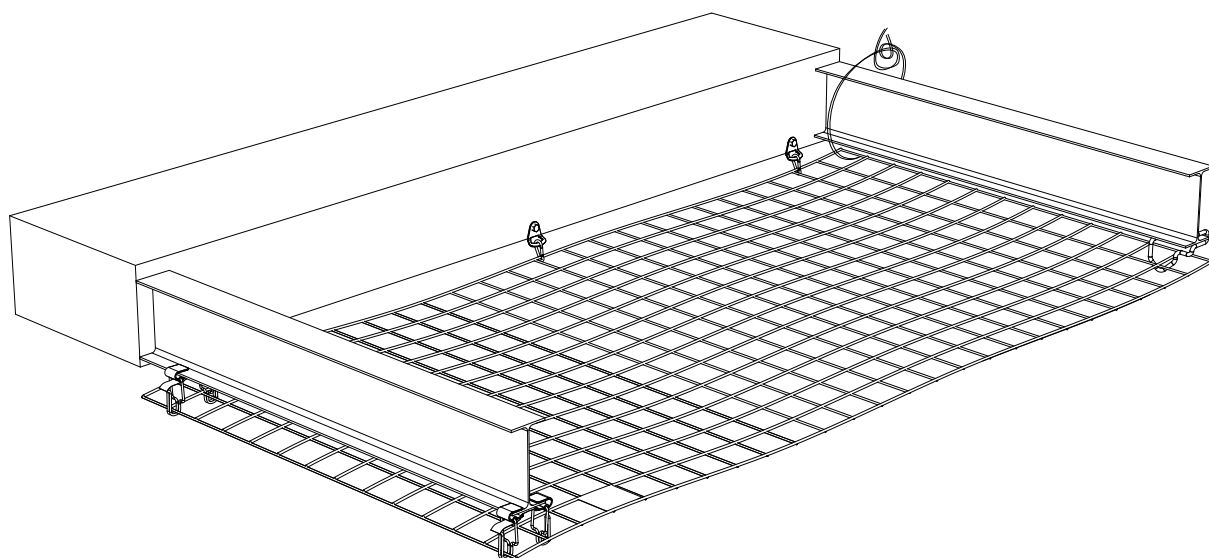


# SAFETY NET SYSTEM S

## USER MANUAL



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## GENERAL INFORMATION

Safety nets are used to minimize injury from falls when working at height. Safety nets system S are used in the horizontal plane and installed below the worker operating at height. In the event of a slip, trip or fall, the worker is contained within the Safety net. Safety nets system S meets the requirements according to EN 1263-1 and EN 1263-2. Safety nets can be used with a maximum falling

height up to 6 m (3 m within 2 m of the edge). Install the Safety net as close as possible to the working level, preferably within 2 m.

## SAFETY

To reduce risks at the worksite, make a documented risk assessment and action plan. The following risks and measures are always present when installing:



