

PRODUCT CERTIFICATE

Ruukki Construction Oy

manufactures

Products Sandwich panel SPA230E LIFE, SPA230E LIFE FORMA, SPA150S and SPA150F

Products are prefabricated metal faced sandwich panels which are aimed to be used as burglar protection walls. The characteristics of the sandwich panels have been tested at VTT Expert Services Ltd. The assessment is based on the test results and evaluation. A summary of the characteristics is presented below:

Product	Testing Method	Requirement	Protection class
SPA230E LIFE	SSF 1047	5 min	2
SPA230E LIFE FORMA	SSF 1047	5 min	2
SPA150S, SPA175S, SPA200S and SPA230S	SSF 1047	5 min	2
SPA150F, SPA175F, SPA200F and SPA230F	SSF 1047	5 min	2
SPA150F, SPA175F, SPA200F and SPA230F with plywood reinforcement ¹	SSF 1047	10 min	3
SPA150F, SPA175F, SPA200F and SPA230F with profiled sheeting reinforcement ²	SSF 1047	10 min	3

^{1,2} Further clarifications are given on the backside.

This certificate is based according to certification criteria VTT SERT R066 on an initial type assessment of the product and an initial inspection of the factory production control. According to the results products can be used as burglar protection walls.

This certificate is valid until April 14, 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. Other conditions are listed on the reverse side of the certificate.

Espoo, May 23, 2016



Tiina Ala-Outinen
Business Manager



Annika Aro
Auditor

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References of the table:

- ¹ Plywood (thickness 12 mm, type Wisa Form Birch with 9 plies) reinforcement on the back side
- ² Profiled sheeting (height 20 mm, material thickness 0,6 mm) reinforcement on the back side

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.