

BUILDING PRODUCT DECLARATION BPD 3

in compliance with the guidelines of the Ecocycle Council, June 2007

1 Basic data

Product identification		Document ID Knauf Insulation 01
Product name Knauf Insulation insulation	Product no/ID designation See attached sheet with article numbers	Product group BK04 - 01301
<input checked="" type="checkbox"/> New declaration <input type="checkbox"/> Revised declaration	In the case of a revised declaration	
	Has the product been changed?	The change relates to
	<input type="checkbox"/> No <input type="checkbox"/> Yes	Changed product can be identified by
Drawn up/revised on (date) 2010-12-03		Inspected without revision on (date)
Other information:		

2 Supplier information

Company name Knauf Insulation Ltd		Company reg. no/DUNS no	
Address Stafford Rd St Helens		Contact person Andrew Cawley	
		Telephone 0044 (0) 1744 766696	
Website: knaufinsulation.com		E-mail andrew.cawley@knaufinsulation.com	
Does the company have an environmental management system?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
The company possesses certification in compliance with	<input checked="" type="checkbox"/> ISO 9000 <input checked="" type="checkbox"/> ISO 14000	<input type="checkbox"/> Other	If "other", please specify:
Other information:			

3 Product information

Country of final manufacture UK	If country cannot be stated, please state why		
Area of use			
Is there a Safety Data Sheet for this product?		<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
In accordance with the regulations of the Swedish Chemicals Agency, please state:	Classification see other information	<input type="checkbox"/> Not relevant	
	Labelling see other information		
Is the product registered in BASTA?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Has the product been eco-labelled?	<input type="checkbox"/> Criteria not found <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If "yes", please specify:	
Is there a Type III environmental declaration for the product?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other information: Classification of the glass fibres used are not applicable for this product. The fibres are in accordance with the directive 97/69/EC and European Regulation 1272/2008, nota Q.			

4 Contents

At the time of delivery, the product comprises the following parts/components, with the chemical composition stated:					
Constituent materials/components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classification	Comments
Glass mineral insulation	glass (alkali and alkaline earth oxides (CaO+MgO+NaO +K2O)>18%)	87-100%	None	-	Glass fibres

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.

	Thermoset polymer	0 – 13%	None	-	Binder
	Oil	<1%	None	-	Dust reducer
Other information: The "in situ" loft and loose fill products "Jet Stream" and "Perimeter Plus" do not have any binder (thermoset polymer). Mineral wool is listed under Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures, amending and repealing directive 67/548/EEC and 1999/45/EC, and amending regulation (EC) No 1907/2006; index no 650-016-00-2 of the list of harmonised classification and labeling of hazardous substances and Note Q. Mineral wool fibre (MMVF) note Q has also been registered under the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); registration number 01-2119472313.					
If the chemical composition of the product after it is built in differs from that at the time of delivery, the content of the finished built in product should be given here. If the content is unchanged, no data need be given in the following table.					
Constituent materials/ components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classification	Comments
Other information:					

5 Production phase

Resource utilisation and environmental impact during production of the item is reported in one of the following ways:			
<input checked="" type="checkbox"/> 1) Inflows (goods, intermediate goods, energy etc) for the registered product into the manufacturing unit , and the outflows (emissions and residual products) from it, i.e. from "gate-to-gate".			
<input type="checkbox"/> 2) All inflows and outflows from the extraction of raw materials to finished products i.e. "cradle-to-gate".			
<input type="checkbox"/> 3) Other limitation. State what:			
The report relates to unit of product per kg	<input type="checkbox"/> Reported product	<input type="checkbox"/> The product's product group	<input type="checkbox"/> The product's production unit
Indicate raw materials and intermediate goods used in the manufacture of the product		<input type="checkbox"/> Not relevant	
Raw material/intermediate goods	Quantity and unit	Comments	
Sand, Soda Ash, Borax, Dolomite, Limestone	403 grams	glass raw materials	
Manganese dioxide	6 grams	glass raw material	
Thermoset Bio resin	40 grams	EcoSe™Technology binder componet	
Silane	0.05	EcoSe™Technology binder component	
Oil	5	Dust suppressor	
Indicate recycled materials used in the manufacture of the product		<input type="checkbox"/> Not relevant	
Type of material	Quantity and unit	Comments	
Bottle cullet	353 grams		
Plate cullet	252 grams		
Enter the energy used in the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant	
Type of energy	Quantity and unit	Comments	
Gas	<2.3kWhr/kg		
Electricity	<1kWhr/kg		
Enter the transportation used in the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant	
Type of transportation	Proportion %	Comments	
Road	100		
Enter the emissions to air, water or soil from the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant	
Type of emission	Quantity and unit	Comments	