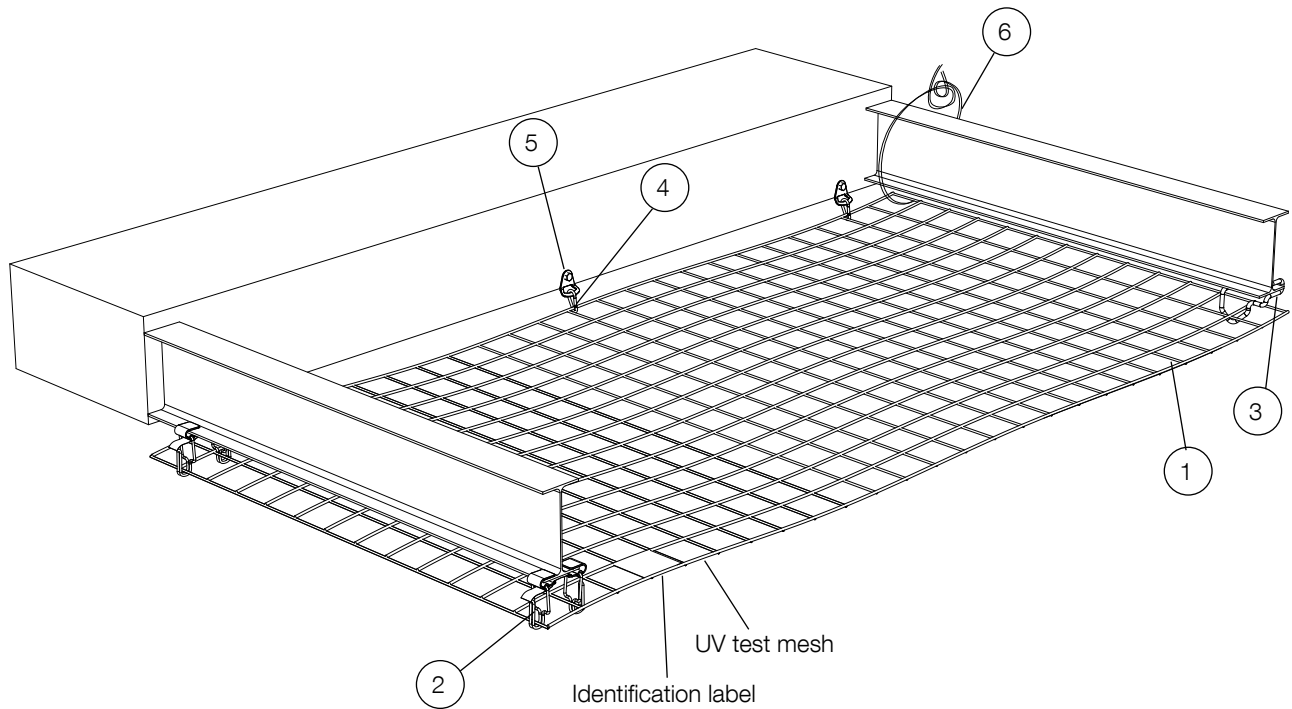
## CHECK MATERIAL

Check all parts for mounting. If in doubt, contact the fall protection adviser, replace or discard damaged material.



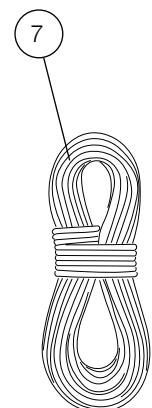
# INITIAL DETAILS

NO.	PART NO.	DESCRIPTION	DIMENSIONS	WEIGHT
1	941020	Fall protection net 100×100 mm	10×12 m	29 kg
1	910121	Fall protection net 100×100 mm	8×12 m	23 kg
1	941022	Fall protection net 100×100 mm	8×10 m	19 kg
2	941013	Net claw double (grippa)	22 mm	0,9 kg
2	941014	Net claw double (grippa)	50 mm	0,9 kg
3	941015	Net claw single		0,3 kg
4	915107	Carabiner oval 30 kN triplock		0,1 kg
5	967062	Bolthanger		0,1 kg
6		Tie rope 30 kN EN 1263-1		




## ADDITIONAL EQUIPMENT

NO.	PART NO.	DESCRIPTION	DIMENSIONS	WEIGHT
1	941120	Additional net mesh 20×20 mm	10×12 m	29 kg
1	911121	Additional net mesh 20×20 mm	8×12 m	23 kg
1	941122	Additional net mesh 20×20 mm	8×10 m	19 kg
7	940500	Coupling rope 7,5 kN EN 1263-1		



# IDENTIFICATION LABEL

Each Safety net must have test meshes and label fixed to the net containing the following information to meet the standard.

Designation	European standard	System	Mesh size (mm)	Net size (m)
Safety net	1263-1	S	M -XXX	XX-XX
<b>SAFETY NET</b> <b>EN 1263-1</b>  Minimum breaking force of the test mesh 2,2 kN.				
Register no. (Object) XXXXXX				
Date of production XX/XXXX				
Date of test XX/XXXX				
				Reference no. (Art. no.): XXXXXX

