



## BUILDING PRODUCT DECLARATION BPD 3

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

### 1 Basic data

<b>Product identification</b>		Document ID BPD_1.0_HRD-PR2
Product name Hilti HRD-PR2 10 Fasadplugg	Product no/ID designation All sizes	Product group ZBE
<input checked="" type="checkbox"/> New declaration <input type="checkbox"/> Revised declaration	<b>In the case of a revised declaration</b>	
	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) 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?		<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    Light Duty fastening for a huge range of applications in virtually all base materials			
Is there a Safety Data Sheet for this product?		<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
In accordance with the regulations of the Swedish Chemicals Agency, please state:	Classification Labelling		<input checked="" 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 checked="" 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
Anchor body	Polyamide 6	15%	25038-54-4		
Anchor bolt	Stainless steel	85%	1.4567		Weight % average for 10x80 frame

*Data in fields highlighted in green are requirements 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 <b>finished built in product</b> 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

<b>Resource utilisation and environmental impact during production of the item is reported in one of the following ways:</b>			
<input type="checkbox"/> 1) Inflows (goods, intermediate goods, energy etc) for the registered product into the <b>manufacturing unit</b> , 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 checked="" type="checkbox"/> 3) Other limitation. State what: <b>cradle-to-grave</b>			
The report relates to unit of product 1 piece HRD-PR2 10x80 (37,58g)	<input type="checkbox"/> Reported product	<input type="checkbox"/> The product's product group	<input type="checkbox"/> The product's production unit
Indicate <b>raw materials and intermediate goods</b> used in the manufacture of the product			<input type="checkbox"/> Not relevant
Raw material/intermediate goods	Quantity and unit	Comments	
Steel	33,43		
Polymer	4,15		
Indicate <b>recycled materials</b> used in the manufacture of the product			<input checked="" type="checkbox"/> Not relevant
Type of material	Quantity and unit	Comments	
Enter the <b>energy</b> 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)	1,53 MJ	Raw materials	
Energy reg. (heat of combustion)	$3,99 \cdot 10^{-2}$ MJ	Raw materials	
Energy (heat of combustion)	0,951 MJ	Product manufacturing	
Energy reg. (heat of combustion)	$7,26 \cdot 10^{-2}$ MJ	Product manufacturing	
Enter the <b>transportation</b> used in the manufacture of the product or its component parts			<input type="checkbox"/> Not relevant
Type of transportation	Proportion %	Comments	
Sea	78	16800km; 0,3kg	
Truck	22	4716km; 0,7kg	
Enter the <b>emissions to air, water or soil</b> from the manufacture of the product or its component parts			<input type="checkbox"/> Not relevant
Type of emission	Quantity and unit	Comments	
Global warming potential (GWP 100years)	0,112 kg CO <sub>2</sub> -Equiv.	Raw materials	
Acidification potential (AP)	$3,37 \cdot 10^{-4}$ kg SO <sub>2</sub> Equiv.	Raw materials	
Ozone depletion potential (ODP, catalytic)	$7,06 \cdot 10^{-10}$ kg R11 Equiv.	Raw materials	
Photochemical Ozone creation pot. (POCP)	$4,70 \cdot 10^{-5}$ kg Ethen-Equiv.	Raw materials	
Global warming potential	0,049 kg CO <sub>2</sub> -Equiv.	Product manufacturing	

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(GWP 100years)					
Acidification potential (AP)	3,89·10 <sup>-4</sup> kg SO <sub>2</sub> Equiv.	Product manufacturing			
Ozone depletion potential (ODP, catalytic)	1,23·10 <sup>-8</sup> kg R <sub>11</sub> Equiv.	Product manufacturing			
Photochemical Ozone creation pot. (POCP)	1,94·10 <sup>-5</sup> kg Ethen-Equiv.	Product manufacturing			
Enter the <b>residual products</b> 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 %	
Dangereous waste		1,43·10 <sup>-3</sup> kg			Raw materials
Inert waste		3,89·10 <sup>-1</sup> kg			Raw materials
Radioactive waste		7,06·10 <sup>-6</sup> kg			Raw materials
Nonhazardous waste		1,12·10 <sup>-3</sup> kg			Raw materials
Dangereous waste		0 kg			Product manufacturing
Inert waste		1,84·10 <sup>-1</sup> kg			Product manufacturing
Radioactive waste		1,53·10 <sup>-4</sup> kg			Product manufacturing
Nonhazardous waste		8,49·10 <sup>-5</sup> 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: 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?	<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 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
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	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)?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> 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?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify:
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: Anchor bolt could be reused
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: All materials can be fully recycled
Is it possible to recycle energy 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: Anchor body can be recycled to energy
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 <b>supplied</b> product 17 04 05, 17 02 03				
Is the <b>supplied</b> 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 <b>built in</b> product, then this should be entered here. If it is unchanged, the following details can be omitted.				
Enter the waste code for the <b>built in</b> product				
Is the <b>built in</b> product classed as hazardous waste?			<input type="checkbox"/> Yes	<input type="checkbox"/> 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:		<input checked="" 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		
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:				

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**References**

**Appendices**