





## We care about you and about safety!

The contents of this product catalogue are based on more than 30 years of experience in the field of roof safety. All our time is spent serving and providing individuals who spend time on the roof with the best conditions for safety and versatility. We are proud that our entire range is made in Sweden. We own the entire value chain, from initial concept to finished product, which means that we have the best conditions to ensure the products are of the best quality. Our products bring together design, safety and functionality. The fact that the products match the appearance of the roof and that they are user-friendly plays a major role, but the most important aspect is safety. All of us who work at CWL endeavour to make the future safer by continuing to develop and manufacture roof safety.

One of our success factors is the fact that we work closely with the market and listen to the feedback we receive from those who use our products. We always do our utmost to meet your needs and wishes in order to deliver the very best products.

Sustainability is an important issue for us. We strive to ensure low energy consumption and to have as little impact on the environment as possible. Just as sustainability is about looking after each other, the environment and the future, it is also about products that are sustainable in the long term. We are proud to be able to offer the best warranties on the market, which extend over the entire service life of the roof. We will continue to develop our products, but at the same time we will also be continuing to develop our sustainability work in order to contribute to a sustainable future for coming generations.

Everything to ensure you have a

**safe : roof life**

A handwritten signature in black ink, reading 'Thomas Lundberg'.

Thomas Lundberg  
CEO, CWL Group



## Welcome to our new product catalogue!

We are proud to offer a wide selection of quality products that will keep you safe on the roof.

You'll find Products from page 5, followed by Attachments from page 42.

Happy reading!



Read about our training courses on page 56.



See our colours on page 55.

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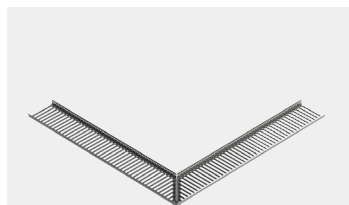
# Walkway with or without wire system

The function of the walkway is to be a horizontal access route to service points on roofs and to provide an anchorage for personal fall protection equipment. The walking surface is 350 mm wide with raised edges and has an anti-slip pattern.



| Part no. | Walkway                                                                    |
|----------|----------------------------------------------------------------------------|
| 430012   | Walkway 1.2 m                                                              |
| 430000   | Walkway 2.4 m                                                              |
| 430094   | Walkway corner 90° 2 x 2.4 m                                               |
| 430065   | Diagonal strut, walkway                                                    |
| 430010   | Upper section, bridge bracket                                              |
| 420009P  | Bolt kit M10 x 20 6 pcs<br>(For 3 joints, 2 brackets or 3 diagonal struts) |





Walkway corner 90° 2 x 2.4 m  
430094



Stanchion, guardrail walkway/roof  
ladder 1.1 m  
100307



End bracket, guardrail, incl. screw  
430021

**Part no. Guardrail for walkway**

- 100307 Stanchion, guardrail walkway/roof ladder 1.1 m
- 430034P Bolt kit, guardrail walkway/roof ladder
- 430021 End bracket, guardrail, incl. screw
- Rail tube, see page 15.

**Part no. Pennant for snow depth**

- 480960 Pennant with snow-depth indicator
- 480670P Bolt kit, pennant 5 pcs

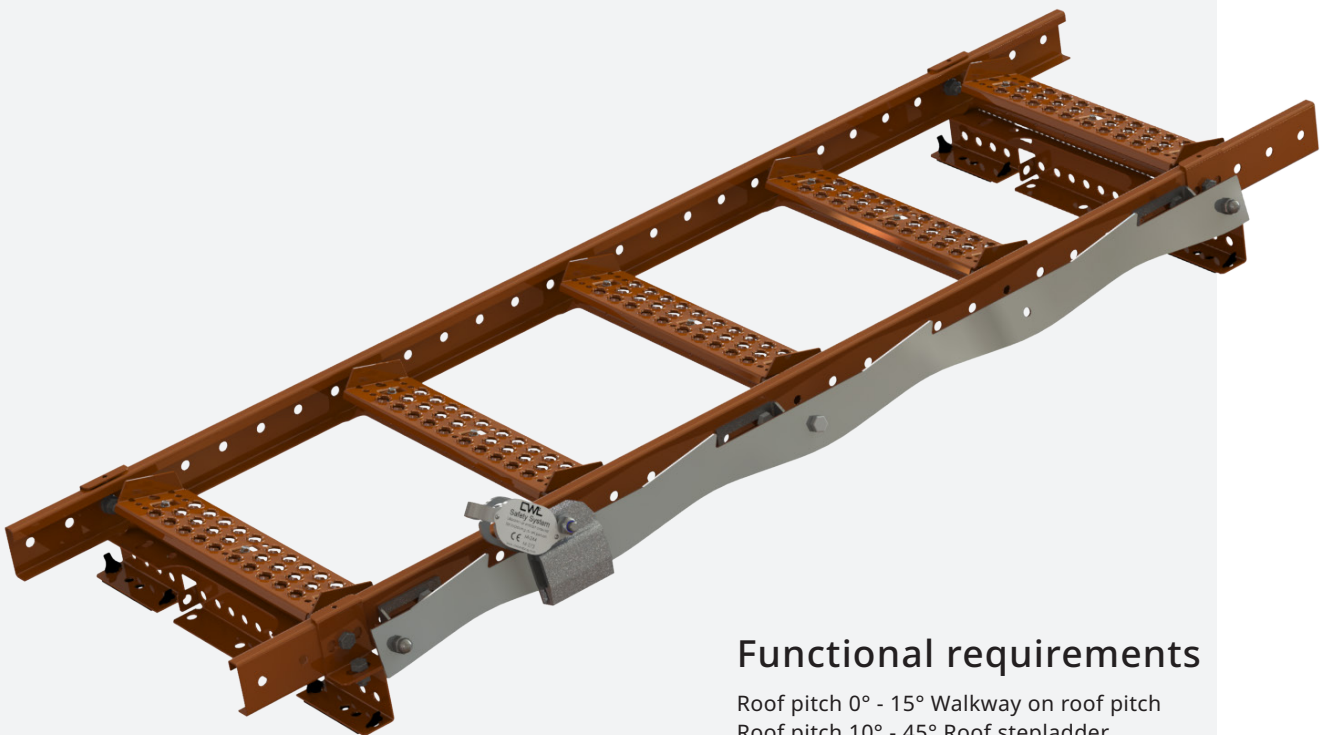


# Roof ladder & Walkway on roof pitch

The roof ladder should be equipped with the CWL Safety System safety rail, which is designed for anchoring personal fall protection equipment. The rail system means that individuals can move along the entire roof ladder without needing to reconnect their safety line.

Roof ladder, with or without safety rail, is CE marked and complies with SS-EN 12951.

Patent-protected



## Functional requirements

Roof pitch 0° - 15° Walkway on roof pitch  
Roof pitch 10° - 45° Roof stepladder  
Roof pitch above 25° Roof rung ladder



Roof/façade ladder  
470270



Step, roof ladder  
470281

| Part no. | Roof ladder                                               |
|----------|-----------------------------------------------------------|
| 470270   | Roof/façade ladder 1.5 m                                  |
| 470271   | Roof/façade ladder 2.4 m                                  |
| 470285P  | Extension kit, roof/façade ladder                         |
| 100504P  | Locking kit, roof ladder                                  |
| 470281   | Step, roof ladder                                         |
| 420012P  | Set of screws, self-tapping screws 6 pcs<br>(For 2 steps) |
| 100417   | Distance bracket roof ladder/<br>walkway on roof slope    |





- |                                      |                                                                |
|--------------------------------------|----------------------------------------------------------------|
| <b>Part no.</b>                      | <b>Walkway on roof pitch</b>                                   |
| 430012                               | Walkway 1.2 m                                                  |
| 430000                               | Walkway 2.4 m                                                  |
| 420009P                              | Bolt kit M10 x 20 6 pcs<br>(For 3 joints or 3 attachments)     |
| 100417                               | Distance bracket roof ladder/<br>walkway on roof slope         |
| <br><b>Guardrail for roof ladder</b> |                                                                |
| 100307                               | Stanchion, guardrail walkway/<br>roof ladder 1.1 m             |
| 470230P                              | Adapter kit, guardrail roof ladder                             |
| 430021                               | End bracket, guardrail, incl. screw<br>Rail tube, see page 15. |

CWL Safety System, see page 18.



# Façade ladder

for evacuation, ascending to roof and chimney

Mounted with brackets, the length of which is chosen based on the relevant eaves depth. Handrails must be attached to the roof or other permanently installed means of access with a bracing kit.



| Part no. | Façade ladder                     |
|----------|-----------------------------------|
| 470270   | Roof/façade ladder 1.5 m          |
| 470271   | Roof/façade ladder 2.4 m          |
| 470285P  | Extension kit, roof/façade ladder |



Mounting plate façade ladder  
410002

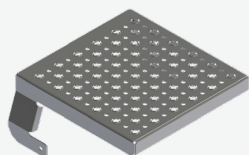
Bracket kit, façade ladder A-220  
410106

| Part no. | Brackets                          |
|----------|-----------------------------------|
| 410106   | Bracket kit, façade ladder A-220  |
| 410109   | Bracket kit, façade ladder A-400  |
| 410232   | Bracket kit, façade ladder A-500  |
| 410043   | Bracket kit, façade ladder A-600  |
| 410044   | Bracket kit, façade ladder A-800  |
| 410045   | Bracket kit, façade ladder A-1000 |

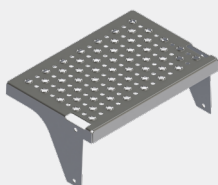
|         | Bracket attachments                               |
|---------|---------------------------------------------------|
| 410002  | Mounting plate façade ladder                      |
| 410185P | Bolt kit, mounting plate sheet metal façade 2 pcs |
| 410186P | Bolt kit, mounting plate wooden façade 2 pcs      |



Our production in Mora is performed with high quality and precision to ensure sustainable and safe products. By working closely with our suppliers, we ensure that our materials meet the highest quality standards and that we can deliver our products on time.



Foldable landing, façade ladder  
compl. 390 x 410 mm  
470400



Standing platform, façade ladder  
excl. screw 300 x 440 mm  
470411



Back guard bracket, façade  
ladder iØ 650 mm  
490506



Pair of handrails, façade ladder  
1280 mm  
100322

**Part no. Back guard and accessories**

- |         |                                                           |
|---------|-----------------------------------------------------------|
| 100322  | Pair of handrails, façade ladder 1280 mm                  |
| 490031P | Bolt kit, handrails                                       |
| 490025  | Bracing kit, handrails, adjustable                        |
| 490506  | Back guard bracket, façade ladder iØ 650 mm               |
| 490017P | Bolt kit, back guard bracket                              |
| 490004  | Bracing kit, back guard 900 mm                            |
| 470411  | Standing platform, façade ladder excl. screw 300 x 440 mm |
| 470400  | Foldable landing, façade ladder compl. 390 x 410 mm       |
| 470135P | Hook kit, façade ladder                                   |
| 490505  | Lockable hatch, back guard incl. lock                     |



Bracing kit, back guard 900 mm  
490004



Our roof steps are perfect for house roofs and cabins, and are approved for façade heights up to 4 m and roof pitches up to 45°.



