

Building product declaration 2015

according to BPD associations' standardised format eBVD2015

2019-08-01 09:27:21

CASA R2 Smart

1. BASIC DATA

Document data

Id:

C-SE556077846501-76

Version:

1

Created:

2019-04-02 05:49:00

Last saved:

2019-08-01 09:27:03

Changes relates to:

CASA R2 Smart

Article name:

CASA R2 Smart

Article No/ID concept

Article identity: VAT-ID

SE556077846501-R02VL04S00H, SE556077846501-R02VL07S00H, SE556077846501-R02VR04S00H, SE556077846501-R02VR07S00H

Product group/Product group classification

Product group system	Product group id
BSAB96	Q

Article description:

Ventilation unit with a rotaty heat exchanger.

Declarations of performance:

Not applicable

Declaration of performance number:

Other information:

Swegon

Company name:

Swegon

Organisation number:

556077-8465

Address:

Asessorinkatu 10

Contact person:

Lars Norrdal

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+358500850727

VAT number:

SE556077846501

Website:

http://www.swegon.com

GLN:

DUNS:

Environmental certification system

BREEAM

BREEAM-SE

LEED 2009

LEED version 4

Miljöbyggnad (Swedish certifica

2. SUSTAINABILITY WORK

Company's certification

ISO 9001

ISO 14001

Other:

Policies and guidelines

The company has a code of conduct/policy/guidelines for dealing with social responsibility in the supplier chain, including produces for ensuring the requirements

This is third-party audited

If yes, which if the following guidelines have you affiliated to or management system you have implemented

UN guiding principles for companies and human rights

ILO's eight core conventions

OECD Guidelines for Multinational Enterprises

UN Global Compact

ISO 26000

Other policy guidelines

Management system

If you have a management system for corporate social responsibility, what out of the following is included in the work?

Mapping

Risk analysis

Action plan

Monitoring

Sustainability reporting guidelines:

3. DECLARATION OF CONTENTS

Chemical content

Enter chemical content for the whole article. The concentration is calculated at component level according to the principle of "once an article always an article".

Is there a safety data sheet for the article?

Is there classification of the article?

Not applicable

Enter which version of the candidate list has been used (Year, month, day)

The article is covered by the RoHS Directive:

Yes

Enter how large a proportion of the material content has been declared [%]:

100

If the article contains nanomaterials deliberately added to obtain a particular function, enter these here:

Is the article registered in Basta?

No

Other information:

Not applicable

For complex products, the concentration of included substances has been calculated at:

whole construction product

Enter the weight of the article:

46.5 kg

Enter the proportion of volatile organic substances [g/litre], applies only to sealants, paints, varnishes and adhesives:

Article and/or sub-components

Phase	Delivery
Component	Cables
Weight% of product=1.33	

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Cu	25<x<35	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	1<x<2.5	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
	Polyamid PA6.6	2.5<x<5	25038-54-4	<input type="checkbox"/>	<input type="checkbox"/>
	PVC	65<x<70	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>
	Sn	0<x<1	7440-31-5	<input type="checkbox"/>	<input type="checkbox"/>

Component	Circuit card	Weight% of product=1.08
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Comment Printed circuit board, glass-reinforced epoxy laminate material.

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Cu	=8.9	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	Silver	=0.095	7440-22-4	<input type="checkbox"/>	<input type="checkbox"/>
	TBBP-A	=0.41	79-94-7	<input type="checkbox"/>	<input type="checkbox"/>
	Tin	=0.0059	7440-31-5	<input type="checkbox"/>	<input type="checkbox"/>

FR-4

=0.367

Component	Condense insulation	Weight% of product=1.08			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
Acrylate		=22.9		<input type="checkbox"/>	<input type="checkbox"/>
PUR		=77.1		<input type="checkbox"/>	<input type="checkbox"/>

Component	Electrical fans	Weight% of product=4.95			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al	=7.8	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Cu	=8.9	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=35.6	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
	Glass fibre	=5.3	6599-17-3	<input type="checkbox"/>	<input type="checkbox"/>
	PA6.6	=9.2	25038-54-4	<input type="checkbox"/>	<input type="checkbox"/>
	Sr ferrit	=6.6	12023-91-5	<input type="checkbox"/>	<input type="checkbox"/>
Epoxy resin		=11.6		<input type="checkbox"/>	<input type="checkbox"/>
Other		=2		<input type="checkbox"/>	<input type="checkbox"/>
Plastic		=13		<input type="checkbox"/>	<input type="checkbox"/>