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Carbon Dioxide	<400g				
Ammonia	<1.5g				
Nitrogen Oxides	<0.5g				
Particles	<0.5g				
Enter the residual products from the manufacture of the product or its component parts		<input checked="" type="checkbox"/> Not relevant			
Residual product	Waste code	Quantity	Proportion recycled		Comments
			Material recycled %	Energy recycled %	
Fibre glass waste	10 11 03		100		
Is there a description of the data accuracy for the manufacturing data?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: This is available from the UK St Helens plant.		
Other information: Raw materials are melted in a furnace to form molten glass. Fibres are formed as the molten glass is forced out of holes in the side wall of a spinning disc. Binder is applied and a mat formed which is then cured in an oven at thickness.					

6 Distribution of finished product

Does the supplier put into practice a system for returning load carriers for the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the supplier put into practice any systems involving multi-use packaging for the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the supplier take back packaging for the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the supplier affiliated to REPA?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other information: The finished product is supplied in a compressed form (up to 90%) that recovers to working thickness when the packaging is removed or in the case of blowing wools when installed with a suitable machine. This increases the efficiency of transportation.			

7 Construction phase

Are there any special requirements for the product during storage?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Products should be protected from wet weather where possible.
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Other information:				

8 Usage phase

Does the product involve any special requirements for intermediate goods regarding operation and maintenance?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:		
Does the product have any special energy supply requirements for operation?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:		
Estimated technical service life for the product is to be entered according to one of the following options, a) or b):					
a) Reference service life estimated as being approx.	<input type="checkbox"/> 5 years	<input type="checkbox"/> 10 years	<input type="checkbox"/> 15 years	<input type="checkbox"/> 25 years	<input checked="" type="checkbox"/> >50 years
b) Reference service life estimated to be in the interval of	years				Comments Products will perform to specification for the life of the building.
Other information: When used in construction, Knauf Insulation materials significantly reduce the energy required to achieve thermal comfort for the buildings inhabitants. The products can also contribute to the acoustic performance of the building.					

9 Demolition

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.

Is the product ready for disassembly (taking apart)?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Materials can be lifted from the building prior to demolition. Loose wool materials can be sucked out using an appropriate machine
Does the product require any special measures to protect health and environment during demolition/disassembly?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Personal Protective Equipment should be worn in line with the safety data sheet.
Other information:				

10 Waste management

Is it possible to re-use all or parts of the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Uncontaminated material can be re-used.
Is it possible to recycle materials for all or parts of the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Uncontaminated material can be recycled.
Is it possible to recycle energy for all or parts of the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Does the supplier have any restrictions and recommendations for re-use, materials or energy recycling or waste disposal?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Enter the waste code for the supplied product 17 06 04				
Is the supplied product classed as hazardous waste?			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If the chemical composition of the product differs after having been built in from that which it had at the time of delivery, meaning that another waste code is given to the finished built in product, then this should be entered here. If it is unchanged, the following details can be omitted.				
Enter the waste code for the built in product				
Is the built in product classed as hazardous waste?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
Other information: Under Environmental Protection Agency regulation's on the landfill gives the waste generated can be landfilled in non-hazardous waste.				