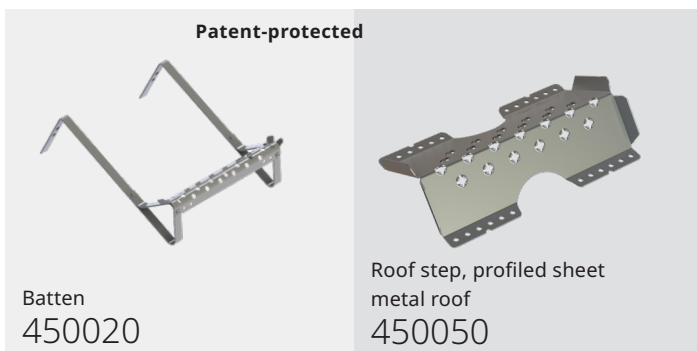


# Slipguard for ground ladder



| Part no. | Slipguard                                                          |
|----------|--------------------------------------------------------------------|
| 470101   | Slipguard, roof tiles/profiled sheet metal roof incl. screws       |
| 470101P  | Slipguard, roofing tiles/profiled sheet metal incl. screws 100 pcs |
| 470103   | Slipguard, flat roofs incl. screws                                 |
| 470106   | Slipguard façade                                                   |
| 470112   | Slipguard roof ladder                                              |
| 470110   | Slipguard walkway on roof pitch                                    |
| 420009P  | Bolt kit M10 x 20 6-pack (for 3 slipguard roof ladders)            |
| 470300   | Slipguard, folded sheet metal roof                                 |

# Roof step

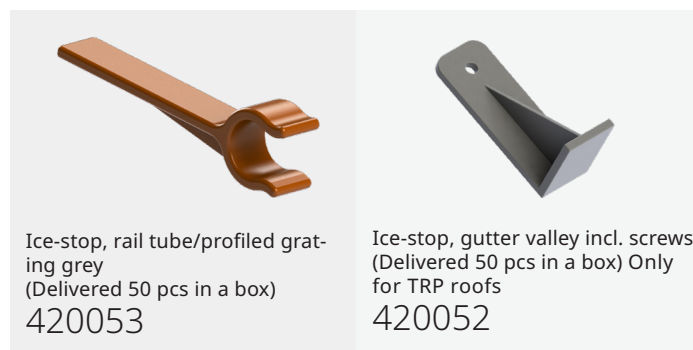


| Part no.                                                                              | Roofing tiles                                         |
|---------------------------------------------------------------------------------------|-------------------------------------------------------|
| 450000                                                                                | Batten step, 2-bulge concrete 1" C-C 300              |
| 450001                                                                                | Batten step, 2-bulge concrete 2" C-C 300              |
| 450002                                                                                | Batten step, 2-bulge clay/1-bulge concrete 1" C-C 240 |
| 450003                                                                                | Batten step, 1-bulge clay 1" C-C 220                  |
| 450020                                                                                | Batten step, 2-bulge concrete C-C 300*                |
| 450022                                                                                | Batten step, 2-bulge clay/1-bulge concrete C-C 240*   |
| 450023                                                                                | Batten step, 1-bulge clay C-C 220*                    |
| 450032                                                                                | Bending tool, batten step                             |
| * Batten steps for concrete and clay tiles can easily be adapted to 1" or 2" battens. |                                                       |

| Part no. | Profiled sheet metal roof                                                                                                                                 |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 450050   | Roof step, profiled sheet metal roof<br>(Delivered 15 pcs in a box. Roof steps are suitable for roof profiles with max. c-c distance profile tops 280 mm) |

# Snow fence/Ridge rail & Eaves rail

Ridge/eaves rails and snow fences are approved for anchoring personal fall protection equipment. When designing and installing snow fences, they must be designed on the basis of current snow loads.



| Part no. | Ice-stop                                                                                    |
|----------|---------------------------------------------------------------------------------------------|
| 420053   | Ice-stop rail tube/profiled grating 50 pcs grey<br>(Delivered 50 pcs in a box)              |
| 420052   | Ice-stop, gutter valley incl. screws grey<br>(Delivered 50 pcs in a box) Only for TRP roofs |

|         | Pennant for snow depth            |
|---------|-----------------------------------|
| 480960  | Pennant with snow-depth indicator |
| 480670P | Bolt kit, pennant 5 pcs           |





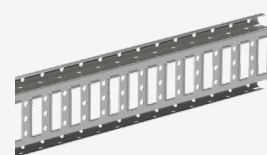
Rail tube 2.4 m  
420014



Angle tube 90°  
420026



Gutter valley plate 180 mm  
410274



Profiled grating snow fence 2.345 m/1.255 m  
420033

Raiser for snow guard  
Rails/profiled fence  
101134

#### Part no. Rail tube

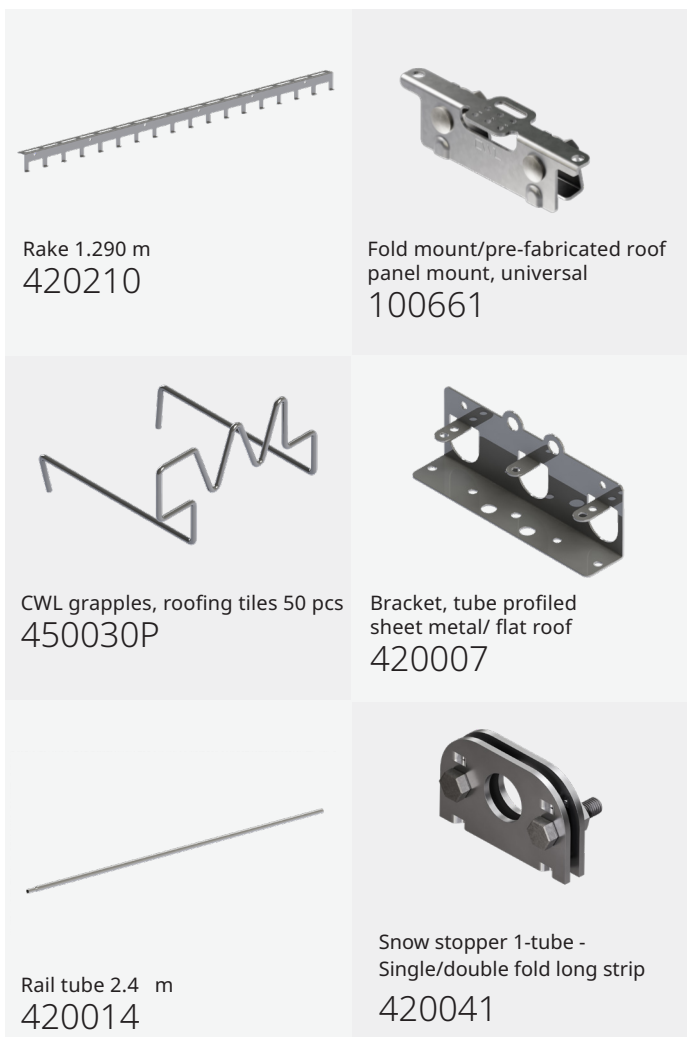
|         |                                                                          |
|---------|--------------------------------------------------------------------------|
| 420014  | Rail tube 2.4 m                                                          |
| 420012P | Set of screws, self-tapping screws 6 pcs<br>(For 6 rail tube splices)    |
| 420010P | Locking kit, rail tube/ profiled grating                                 |
| 420026  | Angle tube 90°                                                           |
| 420028  | Angle tube, other angles 0-90°<br>Contact us for the desired angle tube. |
| 101134  | Raiser for snow guard Rails/profiled fence                               |

#### Profiled grating for snow fence

|         |                                                                    |
|---------|--------------------------------------------------------------------|
| 420033  | Profiled grating, snow fence 2.345 m                               |
| 420038  | Profiled grating, snow fence 1.255 m                               |
| 420010P | Locking kit, rail tube/ profiled grating                           |
| 410274  | Gutter valley plate 180 mm                                         |
| 420009P | Bolt kit M10 x 20 6 pcs<br>(For 3 joints or 1 gutter valley plate) |
| 101134  | Raiser for snow guard Rails/profiled fence                         |

# Snow stopper

The function of the snow stopper is to prevent snow and ice from sliding on sloping roof surfaces, and it is a good complement to regular snow fences. Unlike snow fences, snow stoppers are not approved for anchoring personal fall protection equipment.



## Part no. Roofing tiles

450030P CWL grapples, roofing tiles 50 pcs

## Folded sheet metal roofs and pre-fabricated roof panels

420041 Fold mount, snow stopper  
420210 Rake, snow stopper 1.290 m  
100661 Fold mount/pre-fabricated roof panel mount  
420009P Bolt kit M10 x 20 6 pcs

## Profiled sheet metal roof

420007 Bracket, snow stopper tube profiled sheet metal/flat roof  
420193P Bolt kit, bracket snow stopper profiled sheet metal roof 5 pcs  
420014 Rail tube 2.4 m

## Waterproof membrane roofs and shingle roofs

420007 Bracket, snow stopper tube profiled sheet metal/flat roof  
420170P Bolt kit, bracket snow stopper flat roof, 5 pcs  
420014 Rail tube 2.4 m  
420041 Snow stopper 1-tube - Single/double fold long strip covering

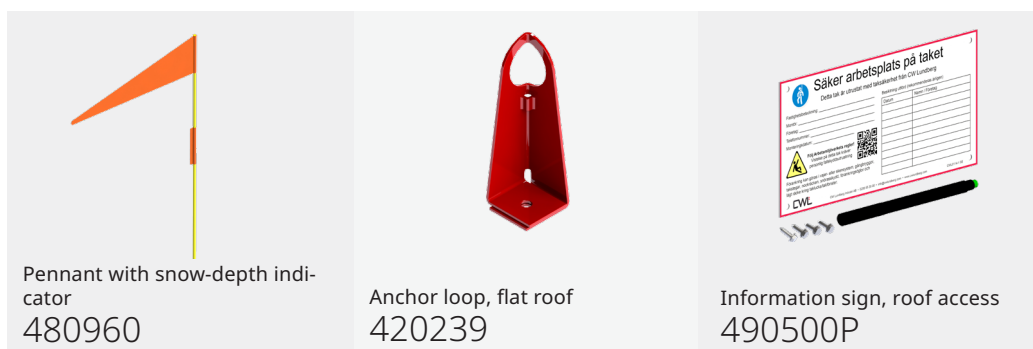
## Pennant for snow depth

480960 Pennant with snow-depth indicator  
480670P Bolt kit, pennant 5 pcs

# Anchor loop & Ridge rail 1 m

## Anchoring of personal fall protection equipment

The anchor loop, for attaching personal fall protection equipment, may replace a ridge rail where the roof pitch is less than 6° or act as a complement in the corners of the roof, 2 m from either roof edge, where the roof pitch is less than 25°. Anchor loops must be installed on our mounting plate for waterproof membrane roofs.



Pennant with snow-depth indicator  
480960

Anchor loop, flat roof  
420239

Information sign, roof access  
490500P

### Pennant with snow-depth indicator

Pennant with snow-depth indicator makes it possible to find anchor points under the snow. Pennant can be mounted directly on the anchor loop or using a special bolt kit on attachments for existing roof safety products.

#### Part no. Waterproof membrane roofs and shingle roofs

|         |                                    |
|---------|------------------------------------|
| 420039  | Anchor loop, flat roof             |
| 420239  | Anchor loop, flat roof, signal red |
| 410132P | Bolt kit, anchor loop 5 pcs        |
| 480960  | Pennant with snow-depth indicator  |

#### Roofing tiles, folded sheet metal roofs, pre-fabricated roof panels and profiled sheet metal of

|         |                                          |
|---------|------------------------------------------|
| 420003  | Rail tube 1 m                            |
| 420010P | Locking kit, rail tube/ profiled grating |
| 480960  | Pennant with snow-depth indicator        |
| 480670P | Bolt kit, pennant 5 pcs                  |

### Information sign at roof access

In the case of new installation or in connection with an inspection by CW Lundberg Roof Safety, it is recommended that an information sign be installed and supplied with information about the fitter, the installation date and inspections carried out, in accordance with the Industry Standard – Roof Safety. The sign provides information about approved fixed anchorages for personal fall protection equipment. The information sign is placed visibly adjacent to the roof access.

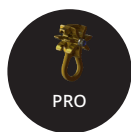


# CWL Safety System

We market all continuous anchoring manufactured in-house, such as wire systems and rail systems, under the collective name CWL Safety System. Each continuous length is approved for anchoring two people at the same time. The wire can be extended to any length.



# PRO & LIGHT



## CWL Safety System PRO

**Available for all our installation types** The PRO system allows you to work safely on the roof with the best ergonomics and efficiency. With the wire runner that climbs over wire controls and corners, you can always travel the shortest route without having to reconnect.



## CWL Safety System LIGHT

The LIGHT system is a simpler variant of the wire system, where you can easily move further along the wire system. This variant is suitable for moving on straight sections and roofs with a low pitch, as well as for occasional work on the roof. The system is available for walkways and flat roofs.



CWL wire runner PRO  
490167



CWL wire runner LIGHT  
490117

# WBM – Wire by meter

**WBM is a wire solution that is equipped with a new and creative wire lock, which facilitates and improves flexibility in your installation and handling.**

Wire is sold by the metre and is cut locally by a fitter or dealer.

The wire ends are fixed with our innovative wire lock.

We offer the system in lengths of 20, 50, 100 and 500 m, supplied on rolls.

The WBM system has been developed with a more pliable, 133-thread wire.

The wire joint is mounted on 8 mm wire using a handheld crimping tool.

The system has been tested and approved by RISE for use by 2 people at the same time, according to the harmonised European standard CE EN 516 class 2.

WBM is used in combination with our existing attachments.

Together with the optional “Add-on kit for wire fixing WBM” and “Wire corner WBM”, your Safety System is turned into a complete solution!



