20. Placement of the side board units.

4.4 When all the sides are in place and the plywood boards create a tight box, fix the boards with wooden screws if needed. Next step is to mount the top unit, please proceed to step 6.

5. Gravel filled ballast option

5.1 Check that that all four Corner Posts are inserted correctly into the Bottom Frame. Cut a piece of 18 mm Formwork Plywood, complying with EN 636-3, to the format as shown in Figure 21 and place in the centre of the Bottom Frame. Bolt the eight Formwork Supports to the welding nuts. Use the bolts attached to the Formwork Support, see Figure 22. At this step it is not necessary to tighten the bolts.

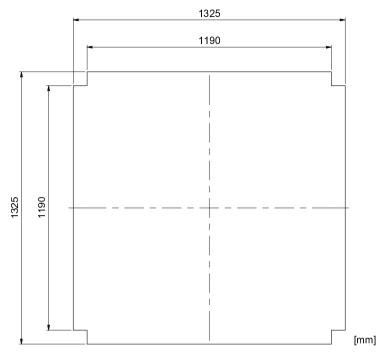


Figure 21. Dimension of the Bottom Plywood Board.(Art. 11540)

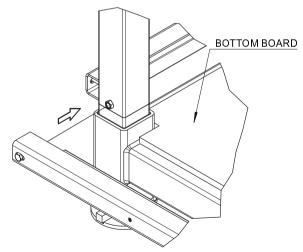


Figure 22. Example of placement of Formwork Support.

5.2 Cut four pieces of 18 mm formwork plywood, complying with EN 636-3, to the format as shown in Figure 23. Place the boards one after another in the Base, with the notches facing down, leaning against the Formwork Supports, see Figure 24. The boards shall be placed onto the Bottom Frame itself and not onto the Bottom Board. Fix the boards to the Formwork Supports with wooden screws. When all the boards are in place and they create a box, go to step 6 for mounting of the Top Frame.

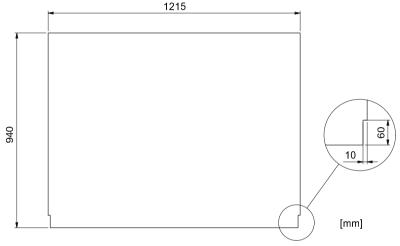


Figure 23. Dimension of the gravel side board. Note that the board has got notches in both bottom corners.

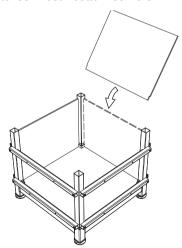


Figure 24. Placement of the side board units.

6. When using the SkyReach in the Loading System MkII unit, the Top Column 4.7 can be used to reach a working height up to 4,3 m. If greater working height is preferred, then chose the SkyReach Adaptor 5.9 instead. With this solution you will reach a working height up to 5,5 m. The following instructions can be applied to both of the solutions but the illustrations are showing the Top Column 4.7 only.

With the Top Frame still standing on the ground, insert the Top Column 4.7/SkyReach Adaptor 5.9 unit into the Top Frame, observing that the Insertion Marking Label is in position, see Figure 25.

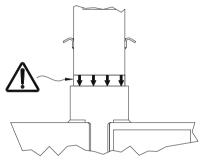


Figure 25. Insertion Marking Label on Top Column 4.7.

NOTE -

Make sure that the Top Column 4.7/SkyReach Adaptor 5.9 is inserted the correct length into the Sleeve. Insertion Marking Label on Top Column 4.7/SkyReach Adaptor 5.9 must be aligned with upper edge of Top Frame Sleeve for a safe and proper installation.

7. Using a forklift truck, place the forks underneath the horizontal tubes of the Top Frame, spread the forks as wide as possible and then, if needed, secure the Top Frame assembly with the two supplied Combistraps before lifting. Straps shall be attached diagonally to each fork to ensure a safe lift, see Figure 26 below. Remember that the straps should be tightened firmly.

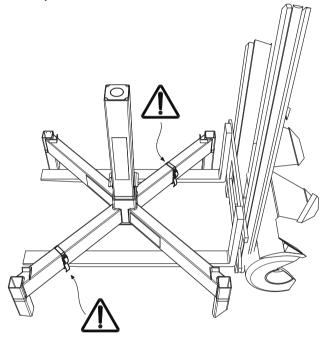


Figure 26. Use the included Combistraps to secure the Top Frame to the forks prior to lifting.

