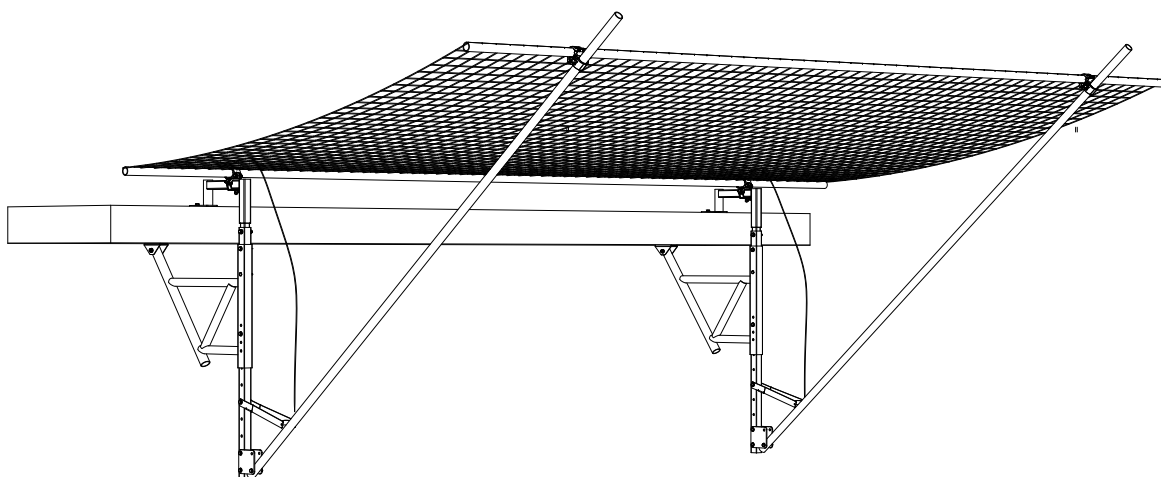


SAFETY FAN SYSTEM

USER MANUAL



CONTENT

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GENERAL INFORMATION

SafetyRespect's Safety fan is used to catch falling objects (not people). The system is a compliment to SafetyRespect's ordinary edge protection system and is used to catch falling material and objects that may constitute a risk for injuries or damages.

Safety fan may be used when objects smaller than

50 kg can be dropped from a maximum height of 3 meters. If the Safety fan is made denser by using fabric, plastic, wood structures or similar, the load caused by wind will increase. Never change these conditions without obtaining permission from SafetyRespect. Remove snow and ice as they may increase the load on the system.

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

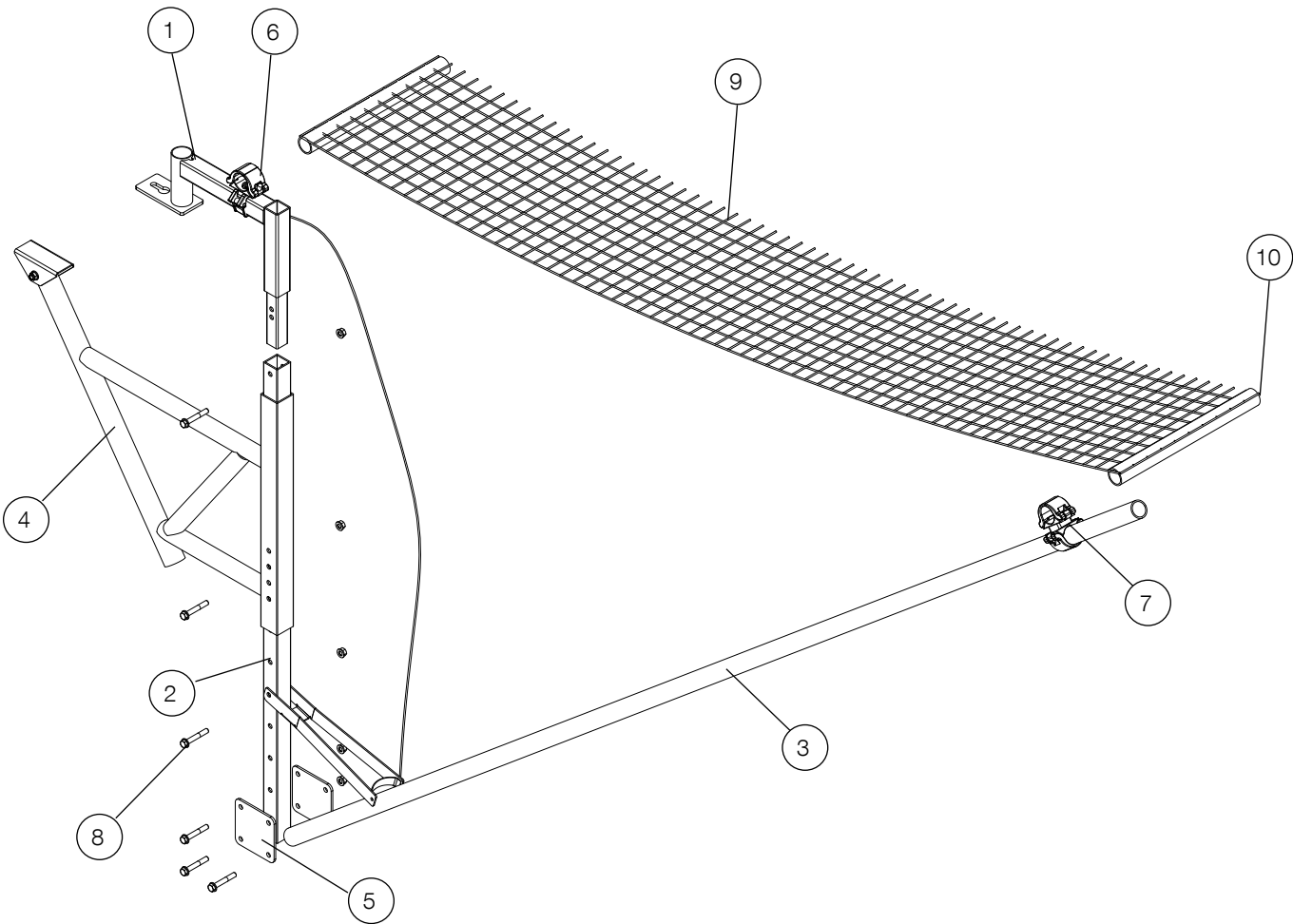
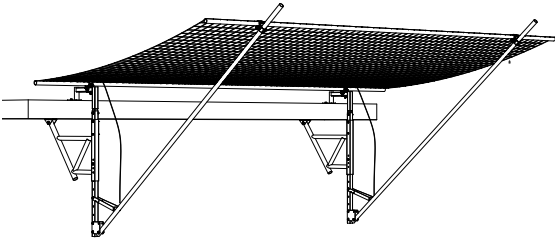
Check all parts for mounting. If in doubt, contact the fall protection adviser, replace or discard damaged material.