Wire 8 mm, 20 m  
100725



Wire 8 mm, 50 m  
100726



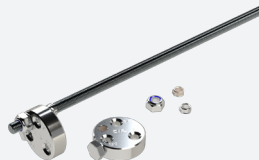
Wire 8 mm, 100 m  
100727



Wire 8 mm, 500 m  
100728



Wire, 8 mm  
100703



Add-on kit for wire fixing, WBM  
100713



Wire corner, WBM  
100714



Wire control LIGHT  
100722



Wire joint  
100709

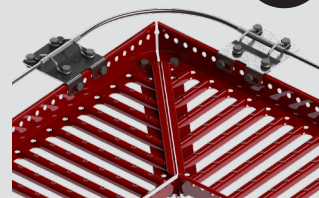


# CWL Safety System — walkway

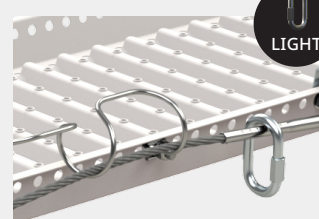
CWL Safety System for walkways is available in PRO and LIGHT variants.  
The wire system is approved for anchoring two people at the same time.



| Part no. | Walkway                                             |
|----------|-----------------------------------------------------|
| 430270   | End bracket kit, wire walkway                       |
| 490104   | Wire control, walkway PRO                           |
| 490130   | Wire control, walkway LIGHT                         |
| 490229p  | Bolt kit M10 x 25 A2 4 pcs<br>(For 2 wire controls) |
| 490190   | Mounting plate, wire corner PRO walkway             |
| 420009P  | Bolt kit M10 x 20 6 pcs                             |



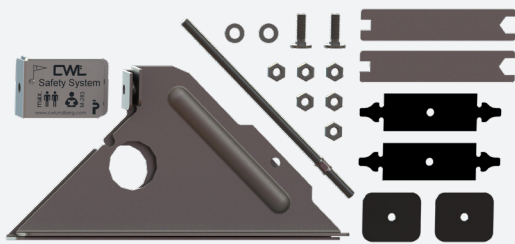
Mounting plate, wire corner PRO walkway  
490190



Wire control, walkway LIGHT  
490130

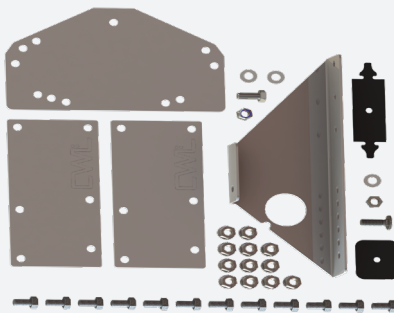
# CWL Safety System – standalone wire system on roofs

Articles for all standalone wire systems



**Part no.**

430240 End bracket kit, standalone wire



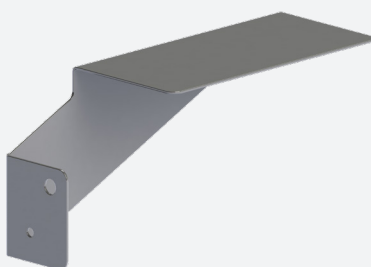
**Part no.**

490224 Mounting kit, standalone wire corner PRO



**Part no.**

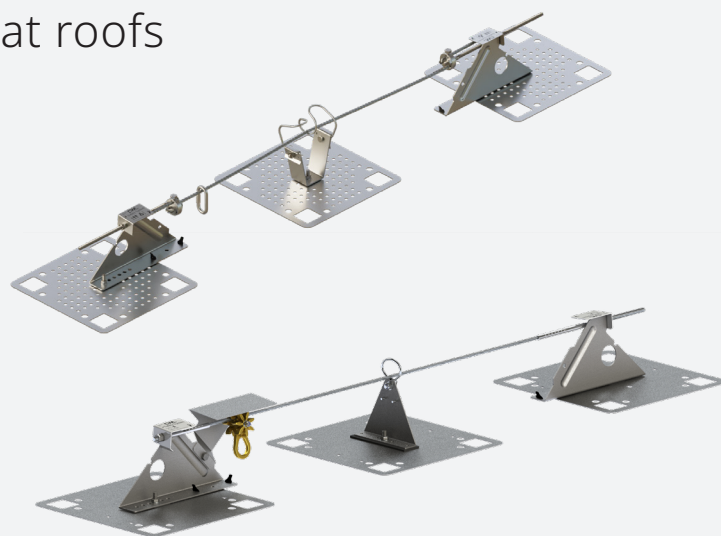
490196 Protective plate, end bracket PRO



**Part no.**

490198 Protective plate, wire control

## Flat roofs



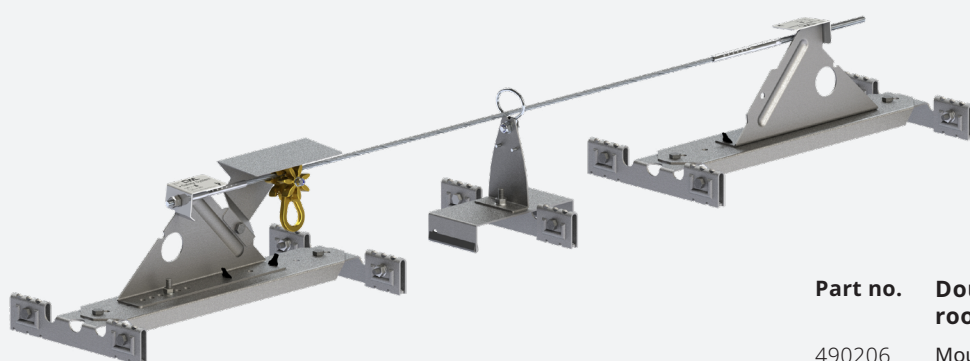
| Part no. | Flat roofs                    |
|----------|-------------------------------|
| 100185   | Mounting plate 375 x 375 mm   |
| 430242   | Wire control, flat roof PRO   |
| 100722   | Wire control, flat roof LIGHT |

## Profiled sheet metal roof



| Part no. | Profiled sheet metal roof                      |
|----------|------------------------------------------------|
| 490208   | Mounting plate wire, profiled sheet metal roof |
| 430252   | Wire control, profiled sheet metal roof PRO    |

## Double-folded sheet metal roofs

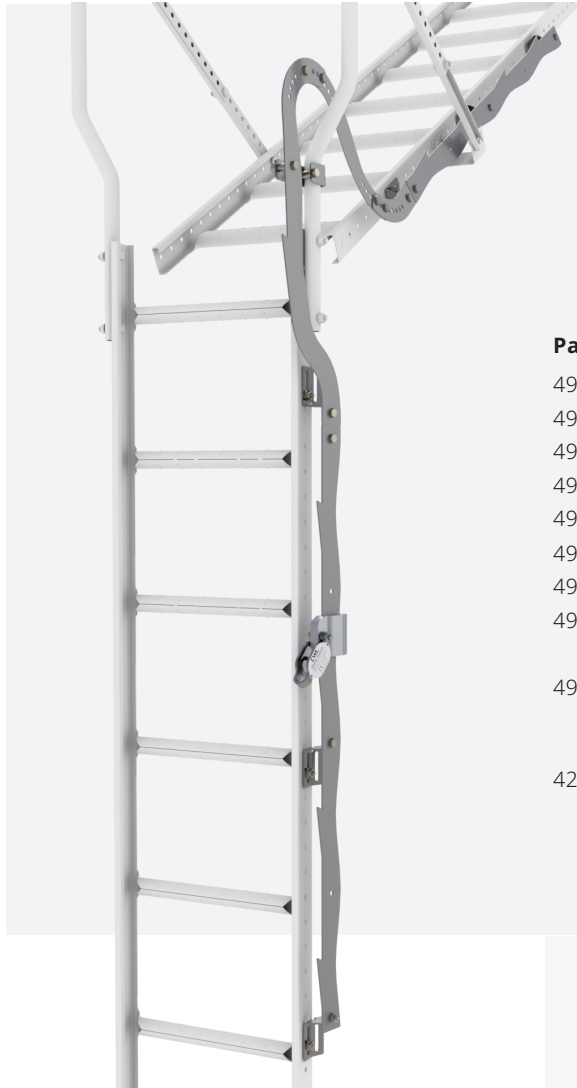


| Part no. | Double-folded sheet metal roofs |
|----------|---------------------------------|
| 490206   | Mount wire double-folded        |
| 490181   | Wire control double-folded PRO  |
| 490210   | Support plate with clip strip   |



# CWL Safety System – Safety Rail

Continuous anchoring for roof ladder and façade ladder.  
Each continuous length is approved for anchoring two people at the same time.



| Part no. | Roof ladder and façade ladder                                                            |
|----------|------------------------------------------------------------------------------------------|
| 490060   | Safety rail 300 1.2 m                                                                    |
| 490065   | Safety rail 1200 1.2 m                                                                   |
| 490061P  | Bracket kit, safety rail                                                                 |
| 490063P  | Extension kit, safety rail                                                               |
| 490064   | Runner, safety rail                                                                      |
| 490075P  | End stop kit                                                                             |
| 490174   | Transition safety rail façade-to-roof                                                    |
| 490055   | Angle safety rail 15-45°<br>(Used to transition rail on mansard roofs)                   |
| 490141   | Strut mount safety rail<br>(Used to install the strut for the handrail outside the rail) |
| 420009P  | Bolt kit M10 x 20 6 pcs<br>(For 2 strut mounts)                                          |



Transition safety rail façade-to-roof  
490174



Runner, safety rail  
490064



# CWL Solar System – a smart and flexible solution

CWL Solar System provides everything you need to equip the roof with solar panels in a safe, simple and reliable way. The system is developed for Nordic conditions and combines high quality with smart design details that make the installation both faster and more cost-efficient.

CWL Solar System offers two flexible solutions for solar installations:

- **Low-tilt system for flat roofs** – Fewer components, fast installation and a robust construction reduce both installation time and future maintenance. The mounting requires few tools and is designed to provide a smooth and efficient workflow.
- **Parallel system for roofs with slope** – Adjustable brackets to fine-tune height and angle, tool-free installation and smart fittings that preserve the roof's watertightness.







# CWL Solar System – Parallel Systems

Mounting systems for solar panels are installed in parallel with the roof surface and are used on roofs with slope.

The installation is very straightforward thanks to self-locking connectors that are assembled completely without screws or tools. The system is complemented by a smart tile-roof bracket that is mounted directly onto the battens without affecting the roof's watertightness. The bracket is designed to fit a wide range of batten distances, making it suitable for most roofs.

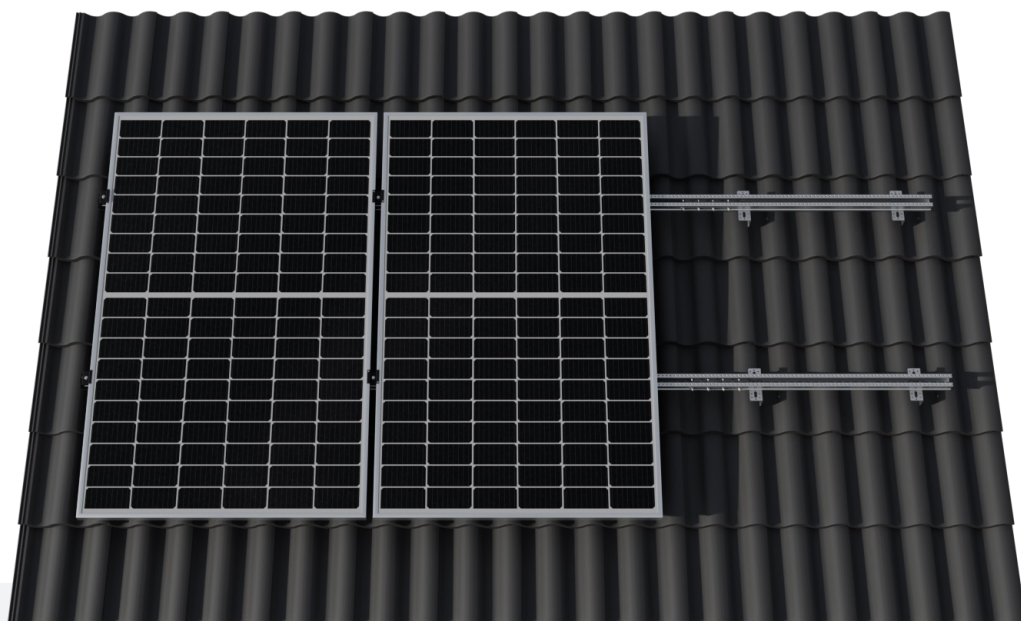
The product range also includes adjustable brackets with configurable height and angle, making it easy to find and lock the optimal position.

