EN

DOCUMENTATION

• Certificate • Type Approval • Declaration of Performance
• Guarantee Terms • Liability Insurance • Building Materials/Environmental Declaration
• Building Materials Assessment • ISO 9001 • ISO 14001 • In-house Inspection

ROOF SAFETY MORA SWEDEN

Approval of Roof Safety

According to the applicable EU legislation, products must be encompassed by a Declaration of Performance in order to receive a CE label. CW Lundberg supplies Declarations of Performance for all products subject to any kind of standard or norm.

What follows is a selection of the labels that apply with regard to roof safety in the Nordic countries and in Europe.

CE-labelled building products satisfy European standards and are approved for securing oneself to personal fall protection equipment.

Technical Research Institute of Sweden (SP)

P-labelled building products satisfy Swedish standards and are approved for securing oneself to personal fall protection equipment, in addition to serving as slipguards for ground ladders.

Satisfies the load requirements as stated in EN 516.

Austrian Standards Institute (ÖN)

Applies to snow fence systems at roof slopes of up to 60°.

The fork-shaped symbol, known as Gaffelmärket in Swedish, is a guarantee that the manufacturing has been inspected by the relevant Swedish authority and that the product meets the requirements set out in Swedish building regulations.

Important information:

The approval is only valid if one:

- Follows the manufacturer’s directions.
- Uses the manufacturer’s original components.

The components making up the structures may not be replaced or substituted by other makes.

Contents

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CERTIFICATE

12 71 01

Roof safety devices

Holder/Issued to

CW Lundberg Industri AB

Box 138, SE-792 22 Mora, Sweden
Organisation number: 556099-7461
Phone: +46 (0) 250-55 35 00, E-mail: info@cwlundberg.se , Web: www.cwlundberg.se

Product description

Roof safety devices. Products according to associated documents.

Intended use

Permanently fixed access and protective devices for roofs.

Approval

The products have been assessed against the certification rule "Roof safety devices", CR 035.
The products meet the requirements of SS 831331 (Rails at roof ridge and eaves), SS 831333 (Guard rails), SS 831335 (Snow fence), SS 831340 (Ladders for vertical fixing), SS 831342 (Slide guards for ladders).

Associated documents

Product list dated 2021-11-30.
Material list dated 2021-11-30.
Installation instructions with text 2021-11-30.
Installation instructions without text 2021-11-30.

Control

The factory production control (FPC) is monitored by an independent inspection body.
Control agreement: 100-95-0448, Inspection body: RISE Research Institutes of Sweden AB.

When the building proprietor performs inspection at the building site, markings shall be checked to ensure that the correct products have been supplied and that they are used in accordance with the conditions in this approval and associated documents.

Manufacturing place

Production control includes the following place:
CW Lundberg Industri AB, Landsvägen 52, SE-792 95 Mora.

RISE Research Institutes of Sweden AB | Certification
Box 857, 501 15 Borås
+46 10 516 50 00 | certifiering@ri.se | www.ri.se
1108672 (2P03371 IFS 13423)
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CERTIFICATE

Markning

The products are to be marked at the factory. The marking consists of a text on every product/packing supplied and includes:

Holder	CW Lundberg Industri AB
Product type designation	type designation
Consecutive manufacture no./date of production	no./date
Certificate number	12 71 01
P-mark	P
Certification body and Inspection body	RISE

Basis for assessment/approval

Report PX18475A, PX24601Arev, PX24601B, 3P05717-1, 5P01181, 5P09142, 6P04399-01 and 6P05478-1 – 3, from SP Technical Research Institute of Sweden.
Report 9P06198-1, 9P06198-2, 7P06437, ca910957, P103876, P109718-2 and 2P02688-01 from RISE Research Institutes of Sweden.
Certification overview dated 2021-11-30.
Drawings according to list 2021-04-12.

Comments

The corrosion protection is suitable for corrosivity class C5, according to in SS-EN ISO 12944-2 described class, based on a deemed expected lifetime of 15 years.

This certificate supersedes the previous approval with the same number dated 2021-07-01.

Validity

Valid through 2026-12-01.

Martin Tillander

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Type Approval and decision on production control

0072/03

Batten step

Holder

CW Lundberg Industri AB

Box 138, SE-792 22 Mora, Sweden
Organisation number: 556099–7461
Phone: +46 250 55 35 00
E-mail: info@cwlundberg.com, web: www.cwlundberg.com

Product description

Roof step for fixing to tile battens and roof tiles. The batten step is available in different widths and is made of corrosion-protected and painted steel sheet.
See also Comments.

Intended use

Access device on roofs.

Approval

The product fulfils the requirements set forth in chapter 8, 4 § 4 PBL, in respect to and under conditions stated in this certificate, and are therefore approved in accordance with the provisions of the following sections of Boverket Building Regulations (BBR) issued by the National Board of Housing, Building and Planning.

BBR	
Roof safety, General	8:241
Roof safety, Access devices	8:2422*

*Approved for building with a maximum façade height of 4.0 m and maximum roof pitch of 45°. The batten steps may only be installed straight above each other.

Associated documents

Mounting instructions, M-034 040322.
Mounting instructions, M-081 1712 SE.

Control

The factory production control (FPC) is monitored by an independent inspection body.
Control agreement: 100-95-0448, inspection body: SP Technical Research Institute of Sweden.

When the building proprietor performs inspection at the building site markings shall be checked to ensure that the correct products have been supplied and that they are used in accordance with the conditions in this approval and associated documents. Further the product shall be accompanied by a manufacturer's assurance, certifying that the product has been manufactured in accordance with the documents on which this approval is based.

Manufacturing place

Production control includes the following place:
CW Lundberg Industri AB, Landsvägen 52, Mora.

RISE Research Institutes of Sweden AB | Certification
Box 857, SE-501 15 Borås, Sweden
Phone: +46 10-516 50 00
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8P03969

2018-01-300

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Marking

The product is to be marked at the factory. The marking consists of a text on every product/packing supplied and includes:

Holder	CW Lundberg Industri AB
Manufacturing place	Mora
Product type designation	type designation
Consecutive manufacture no./date of production	number/date
Type approval number	0072/03
Boverket´s registered trade mark	⊤
RISE Accreditation number	1002
Certification body and Inspection body	RISE

Basis for judgement/approval

Report P301923 and 5P09142 from SP Technical Research Institute of Sweden.
Report 6P06282-02 from RISE Research Institutes of Sweden AB.
Drawing according to product list dated 2018-06-11.

Comments

The batten step is not intended to be used as an anchor point for lifelines. If the façade height is over 3 m the roof must have separate anchor points for lines for safety harnesses in accordance with BBR 8:243.

The corrosion protection is suitable for corrosivity class C5, according to in SS-EN ISO 12944-2 described class, based on a deemed expected lifetime of 15 years.

This approval supersedes the previous approval with the same number dated 2013-07-05.

Validity

Valid through 2023-07-02.

The validity of this approval expires when the characteristics included in this approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Johan Åkesson

Marie Karlsson

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Type Approval and decision on production control

SC0876-11

Roof step for sheet metal roof

Holder

CW Lundberg Industri AB

Box 138, SE-792 22 Mora, Sweden
Organisation number: 556099–7461
Phone: +46 250 55 35 00
E-mail: info@cwlundberg.com, web: www.cwlundberg.com

Product description

Roof step for mounting on steel- or aluminum sheets. The step is made of corrosion-protected and painted steel sheet.
See also Comments.

Intended use

Access device on roofs.

Approval

The product fulfils the requirements set forth in chapter 8, 4 § 4 PBL, in respect to and under conditions stated in this certificate, and are therefore approved in accordance with the provisions of the following sections of Boverket Building Regulations (BBR) issued by the National Board of Housing, Building and Planning.

BBR	
Roof safety, General	8:241, 2nd paragraph, 1st sentence
Roof safety, Access devices	8:2422*

*Approved for building with a maximum façade height of 4.0 m and maximum roof pitch of 45°. The roof steps may only be installed straight above each other.

Associated documents

Mounting instructions, M-213 1611 SE.

Control

The factory production control (FPC) is monitored by an independent inspection body.
Control agreement: 100-95-0448, inspection body: SP Technical Research Institute of Sweden.

When the building proprietor performs inspection at the building site markings shall be checked to ensure that the correct products have been supplied and that they are used in accordance with the conditions in this approval and associated documents. Further the product shall be accompanied by a manufacturer's assurance, certifying that the product has been manufactured in accordance with the documents on which this approval is based.

Manufacturing place

Production control includes the following place:
CW Lundberg Industri AB, Landsvägen 52, Mora.

Marking

RISE Research Institutes of Sweden AB | Certification
Box 857, SE-501 15 Borås, Sweden
Phone: +46 10-516 50 00
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2018-01-300
8P03964

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The product is to be marked at the factory. The marking consists of a text on every product/packing supplied and includes:

Holder	CW Lundberg Industri AB
Manufacturing place	Mora
Product type designation	type designation
Consecutive manufacture no./date of production	number/date
Type approval number	SC0876-11
Boverket´s registered trade mark	⊤
RISE Accreditation number	1002
Certification body and Inspection body	RISE

Basis for judgement/approval

Report PX18475B, PX27824 and 5P09142 from SP Technical Research Institute of Sweden.
Report 6P06282-02 from RISE Research Institutes of Sweden AB.
Drawing 450050-3 dated1306.

Comments

The roof step is not intended to be used as an anchor point for lifelines. If the façade height is over 3 m the roof must have separate anchor points for lines for safety harnesses in accordance with BBR 8:243.