Component	Filters	Weight% of product=0.56			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Glass fibre	=40	65997-17-3	<input type="checkbox"/>	<input type="checkbox"/>
	PE	=0.2	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
Adhesive		=2		<input type="checkbox"/>	<input type="checkbox"/>

Hot setting adhesive	=57	<input type="checkbox"/>	<input type="checkbox"/>
Paper	=0.8	<input type="checkbox"/>	<input type="checkbox"/>

Component	Gear box	Weight% of product=0.8
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al	=18	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=71	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
Grease		=1.2		<input type="checkbox"/>	<input type="checkbox"/>
Metal		=5		<input type="checkbox"/>	<input type="checkbox"/>
Plastic		=4.8		<input type="checkbox"/>	<input type="checkbox"/>

Component	Heat exchanger, rotor	Weight% of product=5.91
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al	=99	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=1	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>

Component	Insulation	Weight% of product=13.3
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
Staple fiber		<2		<input type="checkbox"/>	<input type="checkbox"/>
Stone wool		95<x<99		<input type="checkbox"/>	<input type="checkbox"/>
Stone wool	Bakelite	1<x<5	9003-35-4	<input type="checkbox"/>	<input type="checkbox"/>
Stone wool	Mineral oil	0.1<x<0.5	8012-95-1	<input type="checkbox"/>	<input type="checkbox"/>
Stone wool	Mineral wool	95<x<99	65997-17-3	<input type="checkbox"/>	<input type="checkbox"/>

Component	Post-heater	Weight% of product=1.03			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Steatite	=0.5	63210-56-0	<input type="checkbox"/>	<input type="checkbox"/>
Silver solder		=0.1		<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel, SAE 304		=99.4		<input type="checkbox"/>	<input type="checkbox"/>

Component	Rotor motor	Weight% of product=1.43			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al	=16.1	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Cu	=10.2	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	EPDM	=0.7	25038-36-2	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=66.6	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
	PVC	=4	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>
Grease		=2.4		<input type="checkbox"/>	<input type="checkbox"/>

Component	Seals	Weight% of product=1.24			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	EPDM	=24	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
	PA6.6	=51	25038-54-4	<input type="checkbox"/>	<input type="checkbox"/>
	PU	=5	9009-54-5	<input type="checkbox"/>	<input type="checkbox"/>
	PVC	=20	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>

Component	Steel and metal parts	Weight% of product=68.06			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
Aluzink		1<x<2		<input type="checkbox"/>	<input type="checkbox"/>
Aluzink	Al	=55	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
Aluzink	Si	=1.5	7440-21-3	<input type="checkbox"/>	<input type="checkbox"/>
Aluzink	Zn	=43	7440-66-6	<input type="checkbox"/>	<input type="checkbox"/>
Paint		<0.5		<input type="checkbox"/>	<input type="checkbox"/>
Paint	PE	=0.5	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal		>98		<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal	C	<0.2	7440-44-0	<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal	Fe	>98	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal	Mn	<0.8	7439-96-5	<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal	Si	<0.4	7440-21-3	<input type="checkbox"/>	<input type="checkbox"/>

Phase Mounted

Component Cables **Weight% of product=1.33**

Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Cu	25<x<35	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	PVC	65<x<70	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>

Component Circuit card **Weight% of product=1.08**

Comment Printed circuit board, glass-reinforced epoxy laminate material.

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Cu	=8.9	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	Silver	=0.095	7440-22-4	<input type="checkbox"/>	<input type="checkbox"/>
	TBBP-A	=0.41	79-94-7	<input type="checkbox"/>	<input type="checkbox"/>
	Tin	=0.0059	7440-31-5	<input type="checkbox"/>	<input type="checkbox"/>

FR-4

=0.367

Component	Condense insulation	Weight% of product=1.08			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
Acrylate		=22.9		<input type="checkbox"/>	<input type="checkbox"/>
PUR		=77.1		<input type="checkbox"/>	<input type="checkbox"/>

