

## Byggvarubedömningen's guideline and information requirements for assessment of product, Version 2016-1.

*These guidelines describe what information that Byggvarubedömningen requires for assessment of articles and chemical products. Information about the article or chemical product can be provided in this document, alternatively refer to another documentation in which the corresponding information is given.*

### 1. Product information

#### Product

Product name:	Mosa ceramic wall tiles	
Article No.:	All Mosa Cradle to Cradle certified ceramic wall tiles.	
<i>Specify the type of number, for example RSK, E number, EAN, GTIN or supplier's article number. This should also be stated on the application.</i>		
Product description:	Glazed, dry-pressed ceramic wall tiles, with white body, in accordance with EN 14411 BIII, with a water absorption > 10%, not frost resistant, manufactured using a double-firing process. The glazed wall tile collection is divided into various series. Cradle to Cradle (C2C) Silver V3 certified.	
<i>On application, please attach a product data sheet or similar documentation.</i>		
Type of product:	<input type="checkbox"/> Chemical product	<input checked="" type="checkbox"/> Article
Date (year, month, day) of preparation/revision:	2017, November 27 <sup>th</sup>	

#### Supplier/Manufacturer

Supplier:	Koninklijke Mosa BV	
Manufacturer if other than the supplier:	n.a.	
<i>Voluntary information</i>		
Contact person:	D. H. van der Weele	
Address:	Meerssenerweg 358, 6224 AL Maastricht, The Netherlands	
E-mail:	Dorien.van.der.weele@mosa.nl	
Phone number:	+31 43 368 9444	

#### Supporting documentation

Has a declaration of performance, in line with the Swedish Construction Products Regulation, been prepared for the product?	<input checked="" type="checkbox"/> Yes, see enclosed BPD3 declaration	<input type="checkbox"/> No
<i>If yes, attach the declaration of performance with the application</i>		
Is the article/product an electronic product and covered by the RoHS-directive (2011/65/EU)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If yes, attach an "EU Declaration of Conformity", or alternatively another certificate that attests that the product corresponds to the requirements according to the RoHS-directive (2011/65/EU), together with the application</i>		
If the article/product is an electronic product that is covered by an exemption according to RoHS-directive (2011/65/EU), specify which exemption and date (year, month, day) when the exemption expires if time-limited:	Exemptions according to RoHS: n.a.  Date:	

## 2. Declaration of contents:

Does the product or any of its subcomponents, if it is a composite product, contain substances with particularly hazardous properties (Substances of Very High Concern, SVHC-substances), which are included in the Candidate List at a concentration above 0.1 weight%?	<input type="checkbox"/>	X No
<i>If yes, specify which substances in Table 1.</i>		
State the date (year, month, day) for control the Candidate List.	Date: July 2017	
The concentration is calculated at component level established on the principle "once a product, always a product".		
The Candidate List is available at: <a href="http://echa.europa.eu/sv/candidate-list-table">http://echa.europa.eu/sv/candidate-list-table</a> .		

Specify the total content of the article or the chemical product, **on delivery**, in Table 1, or alternatively attach other documentation that provides the corresponding information. For instructions, please refer to the "Declaration of contents, BVB's declaration requirements, 2016-1", which is found at the end of this document.

Table 1, Contents of included substances and material (declaration of content in accordance with requirements)

Included substances and material	EG No./CAS No. (alternatively alloy)	Weight% (of entire product)	When applicable, state for which subcomponent	Weight% (of substance in subcomponent)	Comments (state eventual application of non-harmonized classifications)
quartz	14808-60-7	50			
kaolin clay	1332-58-7	18			
Calcium carbonate	471-34-1 and 14808-60-7	11			
Silica, cristoballite	14464-46-1	10			
Feldspar	68476-25-5	10			
Frits, glazes, pigments	mixture	1			safety verified through C2C assessment (Gold level)

Are all substances reported in percentages down to 0.01% in Table 1? (enable assessment with regard to the Recommended level)	<input type="checkbox"/> Yes	X No
<i>If not</i> , does the report fulfill the instructions for the Accepted level, which is described in "Declaration of contents, BVB's declaration requirements, 2016-1", which is found at the end of this document	X Yes	<input type="checkbox"/> No
If any deviations from BVB's reporting requirements exist, specify these in the comments in Table 1, or alternatively here.	Other comments: Products are C2C Silver V3.1 certified with a Gold score for material health. To achieve this the substances have been assessed down to 0,01% (see enclosed Certificate and/or <a href="http://www.c2ccertified.org/products/scorecard/wall_tiles">http://www.c2ccertified.org/products/scorecard/wall_tiles</a> )	

Is the chemical composition different, for the product when applied (cured product) compared to the content at delivery? (applies to chemical products)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, specify the content of the cured product in Table 2.		