The corrosion protection is suitable for corrosivity class C5, according to in SS-EN ISO 12944-2 described class, based on a deemed expected lifetime of 15 years.

This approval supersedes the previous approval with the same number dated 2013-07-05.

Validity

Valid through 2023-07-02.

The validity of this approval expires when the characteristics included in this approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Johan Åkesson

Marie Karlsson

This is a translation from the Swedish original document. In the event of any dispute as to its content, the Swedish text shall take precedence.

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Declared Performance of the Product
Anchor Loop

1 Designation and trade name of the construction product:

Product kit for the installation of fixed anchor points in accordance with the system: Anchor loop

2 The construction product's type designation/names per constituent component:

- **Anchor loop, smooth roof**
- **Mounting plate, shingle**
- **Mounting plate 375 x 375 mm**
- **Mounting plate, wire, profiled sheet metal roof**
- **Bolt kit for anchor loop 5 pcs**
- **Riser, smooth roof**

3 Intended Use for the Construction Product:

- **Attachment of personal fall protection equipment for one person**
- **Installation on intended roof types in accordance with the specification on page 2**

4 Manufacturer's Name and Contact Address:
CW Lundberg Industri AB
Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative, if such has been appointed: **Not applicable**

6 Assessment and inspection of performance:
Assessment and continual inspection performed by supervisory body, and in-house inspections.

7 Technical specifications:
Supervisory body, Research Institutes of Sweden (RISE)
Certificate 12 71 01

Applied technical specification: EN 516:2006

8 Construction product's performance:

Essential properties	Performance	Remarks
Mechanical strength - Static load (class 2 according to 7.1) - Dynamic load (class 2 according to 7.2)	 ≥ 10 kN ≥ 100 kg	–
Exterior reaction to fire (according to 7.3)	B_{roof}	
Corrosion resistance (according to 5)	Satisfies	

9 The performance for the aforementioned product is complies with the Performance of the product criteria set out in Section 8.
This document is issued at the responsibility of the manufacturer in accordance with Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 26 April 2022

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info@cwlundberg.com
www.cwlundberg.com

The product information stated below does not constitute a portion of the declared Performance of the product.
The manufacture issues additional information about the product which affects or which may affect its use.

Installation of the anchor loop is done in accordance with Installation Instruction M-085, on PVC, ECB/FPO-based membranes in accordance with installation M-349, on bitumen-based membranes in accordance with M-350, on shingled roofs in accordance with M-132, on weldable EPDM membranes in accordance with M-351 or M-352 and on profiled sheet metal roofs in accordance with M-341.

Optional extra, flag with snow-depth indicator.

Products can be selected in various colours of powder lacquer for design.

Other Performance

Properties	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Mechanical strength (class A)	Satisfies	EN 795:1997

Requirements on PVC, ECB/FPO-based membranes
The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

Requirements for bitumen-based membranes
The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extensions	min. 500 N/50 mm	EN 12317-1
Peel strength at extensions	min. 125 N/50 mm	EN 12316-1

Requirements for weldable EPDM membranes
The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2

Choice of attachment in concrete
Installation may only be done with a concrete mount M10 (concrete expander, safety expander or chemical anchor) in at least class A2 that withstands a traction load of at least 10 kN a tensile load of at least 10 kN.
In order to be able to install the anchor loop directly onto concrete, a suitable anchor must be chosen by calculating the load for the class in question on the underlying surface; moreover, one must take into account the type of reinforcement, the distance from the edge and other mounts, the thickness of the concrete and other conditions that may affect the safety of the mount. On the basis of the calculations made and the installation conditions in question, the type and dimension of the anchor is determined, as are the detailed installation instructions that shall be consistent with the manufacturer's instructions.

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Declared Performance of the Product
Snow Fence

1 Designation and trade name of the construction product:
Product kit for the installation of a snow fence in accordance with the system: Snow fence

2 The construction product's type designation/names per constituent component:

- **Rail tube 1.0 m / 2.4 m**
- **Angle tube 0-90°/ 90°**
- **Profiled sheet metal snow fence 1.255 m / 2.345 m**
- **Bracket concrete tiles / clay tiles**
- **Anchor plate, load-bearing roof underlay**
- **Batten bracket, simplified roof underlay**
- **Bracket, profiled sheet metal / flat roof long**
- **Bracket smooth roof**
- **Fold mount / fold mount, pre-fabricated panel roof**
- **Mounting plate 375 x 375 mm / Mounting plate shingle**
- **Riser, smooth roof**
- **Mounting plate façade ladder (Hyygge type)**

3 Intended Uses for the Construction Product

- **Snow fence**
- **Attachment of personal fall protection equipment**
- **Installation on intended roof types in accordance with the specification on page 2**

4 Manufacturer's Name and Contact Address:
CW Lundberg Industri AB
Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative, if such has been appointed: **Not applicable**

6 Assessment and inspection of performance:
Assessment and continual inspection performed by supervisory body, and in-house inspections.

7 Technical specifications:
Supervisory body, Research Institutes of Sweden (RISE)
Certificate 12 71 01

Applied technical specification: SS 831335 and ÖNORM B 3418:2012

8 Construction product's performance:

Essential properties	Performance	Remarks
Load capacity (according to A.2) Load capacity (according to A.3) Load capacity (according to A.4)	3.3 kN 3.5 kN 3.9 kN	Austrian Standard (ÖNORM) B 3418:2012 **
Mechanical strength (according to Section 6) - Static load - Dynamic load	 5 kN/m* ≥ 100 kg	SS 831335
Corrosion resistance	Satisfies	

9 Performance of the product for the aforementioned product is consistent with the Performance of the product specified in Section 8. This document is issued at the responsibility of the manufacturer in accordance with Section 4.

5 kN/m* indicates load capacity at a c-c distance of 1.2 m between mounts.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 26 April 2022

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The Performance of the product indicated below does not constitute a portion of the declared Performance of the product. The manufacture issues additional information about the product which affects or which may affect its use.

Installation of the snow fence is done in accordance with Installation Instruction M-204, on PVC, ECB/FPO-based membranes in accordance with M-085 and M-349, on bitumen-based membranes in accordance with M-350, on shingled roofs in accordance with M-132, on weldable EPDM membranes in accordance with M-351 or M-352 and on sheet metal roofs in accordance with M-222, Hyygge sheet metal roofs in accordance with M-301, and on tiled roofs in accordance with M-223.

Optional extra, flag with snow-depth indicator.

Products can be selected in various colours of powder lacquer for design.

Other Performance

Properties	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Exterior reaction to fire (according to 7.3)	B_{roof}	EN 516:2006

Requirements on PVC, ECB/FPO-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

Requirements for bitumen-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength in longitudinal and transverse directions	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extension and longitudinal and transverse directions	min. 500 N/50 mm	EN 12317-1
Peel strength	min. 125 N/50 mm	EN 12316-1

Requirements for weldable EPDM membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2

Choice of attachment in concrete

Installation may only be done with a concrete mount M10 (concrete expander, safety expander or chemical anchor) in at least class A2 that withstands a traction load of at least 10 kN a tensile load of at least 10 kN.

In order to be able to install the anchor loop directly onto concrete, a suitable anchor must be chosen by calculating the load for the class in question on the underlying surface; moreover, one must take into account the type of reinforcement, the distance from the edge and other mounts, the thickness of the concrete and other conditions that may affect the safety of the mount. On the basis of the calculations made and the installation conditions in question, the type and dimension of the anchor is determined, as are the detailed installation instructions that shall be consistent with the manufacturer's instructions.

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Declared Product Performance
Roof step, profiled sheet metal

1 Construction product's designation and trade name:
Product kit for fixed roof step, profile sheet metal roof according to the system: Roof step, profiled sheet metal.

2 Construction product type designation(s) per component:

- **Roof step, profiled sheet metal**
- **Bolt kit with EPDM seal**

3 Construction product's intended use

- **Access device on profiled sheet metal roofs**

4 Manufacturer's name and contact address
CW Lundberg Industri AB - Landsvägen 52, Box 138, 792 22 Mora, Sweden
Authorised representative if such has been appointed:
CW Lundberg Sp. z o.o. - ul. Strefowa 9, 58-200 Dzierżoniów, Polska

5 Assessment and inspection of performance:
Assessment and ongoing inspection are conducted by the supervisory body, as well as through in-house inspections.

6 Applied technical specification:
Accredited certifying body 0402 RISE, Research Institutes of Sweden
Type approval SC0876-11

Applied technical specification: EN 516:2006

7 Construction product performance:

Essential characteristics	Performance	Remarks
Mechanical strength - Static load (class 1 according to 7.1)	Fulfils	
Corrosion resistance	Fulfils	
External fire impact	B_{roof}	

8 Performance for the aforementioned product complies with the product performance as indicated in Section 8. This document is issued at the manufacturer's own responsibility according to Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 17 March 2020

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info@cwlundberg.com
www.cwlundberg.com

The product information stated below does not constitute a part of the declared product performance. The manufacturer provides additional information about the product that affects or may affect its use.

Installation of roof step for profiled sheet metal roof made of steel plate min 0.4 mm or aluminium plate min 0.6 mm, is done in accordance with installation instruction M-213. Roof pitch max 45° and maximum c-c distance between profile tops 280 mm.

Products can be selected in various colours of powder coating for design.