## Unique features of our parallel system

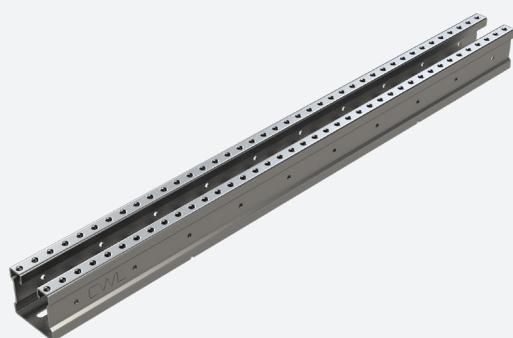
- Ergonomic and easy-to-handle mid and end clamps
- Rails with market-leading durability properties
- Self-locking click-joint – fast, tool-free installation
- Quick-mount tile roof bracket – efficient installation without penetrating the roof
- Numbered hole pattern for time-efficient and simplified installation
- Adjustable brackets for selected roof types to fine-tune height and angle
- Available in black (RAL 9005) and uncoated (ZM)







## Solar panel rail



**Art-nr**

100674

Solar panel rail

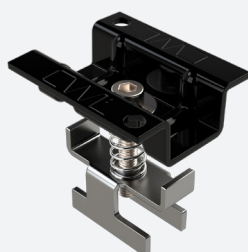


**Art-nr**

100999

Click Joint Solarpanel Rail

## Clamps and end covers



**Art-nr**

100669

Centre clamp solar panel rail



**Art-nr**

100668

End clamp solar panel rail



**Art-nr**

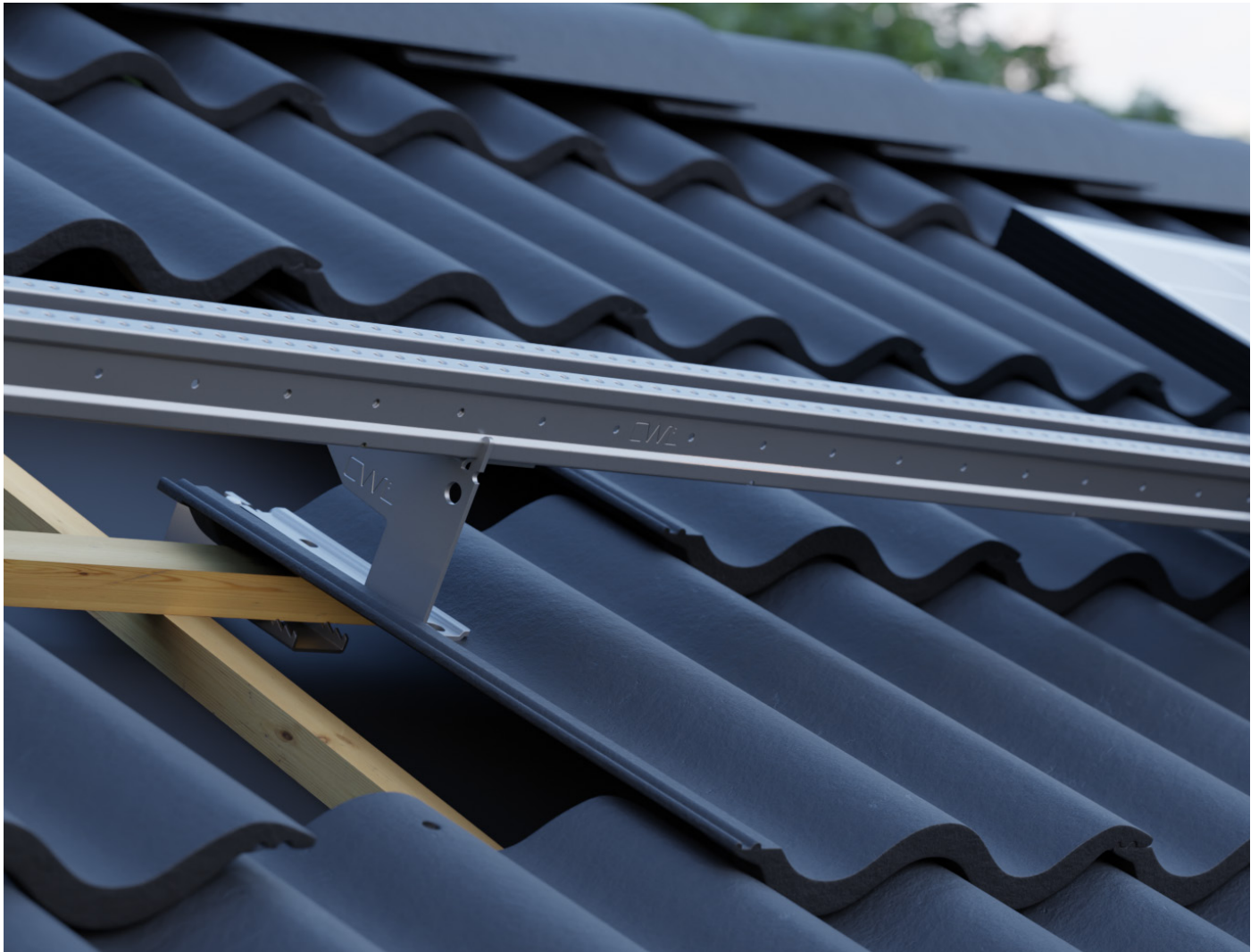
100683

End cover solar panel rail

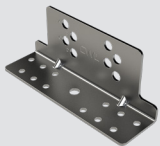
The system is available in ZM (zinc-magnesium) and RAL 9005 (black).



## » Mounting components for parallel systems



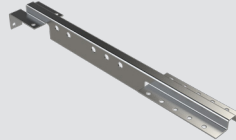
### TILED ROOFS



Foot plate solar panel  
100617



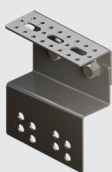
Solar panel mount, clay tiles  
100625



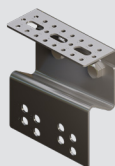
Batten bracket  
410157



Solar panel mount, concrete tiles  
100622



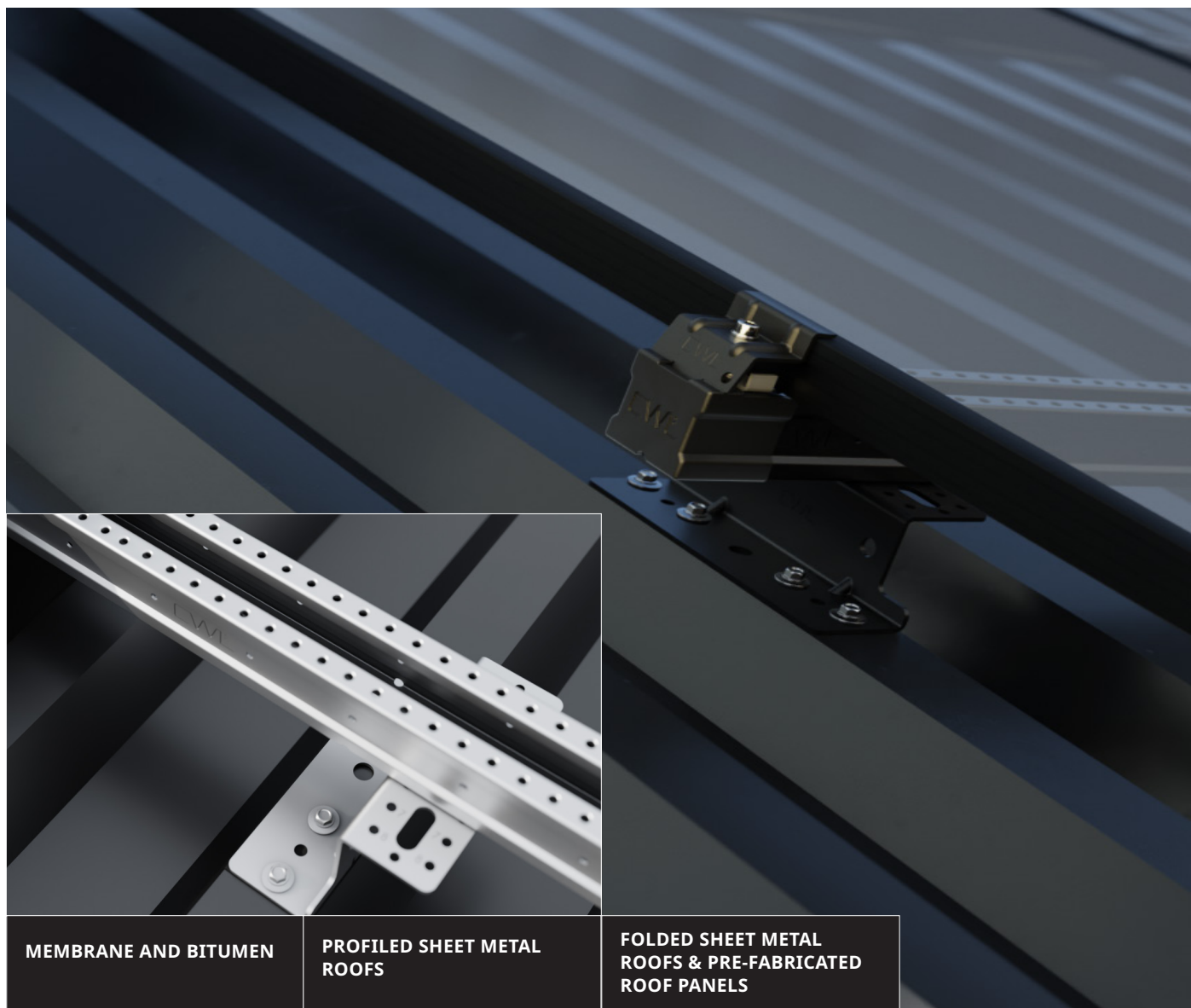
Solar panel mount,  
adjustable Concrete tiles  
100757



Solar panel mount,  
adjustable Clay tiles  
100759



Quick Bracket Solarpanel  
Tilted Roofs  
100997



MEMBRANE AND BITUMEN

PROFILED SHEET METAL  
ROOFS

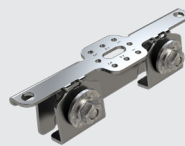
FOLDED SHEET METAL  
ROOFS & PRE-FABRICATED  
ROOF PANELS



Solar panel mount,  
profiled sheet metal/flat roof  
100619



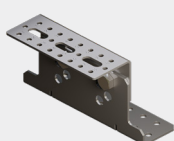
Solar panel mount,  
profiled sheet metal/flat roof  
100619



Fold mount/pre-fabricated roof  
panel mount Universal  
100661



Solar panel mount, adjustable  
Profiled sheet metal/Flat roofs  
100761



Solar panel mount, adjustable  
Profiled sheet metal/Flat roofs  
100761

# CWL Solar System – Mounting System on flat roof

A smart, flexible, durable, cost-efficient and Swedish-made mounting system for commercial and industrial projects with flat roofs.

A mounting system designed to provide maximum flexibility and adapt to the specific needs of each project. You can choose between several solutions:

**Traditional mounting** using a mounting plate

**Ballast system** with ballast supports

**Hybrid system** combining mounting plates and ballast

## **Unique features of our low-tilt mounting system**

→ **Cost efficient from installation to operation**

Fewer components, fast installation and a robust design reduce both installation time and future maintenance. The mounting requires few tools and is designed to provide a smooth and efficient workflow.

## → **Lower climate impact and reduced weight**

With a structure weighing approximately 20% less than comparable systems on the market, the installation becomes lighter, more sustainable and easier to handle.

## → **Flexible mounting options**

The system can be installed in both south-facing and east-west configurations, providing great flexibility to adapt the installation to roof conditions and project requirements.

→ Available in black (RAL 9005) and uncoated (ZM)





## Solar panel rail



**Part no.**

100674 Solar panel rail



**Part no.**

100999 Click Joint Solarpanel Rail

## Clamps and end covers



**Part no.**

101077 End clamp Solar panel



**Part no.**

101078 Mid clamp Solar panel



**Part no.**

100683 End cover solar panel rail

## Skrusatscher och EPDM



**Part no.**

100144 Nut M10 and washer stainless steel 100 pcs



**Part no.**

100541 Bolt kit long 100mm 1pcs



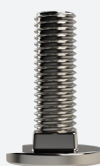
**Part no.**

101080 Roof screw 6,3x38 A2 50 pcs



**Part no.**

100136 Roof screw 6,3x19 with epdm washer stainless steel 300 pcs



**Part no.**

100142 Carriage bolt, flat M10x32 stainless steel 100 incl. 10 thread covers



**Part no.**

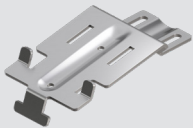
100153 EPDM 180x50 mm 50 pcs

Systemet erbjuds i ZM (zinkmagnesium) och RAL 9005 (svart).

