

# PRODUCT CERTIFICATE

## SK Tuote Oy

supplies and manufactures

### VILPE® Roof Pass-Throughs for Modular Chimney

The roof pass-throughs are intended to be used as sealings between the roof structure and the modular chimney. The maximum width of the chimney is 370 mm. The pass-throughs consist of pass-through element, sleeve and flashing sheet made of polypropylene, zinc-coated and painted upper flashing sheet and triangle sealing strips. The roof pass-through prevents rainwater getting into structures from a joint between chimney and roof covering. The product can be used on tile roofing, profiled steel roofing, standing seam steel roofing and shingles roofing.

This certificate is, based according to certification criteria VTT SERT R048/16, on an initial type testing of the product and an initial inspection of the factory production control. The performance of the products has been tested at VTT Expert Services Ltd. A summary of the characteristics is presented below:

Characteristic	Testing Method	Result
Watertightness	EN 1027 mod. EN 12208 mod.	<u>Tested structures:</u> Tile roof, inclination 11° Profiled steel roof (brick pattern), inclination 11° Lock-seamed metal roof, inclination 8°
Thermal resistance	Thermal and sootfire resistance EN 1443 mod. and EN 13216-1 mod.	The roof pass-through didn't show any damages during the tests. <sup>1)</sup> The maximum surface temperature of the roof pass-through in the tests: T 600 test: 65 - 88 °C Sootfire test: 44 - 53 °C T 600 test mod. <sup>2)</sup> : 81 - 111 °C
Pass-through material - tensile stress - temperature of deflection under load 0,45 Pa	ISO 527-2 ISO 75-2/B	25,0 MPa <sup>3)</sup> 96,0 °C <sup>3)</sup>
Tensile strength and elongation at break of the sealing strip material	EN ISO 1798	50 kPa/ 90 % <sup>3)</sup>

<sup>1) 2) 3)</sup> Further clarifications are given on the backside.

According to the results the roof pass-through can be used as a sealing between the roof structure and the modular chimney when the manufacturer's installation instructions T80069\_B (or later version) are followed.

This certificate is valid until May 9, 2021 on condition that the product is not essentially changed and the manufacturer and VTT Expert Services Ltd have a valid contract on quality control. To check the validity of this certificate, [www.vtt-todistus.fi](http://www.vtt-todistus.fi). Other conditions are listed on the reverse side of the certificate.

Espoo, July 6, 2016



Tiina Ala-Outinen  
Business Manager



Tiina Tirkkonen  
Product Manager

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No VTT-C-11596-16/EN  
Issued July 6, 2016

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References of the table:

- 1) The condition of the sealings shall be checked annually and in case of sootfire.
- 2) Test temperature 700-735 °C (measured 500 mm below the top of the chimney)
- 3) Manufacturer's announcement

Conditions of validity:

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

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, VTT Expert Services Ltd 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 VTT Expert Services Ltd or the name VTT Technical Research Centre of Finland Ltd in any other form in advertising or distribution in part of this certificate is only permissible with written authorisation from VTT Expert Services Ltd.

This certificate is the English version of the original VTT-C-11596-16 Finnish certificate. In case of dispute the Finnish original of the certificate is valid.