8. Lift the assembled top unit high enough above the Corner Posts, and slowly lower the assembly when the four Top Frame Legs can be slotted into the Corner Posts. If Formwork Supports are bolted to the Corner Posts, make sure they are not tightened, thus it can prevent the Top Frame from being inserted in an easy way. Lower the assembly slowly and make sure it runs smoothly down into the Corner Posts.

Make sure the assembly is inserted the correct length by checking that the lower edge of Insertion Marking Labels are aligned with upper edge of Corner Posts, see Figure 27.

With the Top Frame in place, the Formwork Supports can be tightened firmly, if they are being used.

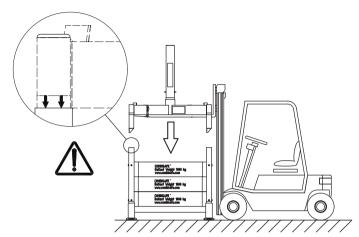


Figure 27. Insertion of Top Frame to Corner Posts. Note the position of Insertion Marking Label when Top Frame is slotted into the Corner Posts in the illustration to the left.

 Now the Loading System MkII Base is completed as an assembled unit and next step is to fill the Base with chosen ballast, if concrete or gravel is preferred as ballast option.

If concrete is the chosen ballast option, fill the box in the base with 2400 kg/m³ concrete. Fill all the way to the top edge of the side boards.

NOTE -

The density of the concrete mix shall under no circumstances be less than 2400 kg/m³, otherwise the ballast will not meet the minimum weight requirements according to the standard.

If gravel is the preferred ballast option, fill the box up with gravel, compact well and make sure that the gravel reaches the top edge of the side boards.

NOTE

The density of the gravel shall under no circumstances be less than 1780 kg/m³, otherwise the ballast will not meet the minimum weight requirements according to the standard.

10. Installation instructions for the SkyReach Anchor

- 10.1 Mount the SkyReach Anchor from the folded position in four easy steps, please see Figure 28:
 - Remove the Lock Pin and 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 A) fits into the lower lugs (detail B).
 - 4. Secure the position from step 3 with the attached Lock Pin as shown in view C.

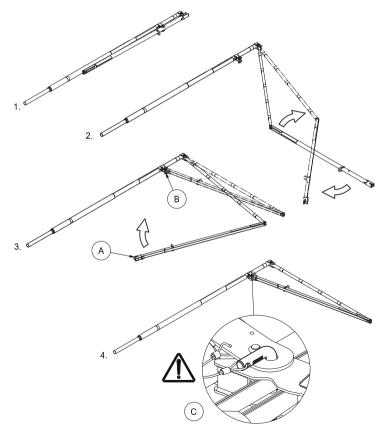


Figure 28. Assembly process of the SkyReach Anchor

-NOTE -

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

10.2 Connect the Fall Arrest Block. Make sure that the component is correctly attached and secured to the SkyReach Anchor point. Figure 29 is showing how the 6,2 m Falcon Fall Arrest Block is attached to the anchor point.

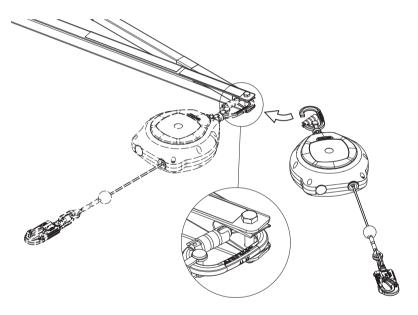


Figure 29. Attaching the 6,2m Fall Arrest Block.

-NOTE -

It is strongly recommended that a rope is tied to the Fall Arrest Block karabiner to enable the operative to retrieve the reel and allow simple connection to the operatives 0.3 m extra webbing. It is not recommended to leave only the lifeline of the block pulled out in this matter, due to possible damage to the reel.

10.3 Make sure that the incorporated Endless Webbing Sling is attached correctly, see Figure 30. The Sling is used for positioning and repositioning of the SkyReach Anchor to the required location in the Top Column 4.7/SkyReach Adaptor 5.9.

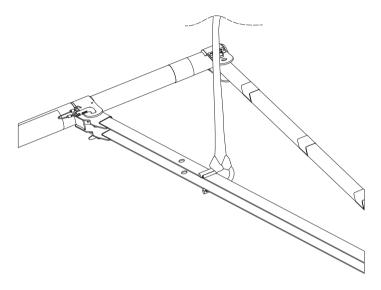


Figure 30. Detail of sling installation.

-NOTE -

Use only the sling supplied by Combisafe. Use the sling only for the purposes described in this user instruction. Please read the provided user manual for the Endless Webbing Sling.

