



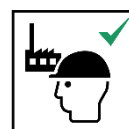
# Manual

Roof Edge Protection Class C

Conform NEN-EN 13374  
Class A,B en C

This manual is property of:

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<b>1</b>	<b>Overview</b>	<b>4</b>
1.1	Application	4
1.1.1.	Forces	4
1.2	List of components	6
<b>2</b>	<b>Assembly and use</b>	<b>7</b>
2.1	Positioning	7
2.1.1.	Sureface	7
2.1.2.	Gutter	7
2.1.3.	Roof egde	7
2.1.4.	Obstacles	7
2.1.5.	Maximum height	7
2.1.0.	Weather conditions	7
2.2	Personal protective equipment	8
2.3	Opbouw	8
2.4	Assembly Instructions	8
2.5	Use	10
2.5.1.	Veilig gebruik	10
2.5.2.	After a fall into the net	10
2.5.3.	Edge board	10
2.5.4.	Security	10
2.5.5.	Relocation	10
2.6	Chemical products	10
<b>3</b>	<b>Inspection, care and maintenance</b>	<b>11</b>
3.1	The Health and Safety Law	11
3.1.0.	Annual control	11
3.1.1.	Self-inspection	11
3.1.2.	Damages	11
3.1.3.	What to do in the event of damage	11
3.1.4.	Repair	11
3.2	Transport	12
3.3	Maintenance	12
3.4	Storage	12
<b>4</b>	<b>Componentants</b>	<b>13</b>

# 1 Overview

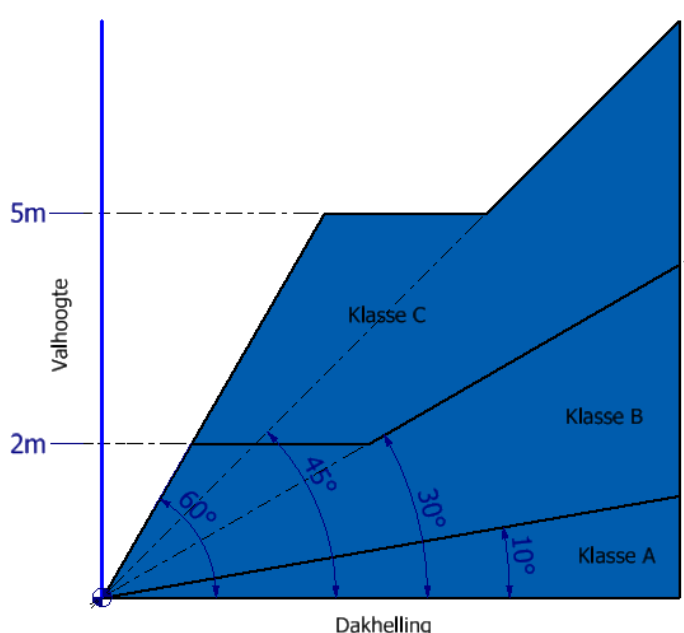
## 1.1 Application

A roof edge protection is a structure with handrails to prevent accidents at height.

The roof edge protection may be placed if:

- The roof slope is no greater than 60°.
- The fall height is not higher than 5 m
- The subsoil can bear the forces (see 1.1.1)

For roofs higher than 5 m, the roof pitch limit is 45° degrees. For class C, however, it is mandatory to also install the roof bracket and secure it to the roof boarding.



These conditions are adopted and tested according to NEN-EN 13374. The nets comply with EN 1263-1 and with assembly they are brought to the correct tension.

ASC Group roof edge protection is not intended for leaning against, sitting on or replacing a permanent balustrade. If in doubt, always consult your supplier or the manufacturer; contact information can be found at the front of this document.

