

PRODUCT CERTIFICATE

VILPE Oy

manufactures

VILPE® roof accessories

VILPE® roofing accessories and products for roof ventilation are devices and structures penetrating the roof and its watertight layer, as well as sealing materials and related fasteners for pipe pass-throughs. The certification covers the use of the products regarding the water tightness of the roof and the durability of the products. The certificate does not cover the use of products in fire compartments. This certificate is based on an initial type assessment of the products and inspection of the factory production control according to the certification criteria SERT R076.

Products	Material	Products
Devices and structures penetrating the roof and its watertight layer	Polypropylene (PP)	see table 1
Sealing materials	EPDM rubber	see table 3

According to the results, VILPE® products can be used on a non-compartmental roof when installed in accordance with the manufacturer's instructions. Suitable roofing materials are sheet metal, roof tiles, bitumen sheets and bitumen shingles.

This certificate is valid until February 14, 2021 on condition that the products are not essentially changed and the manufacturer and Eurofins Expert Services Oy have a valid contract on quality control. Check the validity of this certificate, www.sertifikaattihaku.fi. Other conditions are listed on side 3 of the certificate.

Espoo, March 19, 2019

Tiina Ala-Outinen
Business Manager

Lina Markelin-Rantala
Lead Assessor

This document has been signed electronically

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Table 1. VILPE® roof accessories and products (for ventilation of structures) made of polypropylene (PP).

<p>Roof pass-throughs</p> <p>Intake vents</p> <p>Exhaust ventilation pipes</p> <p>Ventilation pipes</p> <p>Solar pass-throughs</p> <p>Ridge ventilation</p> <p>Alipai ventilation</p> <p>Roof hatches</p>
<p>The properties are shown in Table 2</p>

Table 2. Summary of properties of VILPE® devices and structures penetrating the roof and its watertight layer.

Characteristic	Testing Method	Requirement	Result
Appearance, surface quality and colour	Visual	Consistent quality	Requirement fulfilled
Water tight installation to the roof	EN 1027	Water tight	Water tight
Weather resistance (UV radiation) - Colour and gloss	SFS EN 13523-10 (2000h)	No decisively changes	Passed
Fire behaviour	EN 13501-1:2007	May be declared	class E

Table 3. VILPE® roof pass-through sealants made of EPDM rubber.

<p>FELT-seals</p> <p>RHS-seals</p> <p>ROOFSEAL seals</p>
<p>The properties are shown in Table 4</p>

Table 4. Summary of properties of VILPE® roof pass-through sealants.

Characteristic	Testing Method	Requirement	Result
Appearance, surface quality and colour	Visual	Consistent quality	Requirement fulfilled
Water tight installation to the roof	EN 1027	Water tight	Water tight
Durability Change in tensile strength and elongation when aged	EN 1296 and EN 1297	No decisively changes	Passed

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Conditions of validity:

The validity of the certificate will be ended, if the product falls into the scope of CE-marking.

Other conditions:

Where reference is made in this certificate to any regulations, publications, standards or other documents, it shall be construed as a reference to such publication in the form of which it is in force at the date of this certificate.

The manufacturer is responsible for the quality and continuous quality control of the product. In granting this certificate, Eurofins Expert Services Oy does not accept responsibility to any person or body for any loss or damage incurred in respect of personal injury arising as direct or indirect result of the use of this product.

The use of the name of EurofinsExpert Services Oy or the name Eurofins in any other form in advertising or distribution in part of this certificate is only permissible with written authorisation from Eurofins Expert Services Oy.

This certificate is the English version of the original C163/01 Finnish certificate. In case of dispute the Finnish original of the certificate is valid.