Other Performance

Characteristics	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2

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Declared Performance of the Product
Ridge Rail and Footing Rail

1 Designation and trade name of the construction product:
Product kit for the installation of fixed anchoring in accordance with the system: Ridge Rail and Footing Rail

2 The construction product's type designation/names per constituent component:

- **Rail tube 1.0 m / 2.4 m**
- **Angle tube 90°**
- **Bracket concrete tiles / clay tiles**
- **Anchor plate, load-bearing roof underlay**
- **Batten bracket, simplified roof underlay**
- **Bracket, profiled sheet metal / flat roof long**
- **Bracket smooth roof**
- **Fold mount / fold mount, pre-fabricated panel roof**
- **Mounting plate 375 x 375 mm**
- **Mounting plate, shingle**
- **Riser, smooth roof**
- **Mounting plate façade ladder (Hyygge type)**

3 Intended Uses for the Construction Product

- **Ridge Rail and Footing Rail**
- **Attachment of personal fall protection equipment directly on the rail**
- **Installation on intended roof types in accordance with the specification on page 2**

4 Manufacturer's Name and Contact Address:
CW Lundberg Industri AB
Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative, if such has been appointed: **Not applicable**

6 Assessment and inspection of performance:
Assessment and continual inspection performed by supervisory body, and in-house inspections.

7 Technical specifications:
Supervisory body, Research Institutes of Sweden (RISE)
Certificate 12 71 01

Applied technical specification: SS 831331

8 Construction product's performance:

Essential properties	Performance	Remarks
Mechanical strength (according to 6) - Static load - Dynamic load	 ≥ 10 kN ≥ 100 kg	–
Corrosion resistance (according to 7)	Satisfies	

9 Performance of the product for the aforementioned product is consistent with the Performance of the product specified in Section 8. This document is issued at the responsibility of the manufacturer in accordance with Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 26 April 2022

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The Performance of the product indicated below does not constitute a portion of the declared Performance of the product. The manufacture issues additional information about the product which affects or which may affect its use.

Installation of the ridge and footer rail is done in accordance with Installation Instruction M-204, on PVC, ECB/FPO-based membranes in accordance with M-085 and M-349, on bitumen-based membranes in accordance with M-350, on shingled roofs in accordance with M-132, on weldable EPDM membranes in accordance with M-351 or M-352 and on sheet metal roofs in accordance with M-222, Hyygge sheet metal roofs in accordance with M-301, and on tiled roofs in accordance with M-223.

Supplement with position flag.

Products can be selected in various colours of powder lacquer for design.

Other Performance

Properties	*Performance*	*Technical specifications*
Mechanical strength	Satisfies	EN 795:1997
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Exterior reaction to fire (according to 7.3)	B_{roof}	EN 516:2006

Requirements on PVC, ECB/FPO-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

Requirements for bitumen-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extensions	min. 500 N/50 mm	EN 12317-1
Peel strength at extensions	min. 125 N/50 mm	EN 12316-1

Requirements for weldable EPDM membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2

Choice of attachment in concrete

Installation may only be done with a concrete mount M10 (concrete expander, safety expander or chemical anchor) in at least class A2 that withstands a traction load of at least 10 kN a tensile load of at least 10 kN.

In order to be able to install the anchor loop directly onto concrete, a suitable anchor must be chosen by calculating the load for the class in question on the underlying surface; moreover, one must take into account the type of reinforcement, the distance from the edge and other mounts, the thickness of the concrete and other conditions that may affect the safety of the mount. On the basis of the calculations made and the installation conditions in question, the type and dimension of the anchor is determined, as are the detailed installation instructions that shall be consistent with the manufacturer's instructions.

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Declared Performance of the Product
Roof Hatch Rail

1 Designation and trade name of the construction product:
Product kit for the installation of roof hatch rail in accordance with the system: Roof Hatch Rail

2 The construction product's type designation/names per constituent component:

- **Basic kit, rail for roof hatch, 3 sides**
- **Mounting kit, skylight**
- **Stanchion, rail for roof hatch, complete**
- **Rail tube 2.4 m**
- **Bracket, concrete tiles**
- **Bracket, clay tiles**
- **Anchor plate, load-bearing roof underlay**
- **Batten bracket, simplified roof underlay**
- **Bracket, profiled sheet metal**
- **Bracket smooth roof**
- **Fold mount**
- **Fold mount, pre-fabricated panel roof**
- **Mounting plate, shingle**
- **Mounting plate 375 x 375 mm**
- **Riser, smooth roof**
- **Mounting plate façade ladder (Hyygge type)**

3 Intended Uses for the Construction Product

- **Rail around the ascension hatch and skylight, as an aid when ascending and descending**
- **Rail around weak roof surfaces, e.g., skylights, to prevent putting one's foot through**
- **Attachment of personal fall protection equipment**
- **Installation on intended roof types in accordance with the specification on page 2**

4 Manufacturer's Name and Contact Address:
CW Lundberg Industri AB
Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative, if such has been appointed: **Not applicable**

6 Applied system for assessment and inspection of performance: **3**
Assessment and continual inspection performed by supervisory body, and in-house inspections.

7 Technical specifications:
Supervisory body, Research Institutes of Sweden (RISE)
Certificate 12 71 01

Applied technical specification: SS 831333

8 Construction product's performance:

Essential properties	Performance	Remarks
Mechanical strength (according to 5) - Static load - Dynamic load	 Satisfies ≥ 100 kg	–
Corrosion resistance	Satisfies	

9 Performance of the product for the aforementioned product is consistent with the Performance of the product specified in Section 8. This document is issued at the responsibility of the manufacturer in accordance with Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 26 April 2022

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The Performance of the product indicated below does not constitute a portion of the declared Performance of the product. The manufacture issues additional information about the product which affects or which may affect its use.

Installation of the roof hatch rail is done in accordance with Installation Instruction M-251, on PVC, ECB/FPO-based membranes in accordance with M-085 and M-349, on bitumen-based membranes in accordance with M-350, on shingled roofs in accordance with M-132, on weldable EPDM membranes in accordance with M-351 or M-352 and on sheet metal roofs in accordance with M-222, on Hyygge sheet metal roofs in accordance with M-301, and on tiled roofs in accordance with M-223.

Optional extra, flag with snow-depth indicator.

Products can be selected in various colours of powder lacquer for design.

Other Performance

Properties	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Exterior reaction to fire (according to 7.3)	B_{roof}	EN 516:2006

Requirements on PVC, ECB/FPO-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

Requirements for bitumen-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extensions	min. 500 N/50 mm	EN 12317-1
Peel strength at extensions	min. 125 N/50 mm	EN 12316-1

Requirements for weldable EPDM membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2

Choice of attachment in concrete

Installation may only be done with a concrete mount M10 (concrete expander, safety expander or chemical anchor) in at least class A2 that withstands a traction load of at least 10 kN a tensile load of at least 10 kN.

In order to be able to install the anchor loop directly onto concrete, a suitable anchor must be chosen by calculating the load for the class in question on the underlying surface; moreover, one must take into account the type of reinforcement, the distance from the edge and other mounts, the thickness of the concrete and other conditions that may affect the safety of the mount. On the basis of the calculations made and the installation conditions in question, the type and dimension of the anchor is determined, as are the detailed installation instructions that shall be consistent with the manufacturer's instructions.

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Declared Product Performance
Batten step

1 Construction product's designation and trade name:
Product kit for fixed batten step for tiled roofs in accordance with the system: Batten step

2 Construction product type designation(s) per constituent component:

- **Batten step 2-bulge concrete. 1" C-C 300**
- **Batten step 2-bulge concrete. 2" C-C 300**
- **Batten step 2-bulge clay / 1-bulge concrete 1" C-C 240**
- **Batten step 1-bulge clay 1" C-C 220**
- **Batten step C-C 300 unbent straight**
- **Batten step combi 5 pcs**
- **Batten step 2-bulge concrete C-C 300**
- **Batten step 2-bulge clay / 1-bulge concrete C-C 240**
- **Batten step 1-bulge clay 1" C-C 220**

3 Construction products intended use
- **Access device on tiled roof**

4 Manufacturer's name and contact address
CW Lundberg Industri AB - Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative, if such has been appointed:
CW Lundberg Sp. z o.o. - ul. Strefowa 9, 58-200 Dzierżoniów, Polska

6 Assessment and inspection of performance:
Assessment and ongoing inspection is conducted by the supervisory body, as well as through in-house inspections.

7 Technical specification:
Accredited certifying body 0402 RISE, Research Institutes of Sweden
Type approval 0072/03

Applied technical specifikation: EN 12951:2004

8 Construction product performance:

Essential characteristics	Performance	Remarks
Mechanical strength (class 1 according to 6.1) - Static load	Fulfils	
Corrosion resistance	Fulfils	
External fire impact	B_{roof}	

9 Performance for the aforementioned product complies with the product performance as indicated in Section 8. This document is issued at the manufacturers own responsibility according to Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 17 March 2020

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The product's performance as stated below does not constitute a part of the declared product performance. The manufacturer provides supplemental information about the product that affects or may affect its use.

Installation of batten step for tiled roofs is done in accordance with installation instructions M-034 and M-081.

Products can be selected in various colours of powder coating for design.

