

VERIFICATION CERTIFICATE

EUFI29-22003248-VA/EN

1 (8)

Eurofins Expert Services Oy has, in accordance with Chapter 3 of the Finnish Act on the Type Approval of Certain Construction Products (954/2012, amended with Act 1262/2014) and the provisions of the decree given by the Finnish Ministry of the Environment on the approval of certain construction products (555/2013, amended with decree 66/2015), granted the following verification certificate.

Vesivek Tuotteet Oy, Teollisuustie 8, FI-16300 Orimattila

Vesivek Snow Guards

The verified performance levels for meeting the basic requirements are provided in Appendix 2.

The product description is provided in Appendix 3, and the conditions for product use are provided in Appendix 4.

The conformity has been assessed in accordance with the evaluation criteria published by the Finnish Ministry of the Environment and provided in the document "Kattoturvatuotteet - Kattopollarit, talotikkaat, lumiesteet ja katon vaakaturvakiskot" (Roof safety products - roof bollards, wall ladders, snow guards, and horizontal roof safety rails). The system used for the evaluation and verification of the permanence of the performance level is 2+.

The construction product and the related package and documents must be equipped with the verification certificate mark concerning this certificate.

The verified product properties must be presented in connection with the mark in accordance with Appendix 5.



This verification certificate has been granted on September 26, 2022 and it is valid until September 26, 2027 at the latest. The conditions for validity are provided in Appendix 1. The validity of the certificate can be checked via the www.sertifikaattihaku.fi service.

Espoo 26.9.2022

Katja Vahtikari
Manager, Construction Certification

Saija Korpijaakko
Expert, Construction Certification

This document has been signed electronically.

- APPENDICES
1. Conditions for Validity
 2. Verified Basic Requirements for the Product
 3. Product Description Provided by the Manufacturer
 4. Conditions for Product Use
 5. Marking of the Verified Product

Appendix 1: Conditions for Validity

The verification certificate is granted for a fixed period, for no more than five years at a time. If necessary, the approved body may require a periodic review to ensure that the properties of the product correspond with the properties reported by the manufacturer. Products that have been inspected on a consignment-specific basis may only be commissioned after the approved body has issued the verification certificate concerning the consignment in question. (954/2012, section 14)

The verification certificate must be withdrawn if the construction product does not meet the essential technical requirements stipulated in the Finnish Land Use and Building Act or the provisions adopted under it. If the product is included in the scope of application of the CE marking system, the verification certificate expires. (954/2012, section 14)

In addition, the utilization of the verification certificate also requires internal production-related quality control and testing maintained by the manufacturer. The entity responsible for quality control verification verifies the internal quality control by carrying out the related initial inspection, monitoring the quality control continuously, and evaluating and approving the quality control. (954/2012, section 12)

The approved body and entity responsible for quality control verification must inform the manufacturer in writing of any reductions in product quality or safety detected during quality control and demand the manufacturer to modify the construction product within a fixed period to correspond with the verification certificate. (555/1213, section 8)

The approved body that issues verification certificates must withdraw the verification certificate if the importer, manufacturer, or authorized representative does not remedy the deficiencies detected during quality control verification. (954/2012, section 12)

The verification certificate must be withdrawn without delay if the Finnish Safety and Chemicals Agency (Tukes) has prohibited the use of the construction product or ordered the importer, manufacturer, or authorized representative to take measures to remove the product from the market. (954/2012, section 12)

The verification certificate is a public document. A record, which is available via the www.sertifikaattihaku.fi service maintained by Eurofins Expert Services Oy, is kept of the certificates.

Before the verification certificate can be issued, the manufacturer must report the entity responsible for quality control verification to the approved body.

The holder of the verification certificate is responsible for product quality and continuous quality control. When granting this verification certificate, Eurofins Expert Services Oy does not assume any liability for personal injuries or other damages that are caused by the direct or indirect use of the product related to this verification certificate.

The use of the names “Eurofins Expert Services Oy” or “Eurofins” in any other form in advertisements, as well as the partial distribution of this verification certificate, is only permitted with the written authorization of Eurofins Expert Services Oy.

