Forschungsinstitut für Wärmeschutz e.V.
München

EC-CERTIFICATE OF CONFORMITY

0751-CPD.2-003.0-05-02/12

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product

Factory made mineral wool (MW) products

as thermal insulation products for building equipment and industrial installations for uses subject to regulations on reaction to fire

(product parameters and classes, description of the product, the declaration and the use of the product is presented in the annex)

placed on the market by

SAINT-GOBAIN ISOVER G+H AG
Bürgermeister-Grünzweig-Str.1
67059 Ludwigshafen / Germany

and produced in the factory

Lübz
Industriestraße 11
19386 Lübz

is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the notified body

0751 - Forschungsinstitut für Wärmeschutz e.V. München

has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.

This certificate attests that all provisions concerning the attestation of conformity and the performances described in Annex ZA of the standard

EN 14303:2009
with the Annex B and C of EN 13172:2008
and Section 5 of EN ISO 13787:2003

were applied and that the product fulfils all the prescribed requirements.

This certificate was first issued on May 07, 2012 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the Factory Production Control itself are not modified significantly.

Gräfelfing, August 01, 2012

Forschungsinstitut für Wärmeschutz e.V. München FIW MÜNCHEN 13

Head of Certification Body

Dr.-Ing. Martin Zeitler

A publication of extracts or a referring to the EC-certificate of conformity and its annex requires the prior written approval of FIW München.
Information of the validity of the certificate is available at www.fiw-muenchen.de

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Date: August 01, 2012

Factory: **Saint-Gobain Isover G+H AG Werk Lübz, Industriestraße 11, 19386 Lübz / Germany**
Construction product(s): Factory made mineral wool (MW) products according to EN 14303:2009
Intended use: Thermal insulation products for building equipment and industrial installations
Level(s) or class(es) reaction to fire: for uses subject to regulations on reaction to fire A1. Products for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification by limiting of organic material
Attestation of conformity system: 1

Table 1: Designation and description of the products

No.	Product				Nominal thickness	Product data sheet		Reaction to fire class EN 13501-1	Designation code	Thermal conductivity according Table 2a
	Form	Type	Description	produced on	in mm	Name	Dated			
1	Wired-mat	U Protect Wired Mat 2.0 Alu1	wired mat made of non combustible mineral wool with aluminium foil layer under wire netting	Line A	30-120 Load: 1000 Pa	ISOVER-PDS-INT-ENG- U Protect Wired Mat 2.0 Alu1-2012-08	08. 2012	A1	MW-EN 14303 -T2-ST(+)540	TC1
2	Wired-mat	U Protect Wired Mat 2.0	wired mat made of non combustible mineral wool	Line A	30-120 Load: 1000 Pa	ISOVER-PDS-INT-ENG- U Protect Wired Mat 2.0-2012-08	08. 2012	A1	MW-EN 14303 -T2-ST(+)540	TC1
3	Wired-mat	U Protect Wired Mat 2.0 V1	wired mat made of non combustible mineral wool with organic fibre fleece under wire netting	Line A	30-120 Load: 1000 Pa	ISOVER-PDS-INT-ENG- U Protect Wired Mat 2.0 V1-2012-08	08. 2012	A1	MW-EN 14303 -T2-ST(+)540	TC1
4	Slab	U Protect Slab 2.0 Alu1	slab made of non combustible mineral wool with aluminium foil layer on one side	Line A	30-120 Load: 50 Pa	ISOVER-PDS-INT-ENG- U Protect Slab 2.0 Alu1-2012-08	08. 2012	A1	MW-EN 14303 -T4-ST(+)540-MV2	TC1