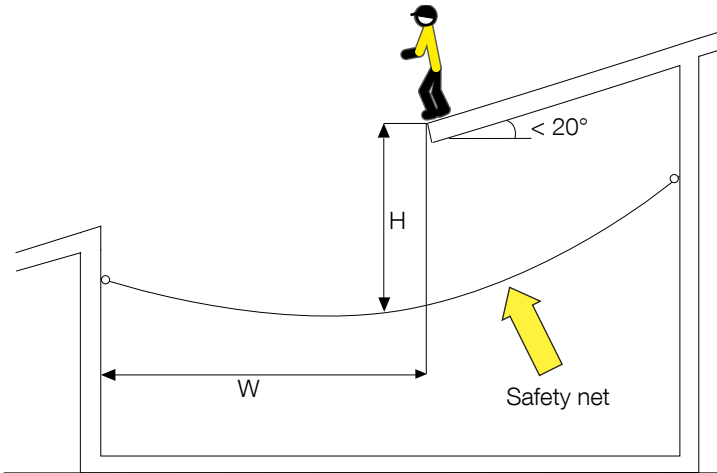
# ANNUAL INSPECTION

The Safety net shall be tested every 12 months to ensure it has not deteriorated due to UV exposure and remains safe for use. Remove one test mesh and return it to SafetyRespect. If the test is approved, a certificate and a pass label valid for another 12 months will be issued. The pass label must be attached to the safety net.



# CATCHING WIDTH

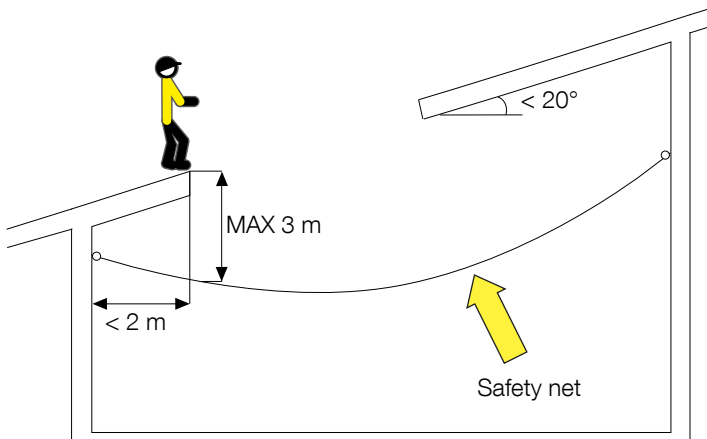
Catching width, W is the horizontal distance from working position to the edge of the Safety net. The distance is affected by the height of the fall and the Safety net must be wide enough to catch the falling persons forward movement. Vertical distance, H between working level and safety net should not exceed 6 m.



FALL HEIGHT (H)	CATCHING WIDTH (W)
$\leq 1,0$ m	$\geq 2,0$ m
$\leq 3,0$ m	$\geq 2,5$ m
$\leq 6,0$ m	$\geq 3,0$ m

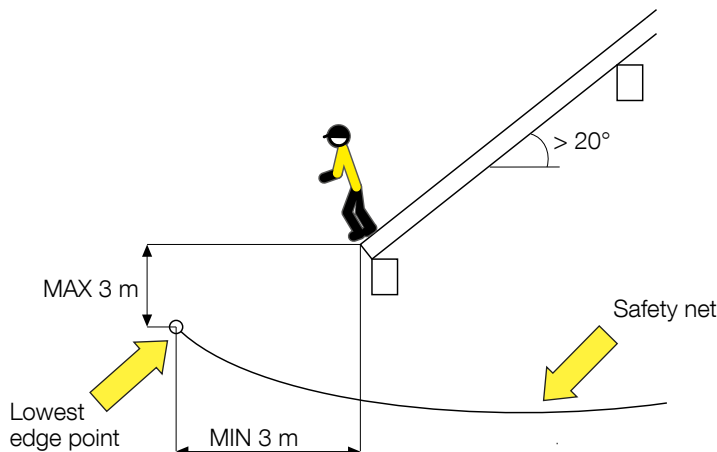
## WORKING POSITION < 2 M FROM EDGE

Vertical distance should not exceed 3 m when working position is < 2 m from edge of the Safety net.