Appendix 2: Verified Basic Requirements for the Product

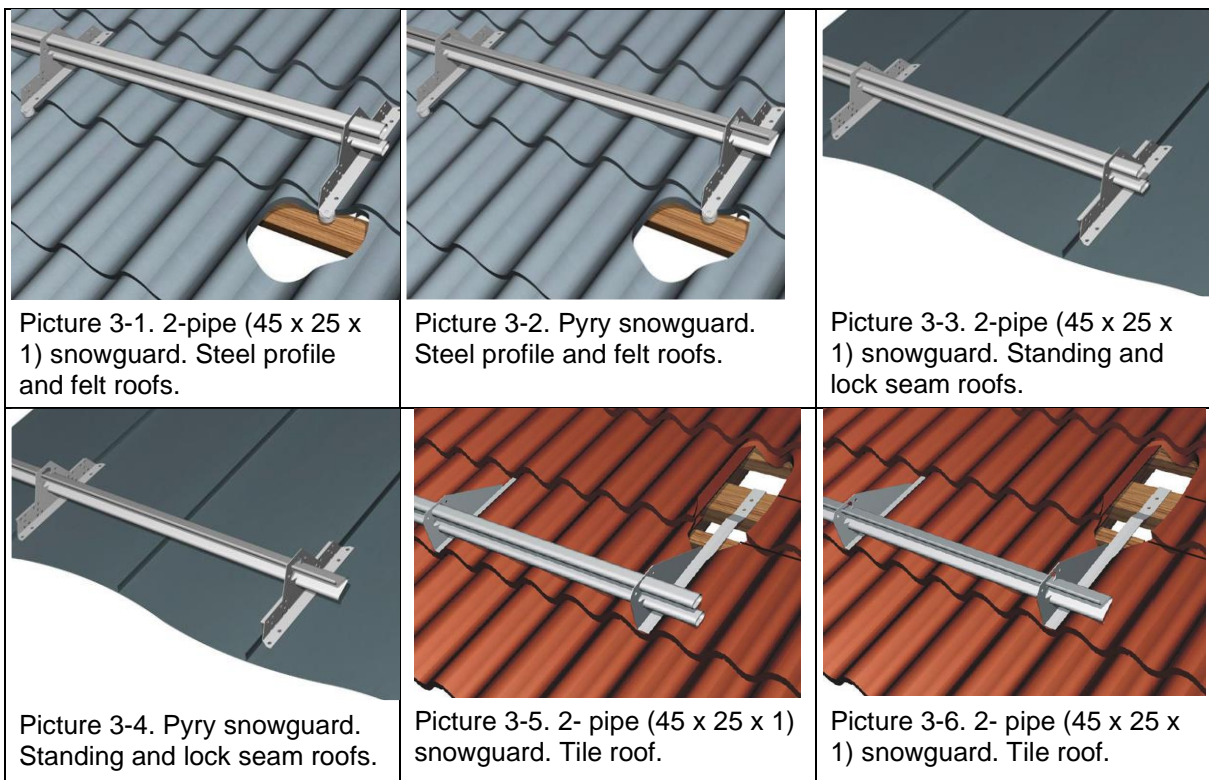
The verified performance levels for meeting the basic product requirements are as described in the table below. As the provided requirements are minimum requirements, it is permissible to use materials with a higher performance level.

Table 2-1. Verified Basic Requirements

1. Minimum height	To be reported
2. Joints	Locked
3. Static load-bearing capacity	Withstands a point load of 1,5 kN and a load of 5 kN in the direction of the roof fall. The deflection is less than 20 mm, and the permanent deflection is less than 5 mm.
4. Corrosion resistance	Corrosion resistance class C3 medium

Appendix 3: Product Description Provided by the Manufacturer

The grooves at the bottom edge of grid-type snowguard PLE/VARMA120 ja RLE/VARMA180 enable the snowguard to be installed as close as possible to roof surface so that ice rafts cannot get under and the risk of snow and ice falling between the snow guard and eave is minimized.



