

# PRODUCT CERTIFICATE

Certificate No VTT-C-4933-10  
Translation from Finnish

## Saint-Gobain Rakennustuotteet Oy

produce and deliver

### Technical insulations manufactured from mineral wool

Insulations are intended to be used at thermal, fire, sound and condensation insulations in HVAC systems, OEM and process and ship industry. Fire classifications of insulations have been done according to the standard EN 13501-1. Summary of the properties with classifications is below:

Product group	Fire class EN 13501-1	Nominal density (kg/m <sup>3</sup> ) EN 1602, EN 13470	Coating
ISOTEC KOVM-80,	A1	80	-
ISOTEC KOVM-80-ALC	A2-s1,d0	80	Aluminium laminate
ISOTEC KOVM-100	A1	100	-
ISOTEC KOVM-100-ALC	A2-s1,d0	100	Aluminium laminate
ISOTEC SKOL-80	A1	80	-
ISOTEC KIM-AL	A2-s1,d0	20 - 30	Aluminium laminate
ISOTEC KIM	A2-s1,d0	20 - 30	
ISOTEC KVM-20-AL	A2-s1,d0	23	Net + Aluminium laminate
ISOTEC KVM-50	A2-s1,d0	50	Net + Glass fibre felt
ISOTEC KVM-50-AL	A2-s1,d0	50	Net + Aluminium laminate
ISOTEC KLS-K	A2-s1,d0	30 - 40	Glass fibre felt
ISOTEC ISL-AL	A2-s1,d0	30 - 40	Aluminium laminate
ISOTEC KVL	A2-s1,d0	40 - 80	Glass fibre felt
ISOTEC CLEANTEC	A2-s1,d0	50	Glass fibre fabric
ISOTEC NAPPE QN-75	A1	30	-
ISOTEC VVM 60	A1	60	Net
ISOTEC LAM -AF	A2-s1,d0	25	Aluminium laminate
ISOTEC KK	A1	75	-
ISOTEC KK-AL	A2-s1,d0	75	Aluminium laminate
ISOTEC KK-ALC	A2-s1,d0	75	Aluminium laminate
U Protect Wired Mat 2.0 N	A1	55	-
U Protect Wired Mat 2.0 V1	A1	55	Glass fibre fabric
U Protect Wired Mat 2.0 ALU 1	A1	55	Aluminium foil
U Protect Wired Mat 4.0 N	A1	66	
U Protect Wired Mat 4.0 V1	A1	66	Glass fibre fabric
U Protect Wired Mat 4.0 ALU1	A1	66	Aluminium foil
U Protect Slab 2.0 N	A1	55	
U Protect Slab 2.0 V1	A1	55	Glass fibre fabric
U Protect Slab 2.0 ALU1	A1	55	Alumiinifolio
U Protect Slab 4.0 N	A1	66	
U Protect Slab 4.0 V1	A1	66	Glass fibre fabric
U Protect Slab 4.0 ALU1	A1	66	Alumiinifolio

This certificate is valid until 1.1.2015, on the condition that there are no essential changes in the products, and certificate holder and VTT Expert Services Ltd has a valid quality control contract. Type and amount of burning material and fire properties are defined in the contract. Information of the validity of the certificate can be asked from VTT Expert Services Ltd. Other conditions are listed on reverse side of the certificate.

Espoo 2.11.2010



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Conditions of validity:

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 VTT' Expert Services Ltd s name in advertising or the distribution of a partly copied certificate is allowed only with permission from VTT Expert Services Ltd in writing.