11. Use a crane to lift the assembled SkyReach by placing the crane hook to the sling attached to the SkyReach. Lower it down into the Top Column 4.7/SkyReach Adaptor 5.9, see Figure 31. Use the Reach Hook to guide the SkyReach into place if needed. Make sure that the SkyReach is inserted the correct length, please observe the Insertion Marking Label position, see Figure 31.

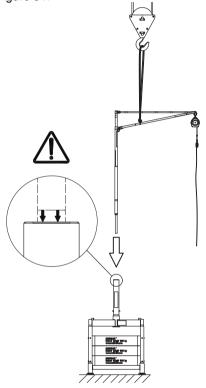


Figure 31. Placement of the SkyReach unit into Top Column 4.7. Beware of the crane and its movement to avoid injuries.

12. Make sure that the steps in the safety check in the *Maintenance* chapter are followed and executed. Now the Loading System MkII is ready to use!

Dismantling

The installation procedure should be performed in the reverse order when dismantling.

Transportation

If there is a need for moving the Loading System MkII, once the unit is assembled and loaded with ballast, it is important that it is handled the correct way to prevent lifting accidents.

 Use a fork lift truck, or equivalent vehicle, place the forks underneath the Base with the forks as wide as possible, see Figure 32. Lift the unit slowly and make sure that no part on the Loading System MkII might be stuck, and thereby preventing it from being lifted smoothly.

-NOTE

A fully loaded Loading System MkII weighs approximately 3500 kg, it is important that a lifting device with a capacity exceeding that value is used.

- Lift the unit and adjust the Feet to their fully inserted position to prevent damage during movement
- 3. Make sure the unit is lifted high enough to pass any obstacle in the planned way of transportation and move it to the new location. Lower the unit to the ground and make sure it is level by adjusting the feet into desired position. When Loading System MkII is level, remove vehicle and execute the safety check over again.

-NOTE

A complete Loading System MkII unit shall not under any circumstances be lifted with a crane and/or slings!

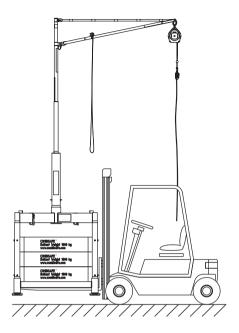


Figure 32. Lifting the whole unit for transportation.

Storage

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

Loading System MkII Base

The Loading System MkII is designed to ease storage when not in use. Since the units can be packed flat, it is easy to store them in a pile. To make sure the Loading System MkII is packed the correct way after usage, please place the parts as in Figure 33 below. Make sure that the Feet are fully inserted and that the Top Frame is resting on the bottom plates in the Bottom Frame Sleeves

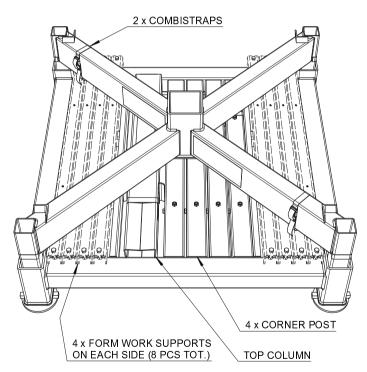


Figure 33. Loading System MkII Base in packed mode.

A total amount of 6 flat packed units can be stacked together in one stack. On each Top Frame there are four guide plates located to guide the next unit into position.

The flat packed version of the Loading System MkII must always be lifted with a fork lift truck, or equivalent vehicle, and the forks always be placed underneath the horizontal chords of the Bottom Frame, see Figure 34. Remember to only lift one unit at a time.

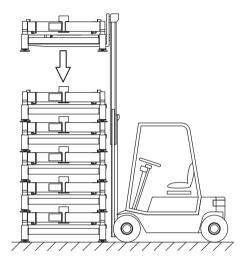


Figure 34. Placement of the 6th packed Loading System MkII with a fork lift truck.

SkyReach Anchor

As already shown in the *Assembly* chapter, the SkyReach Anchor can be folded together to ease packing and transportation.

Recommended operating method

Single Unit usage

For unloading a flatbed with a length of up to 8 m, which will fit into the loading zone as described in Figure 35, a Single Unit is required (Art. 8806). The Single Unit consists of one Loading System MkII Base, one SkyReach Anchor, one 6,2 m Falcon Fall Arrest Block, one extra webbing and one full body harness, please see Figure 3 in the beginning of this document.