INITIAL DETAILS

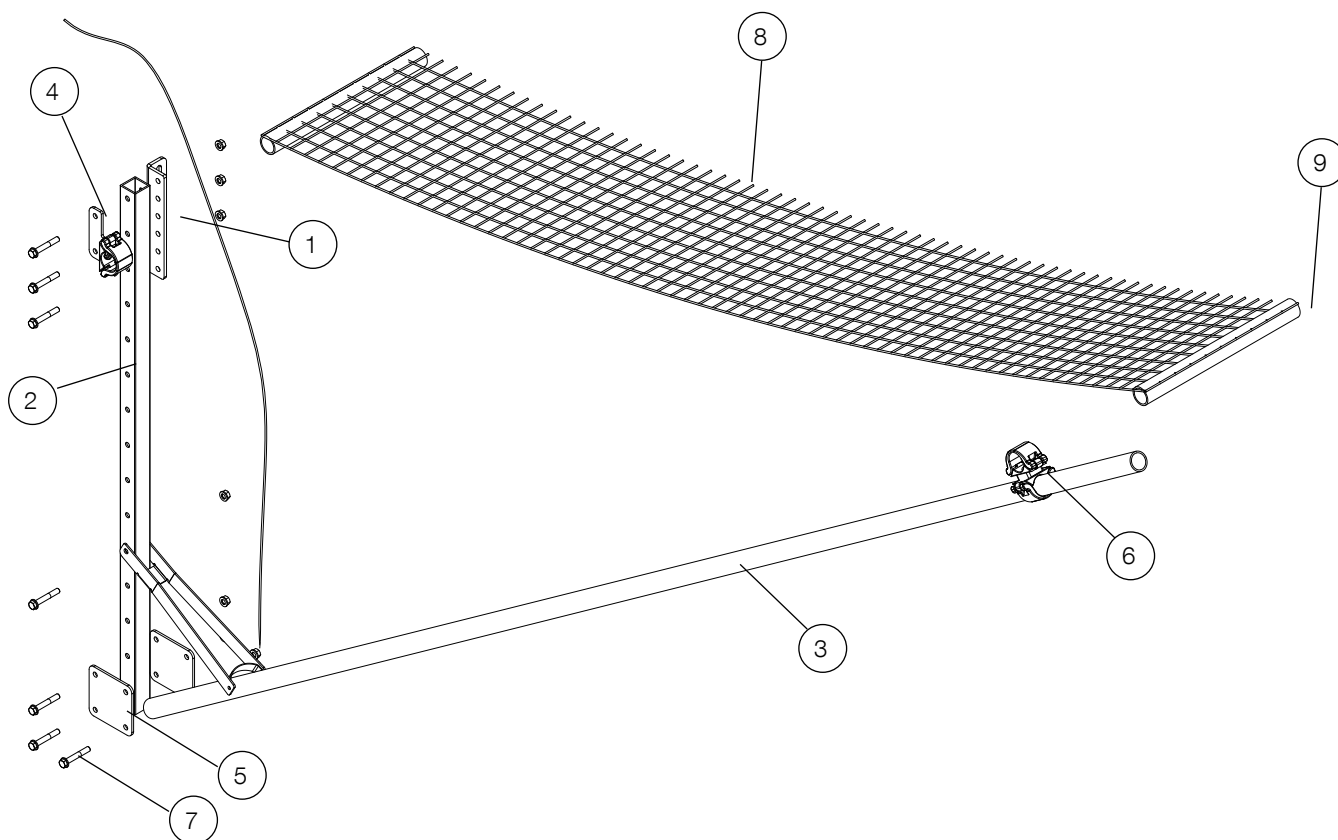
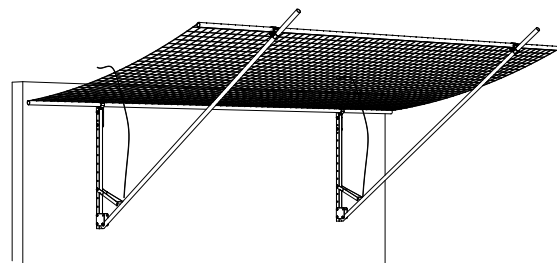
SLAB EDGE

