

ABSTRACT OF THE ENVIRONMENTAL PRODUCT DECLARATION

in accordance with standard EN ISO 14025:2010

English translation prepared by ZAG Ljubljana – Original version in Slovenian language

Owner of the declaration	URSA Slovenia
Programme holder	System EPD of Slovenian National Building and Civil Engineering Institute
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Valid to	01.09.2018
This Environmental product declaration replaces	EPD-13/001 validity from 02.09.2013 to 01.09.2018
Issue	2

Thermal insulation made of mineral glass wool URSA GLASSWOOL

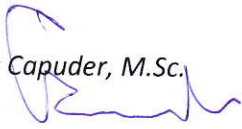

URSA DF 39, URSA SF 34, URSA SF 32, URSA TWF 1, URSA FDP 2, URSA FDP 2/Vf, URSA FDP 3/Vf



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1 Summary

<p>URSA SLOVENIJA</p>	<p>Thermal insulation made of mineral glass wool URSA GLASSWOOL:</p> <p>URSA DF 39 URSA SF 34 URSA SF 32 URSA TWF 1 URSA FDP 2 URSA FDP 2/Vf URSA FDP 3/Vf</p>						
<p>Programme holder:</p> <p>Slovenian National Building and Civil Engineering Institute Dimičeva 12, 1000 Ljubljana http://www.zag.si</p>	<p>Owner of the Declaration:</p> <p>URSA SLOVENIA d.o.o. Povhova ulica 2 8000 Novo mesto http://www.ursa.si</p>						
<p>Declaration number:</p> <p>EPD-13/001</p>	<p>Declared product / Declared unit:</p> <p>One cubic metre (1 m³) of mineral glass wool for products URSA DF 39, URSA SF 34, URSA SF 32, URSA TWF 1, URSA FDP 2, URSA FDP 2/Vf and URSA FDP 3/Vf.</p>						
<p>This Declaration is based on the Product Category Rules:</p> <p>Mineralische Dämmstoffe, IBU, July 2009.</p>	<p>Scope:</p> <p>This EPD covers seven products of mineral wool manufactured by company URSA Novo mesto. This products are used for thermal insulation of roofs, partition walls, indoor and outdoor walls and ceilings.</p>						
<p>Issue date: 16. 08. 2016</p>	<p>Verification:</p> <table border="1" data-bbox="794 1413 1385 1626"> <tr> <td colspan="2">The CEN standard: EN 15804:2012 +A1:2013</td> </tr> <tr> <td colspan="2">Verification of the EPD by an independent third party as per EN ISO 14025:2010</td> </tr> <tr> <td><input checked="" type="checkbox"/> internally</td> <td><input type="checkbox"/> externally</td> </tr> </table>	The CEN standard: EN 15804:2012 +A1:2013		Verification of the EPD by an independent third party as per EN ISO 14025:2010		<input checked="" type="checkbox"/> internally	<input type="checkbox"/> externally
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<p>Title and the handwritten signature issuer:</p> <p><i>Franc Capuder, M.Sc.</i></p> 	<p>Title and the handwritten signature of verifier:</p> <p><i>Friderik Knez, B.Sc.</i></p> 						



2 Product description

URSA GLASSWOOL is thermal insulation made of mineral glass wool.

Elastic fibres interwoven into insulation fleece or slab are offering optimal combination of thermal and acoustic protection.

3 Application

- Thermal insulation of inclined roof: SF 32, SF 34, DF 39
- Thermal and acoustic insulation - partition wall: TWF 1
- Thermal and acoustic insulation - suspend ceiling: TWF 1
- Thermal insulation of ceiling – towards attic: SF 34, DF 39
- Thermal insulation of facade wall – outer insulation: FDP 1, FDP 2, FDP 2 Vf, FDP 3 Vf
- Thermal insulation of facade wall – inner insulation: TWF 1
- Thermal insulation of floor – unloaded floor: DF 39

4 Scope of the LCA

Type of EPD: »from cradle to gate«.

The setting of the system boundaries follows the »modularity principle« in accordance with SIST EN 15804. Analysis of the products includes phases of the Product manufacturing stage (Modules A1 to A3).

Software Gabi 6 (developed by PE International) and data base Ecoinvent integrated 2.2 were used for calculation of modules A1 to A3 for a set of mineral wool products URSA.

5 LCA results

RESULTS OF THE LCA – Parameters describing resource use: 1 m ³ of mineral glass wool URSA							
Product/Parameter (abbreviation)	URSA DF 39	URSA FDP 2 Vf	URSA FDP 2	URSA FDP 3 Vf	URSA SF 32	URSA SF 34	URSA TWF 1
PERT [MJ]	3,76E+01	1,13E+02	1,11E+02	1,70E+02	1,11E+02	5,54E+01	4,02E+01
PENRT [MJ]	3,92E+02	8,33E+02	7,82E+02	9,11E+02	9,48E+02	6,53E+02	4,51E+02
GWP [kg CO ₂ equiv]	2,21E+01	4,91E+01	4,53E+01	5,35E+01	5,30E+01	3,64E+01	2,53E+01
ODP [kg CFC 11 equiv]	3,01E-06	5,30E-06	5,13E-06	5,94E-06	6,83E-06	4,70E-06	3,30E-06
AP [kg SO ₂ equiv]	1,54E-01	3,71E-01	3,51E-01	4,09E-01	4,30E-01	2,96E-01	2,09E-01
EP [kg (PO ₄) ³⁻ equiv]	4,72E-02	1,15E-01	1,09E-01	1,27E-01	1,36E-01	9,36E-02	6,57E-02
POCP [kg Ethene equiv]	1,22E-02	2,91E-02	2,75E-02	3,26E-02	3,26E-02	2,21E-02	1,52E-02

APDE [kg Sb equiv]	1,18E-03	2,19E-03	2,01E-03	2,49E-03	2,65E-03	1,90E-03	1,35E-03
APDF [MJ]	3,92E+02	8,33E+02	7,82E+02	9,11E+02	9,48E+02	6,53E+02	4,51E+02
HWD [kg]	0	0	0	0	0	0	0
RWD [kg]	0	0	0	0	0	0	0
Caption	Total use of renewable primary energy resources (PERT); Total use of non-renewable primary energy resources (PENRT); Global warming potential (GWP); Ozone depletion (ODP); Acidification for soil and water (AP); Eutrophication (EP); Photochemical ozone creating (POCP); Depletion of abiotic resources - elements (APDE); Depletion of abiotic resources – fossil fuels (APDF); Hazardous waste disposed (HWD); Radioactive waste disposed (RWD)						

6 Dokazila

- Declaration of performance (DoP)
- EUCEB/RAL certificate
- Biological resistance
- Radioactivity