Table 2, Contents for applied products (full content in accordance with declaration requirements)

Included substances and material	EG No./CAS No.	Weight% (of the applied product)	Comments (state any application of non-harmonized classifications)

If any deviations from BVB's reporting requirements exist, specify these in the comments in Table 2, or alternatively here.	Other comments:
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Nanomaterial

Does the product contain any nanomaterial that has been purposefully added to achieve a specific function?  <i>Information regarding whether nanomaterial has been added to achieve a specific function must be stated, but has no impact on the assessment.</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If yes, specify the material.</i>	Material: n.a.	

### 3. Recycled raw material

Does the product contain recycled material?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>If yes, specify in Table 3.</i>		

If the product consists of recycled materials specify the material and the percentages of the total weight of the product, in Table 3, *Recycled materials*.

Table 3, *Recycled material*

Material	Percentage (%) of the total product's weight	Percentage (%) of the recycled material that has not reached the consumer level, such as production waste, etc. (pre-consumer)	Percentage (%) of the recycled material that has reached the consumer level (post-consumer)	Comments
Production scrap	6	6		
Quartz, silica/cristoballite	16	16		

If wood raw material is included

Can the product be ordered with sustainability certificates for the wood raw material? <i>E.g.: FSC and PEFC</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Explain if the certificate does not cover all of the wood raw material:		
<i>If yes, attach a certificate/assurance that the product can be ordered with a sustainability certificate together with the application.</i>		
<i>If no, state the country where the wood raw material was harvested.</i>	Country of harvest:	
Is the wood species or origin in the CITES appendix for endangered species?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

### 4. The production phase

Has an Environmental Product Declaration (EPD) been prepared?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>If yes, enclose the EPD (Environmental Product Declaration) or other environmental product declaration together with the application.</i>		
Has an active choice been made, regarding the electricity supplier, in order to promote electricity production from renewable energy sources?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Describe the type of energy source, percentage of energy stemming from the renewable source, how long the agreement has been applied, electricity supplier, and for which part of the production it is valid for: 100% renewable electricity sourcing for		

complete production since 2008 (hydropower, see attached certificate)

### 5. Distribution of the completed product

Describe the management of packaging for the distribution of the product  <i>State whether any system for taking back or recycling packaging or any other specific return system is used.</i>  <i>Specify the packaging material used and which system of producer responsibility for packaging the supplier is affiliated to.</i>  <i>Enter the proportion of recycled material, if any, included in the packaging.</i>	Description of the packaging: -Cardboard packaging; 100% recycled paper, member of Interseroh -Transparent plastic pallet cover without prints; plastic is suitable for recovery and recycling -Pallets; Mosa is participant of the Europallet system
Other information:	

### 6. Construction and usage phase

Are there any special requirements such as storage conditions etc. for the product during storage?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
<i>If yes, describe:</i>			
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
<i>If yes, describe:</i>			
Are there any operating/care instructions for the product?	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No
<i>If yes, attach the documentation with the application. <a href="https://www.mosa.com/en/services/download-centre/installation-and-cleaning-advice">https://www.mosa.com/en/services/download-centre/installation-and-cleaning-advice</a></i>			
Is the product energy labelled in accordance with the Energy Labelling Directive (2010/30/EU)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not relevant
<i>If yes, state class (G to A, A+, A++, A+++):</i>	Class:		

## 7. Waste management

Does the product require special measures to protect health and the environment in conjunction with demolition/dismantling?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If yes, describe:</i>		
Is the product covered by the WEEE-directive 2012/19/EU (Swedish ordinance (2014:1075) on Producer Responsibility for electrical and electronic products when it becomes waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is it possible to re-use all or parts of the product? (can the product be reused within the product's expected lifetime)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>If yes, describe: A clean tile could be reused as a tile (this is dependent on the fixing method) or can be grinded to serve as raw material for new ceramic tiles.</i>		
Is material recycling possible for all or parts of the product when it becomes waste?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>If yes, describe: According to the European PCR the lifecycle of ceramic tiles is 50 years. In reality the technical lifecycle is longer. After the lifecycle the tiles can be grinded and reused as raw material for new ceramic products or, when the material is 'polluted' with adhesive, cement, concrete, gypsum etc., it can be reused as filler in road construction projects.</i>		
Is energy recycling possible for all or parts of the product when it becomes waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the supplier have any restrictions and recommendations for reuse, material- or energy recycling or disposal?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If yes, specify which: In the Cradle to Cradle system the tiles are defined as "designed for the technocycle but safe for the biocycle".</i>		
When the supplied product becomes waste, is it classified as hazardous waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If yes, specify the waste code:</i> The Swedish waste ordinance (2011:927) <a href="https://www.notisum.se/mp/sls/lag/20110927.htm">https://www.notisum.se/mp/sls/lag/20110927.htm</a>	Waste code:	