## » Mounting components for low-tilt systems with ballast



### MEMBRANE AND BITUMEN



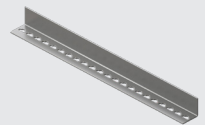
Low mount 10  
101066



High mount 10  
101069



Ballast support  
101075



Ballast rail  
101076

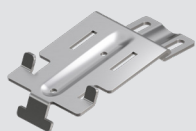


Support foot rubber  
101081

## » Mounting components for low-tilt systems with mounting plates



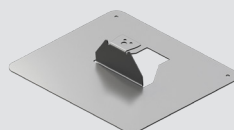
### MEMBRANE AND BITUMEN



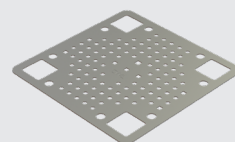
Low mount 10  
101066



High mount 10  
101069



Support foot  
101072



Mounting plate 375 x 375 mm  
100185



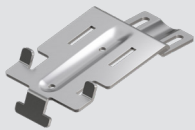
Solar panel mount profiled  
Sheet metal/flat roof  
100619



## » Mounting components for low-tilt hybrid systems



### MEMBRANE AND BITUMEN



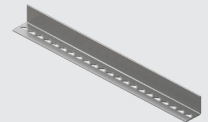
Low mount 10  
101066



High mount 10  
101069



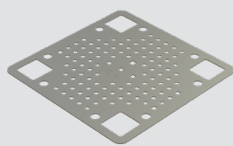
Ballast support  
101075



Ballast rail  
101076



Support foot rubber  
101081



Mounting plate 375 x 375 mm  
100185



# Do you have any questions?

Contact us. We're always here to help you.

## **Order/Customer Service**

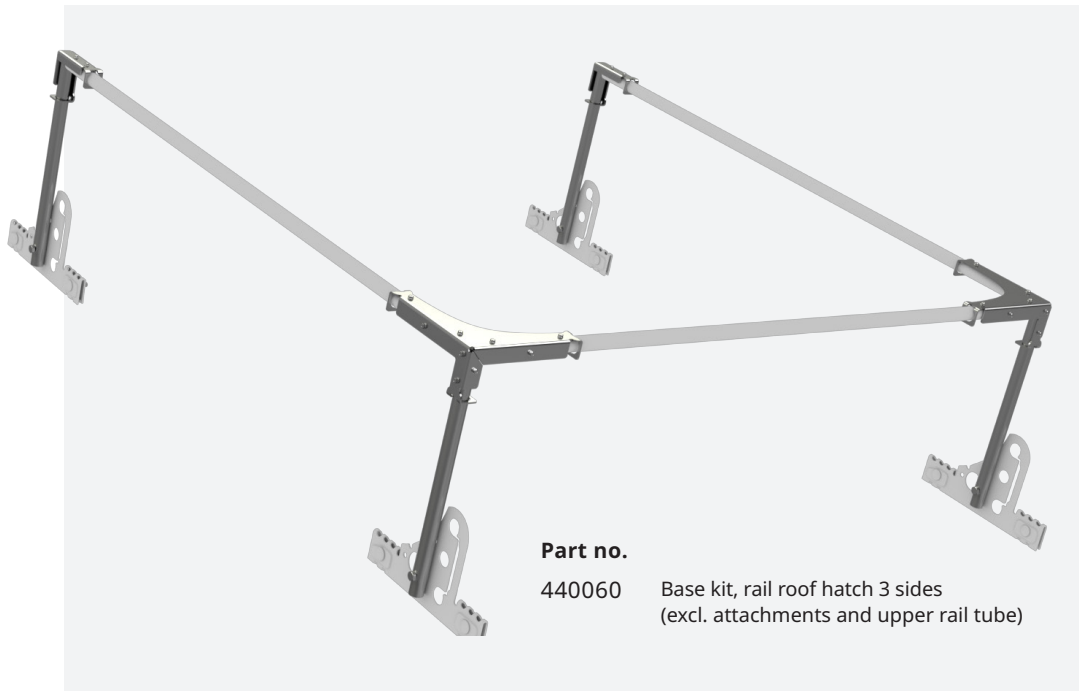
[order@cwlundberg.com](mailto:order@cwlundberg.com)  
[kundservice@cwlundberg.com](mailto:kundservice@cwlundberg.com)  
+46 (0)250-553525

## **Technical Support/Design**

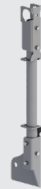
[projektering@cwlundberg.com](mailto:projektering@cwlundberg.com)  
+46 (0)250-552577



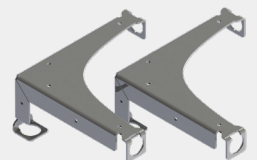
# Rail roof hatch & skylight



**Part no.**  
440060 Base kit, rail roof hatch 3 sides  
(excl. attachments and upper rail tube)



Stanchion, rail roof hatch  
complete (For the extension of  
rails over 1800 mm)  
440070



Extension kit, skylight  
(For the extension of the base kit  
for a 4-sided rail)  
440062

## Guardrail for flat roofs

Installed on the CWL mounting plate.



Stanchion, guard rail flat roof  
1.1 m  
430030

End bracket, guardrail,  
incl. screw  
430021

| Part no. | Waterproof membrane roofs and shingle roofs                        |
|----------|--------------------------------------------------------------------|
| 430030   | Stanchion, guard rail flat roof 1.1 m                              |
| 430021   | End bracket, guardrail, incl. screw                                |
| 430026P  | Bolt kit, stanchion flat roof 5 pcs<br>For rail tube, see page 15. |

## Sod roof grapple

A sod roof grapple is used when laying green roofs.

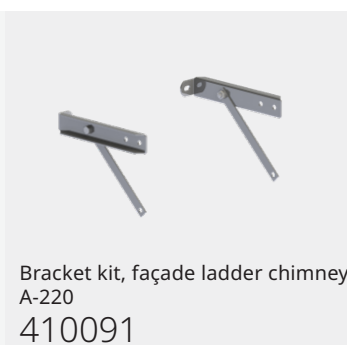


Sod roof grapple  
610295

| Part no. | Sod roof grapple                                      |
|----------|-------------------------------------------------------|
| 610295   | Sod roof grapple black<br>(Delivered 20 pcs in a box) |



# Chimney strap



## Part no. Chimney strap

|         |                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------|
| 490038  | Chimney strap 1145 mm<br>(1 pc chimney strap for chimney sides up to 1200 mm<br>or 2 pcs joined with overlap up to 2200 mm) |
| 490040P | Bolt kit, chimney strap 1 turn                                                                                              |
| 490041P | Extension kit, chimney strap 2 turns                                                                                        |

## Accessories

|        |                                          |
|--------|------------------------------------------|
| 410091 | Bracket kit, façade ladder chimney A-220 |
| 490015 | Bracket, walkway, chimney incl. screws   |

# DEALER Pack

**Complete roof safety systems supplied in a box.**

Our roof safety systems are available to buy as complete packages. A dealer pack contains all the parts required to install the system, making the sales process quick and easy for both the dealer and the end customer.



**Part no. Roof ladder**

- 100365 Roof ladder clay/concrete load-bearing roof underlay 1.5 m compl.
- 100369 Roof ladder folded/pre-fabricated roof panels 1.5 m compl.
- 100361 Roof ladder profiled sheet metal roof 1.5 m compl.



**Part no. Ridge rail**

- 420061P Ridge rail clay load-bearing roof underlay 1 m compl.
- 420062P Ridge rail concrete load-bearing roof underlay 1 m compl.
- 420064P Ridge rail TRP 1 m compl.



**Part no. Snow fence**

- 420145P Snow fence grating, clay load-bearing roof underlay 2.5 m compl.
- 420144P Snow fence grating, concrete load-bearing roof underlay 2.5 m compl.
- 420150P Snow fence profiled grating, folded/pre-fabricated roof panels 2.5 m compl.
- 420140P Snow fence profiled grating, profiled sheet metal roof 2.5 m compl.



**Part no. Snow stopper**

- 450030P CWL grapples, roofing tiles 50 pcs
- 420164P Snow stopper rake, folded/pre-fabricated roof panels 3.6 m compl.



**Part no. Walkway**

- 100533 Walkway clay load-bearing roof underlay 1.2 m compl.
- 100529 Walkway concrete load-bearing roof underlay 1.2 m compl.
- 100537 Walkway folded/pre-fabricated roof panels 1.2 m compl.
- 100525 Walkway profiled sheet metal roof 1.2 m compl.



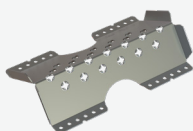
**Part no. Batten steps on roofing tiles**

- 450091P Batten step, 2-bulge concrete 1" C-C 300, 10 pcs
- 450092P Batten step, 2-bulge concrete 2" C-C 300, 10 pcs
- 550093P\* Batten step, 2-bulge clay/1-bulge concrete 1" C-C 240, 10 pcs
- 550094P\* Batten step, 1-bulge clay 1" C-C 220, 10 pcs
- 450015 Batten step combi 5 pcs incl. bending tool  
(fits 1- and 2-bulge, clay and concrete, 1" and 2" battens)

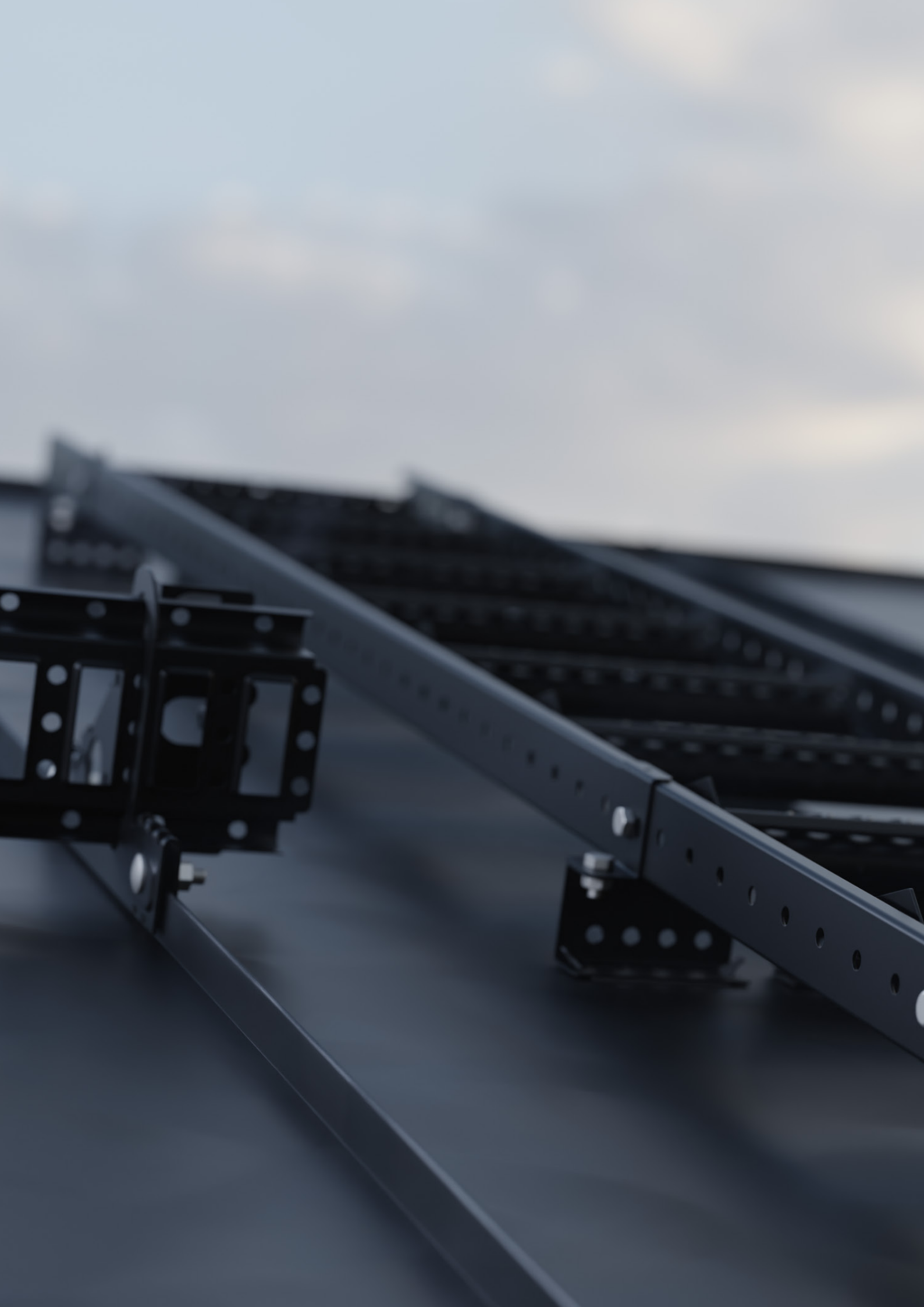


**Part no. Roof steps for profiled sheet metal roofs**

- 450050 Roof step, profiled sheet metal roof  
(Delivered 15 pcs in a box)