Other Performance

Characteristics	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2

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Declared Performance of the Product
Slipguard

1 Designation and trade name of the construction product:
Product kit for permanently installed slipguard of a snow fence in accordance with the system: Slipguard

2 The construction product's type designation/names per constituent component:

- **Slipguard, walkway on roof slope**
- **Slipguard, roof ladder**
- **Slipguard, roof tiles/profiled sheet metal incl. screws**
- **Slipguard, smooth roof incl. screws**
- **Hook set, façade ladder**
- **Slipguard folded sheet metal roof**
- **Mounting plate 375 x 375 mm**

3 Intended Uses for the Construction Product

- **Slipguard for movable ground ladder**
- **Installation on intended roof types in accordance with the specification on page 2**

4 Manufacturer's Name and Contact Address:
CW Lundberg Industri AB
Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative, if such has been appointed: **Not applicable**

6 Assessment and inspection of performance:
Assessment and continual inspection performed by supervisory body, and in-house inspections.

7 Technical specifications:
Supervisory body, Research Institutes of Sweden (RISE)
Certificate 12 71 01

Applied technical specification: SS 831341:2014

8 Construction product's performance:

Essential properties	Performance	Remarks
Mechanical strength (static load according to 6)	Satisfies	
Dimensions and design (according to 4 and 5)	Satisfies	
Corrosion resistance	Satisfies	

9 Performance of the product for the aforementioned product is consistent with the Performance of the product specified in Section 8. This document is issued at the responsibility of the manufacturer in accordance with Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 26 April 2022

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The Performance of the product indicated below does not constitute a portion of the declared Performance of the product. The manufacture issues additional information about the product which affects or which may affect its use.

Installation of the slipguard is done in accordance with Installation Instruction M-001, on PVC, ECB/FPO-based membranes in accordance with installation M-349, on bitumen-based membranes in accordance with M-350, and on weldable EPDM membranes in accordance with M-351 or M-352. Installation of the slipguard on sheet metal roofs and tiled roofs in accordance with M-001.

Products can be selected in various colours of powder lacquer for design.

Other Performance

Properties	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Exterior reaction to fire (according to 7.3)	B_{roof}	EN 516:2006

Requirements on PVC, ECB/FPO-based membranes
The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

Requirements for bitumen-based membranes
The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extensions	min. 500 N/50 mm	EN 12317-1
Peel strength at extensions	min. 125 N/50 mm	EN 12316-1

Requirements for weldable EPDM membranes
The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2

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Declared Product Performance
Snow stopper, rake

1 Construction product's designation and trade name:
Product kit, snow stopper according to the system: Snow stopper, rake

2 Construction product type designation(s) per constituent component:
- **Avalanche guard rake 1.290 m**
- **Fold mount, snow stopper rake**
- **Extension kit, roof ladder**

3 Construction products intended use
- **Prevent snow from sliding on pitched roof surfaces**
- **Prevent ice from sliding on pitched roof surfaces**
- **Installation of intended roof types according to specification page 2**

4 Manufacturer's name and contact address
CW Lundberg Industri AB - Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative if such has been appointed:
CW Lundberg Sp. z o.o. - ul. Strefowa 9, 58-200 Dzierżoniów, Polska

6 Assessment and inspection of performance: **In-house inspection**

7 Technical specification:
Applied technical specification: Austrian Standard (ÖNORM) B 3418:2012 **

8 Construction product performance:

Essential characteristics	Performance	Remarks
Load capacity (according to A.2) Load capacity (according to A.4)	1.1 kN 2.4 kN	-

9 Performance for the aforementioned product complies with the product performance as indicated in Section 8. This document is issued at the manufacturer's own responsibility according to Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 17 March 2020

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The product's performance as stated below does not constitute a part of the declared product performance. The manufacturer provides supplemental information about the product that affects or may affect its use.

Installation of snow stopper rake on folded sheet metal roofs is done in accordance with Installation Instructions M-228.

Addition of position pennant.

Products can be selected in various colours of powder coating for design.

Other Performance

Characteristics	*Performance*	*Technical specifications*
Recommended load capacity at c-c distance between folds of 0.6 m.	3 kN/m	-
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
External fire impact	B_{roof}	EN 516:2006

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Declared Performance of the Product
Snow stopper tube

1 Designation and trade name of the construction product:
Product kit for the installation of a snow stopper in accordance with the system: Snow stopper tube

2 The construction product's type designation/names per constituent component:

- **Rail tube 1.0 m / 2.4 m**
- **Angle tube 0-90°/ 90°**
- **Bracket snow stopper**
- **Mounting plate 375 x 375 mm**
- **Mounting plate, shingle**
- **Riser, smooth roof**

3 Intended Uses for the Construction Product

- **Prevents snow from sliding on sloped roofs**
- **Installation on intended roof types in accordance with the specification on page 2**

4 Manufacturer's Name and Contact Address:
CW Lundberg Industri AB
Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative, if such has been appointed: **Not applicable**

6 Assessment and inspection of performance: **In-house inspection**

7 Technical specifications:
Applied technical specification: Austrian Standard (ÖNORM) B 3418:2012 **

8 Construction product's performance:

Essential properties	Performance	Remarks
Load capacity (according to A.2) Load capacity (according to A.3)	3.1 kN 3.6 kN	

9 Performance of the product for the aforementioned product is consistent with the Performance of the product specified in Section 8. This document is issued at the responsibility of the manufacturer in accordance with Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 26 April 2022

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The Performance of the product indicated below does not constitute a portion of the declared Performance of the product. The manufacture issues additional information about the product which affects or which may affect its use.

Installation of the snow stopper is done in accordance with Installation Instruction M-224, on PVC, ECB/FPO-based membranes in accordance with installation M-349, on bitumen-based membranes in accordance with M-350 on shingle roofs in accordance with M-132, and on weldable EPDM membranes in accordance with M-351 or M-352. Installation of snow stopper tube on profiled sheet metal rodfs in accordance with M-224.

Optional extra, flag with snow-depth indicator.

Products can be selected in various colours of powder lacquer for design.

Other Performance

Properties	*Performance*	*Technical specifications*
Recommended load capacity at a c-c distance of 1.2 m	3 kN/m	-
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Exterior reaction to fire (according to 7.3)	B_{roof}	EN 516:2006

Requirements on PVC, ECB/FPO-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

Requirements for bitumen-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extensions	min. 500 N/50 mm	EN 12317-1
Peel strength at extensions	min. 125 N/50 mm	EN 12316-1

Requirements for weldable EPDM membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2

Choice of attachment in concrete

Installation may only be done with a concrete mount M10 (concrete expander, safety expander or chemical anchor) in at least class A2 that withstands a traction load of at least 10 kN a tensile load of at least 10 kN.

In order to be able to install the anchor loop directly onto concrete, a suitable anchor must be chosen by calculating the load for the class in question on the underlying surface; moreover, one must take into account the type of reinforcement, the distance from the edge and other mounts, the thickness of the concrete and other conditions that may affect the safety of the mount. On the basis of the calculations made and the installation conditions in question, the type and dimension of the anchor is determined, as are the detailed installation instructions that shall be consistent with the manufacturer's instructions.

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Declared Product Performance
Snow stopper – CWL Grapple

1 Construction product's designation and trade name:
Product kit, snow stopper CWL grapple according to the system: Snow stopper - CWL Grapple

2 Construction product type designation(s) per constituent component:

- **CWL Grapple**

3 Construction products intended use

- **Prevent snow and ice from sliding on pitched roof surfaces**

4 Manufacturer's name and contact address
CW Lundberg Industri AB - Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative if such has been appointed:
CW Lundberg Sp. z o.o. - ul. Strefowa 9, 58-200 Dzierżoniów, Polska

6 Assessment and inspection of performance: **In-house inspection**

7 Technical specification:
Applied technical specifikation: Austrian Standard (ÖNORM) B 3418:2012 **

8 Construction product performance:

Essential characteristics	Performance	Remarks
Load capacity (according to A.1)	1 kN	

9 Performance for the aforementioned product complies with the product performance as indicated in Section 8. This document is issued at the manufacturer's own responsibility according to Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 17 March 2020

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The product information stated below does not constitute a part of the declared product performance. The manufacturer provides additional information about the product that affects or may affect its use.

Installation of snow stopper CWL grapple on tiled roofs is done in accordance with Installation Instructions M-260.

Products can be selected in various colours of powder coating for design.

Other Performance

Characteristics	*Performance*	*Technical specifications*
Corrosion resistance (At least equivalent to hot galvanisation)	Fulfils	EN 516:2006
External fire impact	B_{roof}	EN 516:2006
Corrosion resistance (corrosivity class C4)	20 years	EN ISO 12944-2

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Declaration of Performance - Solar Panel Brackets

1. Product's Unique Identification Code

Solar panel brackets installed according to M-132, M-270, M-271, M-277, M-349, M-350, M-351 and M-352.

Item no.	*Designation*
100185	Mounting plate 375 x 375 mm
100277	Folding/pre-fabricated panel roof bracket
410003	Anchor plate, load-bearing roof underlay
410006	Solar panel bracket concrete tiles
410007	Solar panel bracket clay tiles
410009	Solar panel bracket smooth roof/profiled sheet metal
410016	Solar panel bracket M10
410157	Batten bracket, simplified roof underlay
410113	Mounting plate, shingle

2. Intended Use for the Construction Product

- Attachment of solar panels and similar devices.