Component	Electrical fans	Weight% of product=4.95			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al	=7.8	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Cu	=8.9	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=35.6	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
	Glass fibre	=5.3	6599-17-3	<input type="checkbox"/>	<input type="checkbox"/>
	PA6.6	=9.2	25038-54-4	<input type="checkbox"/>	<input type="checkbox"/>
	Sr ferrit	=6.6	12023-91-5	<input type="checkbox"/>	<input type="checkbox"/>
Epoxy resin		=11.6		<input type="checkbox"/>	<input type="checkbox"/>
Other		=2		<input type="checkbox"/>	<input type="checkbox"/>
Plastic		=13		<input type="checkbox"/>	<input type="checkbox"/>

Component	Filters	Weight% of product=0.56			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Glass fibre	=40	65997-17-3	<input type="checkbox"/>	<input type="checkbox"/>
	PE	=0.2	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
Adhesive		=2		<input type="checkbox"/>	<input type="checkbox"/>

Hot setting adhesive	=57	<input type="checkbox"/>	<input type="checkbox"/>
Paper	=0.8	<input type="checkbox"/>	<input type="checkbox"/>

Component	Gear box	Weight% of product=0.8
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al	=18	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=71	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
Grease		=1.2		<input type="checkbox"/>	<input type="checkbox"/>
Metal		=5		<input type="checkbox"/>	<input type="checkbox"/>
Plastic		=4.8		<input type="checkbox"/>	<input type="checkbox"/>

Component	Heat exchanger, rotor	Weight% of product=5.91
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al	=99	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=1	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>

Component	Insulation	Weight% of product=13.3
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
Staple fiber		<2		<input type="checkbox"/>	<input type="checkbox"/>
Stone wool		95<x<99		<input type="checkbox"/>	<input type="checkbox"/>
Stone wool	Bakelite	1<x<5	9003-35-4	<input type="checkbox"/>	<input type="checkbox"/>
Stone wool	Mineral oil	0.1<x<0.5	8012-95-1	<input type="checkbox"/>	<input type="checkbox"/>
Stone wool	Mineral wool	95<x<99	65997-17-3	<input type="checkbox"/>	<input type="checkbox"/>

Component	Post-heater	Weight% of product=1.03			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Steatite	=0.5	63210-56-0	<input type="checkbox"/>	<input type="checkbox"/>
Silver solder		=0.1		<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel, SAE 304		=99.4		<input type="checkbox"/>	<input type="checkbox"/>

Component	Rotor motor	Weight% of product=1.43			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al	=16.1	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Cu	=10.2	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	EPDM	=0.7	25038-36-2	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=66.6	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
	PVC	=4	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>
Grease		=2.4		<input type="checkbox"/>	<input type="checkbox"/>

Component	Seals	Weight% of product=1.24			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	EPDM	=24	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
	PA6.6	=51	25038-54-4	<input type="checkbox"/>	<input type="checkbox"/>
	PU	=5	9009-54-5	<input type="checkbox"/>	<input type="checkbox"/>
	PVC	=20	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>

Component	Steel and metal parts	Weight% of product=68.06			
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Comment

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
Aluzink		1<x<2		<input type="checkbox"/>	<input type="checkbox"/>
Aluzink	Al	=55	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
Aluzink	Si	=1.5	7440-21-3	<input type="checkbox"/>	<input type="checkbox"/>
Aluzink	Zn	=43	7440-66-6	<input type="checkbox"/>	<input type="checkbox"/>
Paint		<0.5		<input type="checkbox"/>	<input type="checkbox"/>
Paint	PE	=0.5	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal		>98		<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal	C	<0.2	7440-44-0	<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal	Fe	>98	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal	Mn	<0.8	7439-96-5	<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal	Si	<0.4	7440-21-3	<input type="checkbox"/>	<input type="checkbox"/>

4. RAW MATERIALS

Raw materials

Total recycled material in the article

Is recycled material included in the article?

Renewable material

Enter proportion of renewable material in the article (short cycle, less than 10 years):

Enter proportion of renewable material in the article (long cycle, more than 10 years):

Included biobased raw material is tested according to ASTM test method D6866:

Is there supporting documentation for the raw materials for third-party certified system for control of origin, raw material extraction, manufacturing or recycling processes or similar (for example BES 6001:2008, EMS certificate, USGBC Program)? If yes, enter system(s):

Wood raw materials

Wood raw materials are included

Included wood raw material is certified

How large a proportion is certified [%]?

What certification system has been used (for example FSC, CSA, SFI with CoC, PEFC)?