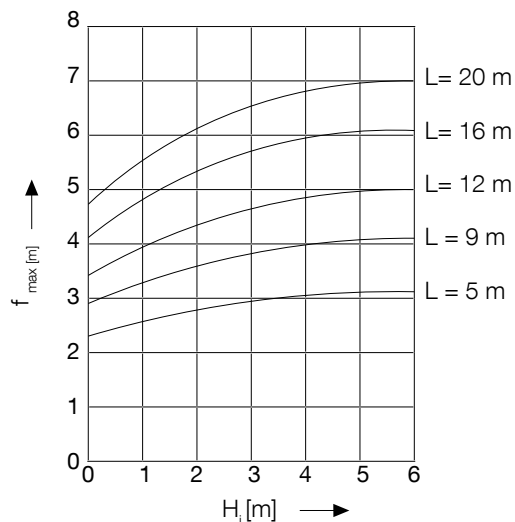
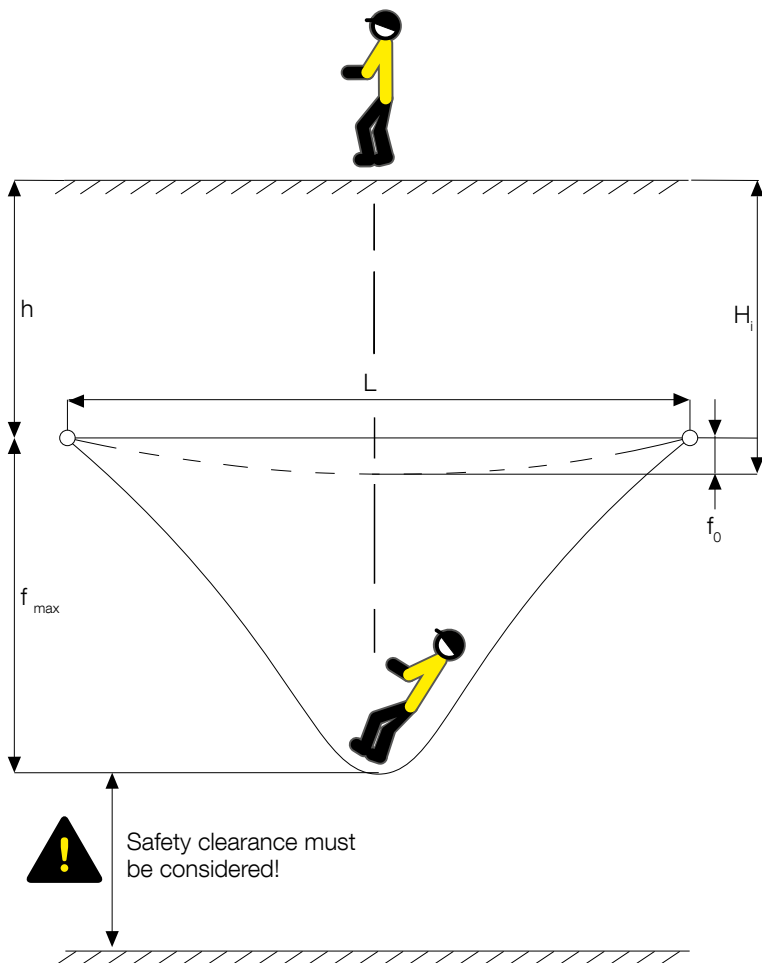
## WORKING SURFACE $\geq 20^\circ$

If working surface is  $\geq 20^\circ$  the vertical distance between working level and the lowest edge point of Safety net should not exceed 3 m and catching width must be at least 3 m.



# DEFORMATION AND CLEARANCE DISTANCE

There must be enough clearance below the Safety net to allow deformation when a person fall into it.



- $h$  Vertical distance from attachment point of Safety net to working position.
- $L$  Span of Safety net, (shortest side).
- $H_i$  Vertical distance from Safety net to working position.
- $f_0$  Net sag, maximal deformation from weight of Safety net.
- $f_{max}$  Maximal deformation from weight of Safety net and the dynamic weight.