Forschungsinstitut für Wärmeschutz e.V. München FIW MÜNCHEN 13

Date: August 01, 2012

No.	Product				Nominal thickness	Product data sheet		Reaction to fire class EN 13501-1	Designation code	Thermal conductivity according Table 2a
	Form	Type	Description	produced on	in mm	Name	Dated			
5	Slab	U Protect Slab 2.0	slab made of non combustible mineral wool	Line A	30-120 Load: 50 Pa	ISOVER-PDS-INT-ENG- U Protect Slab 2.0-2012-08	08. 2012	A1	MW-EN 14303 -T4-ST(+)540	TC1
6	Slab	U Protect slab 2.0 V1	slab made of non combustible mineral wool with glass fibre fleece on one side	Line A	30-120 Load: 50 Pa	ISOVER-PDS-INT-ENG- U Protect Slab 2.0 V1-2012-08	08. 2012	A1	MW-EN 14303 -T4-ST(+)540	TC1
7	Wired-mat	U TECH Wired Mat MT 5.0 Alu1	wired mat made of non combustible mineral wool with aluminium foil layer under wire netting	Line A	30-120 Load: 1000 Pa	D_U TWM 5.0	08.2012	A1	MW-EN 14303 -T2-ST(+)540-WS1-CL10	TC2
8	Wired-mat	U TECH Wired Mat MT 5.0	wired mat made of non combustible mineral wool	Line A	30-120 Load: 1000 Pa	D_U TWM 5.0	08.2012	A1	MW-EN 14303 -T2-ST(+)540-WS1-CL10	TC2
9	Wired-mat	U TECH Wired Mat MT 5.0 V1	wired mat made of non combustible mineral wool with organic fibre fleece under wire netting	Line A	30-120 Load: 1000 Pa	D_U TWM 5.0	08.2012	A1	MW-EN 14303 -T2-ST(+)540-WS1-CL10	TC2
10	Slab	U TECH Slab MT 5.0 Alu1	slab made of non combustible mineral wool with aluminium foil layer on one side	Line A	30-120 Load: 50 Pa	ISOVER-PDS-INT-ENG- U TECH Slab MT 5.0 Alu1-2012-08	08. 2012	A1	MW-EN 14303 -T4-ST(+)540-MV2-CL10	TC2
11	Slab	U TECH Slab MT 5.0	slab made of non combustible mineral wool	Line A	30-120 Load: 50 Pa	ISOVER-PDS-INT-ENG- U TECH Slab MT 5.0-2012-08	08. 2012	A1	MW-EN 14303 -T4-ST(+)540-CL10	TC2

Forschungsinstitut für Wärmeschutz e.V. München FIW MÜNCHEN 13

No.	Product				Nominal thickness	Product data sheet		Reaction to fire class EN 13501-1	Designation code	Thermal conductivity according Table 2a
	Form	Type	Description	produced on	in mm	Name	Dated			
12	Slab	U TECH Slab MT 5.0 V1	slab made of non combustible mineral wool with glass fibre fleece on one side	Line A	30-120 Load: 50 Pa	ISOVER-PDS-INT-ENG- U TECH Slab MT 5.0 V1-2012-08	08. 2012	A1	MW-EN 14303 -T4-ST(+)540-CL10	TC2
13	Wired-mat	U Protect Wired Mat 4.0 Alu1	wired mat made of non combustible mineral wool with aluminium foil layer under wire netting	Line A	30-120 Load: 1000 Pa	ISOVER-PDS-INT-ENG- U Protect Wired Mat 4.0 Alu1-2012-08	08. 2012	A1	MW-EN 14303 -T2-ST(+)620	TC3
14	Wired-mat	U Protect Wired Mat 4.0	wired mat made of non combustible mineral wool	Line A	30-120 Load: 1000 Pa	ISOVER-PDS-INT-ENG- U Protect Wired Mat 4.0-2012-08	08. 2012	A1	MW-EN 14303 -T2-ST(+)620	TC3
15	Wired-mat	U Protect Wired Mat 4.0 V1	wired mat made of non combustible mineral wool with organic fibre fleece under wire netting	Line A	30-120 Load: 1000 Pa	ISOVER-PDS-INT-ENG- U Protect Wired Mat 4.0 V1-2012-08	08. 2012	A1	MW-EN 14303 -T2-ST(+)620	TC3
16	Slab	U Protect Slab 4.0 Alu1	slab made of non combustible mineral wool with aluminium foil layer on one side	Line A	30-120 Load: 50 Pa	ISOVER-PDS-INT-ENG- U Protect Slab 4.0 Alu1-2012-08	08. 2012	A1	MW-EN 14303 -T4-ST(+)620-MV2	TC3
17	Slab	U Protect Slab 4.0	slab made of non combustible mineral wool	Line A	30-120 Load: 50 Pa	ISOVER-PDS-INT-ENG- U Protect Slab 4.0-2012-08	08. 2012	A1	MW-EN 14303 -T4-ST(+)620	TC3
18	Slab	U Protect Slab 4.0 V1	slab made of non combustible mineral wool with glass fibre fleece on one side	Line A	30-120 Load: 50 Pa	ISOVER-PDS-INT-ENG- U Protect Slab 4.0 V1-2012-08	08. 2012	A1	MW-EN 14303 -T4-ST(+)620-	TC3