NO.	ART. NO.	DESCRIPTION	WEIGHT	QTY
1	915100	Top bracket	3,3 kg	2 pcs
2	915101	Alu beam 1500	2,9 kg	2 pcs
3	910115	Alu pipe 4 m	6,0 kg	2 pcs
4	915102	Bottom support	6,0 kg	1 pcs
5	914141	Plate 140x140	0,9 kg	4 pcs
6	915104	Coupler 48-50 (screw)	1,5 kg	4 pcs
7	915107	Double coupler (screw)	1,5 kg	4 pcs
8	-	Bolted joints M12x80	-	12 pcs
9	914013	Net safety fan 3x6	6,0 kg	1 pcs
10	910114	Alu pipe 6 m	6,7 kg	2 pcs



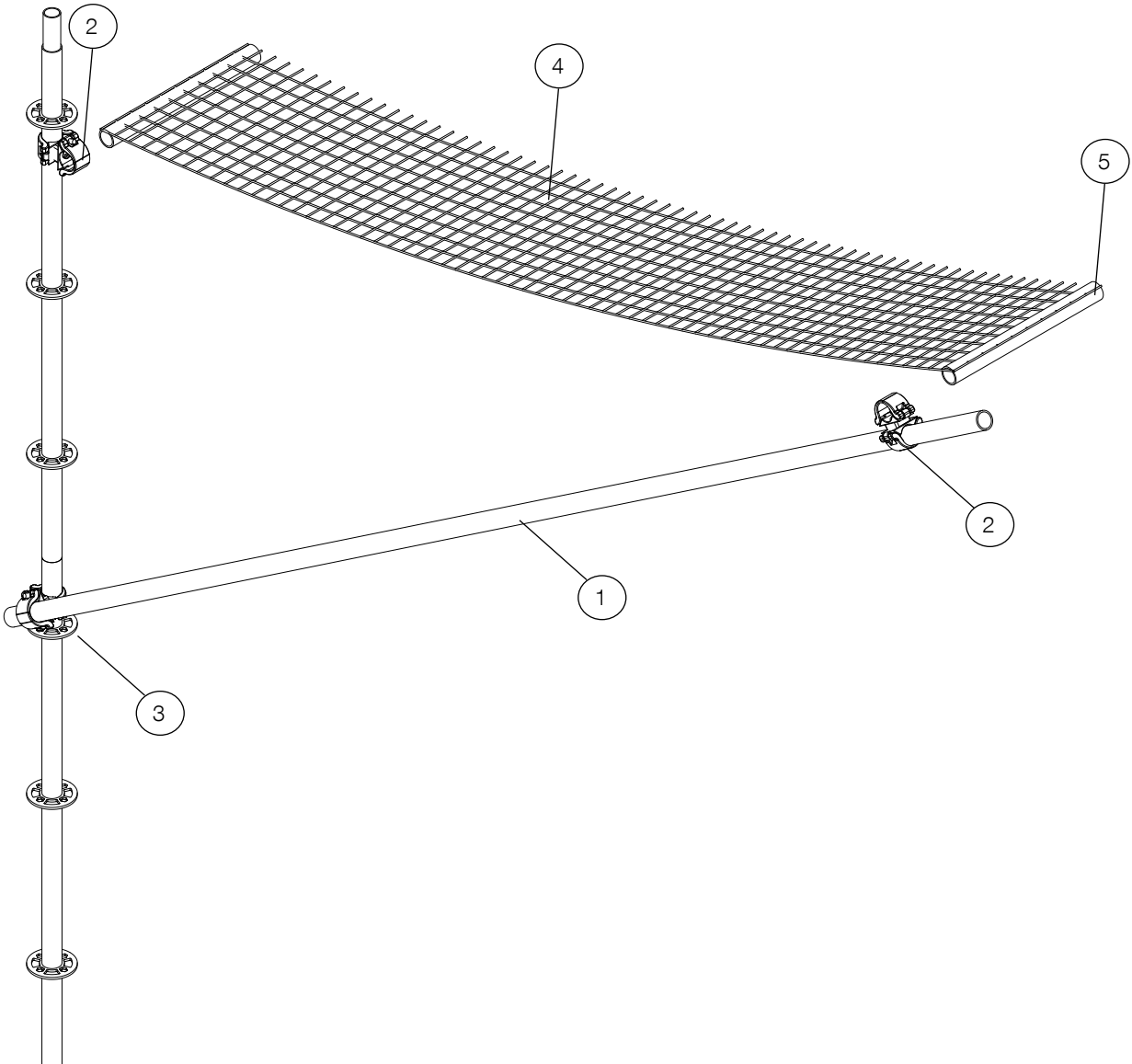
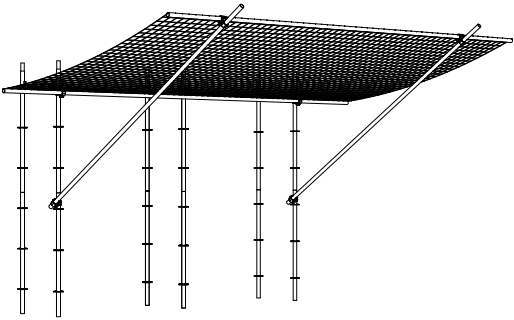
WALL

NO.	ART. NO.	DESCRIPTION	WEIGHT	QTY
1	914105	Flex keyhole bracket	2,5 kg	2 pcs
2	915101	Alu beam 1500	2,9 kg	2 pcs
3	910115	Alu pipe 4 m	6,0 kg	2 pcs
4	915103	Coupler bracket	1,0 kg	2 pcs
5	914141	Plate 140x140	0,9 kg	4 pcs
6	915107	Double coupler (screw)	1,5 kg	2 pcs
7	-	Bolted joints M12x80	-	14 pcs
8	914013	Net safety fan 3x6	6,0 kg	1 pcs
9	910114	Alu pipe 6 m	6,7 kg	2 pcs