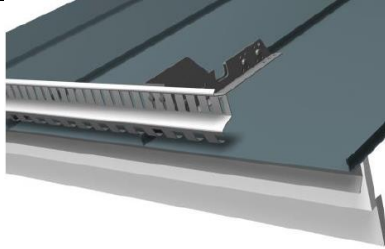

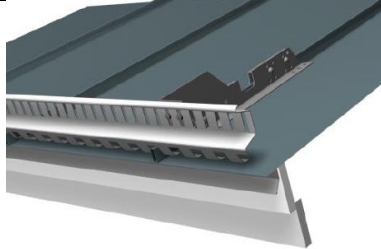
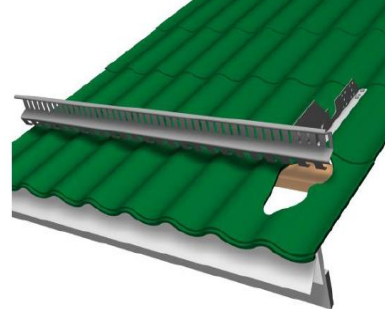
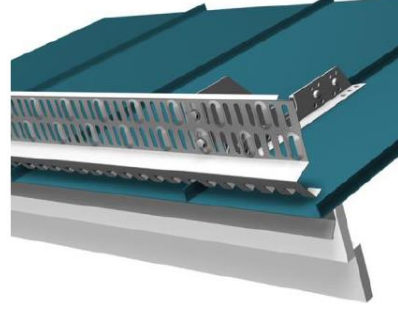

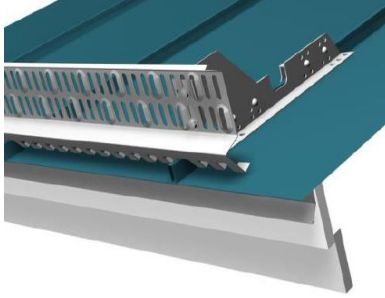
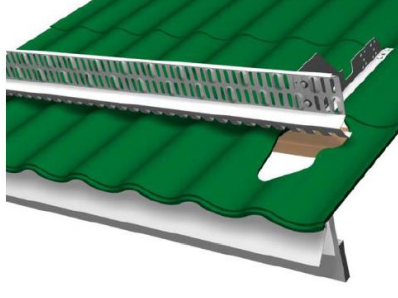
 <p>Picture 3-7. PLE/VARMA120 snowguard. Standing seam roof.</p>	 <p>Picture 3-8. PLE/VARMA120 snowguard. Tile roof.</p>	 <p>Picture 3-9. PLE/VARMA120 snowguard. Lock seam roof.</p>
 <p>Picture 3-10. PLE/VARMA120 snowguard. Steel profile roof.</p>	 <p>Picture 3-7. RLE/VARMA180 - snowguard. Standing seam roof.</p>	 <p>Picture 3-8. RLE/VARMA180 - snowguard. Tile roof.</p>
 <p>Picture 3-9. RLE/VARMA180 - lumieste. Lock seam roof.</p>	 <p>Picture 3-10. RLE/VARMA180. Steel profile roof.</p>	

Table 3-1. Materials used in the product.

No.	Application	Tyyppi	
1.	Oval tube snow guard 25 x 45 x 1,0 mm	AlZn (zinc content 150 g/m ²) Zn (350 g/m ²) Magnelis (ZM310) Steel grades: DX51, DX52, DX53	
2.	Grid-type snow guard (s =1,4 mm)	Zn (350 g/m ²) Steel grade DX51	
3.	Pyry snow guard (s = 1,0 mm)	Zn (350 g/m ²) Steel grade Dogal800	
4.	Fasteners	Zn (350 g/m ²) Steel grades: DX51, LAD460	
5.	Mounting accessory – accessories intended for roof safety installations	Accessory	
Head, mm		Corrosion protection	
Hex nut M8		13	hot-dip galvanized
HVAC screw 7x40 mm		10	Xylan 1000h+ painted head
HVAC screw 7x50 mm		10	Xylan 1000h+ painted head
HVAC screw 7x70 mm		10	Xylan 1000h+ painted head
Roof safety screw 7x50 mm		10	Xylan 1000h+ painted head
Hex bolt M8x20mm		13	hot-dip galvanized
Hex bolt M8x30mm		13	hot-dip galvanized
Hex bolt M8x40mm		13	hot-dip galvanized
Assy 3.0 screw 6,0 x 120mm		AW25	Zinc-nickel
Self-drilling screw 4,8x13mm		8	Delta Silver
Self-drilling screw 6,3x19mm		10	Delta Silver
Self-drilling screw 6,3x25mm		10	Delta Silver
M10 washer			hot-dip galvanized
Rubber gasket 5x25mm		EPDM	
Sealing strip 3x30mm		EPDM	

Appendix 4: Conditions for Product Use

Design

The following design, installation, user and maintenance instructions made by the manufacturer are to be followed in the site-specific design of Vesivek Snow Guards:

- Vesivek Tuotteet Oy, Product cards – for the moment available only in Finnish
- The following installation instructions are available in Finnish (by Vesivek Tuotteet Oy)
 - Lukkosauma 32-katon lumieseen asennusohje, 2.5.2022
 - Lukkosauma 32-katon PLE/VARMA 120 asennusohje, 2.5.2022
 - Lukkosauma 32-katon RLE/VARMA 180 asennusohje, 2.5.2022
 - Lukkosaumakaton lumieseen asennusohje, 2.5.2022
 - Lukkosaumakaton PLE/VARMA 120 asennusohje, 2.5.2022
 - Lukkosaumakaton RLE/VARMA 180 asennusohje, 2.5.2022
 - Tiilikaton lumieseen asennusohje, 2.5.2022
 - Tiilikaton PLE/VARMA 120 asennusohje, 2.5.2022
 - Tiilikaton RLE/VARMA 180 asennusohje, 2.5.2022
 - Huopakaton lumieseen asennusohje, 2.5.2022
 - Poimu- ja muotokatteen lumieseen asennusohje, 2.5.2022
 - Poimu- ja muotokatteen PLE VARMA 120 asennusohje, 2.5.2022
 - Poimu- ja muotokatteen RLE VARMA 180 asennusohje, 2.5.2022
 - Tiilikuviopeltikate, väistökantillinen kannake, lumieseen asennusohje, 2.5.2022
 - Saumapeltikatteen lumieseen asennusohje, 2.5.2022
 - Saumapeltikaton PLE/VARMA 120 asennusohje, 2.5.2022
 - Saumapeltikaton RLE/VARMA 180 asennusohje, 2.5.2022
 - Decra-katon lumieseen asennusohje, 2.5.2022
 - Varttikaton lumieseen asennusohje, 2.5.2022
 - Lumieseen asennusohje kantaville profiilikatoille, 2.5.2022
 - Korkeiden profiilien lumieritilän asennusohje, 2.5.2022
 - Lumieseen asennusohje lasikatteelle, 2.5.2022
- The following installation instructions are available in English under the former product name NESCO:
 - Snow guard for bitumen roof, 7.10.2020
 - Snow guard for roofs with load-bearing profiles, 26.10.2021
 - Snow guard for snap-lock standing seam roofs with under 33 mm seams, 7.10.2020
 - Snow guard for corrugated steel roofing and metal multi-tile roofing, 7.10.2020
 - Grid-type snow guard for corrugated steel roofing and metal multi-tile roofing, 7.10.2020
 - Snow guard for standing seam roof, 7.10.2020
 - Standing seam roof RLE/VARMA 180, 7.10.2020
 - Snow guard for tile roof, 7.10.2020
 - Tile roof VARMA 180, 7.10.2020

Manufacturing

The manufacturer's internal production and quality control instructions are to be followed in the different manufacturing stages.

Delivery and On-Site Storage

The instructions drawn up by the manufacturer are to be followed during the transportation and storage of the products. For the moment the instruction document is available only in Finnish (name of the document: Vesivek Tuotteet Oy, Työhjeet, Pakkaus- ja lastausohje, Tarkastettu 26.8.2016).

Use

Vesivek Snow Guards are used to prevent the snow and ice falling from the roof. The installation and maintenance of the products are to be carried out in accordance with the RT 85-11132 instructions and the instructions provided by the manufacturer.

Appendix 5: Marking of the Verified Product

The approved body must equip the verification certificate with a mark that can be used for distinguishing the verification certificate from other voluntary certificates granted by the approved body. The manufacturer must equip the construction product and the related package and documents (555/2013, section 7) with the mark.

Vesivek Snow Guard is to be marked with a verification mark similar to the one in the image. The numerical identifier that will be included in the mark is presented at the top of this verification certificate. The verification certificate mark will be delivered to the client in a separate file.

Installation and maintenance instructions, as well as the verification certificate are to be delivered in connection with the product.

	<p>Vesivek Tuotteet Oy Teollisuustie 8 FI-16300 Orimattila, Finland</p>
<p>Product</p>	<p>Vesivek Snow Guards</p>
<p>Intended Purpose</p>	<p>Roof safety product – Snow guards are used to prevent the snow and ice falling from the roof</p>
<p>Performance levels</p>	<p>Basic Requirements for snow guards</p> <ul style="list-style-type: none"> – Minimum height – Joints – Static load-bearing capacity – Corrosion resistance

This is the English version of the original document EUFI29-22003248-VA. In case of dispute the Finnish original document is valid.