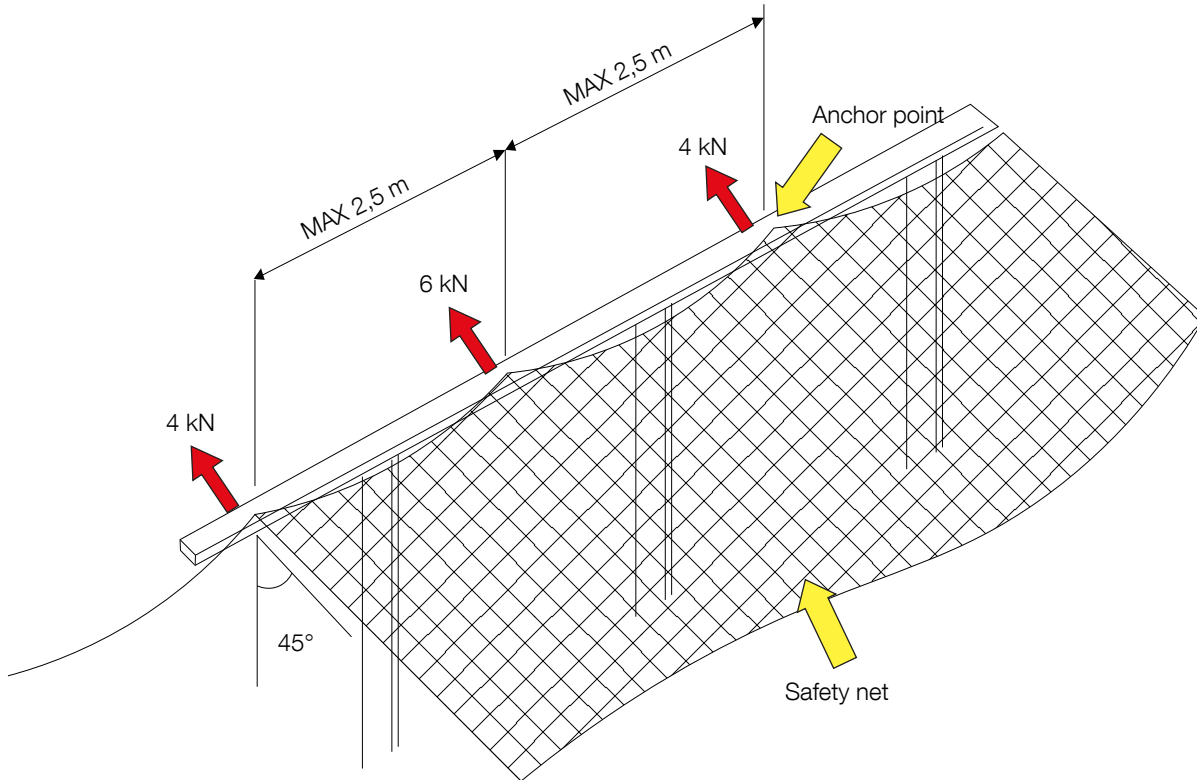
where:

$$H_i = h + f_0 \leq 6 \text{ m}$$

$$f_0 \leq 0,1 \times L$$

## SUPPORT STRUCTURE

Safety net must be attached to an anchor point at least every 2,5 m. The characteristic load at each anchor point must be capable to withstand 6 kN at an angle of  $\alpha=45^\circ$ . For the calculation of the support structure, three characteristic loads of 4 kN, 6 kN and 4 kN should be considered applied in the least favorable way, see figure:

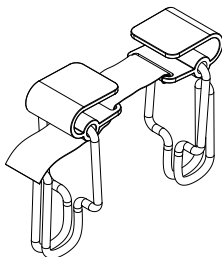


## METHODS

Safety nets can be attached to the structure with following components:

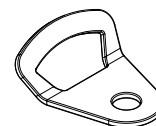
### NET CLAW DOUBLE

Attached to horizontal steel beams.



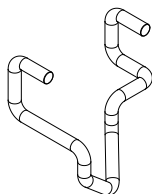
### BOLT HANGER

Attached with Ø10 mm screw.



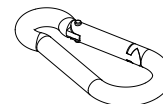
### NET CLAW SINGLE

Attached to horizontal steel beams.  
Note! Maximum c-c distance 1,5 m.



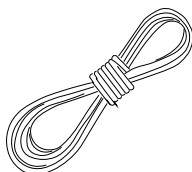
### CARABINER

Minimum tensile strength of 6 kN.



### TIE ROPE

Approved for a minimum of 30 kN in accordance with EN 1263-1.

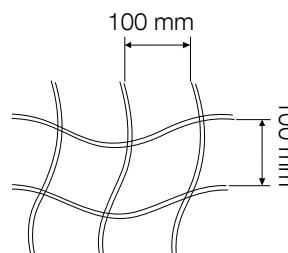


## KNOTS

When using tie ropes, various knots can be used that are suitable for specific loads. Knots must be tied by a person with the appropriate knowledge and competence.

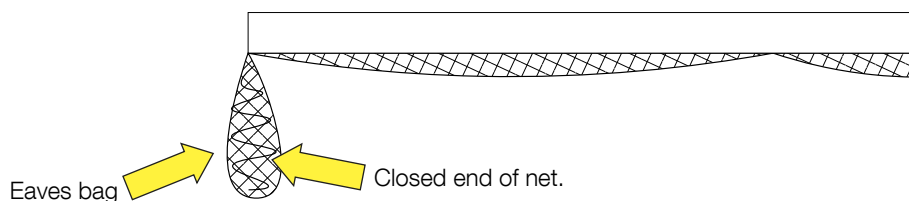
## GAPS

No gaps greater than 100×100 mm (one mesh) is allowed.