\*Only sold in brick red

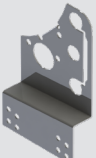
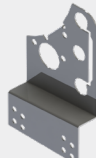
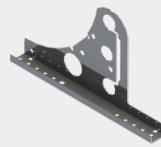
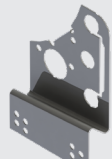
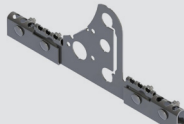
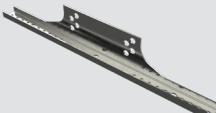
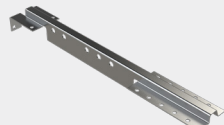
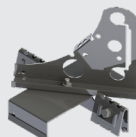


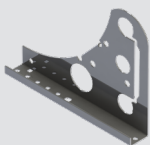
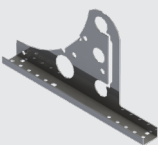
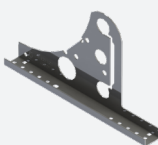
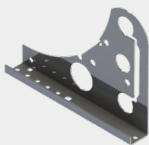
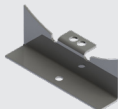
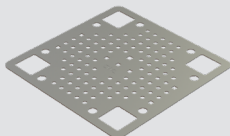
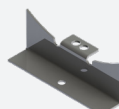


# Attachments

|                                                                                                      |    |
|------------------------------------------------------------------------------------------------------|----|
| Attachments for products:<br>Walkway, Ridge/Eaves rails, Snow fence,<br>Rail roof hatch, Anchor loop | 43 |
| Attachments for products:<br>Roof ladder, Walkway on roof pitch                                      | 46 |

# Attachments for the products: Walkway, Ridge/Eaves rails, Snow fence, Rail roof hatch, Anchor loop >>

| ROOFING TILES ON LOAD-BEARING ROOF UNDERLAY                                                                                                  | ROOFING TILES ON SIMPLIFIED ROOF UNDERLAY                                                                                             | STRIP COVER/PRE-FABRICATED ROOF PANELS                                                                                                        | PROFILED SHEET METAL ROOF                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Bracket, concrete tiles<br/>420056</p>                  |  <p>Bracket, concrete tiles<br/>420056</p>           |  <p>Fold mount<br/>410174</p>                               |  <p>Bracket, profiled sheet metal roofs/flat roofs long<br/>410094</p>           |
|  <p>Bracket, clay tiles<br/>420057</p>                    |  <p>Bracket, clay tiles<br/>420057</p>             |  <p>Fold mount, pre-fabricated roof panels<br/>410290</p> |  <p>Bolt kit, bracket, prof. sheet metal roof excl. EPDM 3 pcs<br/>410024P</p> |
|  <p>Foot plate, load-bearing roof underlay<br/>410003</p> |  <p>Batten bracket<br/>410157</p>                  |  <p>Fold mount, diagonal fold<br/>410251</p>              |  <p>EPDM bracket, profiled sheet metal roofs<br/>410173</p>                    |
|  <p>Bolt kit for anchor plate<br/>410017P</p>             |  <p>Bolt kit, batten bracket 2 pcs<br/>410166P</p> |  <p>EPDM fold mount 350 x 75 x 1 mm<br/>410175</p>        |                                                                                                                                                                     |

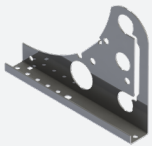
| MEMBRANE AND BITUMEN                                                                                                                     |                                                                                                                                                           | SHINGLE ROOFS                                                                                                                                            |                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Bracket, flat roof, short<br/>420060</p>            |  <p>Bracket, profiled sheet metal roofs/flat roofs long<br/>410094</p>   |  <p>Bracket, profiled sheet metal roofs/flat roofs long<br/>410094</p> |  <p>Bracket, flat roof, short<br/>420060</p>                             |
|  <p>Bracket, walkway flat roof &lt;18°<br/>430008</p> |  <p>Mounting plate 375 x 375 mm<br/>100185</p>                         |  <p>Mounting plate, shingle<br/>410113</p>                           |  <p>Bracket, walkway flat roof &lt;18°<br/>430008</p>                  |
|  <p>Bolt kit bracket flat roof 5 pcs<br/>410126P</p>  |  <p>Bolt kit, bracket, walkway flat roof &lt;18° 2 pcs<br/>410226P</p> |  <p>Bolt kit bracket flat roof 5 pcs<br/>410126P</p>                 |  <p>Bolt kit, mounting plate shingle 2 pcs<br/>410127P</p>             |
|  <p>Bolt kit, anchor loop 5 pcs<br/>410132P</p>       |  <p>Bolt kit, long bracket, flat roof 5 pcs<br/>410128p</p>            |  <p>Bolt kit, long bracket, flat roof 5 pcs<br/>410128p</p>          |  <p>Bolt kit, bracket, walkway flat roof &lt;18° 2 pcs<br/>410226P</p> |



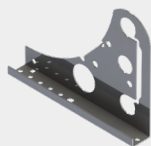


SLATE

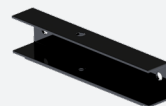
SEDUM ROOFS



Bracket, flat roof, short  
420060

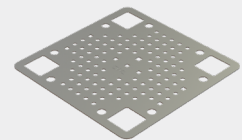


Bracket, flat roof, short  
420060

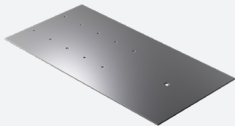


If you want a special riser,  
please contact us

Riser, flat roof 50 mm  
620091



Mounting plate 375 x 375 mm  
100185



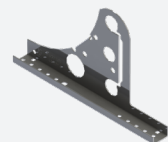
Mounting plate, slate roof 250  
100990



Bolt kit  
bracket flat roof 5 pcs  
410126P



Bolt kit M10 x 20 6 pcs  
420009P



Bracket, profiled sheet metal  
roofs/flat roofs long  
410094



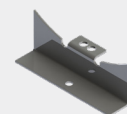
Bolt kit, mounting plate  
wooden facade 2 pcs  
10186p



Bolt kit, long bracket, flat roof 5 pcs  
410128p



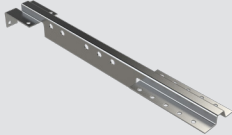
Bolt kit, bracket, walkway flat  
roof <18° 2 pcs  
410226P



Bracket, walkway flat roof <18°  
430008

# Attachments for the products: Roof ladder, Walkway on roof pitch



| ROOFING TILES ON<br>LOAD-BEARING ROOF UN-<br>DERLAY                                                                                                           | ROOFING TILES ON SIMPLIFIED<br>ROOF UNDERLAY                                                                                                               |                                                                                                                                                              | STRIP COVER AND PRE-FAB-<br>RICATED ROOF PANELS                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Distance bracket roof ladder/<br/>walkway on roof slope<br/>100417</p>   |  <p>Batten bracket, simplified<br/>roof underlay<br/>410157</p>           |  <p>Distance bracket roof ladder/<br/>walkway on roof slope<br/>100417</p> |  <p>Distance bracket roof ladder/<br/>walkway on roof slope<br/>100417</p> |
|  <p>Strip bracket, flat roofing tiles<br/>410202</p>                         |  <p>Strip bracket, flat roofing tiles<br/>410202</p>                      |  <p>Strip bracket, clay/concrete roof-<br/>ing tiles<br/>410020</p>        |  <p>Fold mount/pre-fabri-<br/>cated roof panel mount<br/>100661</p>        |
|  <p>Strip bracket, clay/concrete roof-<br/>ing tiles<br/>410020</p>        |  <p>Bolt kit, batten bracket 2 pcs<br/>410166P</p>                      |  <p>Adapter kit, roof ladder,<br/>batten<br/>470212P</p>                 |  <p>Bolt kit M10 x 20 6 pcs<br/>420009P</p>                              |
|  <p>EPDM distance bracket 3 pcs<br/>(6-pack 100 x 40 mm)<br/>100579</p>    |  <p>EPDM distance bracket 3 pcs<br/>(6-pack 100 x 40 mm)<br/>100579</p> |                                                                                                                                                              |  <p>EPDM distance bracket 3 pcs<br/>(6-pack 100 x 40 mm)<br/>100579</p>  |
|  <p>Bolt kit, roof ladder load-bear-<br/>ing roof underlay<br/>470211P</p> |                                                                                                                                                            |                                                                                                                                                              |                                                                                                                                                               |





**PROFILED SHEET METAL  
ROOFS**

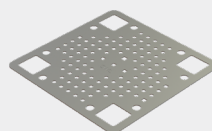
**MEMBRANE AND BITUMEN**



Distance bracket roof ladder/  
walkway on roof slope  
100417



Extension rail distance bracket  
470009



Mounting plate 375 x 375 mm  
100185



Distance bracket roof ladder/  
walkway on roof slope  
100417



EPDM distance bracket 3 pcs  
(6-pack 100 x 40 mm)  
100579



Bolt kit M10 x 20 6 pcs  
420009P



EPDM distance bracket 3 pcs  
(6-pack 100 x 40 mm)  
100579



Bolt kit, anchor loop 5 pcs  
410132P



Mounting kit, prof. sheet metal  
roof, roof ladder/walkway on  
roof pitch  
410130P\*



# Attachments for the products: Roof ladder, Walkway on roof pitch



SHINGLE ROOFS



SEDUM ROOFS



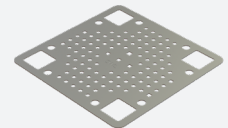
Distance bracket roof ladder/  
walkway on roof slope  
100417



Mounting plate, shingle  
410113



Distance bracket roof ladder/  
walkway on roof slope  
100417



Mounting plate 375 x 375 mm  
100185

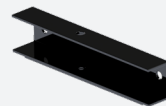


EPDM distance bracket 3 pcs  
(6-pack 100 x 40 mm)  
100579



Bolt kit, anchor loop 5 pcs  
410132P

Do you want a special riser,  
Contact us



Riser, flat roof 50 mm  
620091



EPDM distance bracket 3 pcs  
(6-pack 100 x 40 mm)  
100579



Bolt kit, mounting plate shin-  
gle 2 pcs  
410127P



Bolt kit, bracket walkway flat  
roof <18° 2 pcs  
410226P



Bolt kit M10 x 20 6 pcs  
420009P





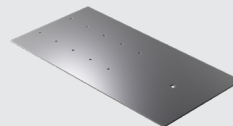
SLATE



Distance bracket RL/WW on roof  
slope  
100417



EPDM distance bracket 3 pcs  
(6-pack 100 x 40 mm)  
100579

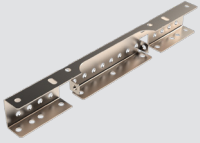
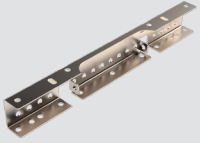
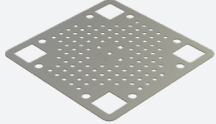
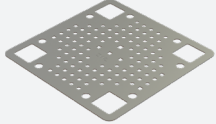
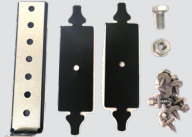