11 Indoor environment

When used as intended, the product gives off the following emissions:			<input type="checkbox"/> The product does not have any emissions	
Type of emission	Quantity [$\mu\text{g}/\text{m}^2\text{h}$] or [$\text{mg}/\text{m}^3\text{h}$]		Method of measurement	Comments
	4 weeks	26 weeks		
TVOC	Eurofins certified as less than $<50\mu\text{g}/\text{m}^2\text{h}$	not in existence	The Eurofins method is based on the published standards: ISO16000-3 ISO16000-6 ISO16000-9 and ISO16000-11	KI have Eurofin certification (Indoor air comfort gold) for all our factories and for all unfaced glasswool products. Emissions are tested at 3 days and 4 weeks as per the ISO 16000

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				series relating to product emissions.
Formaldehyde	Eurofins certified as less than <math><5\mu\text{g}/\text{m}^2\text{h}</math>	not in existence	The Eurofins method is based on the published standards: ISO16000-3 ISO16000-6 ISO16000-9 and ISO16000-11	KI have certification (Indoor air comfort gold) for all out factories and for all unfaced glasswool products. Emissions are tested at 3 days and 4 weeks as per the ISO 16000 series relating to product emissions.
Can the product itself give rise to any noise?			<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Value	Unit	Method of measurement		
Can the product give rise to electrical fields?			<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Value	Unit	Method of measurement		
Can the product give rise to magnetic fields?			<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Value	Unit	Method of measurement		
Other information:				

References

MSDS – SE – Blowing-Wool-Products_EN.pdf, MSDS – SE – ECOSE-Products_EN.pdf

Appendices

The article numbers are the Knauf references for these products.

BPD 3: Product List (version 23-02-11)

Product Type	Product Name	Product Details	Article Number
Glass Mineral Wool Insulation	KNAUF PERIMETER PLUS	Loose wool for lofts and rafters	2409084
Glass Mineral Wool Insulation	KNAUF JETSTREAM 045	Loose wool for lofts	2413564
Glass Mineral Wool Insulation	ECOBATT 036	45mm(thk) x 565mm x 1160mm	2415674
Glass Mineral Wool Insulation	ECOBATT 036	70mm(thk) x 565mm x 1160mm	2415676
Glass Mineral Wool Insulation	ECOBATT 036	95mm(thk) x 565mm x 1160mm	2415678
Glass Mineral Wool Insulation	ECOBATT 036	120mm(thk) x 565mm x 1160mm	2415680
Glass Mineral Wool Insulation	ECOBATT 036	145mm(thk) x 565mm x 1160mm	2415683
Glass Mineral Wool Insulation	ECOBATT 036	170mm(thk) x 565mm x 1160mm	2415685
Glass Mineral Wool Insulation	ECOBATT 036	195mm(thk) x 565mm x 1160mm	2415687
Glass Mineral Wool Insulation	ECOBATT 036	220mm(thk) x 565mm x 1160mm	2441091
Glass Mineral Wool Insulation	ECOBATT 036	45mm(thk) x 410mm x 1160mm	2441077
Glass Mineral Wool Insulation	ECOBATT 036	70mm(thk) x 410mm x 1160mm	2441079
Glass Mineral Wool Insulation	ECOBATT 036	95mm(thk) x 410mm x 1160mm	2441081
Glass Mineral Wool Insulation	ECOBATT 036	120mm(thk) x 410mm x 1160mm	2441083
Glass Mineral Wool Insulation	ECOBATT 036	145mm(thk) x 410mm x 1160mm	2441085