3. Manufacturer's Name and Contact Address

CW Lundberg Industri AB
Landsvägen 52
Box 138
SE- 792 22 Mora
Sweden

Telephone number: +46 (0)250-55 35 00
E-mail: info@cwlundberg.com

4. Specified Performance

Item no.	*Maximum load capacity perpendicular from the roof.*	*Maximum load capacity in the direction of the roof.*
100277	3 kN**	2.4 kN**
410006	2.5 kN	6 kN
410007	2.5 kN	6 kN
410009	2.5 kN*	3.7 kN*
410016	2.5 kN*	3.7 kN*
410113	5 kN	6 kN
100185/ 410113 +410009	2.5 kN	3.7 kN
100185/ 410113 +410016	2.5 kN	3.7 kN
100185	0.7-5 kN***	7 kN

Essential properties	*Performance*	*Technical specifications*
Reaction to fire	Class A1, B_{roof}	EN 516:2006
Durability	At least equivalent to hot galvanisation	EN 516:2006
Durability	Corrosivity class C4 40 years	EN ISO 12944-2

* Installed on steel sheet 0.4 mm or aluminium sheet 0.8 mm ** Installed on steel sheet 0.6 mm or aluminium sheet 0.7 mm
*** Load capacity perpendicular from the roof can be raised to a maximum of 5 kN only if the designer demonstrates that the application of such a load is approved.

5. Other

Performance of the product specified in Sections 1 and 2 is consistent with the Performance of the product specified in Section 4. This Declaration of Performance was issued by the manufacture at its own responsibility as specified in Section 3.

‘

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 7 June 2022

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The Performance of the product indicated below does not constitute a portion of the declared Performance of the product. The manufacture issues additional information about the product which affects or which may affect its use.

Other Performance

Properties	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Exterior reaction to fire (according to 7.3)	B_{roof}	EN 516:2006

Requirements on PVC, ECB/FPO-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

Requirements for bitumen-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength in longitudinal and transverse directions	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extension and longitudinal and transverse directions	min. 500 N/50 mm	EN 12317-1
Peel strength	min. 125 N/50 mm	EN 12316-1

Requirements for weldable EPDM membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2

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Declared Performance of the Product
Wire CWL Safety System PRO

1 Designation and trade name of the construction product:
Product kit for permanently installed wire system in accordance with the system: Wire CWL Safety System PRO

2 The construction product's type designation/names per constituent component

- **Mounting plate 375 x 375 mm**
- **Riser, smooth roof**
- **Wire control, free-standing wire**
- **Marking plate, free-standing wire**
- **End bracket, free-standing wire**
- **Wire control, folded metal roof**
- **Wire terminal M installed**
- **Wire terminal F installed**
- **CWL Wire runner PRO**
- **Threaded pole wire end M10 A2**
- **Mounting, wire double folded**
- **Mounting plate, wire, profiled sheet metal roof**
- **Bracket, free-standing wire corner**
- **Mounting plate, free-standing wire corner**
- **Adapter plate, free-standing wire corner**
- **Wire corner installed on wire**
- **Steel cable RFR 8 mm A2**

3 Intended Uses for the Construction Product

- **Anchoring in wire system of personal fall protection equipment for max. two (2) persons at work, and additionally one (1) person upon rescue**
- **Installation on intended roof types in accordance with the specification on page 2**

4 Manufacturer's Name and Contact Address:
CW Lundberg Industri AB
Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative, if such has been appointed: **Not applicable**

6 Assessment and inspection of performance: **3**
Assessment and continual inspection performed by supervisory body, and in-house inspections.

7 Technical specifications:
Supervisory body, Research Institutes of Sweden (RISE)
Certificate 12 71 01

Applied technical specification: EN 516:2006 and FprEN 17235:2019

8 Construction product's performance:

Essential properties	Performance	Remarks
Mechanical strength (according to 6) - Static working load - Dynamic load	 1.5 kN 2X ≥ 100 kg	 EN 516:2006
- Static rescue load	900 kg	FprEN 17235:2019

9 Performance of the product for the aforementioned product is consistent with the Performance of the product specified in Section 8. This document is issued at the responsibility of the manufacturer in accordance with Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 27 April 2022

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The Performance of the product indicated below does not constitute a portion of the declared Performance of the product. The manufacture issues additional information about the product which affects or which may affect its use.

The installation of the free-standing wire system is done in accordance with installation instruction M-283. Installation on PVC, ECB/FPO-based membranes in accordance with M-284 and M-349, on bitumen-based membranes in accordance with M-284 and M-350, on weldable EPDM membranes in accordance with M-284 and M-351 or M-352, on profiled sheet metal roofs in accordance with M-285, and on double-folded sheet metal roofs in accordance with M-286. Wire corners are installed on a mount in accordance with Installation Instruction M-291.

Optional extra, flag with snow-depth indicator.

Products can be selected in various colours of powder lacquer for design.

Other Performance

Properties	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Exterior reaction to fire (according to 7.3)	B_{roof}	EN 516:2006

Requirements for sheet metal roofs

Roof type	*Sheet metal type*	*Thickness*
Profiled sheet meta	Steel	0.5 mm
Double fold	Steel	0.6 mm
Double fold	Aluminium	0.7 mm

Requirements on PVC, ECB/FPO-based membranes
The waterproofing membrane must be at least 1.2 mm thick and satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

Requirements for bitumen-based membranes
The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extensions	min. 500 N/50 mm	EN 12317-1
Peel strength at extensions	min. 125 N/50 mm	EN 12316-1

Requirements for weldable EPDM membranes
The waterproofing membrane must be at least 2.1 mm thick of which the EPDM must be 1.1 mm and fulfil the requirements in accordance with EN 13956, and the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2

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Declared Performance of the Product
Guardrail 1.1 m

1 Designation and trade name of the construction product:
Product kit for permanently installed guardrail in accordance with the system: Guardrail 1.1 m

2 The construction product's type designation/names per constituent component:

- **Stanchion guardrail smooth roof 1.1 m**
- **Rail tube 2.4 m**
- **Angle tube 90°**
- **End brace, guardrail incl. screw**
- **Mounting plate 375 x 375 mm**
- **Riser, smooth roof**

3 Intended Uses for the Construction Product

- **Limiting guardrail/lateral protection system**
- **Collective fall protection**
- **Provides support for people leaning against the rail and serves as a handrail when moving.**
- **Installation on intended roof types in accordance with the specification on page 2**

4 Manufacturer's Name and Contact Address:
CW Lundberg Industri AB
Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative, if such has been appointed: **Not applicable**

6 Assessment and inspection of performance: **In-house inspection**

7 Technical specifications:
Applied technical specification: EN 13374:2013

8 Construction product's performance:

Essential properties	Performance	Remarks
Classification (Class A in accordance with 4.1)	Satisfies	-

9 Performance of the product for the aforementioned product is consistent with the Performance of the product specified in Section 8. This document is issued at the responsibility of the manufacturer in accordance with Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 27 April 2022

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The product information stated below does not constitute a portion of the declared Performance of the product.
The manufacture issues additional information about the product which affects or which may affect its use.

Installation of the slipguard is done in accordance with Installation Instruction M-236, on PVC, ECB/FPO-based membranes in accordance with installation M-349, on bitumen-based membranes in accordance with M-350, and on weldable EPDM membranes in accordance with M-351 or M-352.

Optional extra, flag with snow-depth indicator.

Products can be selected in various colours of powder lacquer for design.

Other Performance

Properties	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Exterior reaction to fire (according to 7.3)	B_{roof}	EN 516:2006

Requirements on PVC, ECB/FPO-based membranes
The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

Requirements for bitumen-based membranes
The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extensions	min. 500 N/50 mm	EN 12317-1
Peel strength at extensions	min. 125 N/50 mm	EN 12316-1

Requirements for weldable EPDM membranes
The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

Properties	*Requirement*	*Technical specifications*
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2

Choice of attachment in concrete
Installation may only be done with a concrete mount M10 (concrete expander, safety expander or chemical anchor) in at least class A2 that withstands a traction load of at least 10 kN a tensile load of at least 10 kN.
In order to be able to install the anchor loop directly onto concrete, a suitable anchor must be chosen by calculating the load for the class in question on the underlying surface; moreover, one must take into account the type of reinforcement, the distance from the edge and other mounts, the thickness of the concrete and other conditions that may affect the safety of the mount. On the basis of the calculations made and the installation conditions in question, the type and dimension of the anchor is determined, as are the detailed installation instructions that shall be consistent with the manufacturer's instructions.

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National Declaration of Performance
Façade ladder

1 Construction product's designation and trade name:

Product kit for Installation of fixed façade ladder according to the system: Façade ladder

2 Construction product type designation(s) per constituent component:

- **Roof/façade ladder 1.5 m / 2.4 m**
- **Extension, roof/façade ladder**
- **Bracket kit A-220 / A-400 / A-500 / A-600 / A-800 / A-1000**
- **Mounting plate, façade ladder**
- **Handrail for façade ladder 1280 mm**
- **Foldable landing, façade ladder, compl. 390 x 410 mm**
- **Steel plate façade ladder excl. screws 300 x 440 mm**
- **Bracing kit for handrail adjustable**
- **Transition safety rail façade to roof**
- **Safety rail 300 1.2 m**
- **Bracket, safety rail**
- **Extension safety rail**
- **Runner, safety rail**
- **End plug kit**

3 Construction product's intended use:

- **Access route to the roof via the façade**
- **Attachment of personal fall protection equipment**
- **Anchoring of personal fall equipment in the rail system**
- **Landing, foldable**
- **Standing platform**
- **Installation of intended façade types according to specification page 2**

4 Manufacturer's name and contact address
CW Lundberg Industri AB - Landsvägen 52, Box 138, 792 22 Mora, Sweden

5 Authorised representative if such has been appointed:
CW Lundberg Sp. z o.o. - ul. Strefowa 9, 58-200 Dzierżoniów, Polska

6 Assessment and inspection of performance:
Assessment and ongoing inspection are conducted by the supervisory body, as well as through in-house inspections.