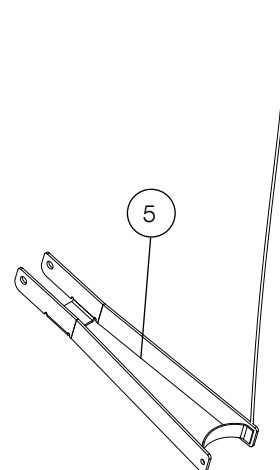
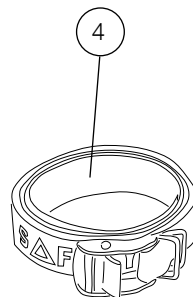
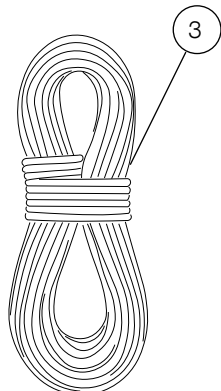
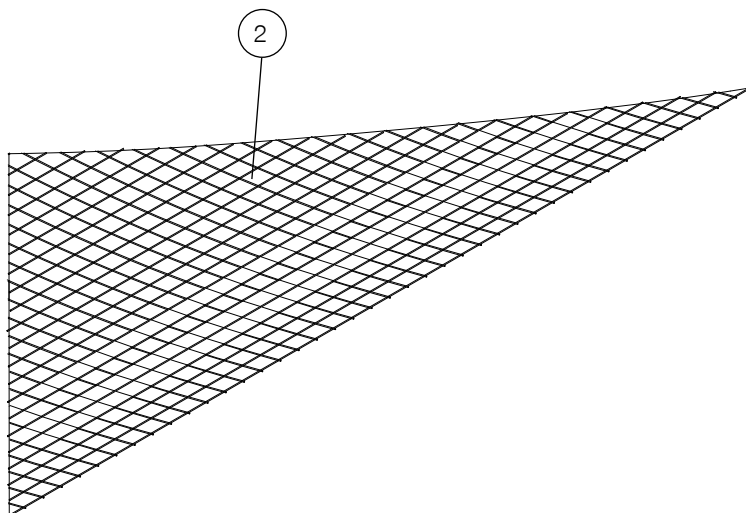
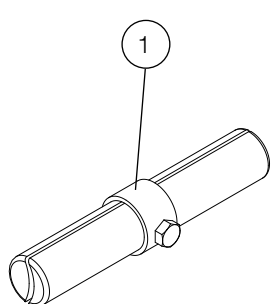
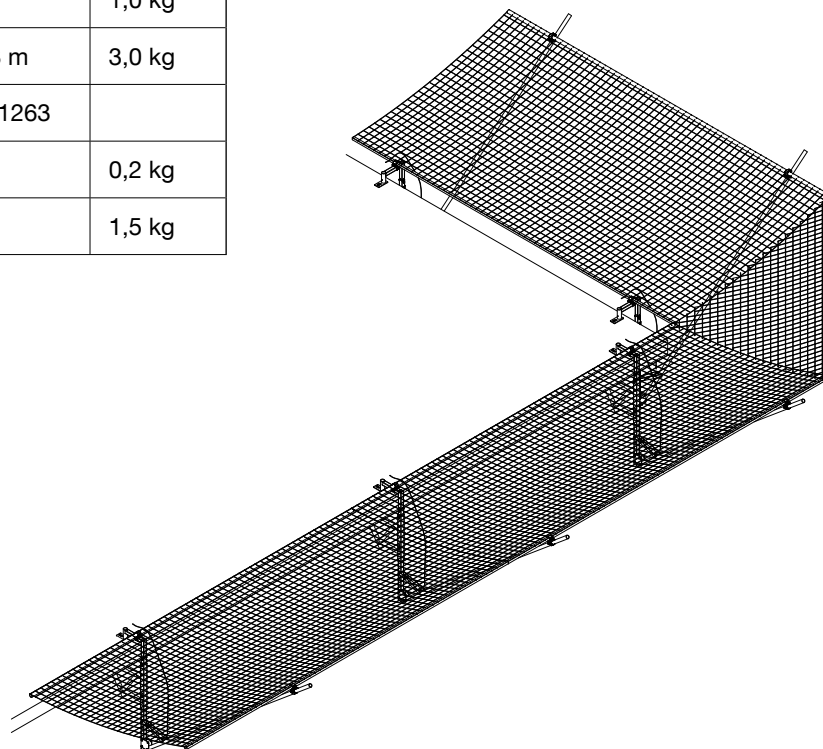
SCAFFOLD

NO.	ART. NO.	DESCRIPTION	WEIGHT	QTY
1	910115	Alu pipe 4 m	6,0 kg	2 pcs
2	915107	Double coupler (screw)	1,5 kg	4 pcs
3	915108	Double coupl. swivelling (screw)	1,5 kg	2 pcs
4	914013	Net safety fan 3x6 m	6,0 kg	1 pcs
5	910114	Alu pipe 6 m	6,7 kg	2 pcs