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Product Type	Product Name	Product Details	Article Number
Glass Mineral Wool Insulation	ECOBATT 036	170mm(thk) x 410mm x 1160mm	2441087
Glass Mineral Wool Insulation	ECOBATT 036	195mm(thk) x 565mm x 1160mm	2441089
Glass Mineral Wool Insulation	ECOBLANKET 036	45mm(thk) x 2/565mm x 10.78m	2415608
Glass Mineral Wool Insulation	ECOBLANKET 036	70mm(thk) x 2/565mm x 7.92m	2415610
Glass Mineral Wool Insulation	ECOBLANKET 036	95mm(thk) x 2/565mm x 6.07m	2415612
Glass Mineral Wool Insulation	ECOBLANKET 036	120mm(thk) x 2/565mm x 5.13m	2415614
Glass Mineral Wool Insulation	ECOBLANKET 036	45mm(thk) x 2/565mm x 10.78m	2415608
Glass Mineral Wool Insulation	ECOBLANKET 036	145mm(thk) x 2/565mm x 4.47m	2415616
Glass Mineral Wool Insulation	ECOBLANKET 036	170mm(thk) x 2/565mm x 3.98m	2415618
Glass Mineral Wool Insulation	ECOBLANKET 036	195mm(thk) x 2/565mm x 3.59m	2415620
Glass Mineral Wool Insulation	SPACE ROLL 037	45mm(thk) x 2/565mm x 18.0m	2413705
Glass Mineral Wool Insulation	SPACE ROLL 037	70mm(thk) x 2/565mm x 11.5m	2413707
Glass Mineral Wool Insulation	SPACE ROLL 037	195mm(thk) x 2/565mm x 4.3m	2413725
Glass Mineral Wool Insulation	SPACE ROLL 039	45mm(thk) x 2/565mm x 19.84m	2411959
Glass Mineral Wool Insulation	SPACE ROLL 039	70mm(thk) x 2/565mm x 16.0m	2411961
Glass Mineral Wool Insulation	SPACE ROLL 039	95mm(thk) x 2/565mm x 11.7m	2411928
Glass Mineral Wool Insulation	SPACE ROLL 039	120mm(thk) x 2/565mm x 9.3m	2411963
Glass Mineral Wool Insulation	SPACE ROLL 039	145mm(thk) x 2/565mm x 7.4m	2411966
Glass Mineral Wool Insulation	SPACE ROLL 039	170mm(thk) x 2/565mm x 6.5m	2411969
Glass Mineral Wool Insulation	SPACE ROLL 039	195mm(thk) x 2/565mm x 5.4m	2415500
Glass Mineral Wool Insulation	SPACE SLAB 037	45mm(thk) x 565mm x 1160mm	2413734
Glass Mineral Wool Insulation	SPACE SLAB 037	70mm(thk) x 565mm x 1160mm	2413736
Glass Mineral Wool Insulation	SPACE SLAB 037	95mm(thk) x 565mm x 1160mm	2413738
Glass Mineral Wool Insulation	SPACE SLAB 037	120mm(thk) x 565mm x 1160mm	2413742
Glass Mineral Wool Insulation	SPACE SLAB 037	145mm(thk) x 565mm x 1160mm	2413745
Glass Mineral Wool Insulation	SPACE SLAB 037	170mm(thk) x 565mm x 1160mm	2413748
Glass Mineral Wool Insulation	SPACE SLAB 037	195mm(thk) x 565mm x 1160mm	2413750
Glass Mineral Wool Insulation	ECOBATT 037	30mm(thk) x 460mm x 1250mm	2441043
Glass Mineral Wool Insulation	ECOBATT 037	45mm(thk) x 460mm x 1250mm	2415561
Glass Mineral Wool Insulation	ECOBATT 037	70mm(thk) x 460mm x 1250mm	2434957
Glass Mineral Wool Insulation	ECOBATT 037	95mm(thk) x 565mm x 1160mm	2415568
Glass Mineral Wool Insulation	DREV	25mm x 2/60mm x 10.0m	2410436
Glass Mineral Wool Insulation	DREV	25mm x 2/140mm x 10.0m	2416379
Glass Mineral Wool Insulation	BYGGMATTA	45mm x 1200mm x 11m	2412668
Glass Mineral Wool Insulation	BYGGMATTA	95mm x 1200mm x 5.5m	2412665