**A roof edge protection should be constructed by secured persons.**

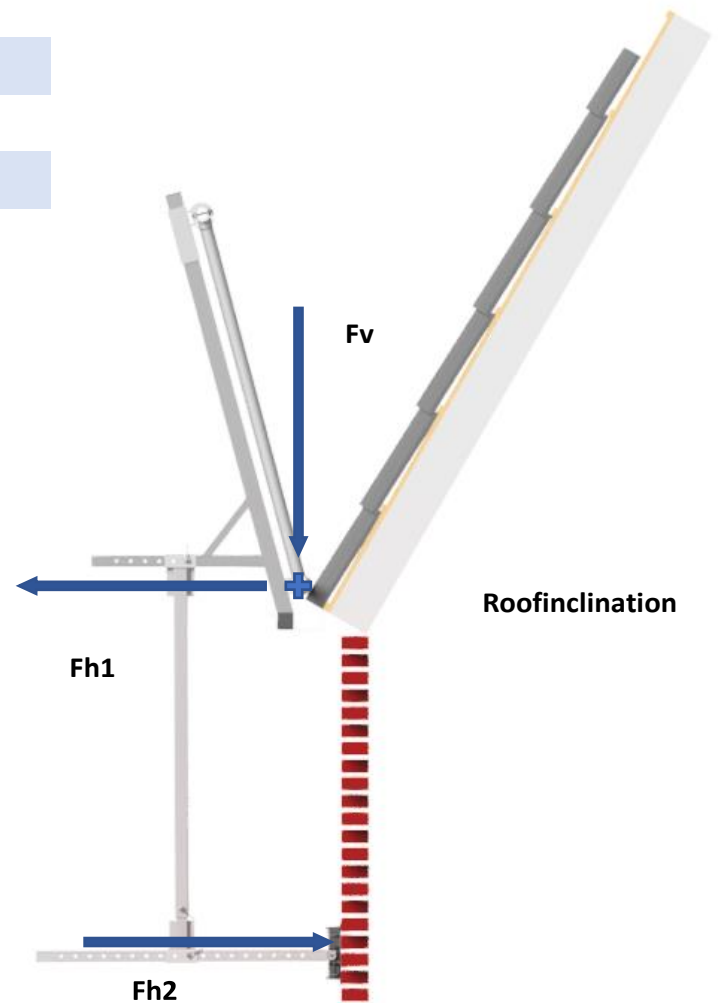
### 1.1.1. Forces

From the standard, the following loadings follow: The vertical force includes its own weight.