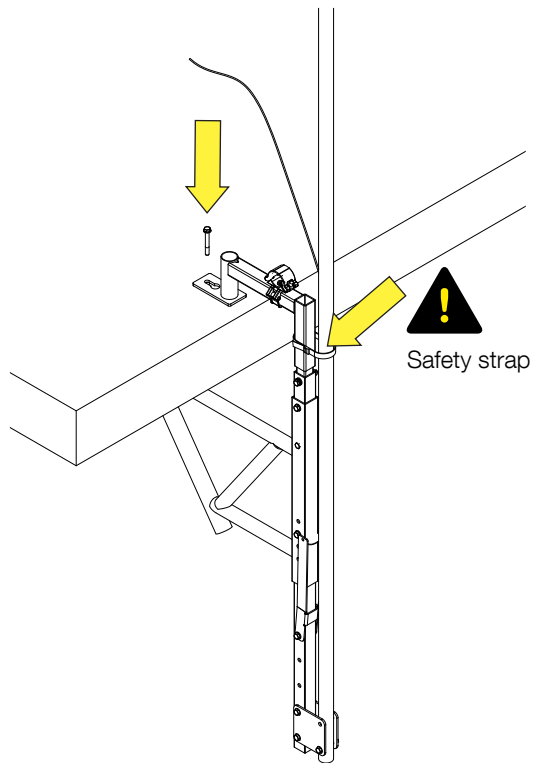
ADDITIONAL EQUIPMENT

NO.	ART. NO.	DESCRIPTION	WEIGHT
1	914152	Joint pin	1,0 kg
2	914012	Net safety fan corner 3x3 m	3,0 kg
3	940500	Coupling rope 7,5 kN EN1263	
4	919206	Safety strap 0,6 m	0,2 kg
5	914020	Windlock safety fan	1,5 kg