7 Technical specification:
Accredited certifying body 0402 RISE, Research Institutes of Sweden
Certificate 12 71 01
Applied technical specifikation: SS 831340

8 Construction product performance:

Essential characteristics	Performance	Remarks
Mechanical strength - Static load (according to 6)	Fulfils	–
Dimensions (according to 4)	Fulfils	
Corrosion resistance (according to 7)	Fulfils	

9 Performance for the aforementioned product complies with the product performance as indicated in Section 8. This document is issued at the manufacturer's own responsibility according to Section 4.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director
Mora, 17 March 2020

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The product information stated below does not constitute a part of the declared product performance. The manufacturer provides additional information about the product that affects or may affect its use.

Installation of façade ladder on wooden and sheet metal façade performed in accordance with installation instructions M-130. For other façade materials, use screw joints that are suitable for the façade's conditions in accordance with M-302.

Products can be selected in various colours of powder coating for design.

Other Performance

Characteristics	*Performance*	*Technical specifications*
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2

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DECLARATION OF PERFORMANCE

DoP no. CWL0206-2

Walkway

1 Unique identification code of the product type: **CWLWW02**

2 Intended use:
Walkways intended for use as roof access for inclined roofs for buildings.
Anchoring of personal fall protection equipment for walkways. (EN 516 – 2 – B)
Anchoring of personal fall protection equipment for a maximum of two people for the CWL wire system for walkways.

3 Manufacturer:
CW Lundberg Industri AB - Landsvägen 52 - Box 138 - SE-792 22 Mora, Sweden
Tel. +46 250 55 35 00 - info@cwlundberg.com

4 Authorised representative: **Not applicable**

5 System of AVCP: **System 3.**

6a Harmonised standard: **EN 516:2006**

6b Notified body: **RISE, Research Institutes of Sweden, NB 0402.**

7 Declared Performance:

Essential characteristics	**Performance:**
Mechanical strength:	Deemed to satisfy[1]
Reaction to fire: Exterior fire performance:	A1 B_{roof}
Durability of mechanical resistance:	Deemed to satisfy[1]

Note 1: Applies to walkways installed on the intended type of roof in accordance with, and on the conditions set out in, the applicable installation instructions.

Performance of the product specified in Section 1 is consistent with the performance declared in Section 7.

This Declaration of Performance has been issued in accordance with Directive (EU) no. 405/2011 under the responsibility of the manufacturer indicated above.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 14 February 2022

CE

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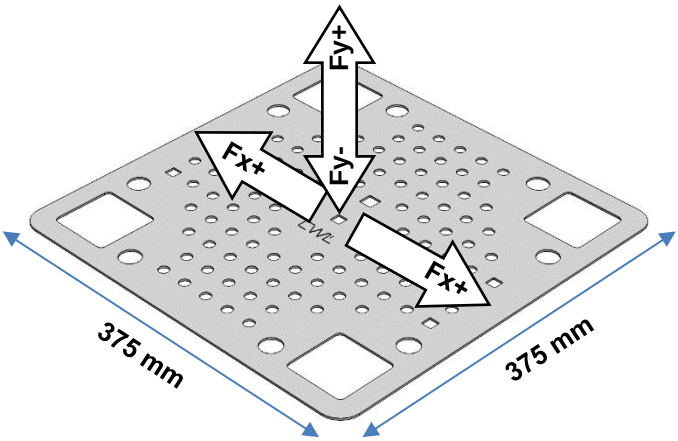
Product Data Sheet Solar Panel Bracket:
Mounting plate 375 x 375 mm

Technical Specifications

- **Dimensions:** **375 x 375 x 2 mm**
- **Weight:** **1.80 kg**
- **Corrosivity class:** **C4 40 years**



Intended use

Mount for solar panel or snow and wind-exposed mount for e.g., ventilation hoods and signs, on bitumen membrane mat/felt roofs.

Accessories

- **Carriage bolt M10x(32/50) A2**
- **CWL sealing washer**
- **Washer 10.5 x 20 A2**
- **Nut M10 A2**
- **Optionally: 4 pcs mounting screws, must be of the same type as used when installing the membrane.**

Installation instructions for the respective membrane

- **PVC, ECB/FPO-based membranes:** **M-349**
- **Bitumen-based membrane mat:** **M-350**
- **EPDM membrane with bitumen-based weld:** **M-351**
- **EPDM membrane (weldable):** **M-352**

Manufacturer's Name and Contact Address

CW Lundberg Industri AB, Landsvägen 52, Box 138, 792 22 Mora, Sweden

Performance

Direction of load / Roof structure	Design values for serviceable load [kN] Parallel up (Fx+)	Parallel down (Fx-)	Normal up (Fy+)	Normal down (Fy-)	Mechanical bracket type
High profile steel sheet metal min 0.7 mm with insulation	**7.0**	**7.0**	**3.5**	**4.0**	**Sheet metal screw with sleeve**
Concrete min C25/30 with or without insulation	**7.0**	**7.0**	**4.0**	**4.0**	**Concrete screw + optional sleeve**
Lightweight concrete min 550 kg/m³ with or without insulation	**7.0**	**7.0**	**3.5**	**4.0**	**Lightweight concrete screw + optional sleeve**
Tongue-in-groove board G4-3 17 mm	**7.0**	**7.0**	**3.0**	**3.0**	**Wood screw with metal washer**
Tongue-in-groove board G4-3 22 mm	**7.0**	**7.0**	**3.5**	**4.0**	
Plywood K20/70 18 mm	**7.0**	**7.0**	**3.0**	**3.0**	
Screwed membrane in the inner central zone (low wind load)	**4.5**	**4.5**	**0.2**	**3.0 - 4.0**	**Welded (without screw)**
Compact roof (fully welded membrane)	**7.0**	**7.0**	**3.0**	**4.0**	

Design values for serviceable load refer only to mounting plate for solar panels or snow and wind-exposed mounting of e.g. ventilation hoods and signs. Load is borne centrally on stainless M10 carriage bolt or on stainless M12 carriage bolt with offset from centre. Load values should not be confused with roof safety performance requirements.

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DECLARATION OF PERFORMANCE

DoP no. CWL0211-1

Roof ladder with steps

1 Unique identification code of the product type: **CWLRL03A**

2 Intended use:
Permanently fixed roof ladder with steps. The roof ladder may be used as an anchor point for personal fall protection equipment. C2-TA

3 Manufacturer:
CW Lundberg Industri AB - Landsvägen 52 - Box 138 - SE-792 22 Mora, Sweden
Tel. +46 250 55 35 00 - info@cwlundberg.com

4 Authorised representative: **Not applicable**

5 System of AVCP: **System 3.**

6a Harmonised standard: **EN 12951:2004**

6b Notified body: **RISE, Research Institutes of Sweden, NB 0402.**

7 Declared Performance:

Essential characteristics	**Levels and/or classes**
Mechanical resistance:	Deemed to satisfy[1]
External fire performance and reaction to fire:	A1
Durability of mechanical resistance:	Deemed to satisfy[1]

Note 1: Applies to roof ladders installed on the intended type of roof in accordance with, and on the conditions set out in, the applicable installation instructions.

Performance of the product specified in Section 1 is consistent with the performance declared in Section 7.

This Declaration of Performance has been issued in accordance with Directive (EU) no. 405/2011 under the responsibility of the manufacturer indicated above.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 16 March 2022

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www.cwlundberg.com

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DECLARATION OF PERFORMANCE

DoP no. CWL0212-1

Roof ladder with rungs

1 Unique identification code of the product type: **CWLRL03B**

2 Intended use:
Permanently installed roof ladder with rungs. The roof ladder may be used as an anchor point for personal fall protection equipment. C2-TB

3 Manufacturer:
CW Lundberg Industri AB - Landsvägen 52 - Box 138 - SE-792 22 Mora, Sweden
Tel. +46 250 55 35 00 - info@cwlundberg.com

4 Authorised representative: **Not applicable**

5 System of AVCP: **System 3.**

6a Harmonised standard: **EN 12951:2004**

6b Notified body: **RISE, Research Institutes of Sweden, NB 0402.**

7 Declared Performance:

Essential characteristics	**Levels and/or classes**
Mechanical resistance:	Deemed to satisfy[1]
External fire performance and reaction to fire:	A1
Durability of mechanical resistance:	Deemed to satisfy[1]

Note 1: Applies to roof ladders installed on the intended type of roof in accordance with, and on the conditions set out in, the applicable installation instructions.

Performance of the product specified in Section 1 is consistent with the performance declared in Section 7.

This Declaration of Performance has been issued in accordance with Directive (EU) no. 405/2011 under the responsibility of the manufacturer indicated above.

Signed on behalf of the manufacturer by:

Thomas Lundberg
Managing Director

Mora, 16 March 2022

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Building Product and Environmental Declaration

1. Basic Data

Product names: Walkway, Roof and façade ladder, Snow fence, Snow stopper, Ridge and roof foot rail, Anchor loop, Roof step, Slipguard, Guardrail, Brackets, Chimney strap

Prepared: 16 June 2017

2. Supplier information

Company name: CW Lundberg Industri AB
Organisation no.: 556099-7461
Address: Box 138 (Landsvägen 52)
792 22 Mora

Telephone no.: 46(0)250 55 35 00
Web site: www.cwlundberg.com
E-mail: info@cwlundberg.com

Management System
Environment: Certified according to ISO 14001
Quality: Certified according to ISO 9001

3. Product Information

Country of manufacture: Sweden
Areas of use: Roof safety

Registrations: BASTA
Building product assessment
SundaHus

Declaration of Performance and Installation Instructions included.