Reference number:

Enter logging country for the wood raw material and that following criteria have been met. Country of logging:

Does not contain type of wood or origin in CITES appendix of endangered species

The timber has been logged legally and there is certification for this

5. ENVIRONMENTAL IMPACT

Environmental impact during life cycle of the article, production phase module A1-A3 under EN

Has environmental product declaration been drawn up according to EN 15804 or ISO 14025 for the article?

These product-specific rules, known as PCR, have been applied:

Registration number / ID number for EPD:

Climate impact (GWP100) [kg CO₂-eq]:

Ozone depletion (ODP) [kg CFC 11-eq]:

Acidification (AP) [kg SO₂-eq]:

Ground-level ozone (POCP) [kg ethene-eq]:

Eutrophication (EP) [kg (PO₄)-3-eq]:

Renewable energy [MJ]:

Non-renewable energy [MJ]:

If calculation has been made in Green Guide, enter which rating:

If there is environmental product declaration or other life cycle assessment, describe how the environmental impact of the article is taken into account from a life cycle perspective:

6. DISTRIBUTION

Distribution of finished article

Does the supplier use Retursystem Byggpall?

Not applicable

Does the supplier take back packaging for the article?

Not applicable

If yes, which packaging and which system?

corresponding package recycling system in Finland, PYR

Other information:

Does the supplier apply any system with multiple-use packaging for the article?

Not applicable

Is the supplier affiliated to a system for product responsibility for packaging?

Yes

7. CONSTRUCTION PHASE

Construction phase

Does the article make special requirements in storage?

Not applicable

Specify

Does the article make special requirements for surrounding building products?

Not applicable

Specify

Other information:

8. USE PHASE

Use phase

Does the article make requirements for input materials for operation and maintenance?

Yes

Specify:

See Instructions for installation, use , maintenance and recycling

Does the article require supply of energy during operation?

Yes

Specify:

Connection power requirement specified in installation manual.

Estimated technical service life for the article:

25 years

Comment:

Annual filter change and normal cleaning required. The reference life span is valid in "normal use" according to the product sheet which is valid during de

Is there energy labelling under the Energy Labelling Directive (2010/30/EU) for the article?

Yes

If yes, enter labelling (G to A, A+, A++, A+++):

A

Other information:

9. DEMOLITION

Demolition

Is the article prepared for disassembly (dismantling)?

Yes

Specify:

Materials can be taken apart with screw, etc. Separate recycling information available in Swegon web page, www.swegon.com.

Does the article require special measures for protection of health and environment in demolition/disassembly?

Yes

Specify:

According to WEEE waste regulations.

Other information:

10. WASTE MANAGEMENT

Delivered article

Is the supplied article covered by the Ordinance (2014:1075) on producer responsibility for electrical and electronic products when it becomes waste?

Yes

Is reuse possible for the whole or parts of the article when it becomes waste?

Yes

Specify:

Specific parts as metals are reusable.

Is material recovery possible for the whole or parts of the article when it becomes waste?

Yes

Specify:

Metals, electronic parts and mineral wool are the recyclable materials.

Is energy recovery possible for the whole or parts of the article when it becomes waste?

Yes

Specify:

Plastics.

Does the supplier have restrictions and recommendation for re-use, material or energy recovery or landfilling?

No

Specify:

Waste code for the delivered article when it becomes waste

12 - Avfall från formning samt fysikalisk och mekanisk ytbehandling av metaller och plaster

200136 - 36 Annan kasserad elektrisk och elektronisk utrustning än den som anges i 20 01 21, 20 01 23 och 20 01 35.

When the supplied article becomes waste, is it classified as hazardous waste?

No

Mounted article

Is the mounted article classified as hazardous waste?

No

Other information

11. INDOOR ENVIRONMENT

Indoor environment

- The article is not intended for indoor use
- The article does not produce any emissions
- Emissions from the article not measured

Does the article have a critical moisture state?

No

If yes, state what:

Noise

Electrical field

Magnetic fields

Can the article give rise to own noise?

Can the article give rise to electrical fields?

Can the article give rise to magnetic fields?

Not applicable

Not applicable

Not applicable

Value:

Value:

Value:

Unit:

Unit:

Unit:

Measuring method:

Measuring method:

Measuring method:

Paints and varnishes

- The article is resistant to fungi and algae in use in wet areas

Emissions

The article produces the following emissions in intended use:

Other information