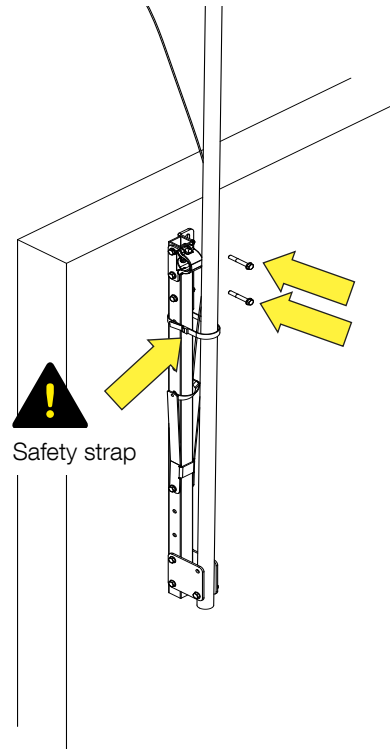


ATTACHMENT

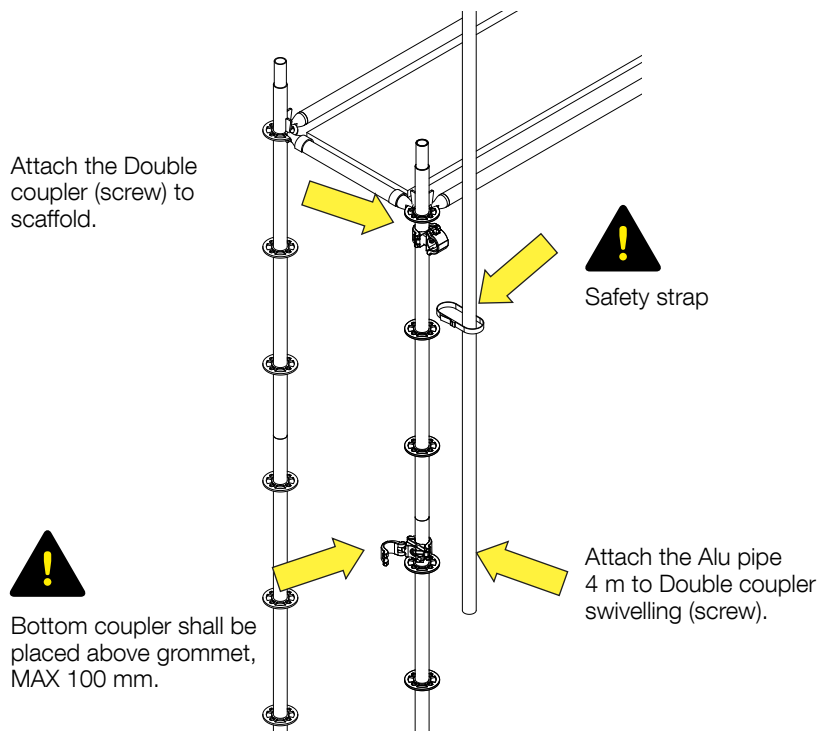
SLAB EDGE



WALL

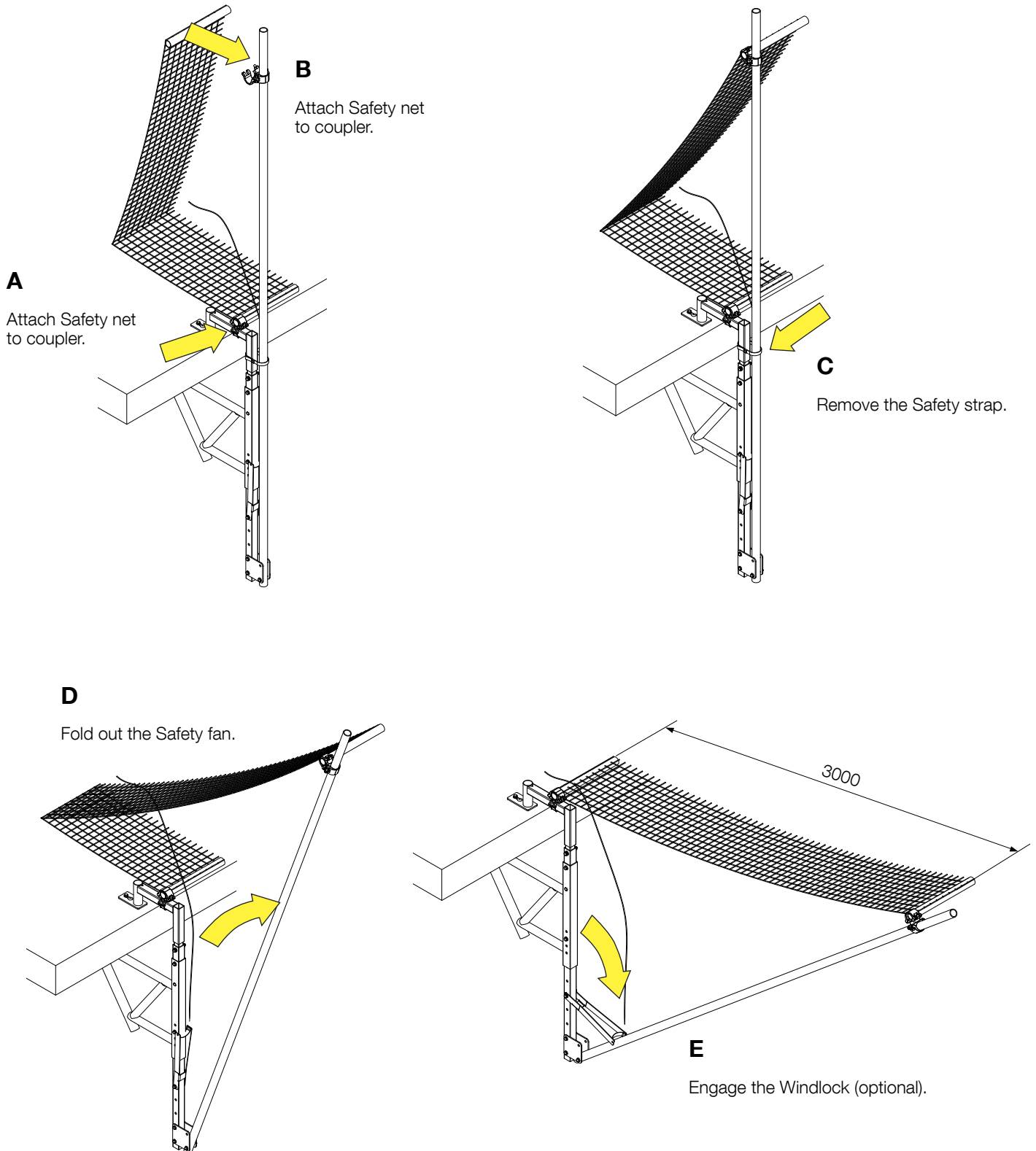


SCAFFOLD



MOUNTING

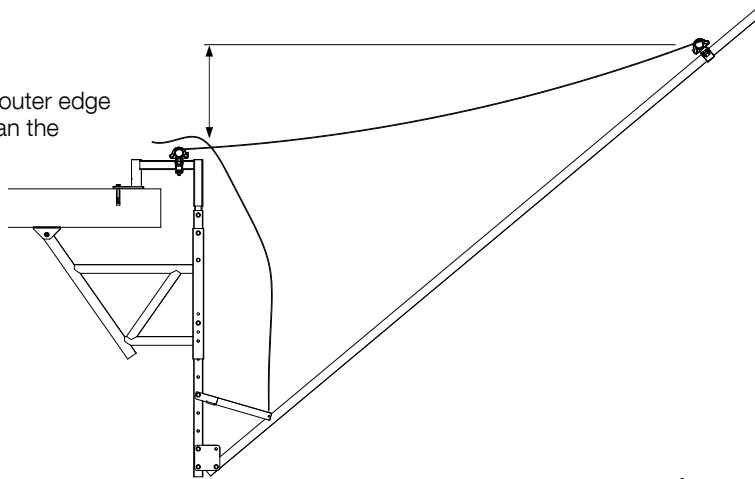
Follow the same procedure for mounting nets to wall- and scaffold configuration.



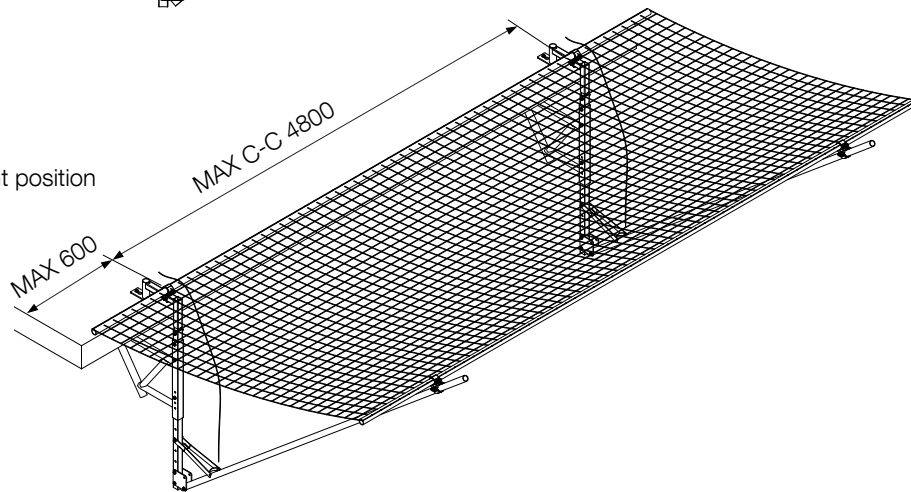
(mm)



Ensure the outer edge is higher than the inner edge.