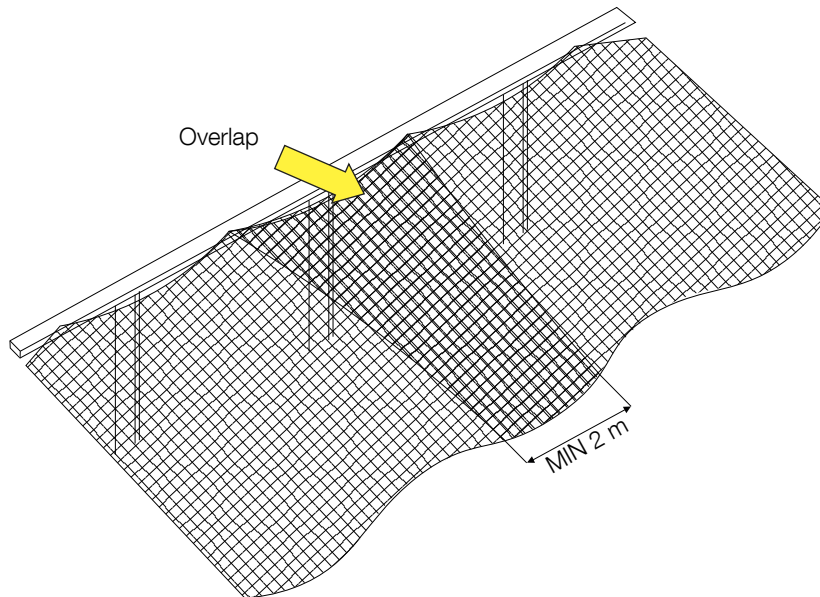
## EAVES BAG

Eaves bag can be useful if anchor points are widely spaced and the Safety net is leaving a gap where a person could fall through. Fold approximately 2 m of Safety net back on itself and stitch the sides together to create a bag. Ensure that the border rope along the length of the eaves bag is straight and the drop ends are closed up.



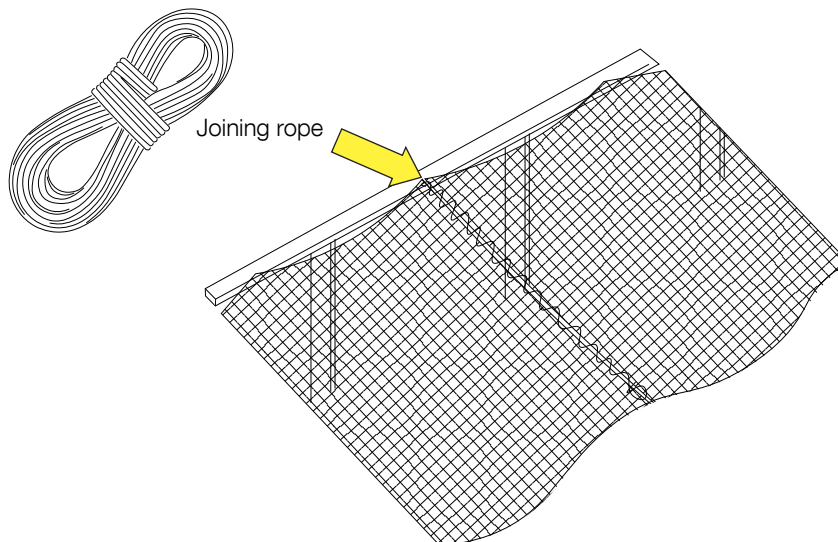
## OVERLAP

The overlap must be at least 2 m measured at the narrowest point for the entire length.



## JOINING NETS

When joining Safety nets they must be linked with a coupling rope with a minimum 7,5 kN breaking strength type O according to EN 1263-1. The coupling rope must pass around both border ropes and through every mesh. Tie the ends at the corners.