Mounting plate, slate roof 250  
100990



Bolt kit, mounting plate  
wooden facade 2 pcs  
410186p



| PROFIED SHEET METAL ROOFS                                                                                                                                                               | FELT AND CANVAS ROOFS                                                                                                                                       | SHINGLE ROOFS                                                                                                                                                | SEDUM ROOFS                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Distance bracket roof ladder/<br/>walkway on roof slope<br/>100417</p>                             |  <p>Distance bracket roof ladder/<br/>walkway on roof slope<br/>100417</p> |  <p>Distance bracket roof ladder/<br/>walkway on roof slope<br/>100417</p> |  <p>Distance bracket roof ladder/<br/>walkway on roof slope<br/>100417</p>                            |
|  <p>Extension rail distance bracket<br/>470009</p>                                                     |  <p>Mounting plate 375 x 375 mm<br/>100185</p>                             |  <p>Mounting plate, shingle<br/>410113</p>                                 |  <p>Mounting plate 375 x 375 mm<br/>100185</p>                                                        |
|  <p>Mounting kit, prof. sheet metal<br/>roof, roof ladder/walkway on<br/>roof pitch<br/>410130P*</p> |  <p>Bolt kit, anchor loop 5 pcs<br/>410132P</p>                          |  <p>Bolt kit, mounting plate shingle<br/>2 pcs<br/>410127P</p>           | <p>If you want a special riser, please<br/>contact us</p>  <p>Riser, flat roof 50 mm<br/>620091</p> |
|  <p>EPDM distance bracket 3 pcs<br/>(6-pack 100 x 40 mm)<br/>100579</p>                              |  <p>EPDM distance bracket 3 pcs<br/>(6-pack 100 x 40 mm)<br/>100579</p>  |  <p>EPDM distance bracket 3 pcs<br/>(6-pack 100 x 40 mm)<br/>100579</p>  |  <p>Bolt kit, bracket walkway flat<br/>roof &lt;18° 2 pcs<br/>410226P</p>                           |
|  <p>Bolt kit M10 x 20 6 pcs<br/>420009P</p>                                                          |  <p>Bolt kit, anchor loop 5 pcs<br/>410132P</p>                         |  <p>Bolt kit, anchor loop 5 pcs<br/>410132P</p>                          |  <p>Bolt kit M10 x 20 6 pcs<br/>420009P</p>                                                         |



# Screw & EPDM large pack



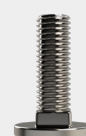
Flange nut M10 HDG, 100 pcs  
100134



Wood screw 4.8x32 A2, 300 pcs  
100135



Roof screw 6.3x19 with washer  
stainless steel, 300 pcs  
100136



Carriage bolt, flat M10x32 A2,  
100 pcs incl. thread covers  
100142



Carriage bolt, flat M10x50 A2, 50  
pcs incl. thread covers  
100143



Nut M10 and washer A2, 100 pcs  
100144



Bolt M10x20 HDG, 100 pcs  
100149



EPDM 50x60 mm, 100 pcs  
100151



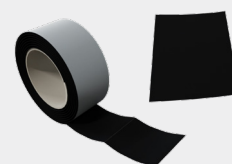
EPDM 255x35 mm, 50 pcs  
100152



EPDM 180x50 mm, 50 pcs  
100153



EPDM 350x38 mm, 30 pcs  
100154



EPDM 50 x 60 self-adhesive  
100 pcs/roll  
100682

# Bolt kits & EPDM

\*Can be ordered in any colour, see colour chart.  
See large packs on the previous double-page spread.



Bolt kit for anchor plate  
410017P



Bolt kit, bracket, prof. sheet  
metal roof excl. EPDM 3 pcs  
410024P



EPDM 180x50x2  
410049



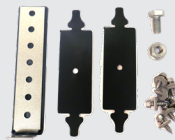
Bolt kit, bracket flat roof 5 pcs  
410126P



Bolt kit, mounting plate shingle 2 pcs  
410127P



Bolt kit, long bracket  
flat roofs 5 pcs  
410128P



Mounting kit roof ladder/walkway on roof pitch, prof. sheet metal roof  
410130P\*



Bolt kit, anchor loop 5 pcs  
410132P



Bolt kit, batten bracket 2 pcs  
410166P



EPDM bracket, profiled sheet  
metal roofs  
410173



Bolt kit, mounting plate sheet  
metal façade 2 pcs  
410185P



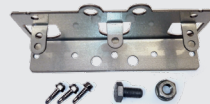
Bolt kit, mounting plate wooden façade 2 pcs  
410186P



Bolt kit, bracket walkway flat roof <18° 2 pcs  
410226P



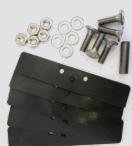
Bolt kit M10 x 20 6 pcs  
420009P



Locking kit, rail tube/ profiled  
grating  
420010P\*



Screw kit, self-tapping screws 6 pcs  
420012P



Bolt kit, bracket snow stopper  
flat roof, 5 pcs  
420170P



Bolt kit, bracket snow stopper  
profiled sheet metal roof 5 pcs  
420193P



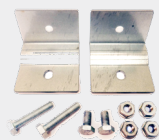
Bolt kit, stanchion  
flat roofs 5 pcs  
430026P



Bolt kit, guardrail walkway/  
roof ladder  
430034P



Hook kit, façade ladder  
470135P\*



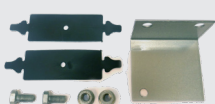
Adapter kit, guardrail roof ladder  
470230P\*



Locking kit, roof ladder  
100504\*



Extension kit, roof/façade ladder  
470285P\*



Adapter kit, roof ladder, batten  
470212P



Bolt kit, pennant 5 pcs  
480670P



Bolt kit, back guard bracket  
490017P



Bolt kit, handrails  
490031P



Bolt kit, roof ladder load-bearing roof underlay  
470211P



Extension kit, chimney strap, 2 joints  
490041P



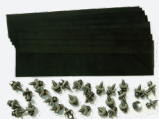
Bracket kit, safety rail  
490061P



Extension kit, safety rail  
490063P



Bolt kit, chimney strap 1 turn  
490040P



Bolt kit, wire fixing profiled sheet metal roofs, 2 pcs  
490204P



Bolt kit M10 x 25 A2 4 pcs  
490229P



End stop kit  
490075P



Bolt kit long 100mm 1pcs  
100541



Roof screw 6,3x38 A2 50 pcs  
101080



# Add colour to the roof

Our rich selection of standard colours always includes clear lacquer, black, iron grey, brick and dark red, for delivery within three working days. Other colours according to the colour chart are available for delivery within ten working days. All colours in the colour chart are available with no price supplement. If you would like a different colour, please contact us.



## ORDER

Always state the RAL number when ordering.

The NCS number is the nearest equivalent to RAL.

Gloss value: 85 (±5)

Colour quality: Polyester façade

Colour changes may occur on clear lacquered products.

\* Stocked colours

## TOUCH-UP PAINTS

| Part no. | Touch up paint                            |
|----------|-------------------------------------------|
| 480188   | Spray paint RAL 7011 Iron grey            |
| 480191   | Spray paint RAL 8004 Brick red            |
| 480192   | Spray paint RAL 9005 Black                |
| 480193   | Spray paint RAL 6021 Verdigris green      |
| 480194   | Spray paint RAL 7024 Graphite grey        |
| 480195   | Spray paint RAL 7040 Zinc grey            |
| 480196   | Spray paint RAL 3009 Dark red             |
| 480197   | Spray paint RAL 8017 Brown                |
| 480198   | Spray paint RAL 7016 Anthracite grey      |
| 100888   | Spray Paint RAL 6003 Moss Green           |
| 101063   | Spray paint RAL 9006 Silver Metallic      |
| 101064   | Spray paint RAL 9007 Dark Silver Metallic |

|                                                                                                                                |                                                               |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <p><b>BLACK*</b><br/>RAL 9005<br/>NCS S9000-N</p> <p>Standard range in gloss value 85<br/>Selected range in gloss value 20</p> | <p><b>BRICK RED*</b><br/>RAL 8004<br/>NCS S5040-Y70R</p>      |
| <p><b>BROWN</b><br/>RAL 8017<br/>NCS S8010-T70R</p>                                                                            | <p><b>SILVER METALLIC</b><br/>RAL 9006<br/>NCS S2000-N</p>    |
| <p><b>DARK SILVER METALLIC</b><br/>RAL 9007<br/>NCS S4502-Y</p>                                                                | <p><b>IRON GREY*</b><br/>RAL 7011<br/>NCS S7005-B20G</p>      |
| <p><b>ANTHRACITE GREY</b><br/>RAL 7016<br/>NCS S8005-B20G</p>                                                                  | <p><b>GRAPHITE GREY</b><br/>RAL 7024<br/>NCS S7502-B</p>      |
| <p><b>ZINC GREY</b><br/>RAL 7040<br/>NCS S3502-B</p>                                                                           | <p><b>DARK RED*</b><br/>RAL 3009<br/>NCS S6030-Y80R</p>       |
| <p><b>MOSS GREEN</b><br/>RAL 6003<br/>NCS S7010-G50Y</p>                                                                       | <p><b>VERDIGRIS GREEN</b><br/>RAL 6021<br/>NCS S3030-G30Y</p> |

# CWL Roof safety training

CWL trains fitters who will be creating safe roofs using our roof safety products. Fitters of our walkways with the horizontal wire system receive special training and installation certification. We also provide information to and train clients, planners, managers within housing companies, tenant-owner associations and municipalities in issues relating to roof safety. Many training courses are conducted at our premises in Mora, where we also demonstrate our modern production and our quality control, including product tests. We can also carry out training at our customers' premises.

The training operation is an important part of our work to ensure that our roof safety products provide the maximum benefit on all types of roofs. Our aim is for you to feel safe with your roofs and satisfied with us as a manufacturer and supplier. We also participate actively in the Roof Safety Committee's industry training. We transmit our training courses live from our showroom. In this way, our customers are able to become acquainted with our products in their natural environment, which we consider delivers strong added value compared to just seeing them in a Powerpoint presentation.

## COURSE CONTENT

- Swedish legislation
- Who is responsible
- The National Board of Housing, Building and Planning's functional requirements
- Risk analyses
- Approvals
- CE and P-marking
- Industry Standard
- Planning
- Practical installation





CONTACT US FOR INFO  
OR BOOKING  
projektering@cwlundberg.com  
0250-552 577



# Compilation of laws and regulations

Below is a brief summary of various demands that can be placed on the property owner in order to create safe buildings with safe roofs. For more detailed information, see the website of the authority in question.

| AREA                               | OBLIGATION & ACTION                                                                                                                                                                                                                                                                                                                                                       | SPECIFIED BY                                                                                                                                                                                                                                                                                                        | COMMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of access to the roof</b> | <p>All buildings must, if necessary, be supplied with means of access to the roof as well as devices for protection against accidents in the event of a fall.</p> <p>Action: Safety inspection of the roof and any required improvement measures.</p>                                                                                                                     | <p>Work Environment Act.</p> <p>Industry Standard – Roof Safety.</p>                                                                                                                                                                                                                                                | <p>Accessing roofs up to 5 m can take place via a loose ground ladder, in accordance with EN 131, with a step extension against a permanently installed slipguard at the eaves and a roof ladder up to the ridge.</p> <p>On taller roofs, a façade ladder or an internal access route via the attic and an access hatch onto the roof are required.</p>                                                                                                                                       |
| <b>Chimney sweeping</b>            | <p>Cleaning (chimney sweeping) fireplaces, fixed combustion appliances, flues and exhaust ducts must be carried out by individuals possessing the necessary skills. The property owner is responsible for ensuring that this is carried out.</p> <p>Action: Ensure the chimney is swept. Consultation with the municipality and a master chimney sweep or equivalent.</p> | <p>Civil Protection Act (2003:778), Chapter 3, Section 4.<br/>The Swedish Civil Contingencies Agency's regulation on cleaning (chimney sweeping) and fire safety inspections (SRVFS 2005:9).</p> <p>The Swedish Work Environment Authority's regulation "Protection against injury due to falls" (AFS 1981:14).</p> | <p>There must be a safe access route in the form of an approved ground ladder or some other access route, a roof ladder (roof step) and a walkway to the chimney. At the chimney, there must be a work platform, 0.5-0.9 m below the chimney crest, as well as the potential to anchor personal fall protection equipment. Alternatively, there must be guardrails around the work platform.</p> <p>The municipality determines who has sufficient expertise to perform chimney sweeping.</p> |
| <b>Ice and snow on roofs</b>       | <p>Without undue delay, removing snow and ice that could fall and cause injury to persons or damage to property in public places.</p> <p>Action: Ongoing supervision and care. Make sure that the necessary barrier material is available at the property all year round.</p>                                                                                             | <p>Public Order Act (1993:1617), Chapter 3, Section 3.</p> <p>The Swedish Work Environment Authority's regulation Building and civil engineering work (AFS 2014:26).</p> <p>Protection against injury due to falls (AFS 1981:14).</p> <p>Industry Standard – Roof Safety.</p>                                       | <p>All buildings.</p> <p>The responsibility lies with the property owner or the person who, as a result of a right-of-use agreement or similar, acts in place of the property owner.</p> <p>If necessary, check and supplement the safety equipment on the roof well in advance of the winter season.</p> <p>See CW Lundbeg's document "Winter-proof roofs".</p>                                                                                                                              |