This method is based on a width of the flatbed loading area greater or equal to 2,4 m. By any width less than mentioned, please contact Combisafe for support. If a greater working height is required, the SkyReach Adaptor 5.9 (Art. 8801) can be ordered separately.

The Base must be positioned centrally to the zone, as shown below.

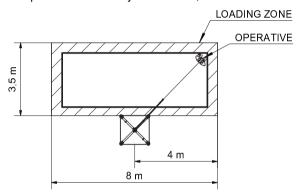


Figure 35. Working area illustration for a Single Unit usage.

Any operative unloading a flatbed trailer should be wearing:

- appropriate footwear,
- reflective vest and helmet with chin strap.
- full body harness,
- extra webbing 0.3 m for extended back anchorage.

Once an operative is wearing the correct harness they can then attach the extra 0.3 m webbing to the harness by looping it through itself, and then attach the other end of the extra 0.3 m webbing to the Retractable Fall Arrest Block, using a karabiner fixing.

-NOTE -

The operative must be connected to the system before accessing the flatbed.

Double Unit usage

A Double Unit (Art. 8810) is required, when loading and unloading a flatbed with a length between 8 and 14 m, which will fit into the working zone as described in Figure 36. A Double Unit consists of two Loading System MkII Base units, two SkyReach Anchor units, two 10 m Falcon Fall Arrest Blocks, one extra webbing and one full body harness, please see Figure 3 in the beginning of this document for visual clarification of the parts.

This method is based on a width of the flatbed loading area greater or equal to 2,4 m. By any width less than mentioned, or by flatbed length greater than 14 m, please contact Combisafe for support. If a greater working height is required, the SkyReach Adaptor 5.9 (Art. 8801) can be ordered separately.

The operative must be connected to both the Loading System MkII units at the same time before entering the flatbed.

The Bases must be symmetrically positioned with respect to the loading zone according to Figure 36 below.

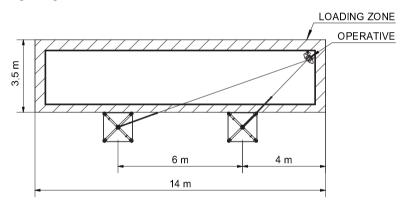


Figure 36. Working area illustration for a Double Unit usage.

Any operative unloading a flatbed trailer should be wearing:

- · appropriate footwear,
- reflective vest and helmet with chin strap,
- full body harness,
- extra webbing 0.3 m for extended back anchorage.

Once an operative is wearing the correct harness they can then attach the extra 0.3 m webbing to the harness by looping it through itself, and then attach the other end of the extra 0.3 m webbing to the Retractable Fall Arrest Blocks from each system, using a karabiner fixing.

-NOTE -

The Retractable Fall Arrest Block should be a 10 m Falcon Fall Arrest Block to allow the operative to move freely to the far extents of the trailer.

The operative must be connected to both systems before accessing the flatbed.

Make sure that the lifelines from each retractable block doesn't cross, they should at all times run smoothly in their own reel.

Maintenance

Check list prior to usage

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

Checking includes the following steps:

Loading System MkII Base unit:

- Ensure that there is no weld damage or deformation to any part of the system.
- Ensure that no corrosion that can affect the strength of the system has occurred.
- · Ensure that the Feet are fully adjustable.
- Ensure that the Base unit is level.
- Ensure there are no loose parts e.g. gravel, dirt, concrete etc. in any sleeves or tubes where another part shall be inserted.
- Ensure that the threads on the welding nuts on the Corner Posts are free from dirt or other that can prevent correct fastening of the bolt. If not using the Formwork Supports, short M12 bolts can be placed in the nuts to protect the threads.
- Ensure that there is no damage to the Precast Kentledge concrete blocks, if such are used.
- Ensure that all items with the insertion marking label on, are readable and are inserted the correct length.
- Ensure the legibility of the product marking.

SkyReach Anchor:

- Ensure that no drill holes have been made.
- Ensure that no corrosion that can affect the strength of the product has occurred.
- Ensure there are no weld damages or deformation to any part of the product.
- Ensure that there are no damages to the Lifting Eye neither to the welds attached to the Eye.
- 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 SkyReach Anchor is fully engaged into the Loading System MkII unit and is free to rotate.
- Ensure there are no damages to the Endless Webbing Sling.

PFP-Equipment:

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

If any of the listed statements above are not satisfied, 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.

Recycling

When the Loading System MkII has been taken out of service it can be recycled as steel.

Plastic plugs can be recycled according to material specification on the items.



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