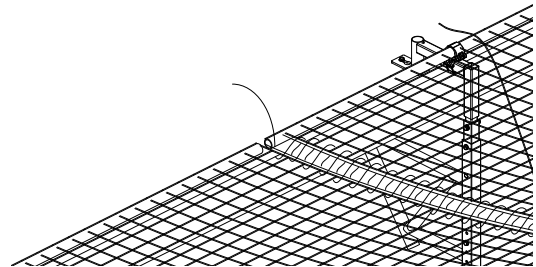
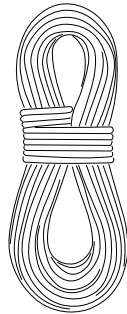


Attachment position



CONNECTIONS

For connection of Safety fan nets, a coupling rope with a minimum 7,5 kN breaking strength according to EN 1263 must be used. The coupling rope must pass around both border ropes and through every mesh. Tie the ends at the corners. The connection must be made in such a way that no holes larger than 100 mm are formed between the netting edges.

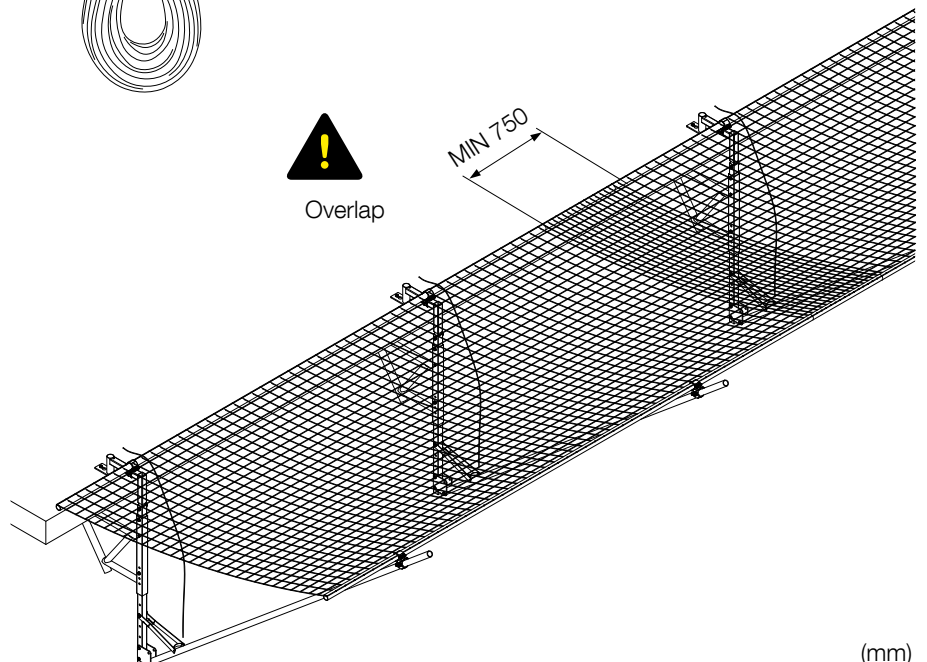


OVERLAP

For connection without coupling rope the Safety fan must be overlapped. The overlap should be at least 750 mm.



Overlap



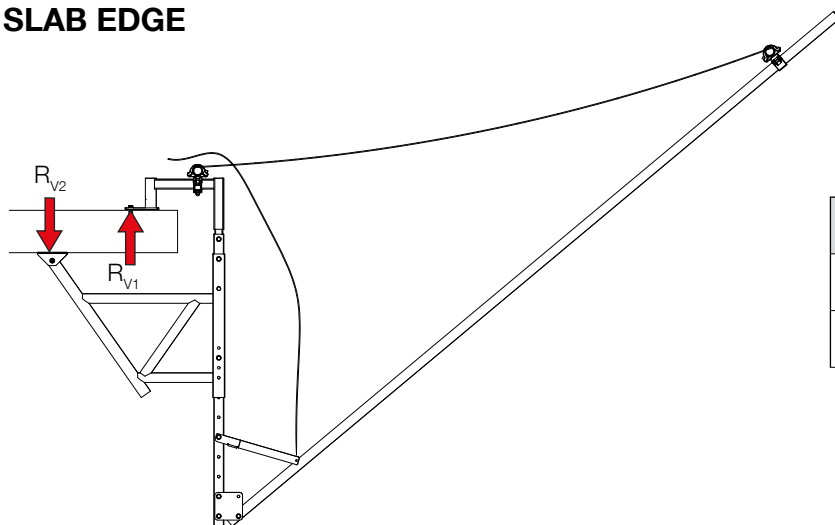
DISMANTLING

Dismantle Safety fan in reverse order.

(mm)