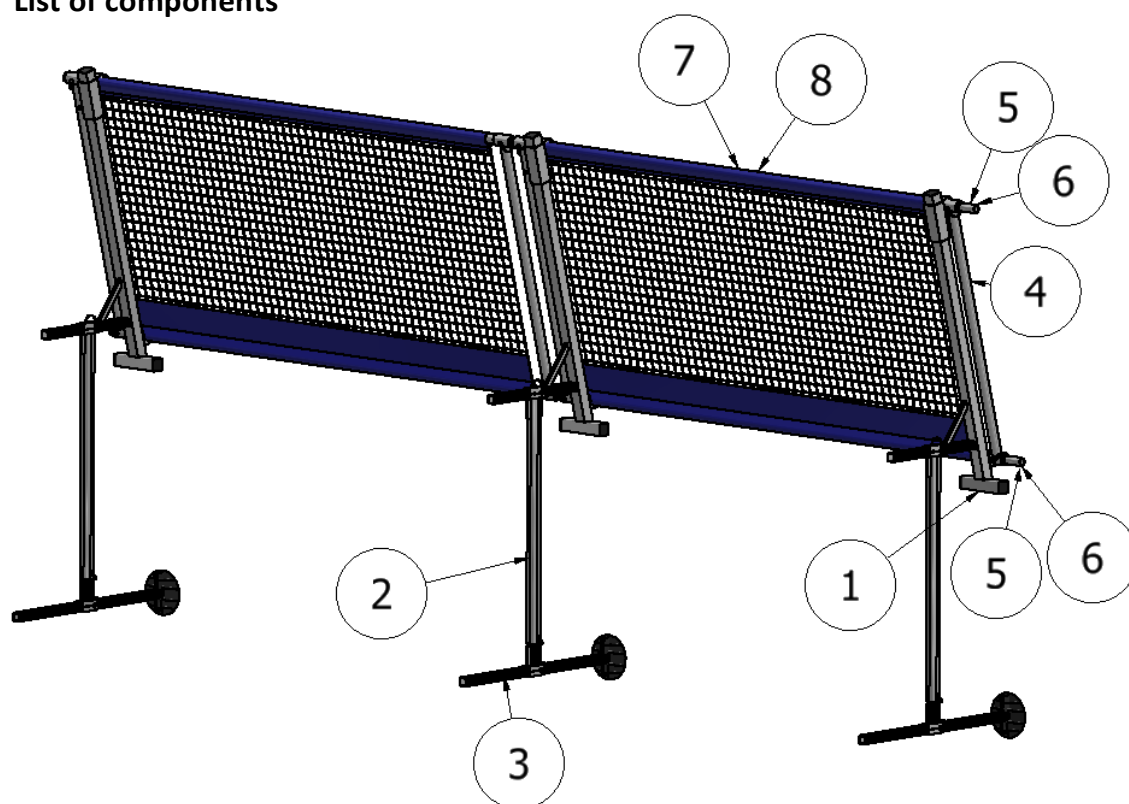
**Table 1**

Class	Static Load[kN]		
	Fh1	Fh2	Fv
A+B*	0,8	2,4	1,8
Roof Inclination	Dynamic Load[kN]		
	Fh1	Fh2	Fv
B 10°	5,5	3,9	0,5
B 30°	5,3	3,8	1,4
B 45°	4,7	3,4	2,8
B 60°	3,8	2,8	3,9
C 30-60°	6,1	4,1	4,3

\*= Maximum possible calculated force.



## 1.2 List of components



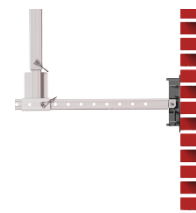
Nr.	Components	EAN Number
1	Post	8719998992984
2	Standard post	8719998992977
3	Wall bracket Horizontal	8719998992960
4	Wall bracket Vertical	8719998992953
5	Netframe	8719998992946
6	Tube 3 meter	8719998992939
7	Tube 2 meter	8719998992922
8	Net 3 meter	8719998992915

## 2 Assembly and use

### 2.1 Positioning

#### 2.1.1. Sureface

Always place the roof edge protection on a stable surface. Make sure that the longitudinal inclination of the roof is no more than 2 degrees. For class B and C, we recommend also installing the roof edge bracket. Make sure that the foot plate that leans against the wall always has its entire surface against the wall.

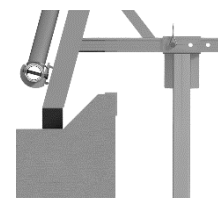


#### 2.1.2. Gutter

The gutter is large enough that the upright can be stable in it. A plastic gutter is not strong enough. All other gutters will have to be tested with the forces indicated in Table 1. In principle all zinc gutters should be able to do the job if they are properly supported.

#### 2.1.3. Roof egde

Make sure the roof edge against which the roof edge protection stands is sufficiently strong and high enough so that the roof edge protection cannot slide over the edge or break the roof edge.



#### 2.1.4. Obstacles

Position the roof edge protection in such a way that no danger can arise when working. Make sure that no tripping hazards can arise from obstacles on the roof.

#### 2.1.5. Maximum height

There is a maximum height of 20 m for placement.

#### 2.1.0. Weather conditions

Consult the weather report to determine safety in various weather conditions. Consider the following conditions and use common sense.

### Wind force

At wind force 5 or higher, a roof edge protection device may not be used.

### Precipitation

Remove snow and ice from the roof and eave protection before working. If necessary, sprinkle sand on the roof to prevent slippage.

### Cold

Do not use the roof edge protection at ambient temperatures below freezing.



## 2.2 Personal protective equipment

Always wear work gloves, safety shoes and safety helmet.

## 2.3 Opbouw

Aluminum roof edge protection devices may only be constructed by competent persons. According to regulations, each person assembling the roof edge protection must be secured with a fall arrest line.

Using the component list, check that all the parts required for the required for the assembly are present and undamaged. Damaged parts may not be used.

For checking for damage: see chapter 3.