Date: August 01, 2012

No.	Product				Nominal thickness	Product data sheet		Reaction to fire class EN 13501-1	Designation code	Thermal conductivity according Table 2a
	Form	Type	Description	produced on	in mm	Name	Dated			
19	Wired-mat	U TECH Wired Mat MT 6.0 Alu1	wired mat made of non combustible mineral wool with aluminium foil layer under wire netting	Line A	30-120 Load: 1000 Pa	TDBT0202_ UTWM6.0	08.2012	A1	MW-EN 14303 -T2-ST(+)620-WS1-CL10	TC4
20	Wired-mat	U TECH Wired Mat MT 6.0	wired mat made of non combustible mineral wool	Line A	30-120 Load: 1000 Pa	TDBT0202_ UTWM6.0	08.2012	A1	MW-EN 14303 -T2-ST(+)620-WS1-CL10	TC4
21	Wired-mat	U TECH Wired Mat MT 6.0 V1	wired mat made of non combustible mineral wool with organic fibre fleece under wire netting	Line A	30-120 Load: 1000 Pa	TDBT0202_ UTWM6.0	08.2012	A1	MW-EN 14303 -T2-ST(+)620-WS1-CL10	TC4
22	Slab	U TECH Slab MT 6.0 Alu1	slab made of non combustible mineral wool with aluminium foil layer on one side	Line A	30-120 Load: 50 Pa	TDHT0303_ UTPN66	08.2012	A1	MW-EN 14303 -T4-ST(+)620-MV2-CL10	TC4
23	Slab	U TECH Slab MT 6.0	slab made of non combustible mineral wool	Line A	30-120 Load: 50 Pa	TDHT0303_ UTPN66	08.2012	A1	MW-EN 14303 -T4-ST(+)620-CL10	TC4
24	Slab	U TECH slab MT 6.0 V1	slab made of non combustible mineral wool with glass fibre fleece on one side	Line A	30-120 Load: 50 Pa	TDHT0303_ UTPN66	08.2012	A1	MW-EN 14303 -T4-ST(+)620-CL10	TC4
25	Slab	U TPA 66	slab made of non combustible mineral wool with aluminium foil layer on one side	Line A	30-120 Load: 50 Pa	TDHT0303_ UTPN66	08.2012	A1	MW-EN 14303 -T4-ST(+)620-MV2	TC4

Forschungsinstitut für Wärmeschutz e.V. München FIW MÜNCHEN 13

Date: August 01, 2012

No.	Product				Nominal thickness	Product data sheet		Reaction to fire class EN 13501-1	Designation code	Thermal conductivity according Table 2a
	Form	Type	Description	produced on	in mm	Name	Dated			
26	Slab	U TPN 66	slab made of non combus-tible mineral wool	Line A	30-120 Load: 50 Pa	TDHT0303_ UTPN66	08.2012	A1	MW-EN 14303 -T4-ST(+)620	TC4
27	Slab	U TPV 66	slab made of non combus-tible mineral wool with glass fibre fleece on one side	Line A	30-120 Load: 50 Pa	TDHT0303_ UTPN66	08.2012	A1	MW-EN 14303 -T4-ST(+)620	TC4

Wired Mats:
If stainless steel is used for wire, the Mats are marked with "X". If stainless steel is used for wire and mesh, the Mats are marked with "XX".

Forschungsinstitut für Wärmeschutz e.V. München FIW MÜNCHEN 13

Date: August 01, 2012

Table 2a: Declared values of thermal conductivity $\lambda_{N,P}$ in W/(m·K) according EN 13787 Guarded Hot Plate, based on test results of EN 12667 and CEN/TS 15548-1

Thermal Conductivity $\lambda_{N,P}$ in W/(m·K)	Temperature ϑ in °C										
	10	50	100	150	200	300	400	500	550	600	
TC1	33	35	41	49	57	78	104	138	155	-	
TC2	-	35	41	49	57	78	104	138	155	-	
TC3	33	35	40	47	54	72	96	120	-	162	
TC4	-	35	40	47	54	72	96	120	-	162	

All products are exonerated from classification "possible carcinogenic" by note Q of Commission Directive 97/69/EC

Gräfelfing, August 01, 2012

Head of Certification Body

Dr.-Ing. Martin Zeitler