# MAINTENANCE

## REPAIR AND INSPECTION

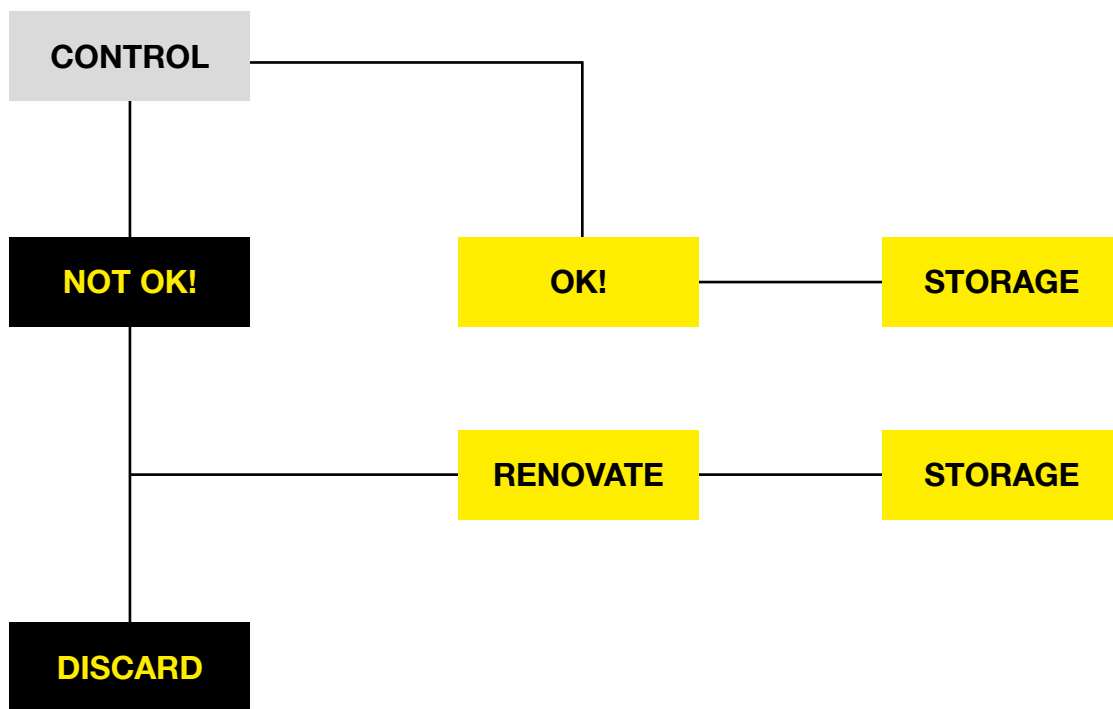
The Safety fan shall always be inspected by a person with the appropriate knowledge before being put back into use again. All repairs need to be performed by, or under the supervision, of a competent person (see below).

The Safety fan shall be visually inspected every day to ensure the system is securely installed and has not deteriorated through UV exposure.

Check that:

- The parts match as they should.
- No deformations can be found.
- No cracks can be found.
- No alterations have been made to the system.
- No rust can be found.
- No other external influences can be found.
- No stitches are damaged.

Clean the parts when required.



## STORAGE, CARE AND INSPECTION

The Safety fan should be stored in a dry place protected from sunlight. Keep away from heat sources, corrosive materials, acids, solvent oils etc. It is the installer’s responsibility to carry out a visual inspection of Safety fan and attachment system. All damage must be reported and corrected before any work commences.

## COMPETENT PERSON

A competent person is someone who has been given the appropriate training and been authorized by SafetyRespect to perform inspections and repairs.

# SAFETYCHECK SAFETY NET

WORKSITE		DATE	
Location		Order no.	
Manager		Check no.	

SITE/PART OF BUILDING			
1		3	
2		4	

CHECK POINTS	YES	NO	REFERENCE	REMARKS
Is the intended installation instructions available?			Manual Safety fan	
Have recommended safety precautions been taken?			Page 2	
Are the components free of damage?			Page 2	
Is the mesh free from damage?			Page 2	
Is the label of the net current and valid?			Page 5	
Is the catching width wide enough for the falling height?			Page 6	
Is the clearance below the Safety net enough?			Page 7	
Has the initial net sag been considered?			Page 7	
Is the support structure and anchor points sufficient to withstand the required loads?			Page 8	
Is the maximum distance between anchor points less than 2,5 m?			Page 8	
Has the installation and joining of Safety nets been made according to instructions?			Page 9, 10	

CHECKING THE ABOVE LIST CONDUCTED BY			
Date		Signature	