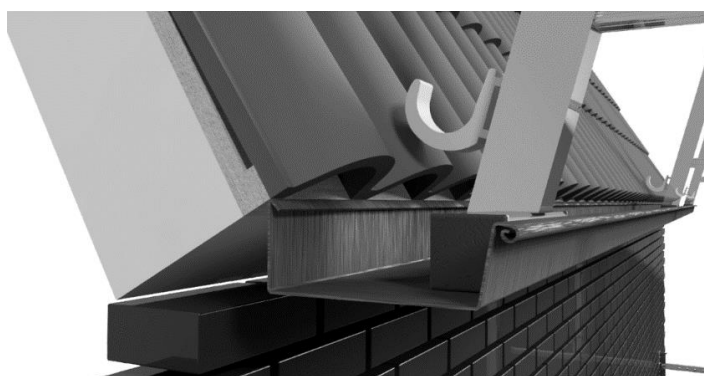
No tools are required when assembling a roof edge protection. Roof edge protection devices are not designed to be lifted or hung as a whole.

## 2.4 Assembly Instructions

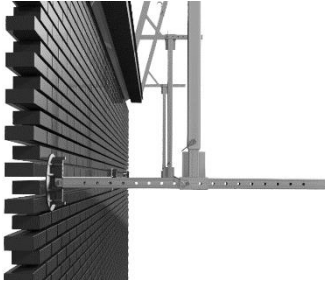
1. Prepare the gutter post for use (see picture on the right).
2. Pull out the locking bolt and slide the clamp cap up about 7.5 cm.
3. Measure the width of the gutter.
4. The distance between the post and the slide bar is approximately the width of the gutter.
5. Slide the lower stabilizer all the way back until the wall plate falls against the slide rod.



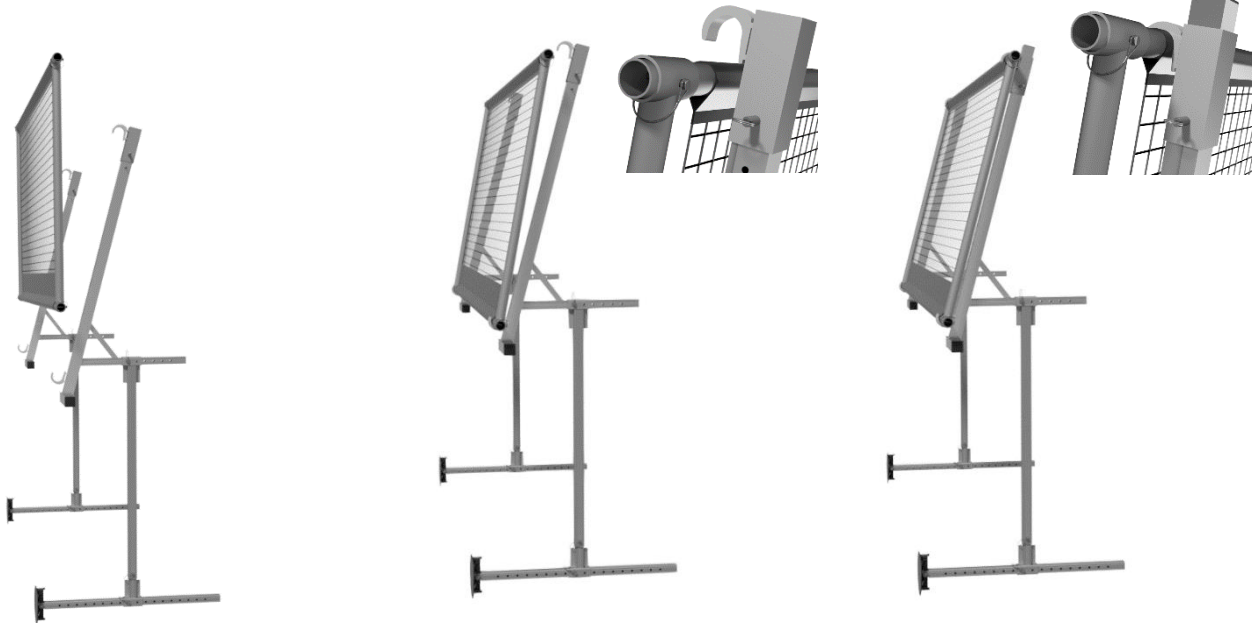
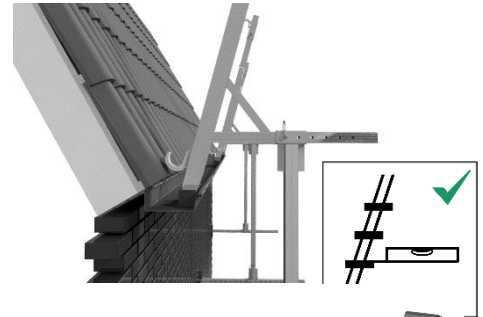
6. Prepare the net frame for use (see picture on the left).
7. Slide the two tubes into the net with the coupling pins to 1 side. Make sure there is a piece of tube left at both ends.
8. Slide the net frames over the tubes on both sides and secure with 4 locking clips.
9. Place the gutter post in the gutter with the base placed as close to the roof as possible.







