BUILDING PRODUCT DECLARATION BPD 3

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

1 Basic data

Product identification			Document ID BPD_1.0_HRD-KR2
Product name Hilti HRD-KR2 10 Fasadplugg	Product no/ID designation All sizes		Product group ZBE
☒ New declaration ☐ Revised declaration	**In the case of a revised declaration**		
	Has the product been changed?		The change relates to
	☐ No	☐ Yes	Changed product can be identified by
Drawn up/revised on (date) 04.06.2012			Inspected without revision on (date)
Other information:			

2 Supplier information

Company name Hilti Svenska AB			Company reg. no/DUNS no 556064-7348	
Address Box 123 232 22 Arlöv, Sweden			Contact person Telephone 040 539300	
Website: www.hilti.se			E-mail info@se.hilti.com	
Does the company have an environmental management system?			☒ Yes	☐ No
The company possesses certification in compliance with	☒ ISO 9000	☒ ISO 14000	☐ Other	If "other", please specify:
Other information:				

3 Product information

Country of final manufacture Germany			If country cannot be stated, please state why	
Area of use Light Duty fastening for a huge range of applications in virtually all base materials				
Is there a Safety Data Sheet for this product?			☒ Not relevant	☐ Yes ☐ No
In accordance with the regulations of the Swedish Chemicals Agency, please state:	Classification Labelling		☒ Not relevant	
Is the product registered in BASTA?			☐ Yes	☒ No
Has the product been eco-labelled?	☐ Criteria not found	☐ Yes ☒ No	If "yes", please specify:	
Is there a Type III environmental declaration for the product?			☐ Yes	☒ No
Other information:				

4 Contents (To add a new green row, select and copy an entire empty row and paste it in)

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)**	**Classifi-cation**	**Comments**
Anchor body	Polyamide 6	15%	25038-54-4		
Anchor bolt	Stainless steel	85%	1.4567 1.4301		Weight % average for 10x80 frame

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

					anchor

Other information:

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)**	**Classifi-cation**	**Comments**

Other information:

5 Production phase

Resource utilisation and environmental impact during production of the item is reported in one of the following ways:

☐ 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".

☐ 2) All inflows and outflows from the extraction of raw materials to finished products i.e. "cradle-to-gate".

☒ 3) Other limitation. State what: cradle-to-grave

The report relates to unit of product 1 piece HRD-KR2 10x100 (42,90)	☐ Reported product	☐ The product's product group	☐ The product's production unit

Indicate **raw materials and intermediate goods** used in the manufacture of the product		☐ Not relevant
Raw material/intermediate goods	Quantity and unit	Comments
Steel	37,99	
Polymer	4,91	

Indicate **recycled materials** used in the manufacture of the product		☒ Not relevant
Type of material	Quantity and unit	Comments

Enter the **energy** used in the manufacture of the product or its component parts		☐ Not relevant
Type of energy	Quantity and unit	Comments
Energy (heat of combustion)	1,75 MJ	Raw materials
Energy reg. (heat of combustion)	$4{,}55 \cdot 10^{-2}$ MJ	Raw materials
Energy (heat of combustion)	1,09 MJ	Product manufacturing
Energy reg. (heat of combustion)	$8{,}29 \cdot 10^{-2}$ MJ	Product manufacturing

Enter the **transportation** used in the manufacture of the product or its component parts		☐ Not relevant
Type of transportation	Proportion %	Comments
Sea	78	16800km; 0,3kg
Truck	22	4716km; 0,7kg

Enter the **emissions to air, water or soil** from the manufacture of the product or its component parts		☐ Not relevant
Type of emission	Quantity and unit	Comments
Global warming potential (GWP 100years)	0,128 kg CO_2-Equiv.	Raw materials
Acidification potential (AP)	$3{,}85 \cdot 10^{-4}$ kg SO_2 Equiv.	Raw materials
Ozone depletion potential (ODP, catalytic)	$8{,}05 \cdot 10^{-10}$ kg R11 Equiv.	Raw materials
Photochemical Ozone creation pot. (POCP)	$5{,}37 \cdot 10^{-5}$ kg Ethen-Equiv.	Raw materials
Global warming potential	0,056 kg CO_2-Equiv.	Product manufacturing