4. Constituent Materials

Constituent materials/substances	*>Weight % of the entire product*[*1]
Steel sheet metal zinc-magnesium	
-Steel core: EN10346	83-98%[*2]
-Coating: SEW022	1-2%
Powder enamel[*3]	1-2%
Sealing TPE (TPS-SEBS)	0-2%
Fastener, hot galvanised	0-14%[*4]
Fastener, stainless steel, A2	0-2%[*4]

[*1] Module-based sales items: % share depending on material thickness and specific product.

[*2] The amount of recycled material in the crude steel is approximately 20-25%

[*3] The substance is not classified as hazardous according to EG 1272/2008.

[*4] Maximal total proportion of fasteners is 14%.

5. Subcontractors

Contracts are selected that actively work with quality and environmental improvements. The contractors are periodically evaluated.

6. Production

The products are made principally of steel sheet metal that is punched, moulded and powder enamelled. The greatest environmental impact is from the consumption of raw materials.

Energy
100% green energy. Amount of electricity depends on the product.
Production premises are heated by waste heat and district heating.

Chemical consumption
The products are washed in connection with powder enamelling in a closed system. Alkaline detergent is used.

Emissions into the air, water or ground
No emissions.

Residual products
Residual steel is 100% recycled.
Remaining powder enamel, wash water and other residual products are sorted/processed according to the applicable legislation.

7. Distribution of Goods

- Products are delivered in cartons, on EU pallets (with or without a collar).
- Return systems for freight carriers of goods are used.
- Transports via lorry to warehouses and customers (see Section 5 Subcontractors).

8. Building Stage

- The product has no particular requirements with regard to storage or surrounding building products.

9. Usage Stage

- The product has no requirements with regard to feedstock for operation and maintenance.
- The product has no requirements with regard to energy supply for operation.
- 40-year guarantee in corrosivity class C4
- The enamel prevents emissions of zinc to the land, water and air.

10. Demolition

- The products are prepared for dismantling
- The products require no particular protective measures for health and environment with regard to demolition and dismantling.

11. Waste Management

- Recycling is possible for all or parts of the product.
- Material recycling is possible for the entire good.
- Refuse code, EWC: 170405 and 170203 (Seal)
- The product is not classified as hazardous waste.

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Building Product and Environmental Declaration

1 Basic Data

Product name: Façade ladder, CWL Grapple

Prepared: 30 April 2013

2 Supplier Information

Company name: CW Lundberg Industri AB
Corp ID no.: 556099-7461
Address: Box 138
SE-792 22 Mora

Telephone no: +46 250 55 35 00

Web site: www.cwlundberg.com
E-mail: info@cwlundberg.com

Management System
Environment: Certified according to ISO 14001
Quality: Certified according to ISO 9001

3 Product Information

Country for final manufacture: Sweden
Field of use: Roof safety
Registrations: BASTA

4. Contents

Constituent material	*percent by weight*	*CAS no*
Steel	96.5%	-
Zinc	2.3%	7440-66-6
Powder coating	1.1%	-
Welding rod	0.1%	-

5. Production Phase

Raw materials/input products	*Proportion*
Steel	96.5%
Zinc	2.3 %
Powder coating	1.1%
Welding rod	0.1%

Recycled material

Steel	0-100%	Proportion unknown

Energy
Depending on the size of the product.

Transportation
Transport by lorry to warehouse and customer.

Air, water or land emissions
No emissions into the air, water or onto land.

Residual Products
Steel scrap that is 100% recycled.

6. Distribution of Finished Good

- Return system for product carrier is applied.
- System for reusable packaging is applied.
- Packaging is recovered.
- Associated with the FTI material recovery system.

7. Building Phase

- The product does not pose any particular warehousing requirement.
- The product poses no particular requirement on surrounding construction products.

8. Usage Phase

- The product places no requirements on input products for operation and maintenance.
- The product places no requirements on energy supply for operation.
- The reference useful life between 25 and 50 years.

9. Demolition

- The product is prepared for disassembly (taking apart).
- The product requires no particular measures for the protection of health and the environment upon demolition and disassembly.

10. Waste Management

- The product can be reused either in whole or in part.
- It is also possible to recycle the entire product's materials.
- Waste, EWC: 170405
- The product is not classified as hazardous waste.

11. Indoor Environment

- The product does not give off any emissions.

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Building Product and Environmental Declaration

1. Basic Data

Product names: Ice-stop

Prepared: 18 June 2017

2. Supplier information

Company name: CW Lundberg Industri AB
Organisation no.: 556099-7461
Address: Box 138 (Landsvägen 52)
792 22 Mora

Telephone number: 0250 55 35 00
Web site: www.cwlundberg.com
E-mail: info@cwlundberg.com

Management System
Environment: Certified according to ISO 14001
Quality: Certified according to ISO 9001

3. Product Information

Country of manufacture: Sweden
Areas of use: Roof safety

Registrations: BASTA
Building product assessment
SundaHus

Installation instructions included.

4. Constituent Materials

Constituent materials/substances (standard)	*Weight % of entire product*[*1]	
Plastic material (polypropylene)	74-96%	
Colour pigment (polyethylene base)	1-2%	
Fastener (stainless steel) A2	0-23%	
UV protection (polyethylene base)	1-2%*[2]	
*[2] UV protection containing	CAS no.	
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9	7-10%

*[1] Various concentrations depending on variety of product. One in which a fastener is included (gutter valley) and one without fastener (for rail tubes and profiled sheet).

5. Subcontractors

We select contractors that actively work with quality and environmental improvements. The contractors are periodically evaluated.

6. Production

The products are manufactured by means of injection moulding.

Energy
100% green energy.
Production premises are heated by waste heat and district heating.

Chemical consumption
No other chemicals are used in manufacturing.

Emissions into the air, water or ground
No emissions occur.

Residual products: Plastic during transitions and colour changes.

7. Distribution of Goods

- Products are delivered in cartons, on EU pallets (with or without a collar).
- Return systems for freight carriers of goods are used.
- Transports via lorry to warehouses and customers (see Section 5 Subcontractors).
- CWL Lundberg is associated with FTI.

8. Building Stage

- The product has no particular requirements with regard to storage or surrounding building products.

9. Usage Stage

- The product has no requirements with regard to feedstock for operation and maintenance.
- The product has no requirements with regard to energy supply for operation.
- Guarantee in accordance with ABM07.

10. Demolition

- The products are prepared for dismantling
- The products require no particular protective measures for health and environment with regard to demolition and dismantling.

11. Waste Management

- Recycling is possible for all or parts of the product.
- Refuse code, EWC: 170203 and 170405
- The product is not classified as hazardous waste.

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Building Product and Environmental Declaration

1. Basic Data

Product names: CWL Safety System (dragline)

Prepared: 26 July 2019

2. Supplier information

Company name: CW Lundberg Industri AB
Organisation no.: 556099-7461
Address: Box 138 (Landsvägen 52)
792 22 Mora

Telephone no.: +46 (0)250 55 35 00
Web site: www.cwlundberg.com
E-mail: info@cwlundberg.com

Management System

Environment: Certified according to ISO 14001
Quality: Certified according to ISO 9001

3. Product Information

Country of manufacture: Sweden
Areas of use: Roof safety

Declaration of Performance and Installation Instructions included.

4. Constituent Materials

Constituent materials/substances	*Weight % of the entire product*[*1]
Stainless steel dragline (AISI316)	20-59%
Brass comp. (CW511L, lead-free)	3-8%
Wire control (1.43407)	1-3%
Wire terminals (1.4401/1.4301)	1-2%
Screw, washer, nut: AS (1.4301/1.4307)	1%
Steel plate Zinc magnesium[*2]	
- Steel core: EN10346	0-70%[*3]
- Coating: SEW022	0-1%
Powder lacquer[*4]	0-1%
Seal TPE (TPS-SEBS)	0-1%
Stainless steel plate (1.4401/1.4301)[*5]	0-20%

[*1] Based on a sample installation of 30 metres
[*2] Included in standalone wire system
[*3] Quantity of recycled material in the steel is approx. 20-25%
[*4] Substance is not classified as hazardous according to EC 1272/2008
[*5] Included in the wire system for walkway and ridge rail.

5. Subcontractors

We select contractors that actively work with quality and environmental improvements. The contractors are periodically evaluated.

6. Production

The products are mainly manufactured through the assembly of constituent components along with other CWL products that are punched, moulded and powder enamelled. Our greatest environmental impact is the consumption of raw materials.

Energy

100% green energy in quantities based on the product.
Production premises are heated by waste heat and district heating.

Chemical consumption

No chemicals are used in manufacturing/assembly.

Emissions into the air, water or ground

No emissions occur.

Residual products

There are no residual products.

7. Distribution of Goods

- Products are delivered in cartons, on EU pallets (with or without a collar).
- Return systems for freight carriers of goods are used.
- Transports via lorry to warehouses and customers (see Section 5 Subcontractors).

8. Building Stage

- The product has no particular requirements with regard to storage or surrounding building products.

9. Usage Stage

- The product has no requirements with regard to feedstock for operation and maintenance.
- The product has no requirements with regard to energy supply for operation.
- 40-year guarantee in corrosivity class C4

10. Demolition

- The products are prepared for dismantling
- The products require no particular protective measures for health and environment with regard to demolition and dismantling.

