



BUILDING PRODUCT DECLARATION BPD 3

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

1 Basic data

Product identification		Document ID BPD_2.0_HVU-TZ
Product name Hilti HVU-TZ Kemiskt ankare	Product no/ID designation All Sizes	Product group 01799/ZSE
<input type="checkbox"/> New declaration <input checked="" type="checkbox"/> Revised declaration	In the case of a revised declaration	
	Has the product been changed?	The change relates to
	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Changed product can be identified by
Drawn up/revised on (date) 12.02.2015		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?		<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 Germany	If country cannot be stated, please state why		
Area of use Heavy duty fastenings in cracked concrete and for dynamic loading			
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 Xi, R 36, R43 Labelling Xi; R36,R43 S3, S26 contains: methacrylic acid, monoester with propane-1,2-diol dibenzoyl peroxide	<input type="checkbox"/> Not relevant	
Is the product registered in BASTA?		<input type="checkbox"/> Yes	<input checked="" 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 type="checkbox"/> 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)	Classification	Comments
Methacrylateresin mixture		2,5-10		Xi; R 36-	confidential

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

				43	
Dibenzoylperoxide		1-2	94-36-0	E; R3 R7 Xi; R36 R43	
Dicyclohexylphthalate		1-2	84-61-7	Xi, R36/37/ 38	
Quartz (SiO ₂) or Corundum (Al ₂ O ₃)		60-75	14808-60-7 or 1344-28-1		
Polyethylene-composite foil		4-5	Not available		

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
Cured chemical anchor	Quartz or Corundum	60-75%			
	Polyethylen- composite foil	4-5%			
	Dicyclohexyl- phthalate	1-2%			
	Cured Poly- methacrylate resin	16-32%			

Other information:

5 Production phase

Resource utilisation and environmental impact during production of the item is reported in one of the following ways:			
<input 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 checked="" 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 1 kg	<input checked="" 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	
Aluminium	2		
Polymer	32		
Paper	120		
Chemical Components	846		
Indicate recycled materials used in the manufacture of the product			<input checked="" type="checkbox"/> Not relevant
Type of material	Quantity and unit	Comments	
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	
Energy (heat of combustion)	50,69 MJ	Raw materials	

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Energy reg. (heat of combustion)	1,92 MJ	Raw materials			
Energy (heat of combustion)	3,78 MJ	Product manufacturing			
Energy reg. (heat of combustion)	0,11 MJ	Product manufacturing			
Enter the transportation used in the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant			
Type of transportation	Proportion %	Comments			
Sea	78	16800 km; 0,3 kg			
Truck	22	4716 km; 0,7 kg			
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			
Air pollution	0,01 kg	Raw materials			
Water pollution	$4,90 \cdot 10^{-3}$ kg	Raw materials			
Air pollution	$1,89 \cdot 10^{-4}$ kg	Product manufacturing			
Water pollution	$1,30 \cdot 10^{-4}$ kg	Product manufacturing			
Enter the residual products from the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant			
Residual product	Waste code	Quantity	Proportion recycled		Comments
			Material recycled %	Energy recycled %	
Disposed waste		0,13 kg			Raw materials
Dangereous waste		0,01 kg			Raw materials
Inert waste		0,10 kg			Raw materials
Radioactive waste		$9,84 \cdot 10^{-5}$ kg			Raw materials
Nonhazardous waste		$2,05 \cdot 10^{-3}$ kg			Raw materials
Disposed waste		0,73 kg			Product manufacturing
Dangereous waste		$2,5 \cdot 10^{-3}$ kg			Product manufacturing
Inert waste		0,73 kg			Product manufacturing
Radioactive waste		$2,96 \cdot 10^{-4}$ kg			Product manufacturing
Nonhazardous waste		$1,07 \cdot 10^{-7}$ kg			Product manufacturing
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: Life Cycle Assessment Report - HILTI HVU-TZ		
Other information:					

6 Distribution of finished product

Does the supplier put into practice a system for returning load carriers for the product?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Does the supplier put into practice any systems involving multi-use packaging for the product?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Does the supplier take back packaging for the product?	<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the supplier affiliated to REPA?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Other information:			

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: cool, dry, dark between 5°C - 25°C
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: base material temp. -5°C - +40°C during installation
Other information:				

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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	Comments
b) Reference service life estimated to be in the interval of	years					
Other information:						

9 Demolition

Is the product ready for disassembly (taking apart)?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
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: Use dust protection during demolition of cured chemical anchor
Other information: Cured chemical anchor behaves like concrete base material in terms of dust formation during demolition				

10 Waste management

Is it possible to re-use all or parts of the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:	
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: Outer packaging (cardboard) and IFU (paper) 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 08 04 10					
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 17 01 01					
Is the built in product classed as hazardous waste?				<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other information: No packaging waste of product remains after installation. Foil remains in borehole due to unique foil capsule design.					

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:			<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	< 0,0055		Chamber method	Method complies

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	mg/m3			to AgBB/DIBt protocol; no 26 weeks measurement required
VVOC	< 0,005 mg/m3		Chamber method	see TVOC
SVOC	< 0,005 mg/m3		Chamber method	see TVOC
Carcinogens	< 0,001 mg/m3		Chamber method	see TVOC
Formaldehyde	< 0,003 mg/m3		Chamber method	see TVOC
Acetaldehyde	< 0,003 mg/m3		Chamber method	see TVOC
C ₃ -C ₆ Aldehydes	< 0,003 mg/m3		Chamber method	see TVOC
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

Appendices