## 8. Indoor environment

Has the product a critical moisture condition: <i>Information regarding whether critical moisture conditions leading to microbial growth apply for the material/product should be stated, but will not impact the assessment.</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If yes, specify which:</i>		
Is the article (or chemical product) intended for indoor use?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>If yes, has emission data been produced for volatile organic compounds?</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>If yes, attach the report/certificate together with the application. See motivation below and attached document</i>		
<i>If no, is there any motivation for why emission data for volatile organic compounds is not relevant for the product?</i>	Motivation: Ceramic tiles are an inherently non-emitting source and are classified as A+ according to articles R221-22 to R221-28 of the French code de l'Environnement (see attached document "CET guidance on VOC French regulations").	

## Certificate of substance content and concentrations version. 4.0

This certificate is required for the Recommended assessment level for chemical contents. This page should be printed to be signed and uploaded separately in PDF-format in connection with the application.

### Certificate of declaration of substance content

For the products specified below, with their stated article numbers, the following is certified: Choose whether to certify alternative A or B.	
<b>A</b> <input checked="" type="checkbox"/>	It is hereby certified that concentrations of the included substances <b>down to 0.01 weight%</b> have been reported, and that cadmium and mercury do not occur in the product.  or:  The substances included are reported in line with the instructions for the Declaration of Contents, BVB's reporting requirements 2016-1, and correspond to the reporting requirements for the <b>Recommended</b> level.
<b>B</b> <input type="checkbox"/>	It is hereby certified that concentrations of the included substances <b>down to 0.1 weight%</b> have been reported, and that cadmium and mercury do not occur in the product.  or:  The substances included are reported in line with the instructions for the Declaration of Contents, BVB's reporting requirements 2016-1, and correspond to the reporting requirements for the <b>Accepted</b> level.
For the products specified below, with their stated article numbers, the following is certified: Choose whether to certify alternative C or D.	
<b>C</b> <input checked="" type="checkbox"/>	It is hereby certified that the specified product/s do not contain specifically indicated substances and groups of substances in accordance with Table 4, Specifically indicated substances. These have not been added during production and have not been formed through reactions between the substances in the product.
<b>D</b> <input type="checkbox"/>	Unfortunately, we have to notify that the specified products contain specifically indicated substances in accordance with Table 4, Specifically indicated substances. Some of these substances have been added or been formed during reaction between the substances in the product, please see the Declaration of Contents.

Table 4, Specifically indicated substances

Substance group/Substance	Examples of properties
1. Arsenic and its compounds <sup>1</sup>	Toxic, Environmentally hazardous
2. Brominated flame retardants	Potentially PBT/vPvB, PBT/vPvB
3. PFOA (perfluorooctanoic acid)	Persistent, bioaccumulative, probable reproductive toxicity
4. PFOS (perfluorooctanesulfonates)	Potentially PBT/vPvB, PBT/vPvB
5. Organotin compounds	Potentially PBT/vPvB, PBT/vPvB, Toxic, Environmentally hazardous
6. Biocidal product applied on products (surface treatments) to provide a disinfectant or anti-bacterial effect.	Toxic, Environmentally hazardous

Product identification: (designation and article number)	Mosa Cradle to Cradle certified ceramic wall tiles
State the reference document (name and version/date) that contains the actual Declaration of Contents:	Ref. Cradle to Cradle V3.1 certificate
Person responsible for the declaration:	D. H. van der Weele, Manager Sustainability
Signature:	
Place and date (year, month, day):	Maastricht, Netherlands, 2017-11-27

<sup>1</sup> Arsenic, or arsenic compounds, are not permitted to be added to the product. Contamination of used raw materials is not permitted to exceed 10 mg/kg. The concentration limit is set based on regulatory requirements for soil quality to ensure that accepted products do not raise background concentrations through their use or disposal (for example; sludge from sewage treatment works Swedish Ordinance 1998:944, Section 20). The same concentration limits are found in the Swedish Environmental Protection Agency's general guidelines for less sensitive land use (MKM).