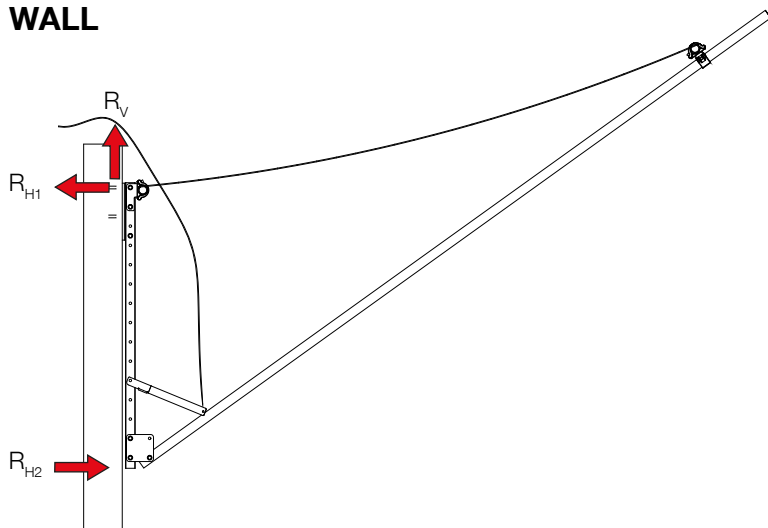
LOADS

SLAB EDGE



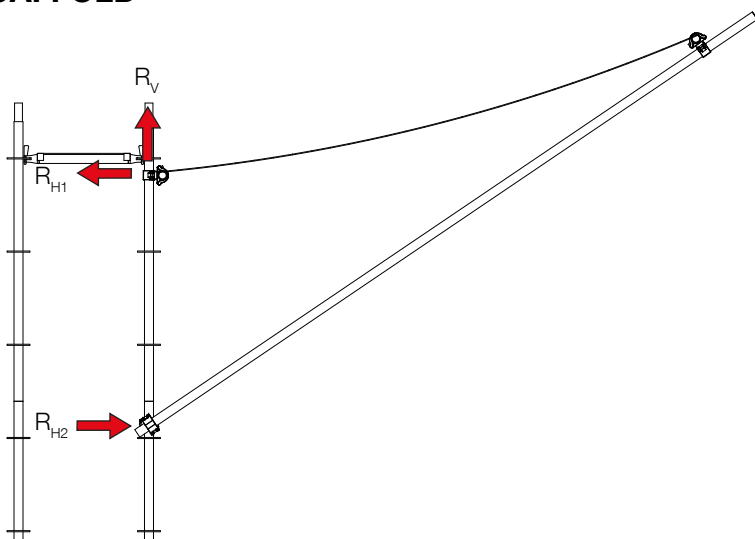
DESIGN PULL OUT LOADS*		
R_H	Horizontal	9,1 kN
R_V	Vertical	6,9 kN

WALL



DESIGN PULL OUT LOADS*		
R_{H1}	Horizontal	1,4 kN
R_{H2}	Horizontal	1,4 kN
R_V	Vertical	3,4 kN

SCAFFOLD



DESIGN PULL OUT LOADS*		
R_{H1}	Horizontal	1,4 kN
R_{H2}	Horizontal	1,4 kN
R_V	Vertical	3,4 kN

*Design loads are including safety factor for load ($\gamma_F=1.5$) and excluding safety factor (γ_M) for structure material.

MAINTENANCE

REPAIR AND INSPECTION

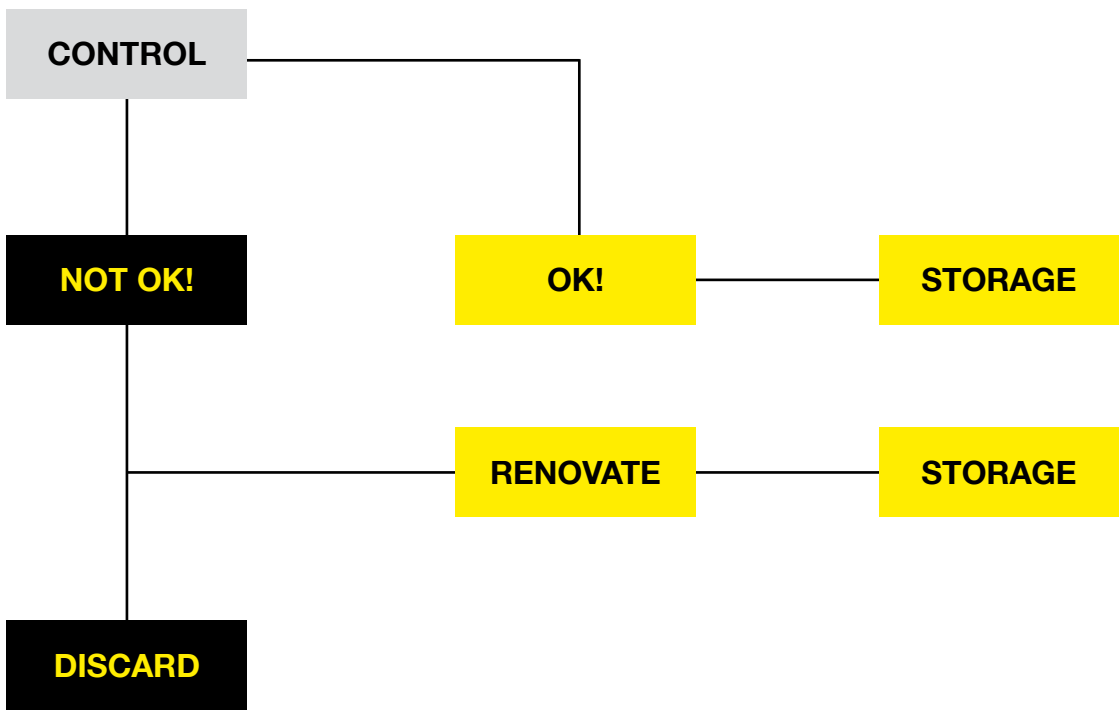
The Safety fan shall always be inspected by a person with the appropriate knowledge before being put back into use again. All repairs need to be performed by, or under the supervision, of a competent person (see below).

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 FAN

Safetycheck is also available on mobile devices online: safetycheck.se

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 the necessary safety precautions been met?			Page 2	
Are the components free of damage?			Page 2	
Is the mesh free from damage?			Page 2	
Are all brackets properly anchored?			Page 8	
Are all screws, pipe joints and couplings properly tightened?			Page 9	
If mounted, has the windlock function been verified?			Page 9	
Is the outside net edge higher than the inside edge?			Page 10	
Are the connections made according to instructions?			Page 10	
Is the maximum distance between the consoles 4,8 m?			Page 10	
Has the specified loads for slab edge, wall or scaffold been checked?			Page 11	

CHECKING THE ABOVE LIST CONDUCTED BY			
Date		Signature	