(GWP 100years)		
Acidification potential (AP)	$4{,}44 \cdot 10^{-4}$ kg SO_2 Equiv.	Product manufacturing
Ozone depletion potential (ODP, catalytic)	$1{,}40 \cdot 10^{-8}$ kg R_{11} Equiv.	Product manufacturing
Photochemical Ozone creation pot. (POCP)	$2{,}22 \cdot 10^{-5}$ kg Ethen-Equiv.	Product manufacturing

Enter the **residual products** from the manufacture of the product or its component parts ☐ Not relevant

Residual product	Waste code	Quantity	Proportion recycled: Material recycled %	Proportion recycled: Energy recycled %	Comments
Dangereous waste		$1{,}63 \cdot 10^{-3}$ kg			Raw materials
Inert waste		$4{,}44 \cdot 10^{-1}$ kg			Raw materials
Radioactive waste		$8{,}05 \cdot 10^{-6}$ kg			Raw materials
Nonhazardous waste		$1{,}28 \cdot 10^{-3}$ kg			Raw materials
Dangereous waste		0 kg			Product manufacturing
Inert waste		$2{,}11 \cdot 10^{-1}$ kg			Product manufacturing
Radioactive waste		$1{,}75 \cdot 10^{-4}$ kg			Product manufacturing
Nonhazardous waste		$9{,}69 \cdot 10^{-5}$ kg			Product manufacturing

Is there a description of the data accuracy for the manufacturing data?	☒ Yes	☐ No	If "yes", please specify: Details see "PCF – Mechanical Anchor Group 3"
Other information:			

6 Distribution of finished product

Does the supplier put into practice a system for returning load carriers for the product?	☐ Not relevant	☐ Yes	☒ No
Does the supplier put into practice any systems involving multi-use packaging for the product?	☐ Not relevant	☐ Yes	☒ No
Does the supplier take back packaging for the product?	☐ Not relevant	☐ Yes	☒ No
Is the supplier affiliated to REPA?	☐ Not relevant	☒ Yes	☐ No
Other information:			

7 Construction phase

Are there any special requirements for the product during storage?	☐ Not relevant	☐ Yes	☒ No	If "yes", please specify:
Are there any special requirements for adjacent building products because of this product?	☐ Not relevant	☐ Yes	☒ No	If "yes", please specify:
Other information:				

8 Usage phase

Does the product involve any special requirements for intermediate goods regarding operation and maintenance?			☐ Yes	☒ No	If "yes", please specify:	
Does the product have any special energy supply requirements for operation?			☐ Yes	☒ 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.	☐ 5 years	☐ 10 years	☐ 15 years	☐ 25 years	☒ >50 years	Comments
b) Reference service life estimated to be in the interval of years						
Other information:						

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9 Demolition

Is the product ready for disassembly (taking apart)?	☐ Not relevant	☒ Yes	☐ No	If "yes", please specify: Anchor can be removed completely
Does the product require any special measures to protect health and environment during demolition/disassembly?	☐ Not relevant	☐ Yes	☐ No	If "yes", please specify:
Other information:				

10 Waste management

Is it possible to re-use all or parts of the product?	☐ Not relevant	☒ Yes	☐ No	If "yes", please specify: Anchor bolt could be reused
Is it possible to recycle materials for all or parts of the product?	☐ Not relevant	☒ Yes	☐ No	If "yes", please specify: All materials can be fully recycled
Is it possible to recycle energy for all or parts of the product?	☐ Not relevant	☒ Yes	☐ No	If "yes", please specify: Anchor body can be recycled to engergy
Does the supplier have any restrictions and recommendations for re-use, materials or energy recycling or waste disposal?	☐ Not relevant	☐ Yes	☒ No	If "yes", please specify:
Enter the waste code for the **supplied** product 17 04 05, 17 02 03				
Is the **supplied** product classed as hazardous waste?			☐ Yes	☒ 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?			☐ Yes	☐ No
Other information:				

11 Indoor environment (To add a new green row, select and copy an entire empty row and paste it in)

When used as intended, the product gives off the following emissions:	☒ The product does not have any emissions

Type of emission	Quantity [µg/m²h] or [mg/m³h]		Method of measurement	Comments
	4 weeks	26 weeks		

Can the product itself give rise to any noise?		☒ Not relevant	☐ Yes	☐ No
Value	Unit	Method of measurement		
Can the product give rise to electrical fields?		☒ Not relevant	☐ Yes	☐ No
Value	Unit	Method of measurement		
Can the product give rise to magnetic fields?		☒ Not relevant	☐ Yes	☐ No
Value	Unit	Method of measurement		
Other information:				

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

References

Appendices