10. Adjust the stabilizer bar to the correct distance and secure it again with two locking pins. This stabilizer bar must sit horizontally.
11. Place the next post about 2.5 meters further on.



12. Insert the net frame into the lower hook.  
When doing so, make sure the flap is on the roof side.
13. Place the net against the post and press the clamp cap with the hook around the top tube.  
Make sure the blocking bolt shoots back into the hole.
14. If you want to attach more lengths of net, repeat steps 1 through 13 until you have enough nets. You only need to add 1 extra upright per net.
15. Connect the tubes by sliding them over the pins and securing them with the locking clip.

Please note that there should never be more than 3 meters between the uprights.

## 2.5 Use

Before use, check that:

- All parts are still present
- All parts are still properly attached
- All parts are free of large dents and/or cracks
- There are any changes in the environment that may affect safe use
- All locking clips are correctly in place and the couplings are closed
- The net is free of tears and/or fraying.

### 2.5.1. Veilig gebruik

The roof edge protection is not intended for leaning against or sitting on.

Never use an eaves guard near  
non-insulated, electrical installations or machinery.

Do not attach a winch, hoist or rope to the roof edge protection.

### 2.5.2. After a fall into the net

After the fall protection has done its job, i.e. after every fall into the net, the fall protection must be inspected again by a certified body.

### 2.5.3. Edge board

The toe board is incorporated into the net.

### 2.5.4. Security

After a job, never leave the roof edge unattended.

### 2.5.5. Relocation

A roof edge protection is movable per section. A section consists of 2 uprights and a net.  
Please note:

- Move the roof edge protection preferably with two persons.
- Make sure that you are secured against falling at the edge of the roof.
- Make sure that the **roof edge protection cannot touch overhanging cables or other objects.**

## 2.6 Chemical products

Avoid contact with acids and chemical products. These can cause corrosion to the aluminium, which can affect the strength of the aluminium.

## 3 Inspection, care and maintenance

Occupational health and safety law states that you must work safely at heights.

### 3.1 The Health and Safety Law

The Working Conditions Decree is a concrete elaboration of the Safe Working at Height Act. It states that everything above 2.50 meters is 'working at height' and is therefore a situation with increased risk of injury. This also means that all materials must be properly manufactured and checked in a quality cycle. ASC Group tests all materials and performs strength calculations. The user must also have the material inspected annually for defects. In addition, an RI&E must be conducted for each project. It should determine whether this form of roof edge protection is suitable for the intended use.

#### 3.1.0. Annual control

Make sure all your roof edge protection devices are inspected annually by an approved inspector. ASC Group can perform this inspection for you. In the net, in accordance with 1263-1, there are extra pieces of net. These pieces of netting are intended to remain attached and should be checked every year by a competent person. After four years, the net must be replaced.

#### 3.1.1. Self-inspection

You can also inspect your ASC roof edge protection devices yourself. Before each use, you should at least check the parts for damage (see section 2.5). We definitely recommend larger companies to do a monthly inspection of all components and to record this inspection. If you are in doubt about any damage, consult an authorized inspector.

#### 3.1.2. Damages

Examples of the most common damages in aluminum roof edge protection:

- Loose parts: if a welded part is loose, the protection is rejected.
- Dents and/or holes: if there is a large dent in the aluminum or even a crack or hole in it, the protection is rejected.
- Contamination: If there is too much concrete, paint or other non-removable contamination on the parts, the security is rejected. You can no longer judge whether the parts are still in one piece.