| AREA                                          | OBLIGATION & ACTION                                                                                                                                                                                                                                                                                                                 | SPECIFIED BY                                                                                                                                                                                                                                                                                                                                                                                                                   | COMMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operating and maintenance instructions</b> | <p>Operating and maintenance instructions must be provided for technical devices.</p> <p>Action: Continual review and updating of documentation.</p>                                                                                                                                                                                | <p>BBR 2:51.</p> <p>The Swedish Work Environment Authority's regulation "Use of work equipment" (AFS 2006:4).</p>                                                                                                                                                                                                                                                                                                              | <p>All properties.</p> <p>For installations and equipment that require supervision and maintenance, operating and maintenance instructions must be available. These must be provided by the relevant manufacturer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Avoiding accidents</b>                     | <p>Property owners must also ensure that the risk of accidents is limited within the property.</p>                                                                                                                                                                                                                                  | <p>Planning and Building Act, Chapter 3, Section 15, subsections 3, 4.</p>                                                                                                                                                                                                                                                                                                                                                     | <p>All properties.</p> <p>Roof safety equipment must be adapted and dimensioned according to the need for roof work.</p> <p>Minimise the risk of children and other unauthorised persons being able to get up onto the roof.</p>                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Environmental impact</b>                   | <p>General obligation to ensure that the use of the property does not cause any harm to human health or to the environment.</p>                                                                                                                                                                                                     | <p>The Environmental Code (1998:808), Chapter 9, Sections 1 and 3.</p>                                                                                                                                                                                                                                                                                                                                                         | <p>All properties. Roof safety equipment that is installed must comprise materials and surface treatment that do not give rise to leaching, the formation of rust or other damage that could have a negative impact on safety and the environment.</p>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Mandatory ventilation inspection</b>       | <p>Be sure to check the function of the ventilation system. Display a certificate confirming completion of the inspection in a clearly visible location in the building. Rectify any identified shortcomings as soon as possible.</p> <p>Action: Scheduling of a mandatory ventilation inspection plan to rectify deficiencies.</p> | <p>Ordinance (1991:1273) on the Functional Inspection of Ventilation Systems.</p> <p>The regulations of the National Board of Housing, Building and Planning regarding the functional inspection of ventilation systems (BFS 1991:36, amended by BFS 2009:5).</p> <p>The Swedish Work Environment Authority's regulations "Use of work equipment" (AFS 2006:4) and "Protection against injury due to falls" (AFS 1981:14).</p> | <p>Applies to all apartment buildings and premises. To carry out roof inspections, it is necessary to have safe access routes as well as properly dimensioned and appropriate roof safety equipment.</p> <p>The time interval for mandatory ventilation inspections is specified in the regulations of the National Board of Housing, Building and Planning. Please note that authorisation requirements apply to the person who will be carrying out the inspection. No charge for municipal supervision.</p> <p>The inspector carrying out the mandatory ventilation inspection must also submit proposals for energy-saving measures.</p> |
| <b>Care of the building</b>                   | <p>The exteriors of buildings and their plots must be kept in good condition. Safeguards may be included in the detailed plan that regulates the maintenance of buildings and plots.</p> <p>Action: Supervision and maintenance, description of any special measures.</p>                                                           | <p>Planning and Building Act (1987:10), Chapter 3, Sections 12 and 13, Chapter 5, Section 7, subsection 4, and Chapter 10, Sections 15-16.</p>                                                                                                                                                                                                                                                                                 | <p>"Good condition" applies to all buildings and plots.</p> <p>For safe roofs, the roof safety equipment must be correctly dimensioned, correctly installed and properly maintained.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



# Warranty conditions in different environments

The warranty means that CW Lundberg will replace a defective product with a new product that is free from defects without delay. If a product has damaged the outer roof or some other part of the roof, CW Lundberg AB will pay compensation corresponding to the cost of purchasing new such material. The new product will be made available to the roof owner at CW Lundberg AB's factory in Mora. Instead of compensating the roof owner with a new product, CW Lundberg AB is entitled to remedy the defect in the original product by means of repair or in some other way. CW Lundberg's deliveries are covered by ABM 07. This warranty commitment constitutes a specification of ABM 07 as applicable. The warranty covers all products made from zinc magnesium or stainless steel by CW Lundberg AB after 1 May 2016.

### Conditions for the warranty to apply:

- The warranty period is determined on the basis of the environment in which the product is installed (see examples of environments in the table below).
- For installed products, the warranty only applies on the condition that the installation has been carried out in accordance with CW Lundberg AB's instructions applicable at the time of purchase.
- The product must have been maintained in accordance with CW Lundberg AB's instructions applicable at the time of purchase.
- The product must not have been subjected to abnormal wear and tear, been overloaded in excess of applicable norms and regulations, or been dismantled by the roof owner.
- Complaints must be submitted to CW Lundberg AB within one month following the discovery of the defect or after the defect has been made known to the roof owner.

- The entitlement to compensation applies to the party that owns the roof on which the product has been or will be installed.

### When does the warranty not apply?

- The warranty does not apply to damage to the product that has occurred after the transfer of risk from CW Lundberg AB to its customer. As such, the warranty does not apply e.g. to transport damage after said transfer of risk or to damage arising from improper or careless storage or other handling by wholesalers, dealers or end customers. Instead, the dealer may be liable for such damage in the first instance, in accordance with sales legislation rules.
- The warranty does not apply if the installation has been supplemented with components of makes other than CW Lundberg AB.
- The warranty does not cover anything other than that which is stated in this document.

## We select zinc magnesium

Zinc magnesium is a considerably more environmentally friendly and corrosion-resistant alternative for the surface treatment of sheet steel than traditional hot-dip galvanisation.

### Benefits of zinc magnesium:

- Up to ten times better corrosion protection.
- Corrosivity class C5 for 20 years.
- Lower environmental impact due to 75% less zinc content and up to 75% slower zinc run-off rate.

### Its healing capacity

Zinc magnesium contains zinc, aluminium and magnesium and has the ability to heal rock edges and other damage to the surface layer. This healing ability is better than that of pure zinc, e.g. products with hot-dip galvanised surfaces. Aluminium and magnesium have the ability to adapt to current conditions and help create a protective layer on the damaged surface.

### Reduced run-off rate

A product with a zinc magnesium coating is so effective that only a quarter of the amount of zinc is required compared to hot-dip galvanisation. In addition, the run-off rate of zinc is only a quarter of that of hot-dip galvanisation. If you also protect the surface with a powder coating, this completely stops the run-off of zinc. Products with zinc magnesium reduce the environmental impact due to reduced material consumption and the reduction in zinc emissions.

| SPECIFIC WARRANTY PERIOD                    | WARRANTY PERIOD (YEARS) |
|---------------------------------------------|-------------------------|
| Painted products installed on copper roofs. | 20                      |

| CORROSIVITY CLASS | ENVIRONMENTAL CORROSIVITY | ENVIRONMENTAL EXAMPLES                                                                                                                                                                                                                                                                                 | Corrosivity classes according to SS-EN ISO 12944-2:1998 | WARRANTY PERIOD (YEARS) |
|-------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|
| C1                | Very low                  | Heated spaces with dry air and insignificant amounts of air pollution, e.g. offices, shops, schools and hotels.                                                                                                                                                                                        |                                                         | 100                     |
| C2                | Low                       | Atmospheres with low levels of air pollution. Unheated spaces with fluctuating temperature and humidity. Low frequency of moisture condensation and low air pollution content, e.g. sports halls, warehouses.                                                                                          |                                                         | 80                      |
| C3                | Moderate                  | Atmospheres with a certain amount of salt or moderate air pollution. Urban areas and light industrial areas. Areas that are influenced to some extent by the coast. Spaces with moderate humidity and a certain amount of air pollution from production processes, e.g. breweries, dairies, laundries. |                                                         | 60                      |
| C4                | High                      | Atmospheres with moderate salt or significant amounts of air pollution. Industrial and coastal areas. Spaces with high humidity and large amount of air pollution from production processes, e.g. chemical industries, swimming pools, shipyards.                                                      |                                                         | 40                      |
| C5-I              | Very high (Industrial)    | Industrial areas with high humidity and aggressive atmosphere. Spaces with almost permanent moisture condensation and a large amount of air pollution.                                                                                                                                                 |                                                         | 20                      |
| C5-M              | Very high (Marine)        | Coastal and offshore areas with a large amount of salt. Spaces with almost permanent moisture condensation and a large amount of air pollution.                                                                                                                                                        |                                                         | 20                      |



# EPD

An EPD is an independently verified declaration that shows the total environmental impact of a product throughout its life cycle, from raw material extraction to refuse disposal. By reporting our climate impact openly and transparently, we take responsibility and show our commitment to a more sustainable future.

Choosing products with an EPD means you can make informed and sustainable product choices. All of our products are environmentally certified with an EPD (Environmental Product Declaration), which means that their environmental impact has been examined and verified.

## Results of the environmental performance indicators

### Mandatory impact category indicators according to EN 15804

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |          |          |           |          |           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|-----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A1-A3    | A5       | C1       | C2       | C3        | C4       | D         |
| GWP-total                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4,16E+00 | 6,96E-02 | 0,00E+00 | 9,37E-03 | 1,08E-01  | 2,58E-04 | -1,49E+00 |
| GWP-fossil                              | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,86E+00 | 3,67E-04 | 0,00E+00 | 9,35E-03 | 1,08E-01  | 2,57E-04 | -1,50E+00 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,64E-01 | 6,93E-02 | 0,00E+00 | 8,46E-06 | -4,25E-04 | 1,47E-07 | 4,93E-03  |
| GWP-luluc                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,40E-02 | 1,25E-07 | 0,00E+00 | 4,54E-06 | 3,67E-05  | 1,55E-07 | -3,87E-04 |
| ODP                                     | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1,69E-08 | 1,81E-11 | 0,00E+00 | 2,04E-10 | 4,57E-10  | 7,45E-12 | -3,60E-08 |
| AP                                      | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,46E-02 | 1,23E-05 | 0,00E+00 | 3,05E-05 | 2,88E-04  | 1,94E-06 | -5,64E-03 |
| EP-freshwater                           | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2,51E-03 | 2,39E-07 | 0,00E+00 | 6,54E-07 | 1,48E-05  | 2,14E-08 | -6,02E-04 |
| EP-marine                               | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6,07E-03 | 6,13E-06 | 0,00E+00 | 1,05E-05 | 6,90E-05  | 7,44E-07 | -1,38E-03 |
| EP-terrestrial                          | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2,69E+00 | 6,63E-05 | 0,00E+00 | 1,11E-04 | 7,68E-04  | 7,98E-06 | -1,46E-02 |
| POCP                                    | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1,61E-02 | 1,75E-05 | 0,00E+00 | 4,56E-05 | 2,28E-04  | 2,78E-06 | -8,05E-03 |
| ADP-minerals&metals*                    | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6,81E-05 | 8,80E-10 | 0,00E+00 | 3,00E-08 | 1,53E-06  | 3,57E-10 | -8,34E-07 |
| ADP-fossil*                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4,41E+01 | 3,68E-03 | 0,00E+00 | 1,33E-01 | 3,46E-01  | 6,41E-03 | -1,59E+01 |
| WDP*                                    | m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1,48E+00 | 1,02E-04 | 0,00E+00 | 5,40E-04 | 4,38E-03  | 2,83E-04 | -7,79E-02 |
| Acronyms                                | GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption. |          |          |          |          |           |          |           |

\* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Environmental Product Declaration

EPD

THE INTERNATIONAL EPD® SYSTEM

EPD

DECLARATION

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:  
**Roof safety and installation systems for solar panels**  
 EPD of multiple products, based on the average results of the product group

from:  
**CW Lundberg Industri AB**  


Programme:  
 Programme operator:  
 EPD registration number:  
 Publication date:  
 Valid until:  
 The International EPD® System, [www.epdint.org](http://www.epdint.org)  
 EPD-ES-001/0002  
 2024-05-15  
 2025-05-15  
An EPD should provide current information and may be updated if conditions change. The latest version is available upon request to the programme operator and published at [www.epdint.org](http://www.epdint.org)



Environmental Product Declaration

EPD

THE INTERNATIONAL EPD® SYSTEM

EPD

DECLARATION

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:  
**Wire safety system for roof**  
 EPD of multiple products, based on the average results of the product group

from:  
**CW Lundberg Industri AB**  


Programme:  
 Programme operator:  
 EPD registration number:  
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 The International EPD® System, [www.epdint.org](http://www.epdint.org)  
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 2024-05-15  
 2025-05-15  
An EPD should provide current information and may be updated if conditions change. The latest version is available upon request to the programme operator and published at [www.epdint.org](http://www.epdint.org)







# Do you have any questions?

Contact us. We're always here to help you.

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