11. Waste Management

- Recycling is possible for all or parts of the product.
- Material recycling is possible for the entire good.
- Refuse code, EWC: 170407 (Mixed metals) and 170401 (Copper, bronze, brass)
- The product is not classified as hazardous waste.

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info.pl@cwlundberg.com
www.cwlundberg.com

Building Product and Environmental Declaration

1. Basic Data

Product names: CWL Safety System (rail)

Prepared: 18 June 2017

2. Supplier information

Company name: CW Lundberg Industri AB
Organisation no.: 556099-7461
Address: Box 138 (Landsvägen 52)
792 22 Mora

Telephone number: 0250 55 35 00
Web site: www.cwlundberg.com
E-mail: info@cwlundberg.com

Management System

Environment: Certified according to ISO 14001
Quality: Certified according to ISO 9001

3. Product Information

Country of manufacture: Sweden
Areas of use: Roof safety

Registrations: BASTA
Building product assessment
SundaHus

Declaration of Performance and Installation Instructions included.

4. Constituent Materials

Constituent materials/substances (standard)	*Weight % of the entire product**
Rail + extension stainless steel (SS 1.4301)	88%
Runner, aluminium (SS 4212)	6%
Fall arrestor stainless steel (SS 1.4301)	5%
Fastener (A2)	1%

*Based on a sample installation of 6 metres

5. Subcontractors

We select contractors that actively work with quality and environmental improvements. The contractors are periodically evaluated.

6. Production

The products are manufactured mainly through punching and moulding, as well as through the assembly of constituent components consisting of other CWL products, which are punched, moulded and powder-enamelled. Our greatest environmental impact is the consumption of raw materials.

Energy

- 100% green energy within CW Lundberg.
- Production premises are heated by waste heat and district heating.

Chemical consumption

- No chemicals are used in manufacturing/assembly.

Emissions into the air, water or ground

- No emissions occur.

Residual products

- Scrap steel is 100% recycled.

7. Distribution of Goods

- Products are delivered in cartons, on EU pallets (with or without a collar).
- Return systems for freight carriers of goods are used.
- Transports via lorry to warehouses and customers (see Section 5 Subcontractors).
- CWL Lundberg is associated with FTI.

8. Building Stage

- The product has no particular requirements with regard to storage or surrounding building products.

9. Usage Stage

- The product has no requirements with regard to feedstock for operation and maintenance.
- The product has no requirements with regard to energy supply for operation.
- 40-year guarantee in corrosivity class C4

10. Demolition

- The products are prepared for dismantling
- The products require no particular protective measures for health and environment with regard to demolition and dismantling.

11. Waste Management

- Recycling is possible for all or parts of the product.
- Material recycling is possible for the entire good.
- Refuse code, EWC: 170407
- The product is not classified as hazardous waste.

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Guarantee Terms in Various Environments

The guarantee entails CW Lundberg replacing faulty products with new, flawless products without delay. If a product has damaged the outer roof or any other part of the roof, CW Lundberg AB will pay compensation equivalent to the cost of buying such material new. The new product is 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 effect repairs or in some other way to rectify the fault in the original product.

The guarantee covers all products made of Zinc magnesium and stainless steel by CW Lundberg AB after 1 May 2016.

The guarantee is subject to the following conditions:

- The guarantee period is determined based on the environment in which the product is installed; see sample environment in the table below.
- For an installed product, the guarantee only applies on the condition that the installation is done in accordance with CW Lundberg AB's instructions that applied at the time of the purchase.
- The product shall have been maintained in accordance with CW Lundberg AB's instructions that applied at the time of the purchase.
- The product may not have been subjected to abnormal wear and tear or loaded over normal limits and directives stated for roof safety products, e.g., snow fences.
- Claims shall be made to CW Lundberg AB within one month after the fault is discovered or has been made known to the roof owner.
- The right to compensation applies to the owner of the roof on which the product has been installed or will be installed.

When does the guarantee not apply?

- The guarantee does not apply to damage to products that have occurred have the risks have been transferred from CW Lundberg AB to its customer. The guarantee thus does not apply, e.g., to transport damage after such transfer of risk, or to damage due to faulty or careless storage or other handling by a wholesaler, retailer or end customer. In case of such damage, the retailer is primarily responsible according to statutory regulations.
- The guarantee does not apply if the installation is supplemented with components of a make other than that of CW Lundberg AB.
- The guarantee does not apply to anything other than that which is stated in this document.

Specific guarantee time	**Guarantee time (years)**
Enamelled products installed on copper roofs.	20

Corrosivity class	**Environmental corrosivity**	**Environmental example**	**Guarantee time (years)**
C1	Very low	Heated areas with dry air and negligible amounts of air contamination, e.g., offices, stores, schools and hotels.	100
C2	Low	Atmospheres with low concentrations of air contamination. Non-heated areas with fluctuating temperatures and humidity. Low frequency of condensation and low concentrations of air contamination, e.g., sport halls, warehouses.	80
C3	Moderate	Atmospheres with a certain amount of salt or moderate air contamination. Urban areas and lightly industrialised areas. Areas with a certain amount of influence from the coast. Areas of moderate humidity and a certain amount of air contamination from production processes, e.g., breweries, dairies, laundries.	60
C4	High	Atmospheres with a moderate amount of salt or considerable air contamination. Industrial and coastal areas. Areas with high levels of humidity and large quantities of air contamination from production processes, e.g., chemical industries, indoor swimming pools, shipyards.	40
C5-I	Very high (Industrial)	Industrial areas with a high degree of air humidity and an aggressive atmosphere. Areas with almost permanent condensation and large amounts of air contamination.	20
C5-M	Very high (Marine)	Coastal and offshore areas with large quantities of salt. Areas with almost permanent condensation and large amounts of air contamination.	20

Corrosivity classes according to EN ISO 12944-2:1998

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Länsförsäkringar

CERTIFICATE OF INSURANCE

This certificate is subject to insurance agreements, exclusions, conditions and declarations contained in the Named Policy and certifies that the Named Policy has been issued to the Insured named herein.
This certificate neither affirmatively nor negatively amends, extends or alters the coverage in the Named Policy scheduled herein. It is furnished as a matter of information only and confers no rights upon the Certificate Holder. It is issued with the understanding that the rights and liabilities of the parties will be exclusively governed by the original Named Policy as it may be lawfully amended.

Name and address of Insured

CW Lundberg Industri AB
Box 138
79222 Mora

POLICY FORM	POLICY NO.	EFFECTIVE DATE	EXPIRATION DATE	LIMITS OF LIABILITY (SEK) Bodily Injury and Property Damage Combined	
				Each Occurence	Annual Aggregate
[x] GENERAL LIABILITY [x] PRODUCTS LIABILITY	65227	2022-01-01	2022-12-31	10 000 000	20 000 000
OTHER COVERAGE				Each Occurence	Annual Aggregate

Geographical Scope: Worldwide excluding USA/Canada

Insured Business and Products Covered

Mechanical workshop / Roof safety accessories

Remarks
This insurance does not cover punitive damages.

Date issued

2021-12-01

Name and address of Certificate Holder

CW Lundberg Industri AB
Box 138
79222 Mora

Authorized Representative

Michael Hedberg

Name and address of issuing company affording coverage

Dalarnas Försäkringsbolag
Box 3
Se-79121 Falun
Sweden

LFAB 00087 Utg 04 2001-02 Form & Produktion

CERTIFIKAT

ISO 9001

Härmed intygas att/This is to certify that

CW Lundberg Industri AB

Landsvägen 52, 792 95 MORA, SWEDEN

har ett kvalitetsledningssystem som uppfyller kraven enligt SS-EN ISO 9001:2015 vad gäller
has a quality management system that fulfils the requirements of SS-EN ISO 9001:2015 with respect to

Konstruktion, tillverkning, pulverlackering och marknadsföring av taksäkerhetsprodukter

Construction, manufacturing, powder coating and marketing of roof safety devices

Ursprungligen utfärdat/Originally issued	2003-12-09
Giltigt till och med/Expiry date	2024-02-27
Beslutsdatum/Decision date	2021-02-01

Peter Karlsson

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Accred. no. 1002 Certification of Management Systems ISO/IEC 17021-1

Certifikat/Certificate 1271 | version/issue 9 | 2021-02-01

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CERTIFIKAT

ISO 14001

Härmed intygas att/This is to certify that

CW Lundberg Industri AB

Landsvägen 52, 792 95 MORA, SWEDEN

har ett miljöledningssystem som uppfyller kraven enligt SS-EN ISO 14001:2015 vad gäller
has an environmental management system that fulfils the requirements of SS-EN ISO 14001:2015 with respect to

Konstruktion, tillverkning, pulverlackering och marknadsföring av taksäkerhetsprodukter

Construction, manufacturing, powder coating and marketing of roof safety devices

Ursprungligen utfärdat/Originally issued	2006-02-27
Giltigt till och med/Expiry date	2024-02-27
Beslutsdatum/Decision date	2021-02-01

Peter Karlsson

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Accred. no. 1002 Certification of Management Systems ISO/IEC 17021-1

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ROOF SAFETY MORA SWEDEN

www.cwlundberg.com

On our website we have gathered all our products, installation instructions, videos and related documentation to help you create a safe roof on which to stay.

Use the calculator – calculate material consumption and prices directly on the website.

Brochures and latest documentation are available for download and printing on the website or contact us to have it e-mailed/sent to you.

CWL0058 CWL0053 CWL0062 CWL0059

ROOF SAFETY MORA SWEDEN

CWL0062-24 GB

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