#### 3.1.3. What to do in the event of damage

If you find any damage and you feel it is not repairable, you should discard the part and replace it. If a repair is possible, contact ASC Group for further information.

#### 3.1.4. Repair

Repairing a component must be carried out by a certified body or person.

### **3.2 Transport**

- Always transport parts in accordance with legislation.
- Stack the parts correctly when transporting; never put heavier parts on top of the stack.
- Never place (sharp) objects in the net and do not use the net as a lashing strap to secure other materials.
- Preferably transport parts standing up by securing them to the wall.
- Handle the material with care. Do not drop parts on a hard surface; this may reduce the quality of the material.

### **3.3 Maintenance**

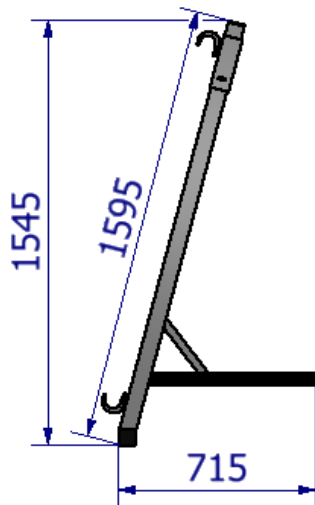
- Make sure the material is clean, especially the connecting pins. The tubes should go in and out of each other easily.
- Replace missing and broken parts in a timely manner.

### **3.4 Storage**

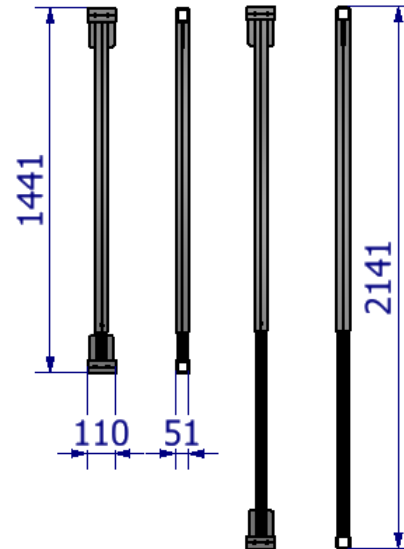
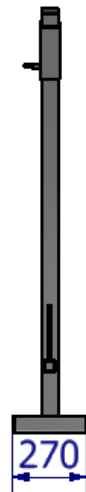
Store components of the scaffolding preferably in a dry, clean, dark and frost-free place.

## 4 Componenten

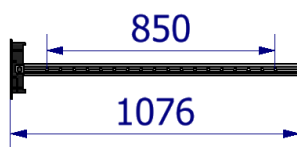
Post 4,5 Kg



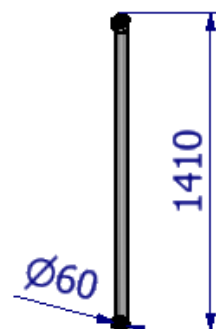
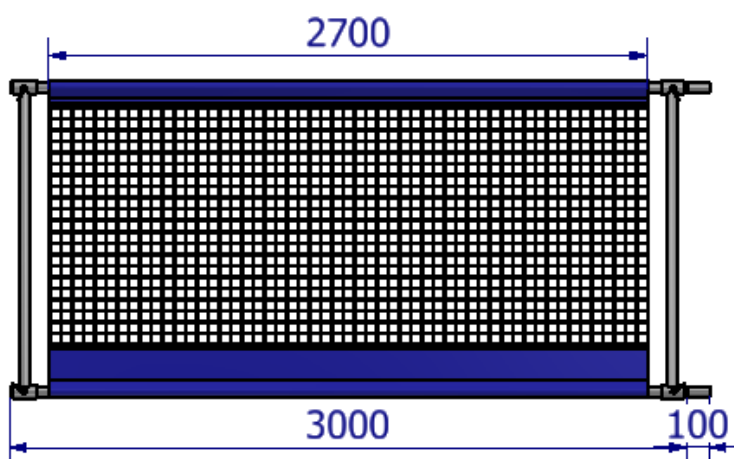
Hanger 1 4,2 Kg



Hanger 1 1.9 Kg



Netframe



Weight	Net	Frame	
3000	2,1	11,5	Kg
2000	1.4	8,0	Kg