

# PRODUCT CERTIFICATE

## SK Tuote Oy

manufactures and supplies

### Chimney Pass-Throughs and Chimney Underlay Seal-pieces

The Chimney Pass-Throughs are intended to use to seal joints between small, round shaped, Ø 200 - 380 mm, metal system chimneys and roof structure. The task of roof mounted Chimney Pass-Through is to prevent rainwater getting into structures from a joint between chimney and roof covering. In the joint between underlay and chimney installed seal-piece is functioned to prevent rain- and condensate water drifting into structures from the joint between underlay and chimney. In both products rubber gasket in contact with external surface of the chimney is a flexible EPDM rubber and the remaining part is polypropylene.

This certificate is based on an initial type assessment of the product and an initial inspection of the factory production control according to the certification criteria VTT SERT R048. Behaviour of the products is tested by chimney's thermal resistance test and sootfire-tests. In addition the fire class of rubber is determined. A summary of the properties is presented below:

Property	Method	Results
Thermal resistance of EPDM-rubber	Thermal- and sootfire resistance. EN 1856-1 EN 1859 (application)	EPDM rubber didn't show any damages during the tests. The rubber was still flexible after the tests.  1) The maximum temperature of the rubber in the tests: T 450 test: 75 – 76 °C T 600 test: 108 - 109 °C Sootfire-fire test: 182 - 198 °C
Fire class of EPDM rubber	EN-ISO 11925-2 and EN 13501-1	Class E
Strength and elongation of EPDM-rubber	ISO 37/1	9,5 MPa/ 400 % (manufacturer's announce)
Thermal resistance of EPDM-rubber (manufacturer's announce)		Constant operating temperature -40 - + 105 °C Short timed maximum operating temperature +120 °C

<sup>1)</sup> In case of sootfire the condition of seals must always be checked. The condition of seals must be checked annually.

The use of the products is described on page 2. The installation instructions from the VILPE Chimney-Pass-Through design and instruction book 3/2014 shall be followed.

This certificate is valid until 21.11.2022 on the condition that there are no essential changes in the products or installation procedures and the certificate holder and VTT Expert Services Ltd have a valid contract on quality control. To check the validity of this certificate, [www.vtt-certificate.com](http://www.vtt-certificate.com). Other conditions are listed on page 2 of the certificate.

Espoo 22.11.2017

Tiina Tirkkonen  
Product Manager

Lina Markelin-Rantala  
Lead Assessor

This document has been signed electronically

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No VTT-C-6081-10  
November 22, 2017

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The use of the products:

According to the results Chimney Pass-Through and Chimney Underlay Seal-pieces are suitable for use to seal joints between round CE-marked metal system chimneys and roof structures. The minimum thickness of mineral wool on a chimney shall be 50 mm. The distance between underlay and the top surface of roof's insulation layer shall be at least 500 mm in cases when chimney is attached to wood-burning sauna stove, and insulation layer thickness of a roof is more than 200 mm.

Conditions of the 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-6081-10 Finnish certificate. In case of dispute the Finnish original of the certificate is valid.