

# Building product declaration 2015

according to BPD associations' standardised format eBVD2015

2020-01-08 12:35:42

CASA R7 Smart

## 1. BASIC DATA

### Document data

Id:

C-SE556077846501-109

Version:

2

Created:

2020-01-08 11:41:18

Last saved:

2020-01-08 12:35:38

Changes relates to:

Amount of the metals corrected.

### CASA R7 Smart

Article name:

CASA R7 Smart

### Article No/ID concept

Article identity: VAT-ID

SE556077846501-R07VL00S00H, SE556077846501-R07VL14S00H

### 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

E-mail:

Telephone:

lars.norrdal@swegon.com

+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:

100 kg

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

### Article and/or sub-components

<b>Phase</b>	Delivery
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<b>Component</b>	Cables	<b>Weight% of product=1.13</b>
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**Comment** PVC: plasticizer/flameretardent used is Trimellitic Acid, CAS no. 528-44-9

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<3	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"/>

<b>Component</b>	Circuit card	<b>Weight% of product=0.5</b>
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**Comment**

<b>Component</b>	Condense insulation	<b>Weight% of product=0.11</b>
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**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Carbon black	0.5<x<0.7	1333-86-4	<input type="checkbox"/>	<input type="checkbox"/>
	PE	95<x<97.9	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
Misc.		1.8<x<4.1		<input type="checkbox"/>	<input type="checkbox"/>

<b>Component</b>	Condense insulation tape	<b>Weight% of product&lt;0.1</b>
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**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Rosin	18.2<x<20.2	91081-53-7	<input type="checkbox"/>	<input type="checkbox"/>
Misc.		5.2<x<6.8		<input type="checkbox"/>	<input type="checkbox"/>
PAKC		65.3<x<67.3		<input type="checkbox"/>	<input type="checkbox"/>
PET		8<x<9		<input type="checkbox"/>	<input type="checkbox"/>

**Component** Electrical fans **Weight% of product=4.45**

**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al, A380	=7.9	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Cu	=8.8	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=36.1	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
	Fe oxide	=0.2	1332-37-2	<input type="checkbox"/>	<input type="checkbox"/>
	Glass fibre	=5.3	6599-17-3	<input type="checkbox"/>	<input type="checkbox"/>
	Mg	=0.3	7439-96-5	<input type="checkbox"/>	<input type="checkbox"/>
	PA6	=9.3	25038-54-4	<input type="checkbox"/>	<input type="checkbox"/>
	PA6.6	=2.2	32131-17-2	<input type="checkbox"/>	<input type="checkbox"/>
	PE-C	=3.3	64754-90-1	<input type="checkbox"/>	<input type="checkbox"/>
	PVC	=4.6	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>
	Comment: PVC: no plasticizer/flameretardent is used.				
	Si	=1.4	7440-21-3	<input type="checkbox"/>	<input type="checkbox"/>
	Sn	=0.3	7440-31-5	<input type="checkbox"/>	<input type="checkbox"/>
	Sr ferrit	=6.7	12023-91-5	<input type="checkbox"/>	<input type="checkbox"/>
	Zn	=0.3	7440-66-6	<input type="checkbox"/>	<input type="checkbox"/>
Epoxy resin		=11.3		<input type="checkbox"/>	<input type="checkbox"/>

**Component** Filters **Weight% of product=0.95**

**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"/>

**Component** Heat exchanger, rotor **Weight% of product=11.55**

**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Fe	=1	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
Al, 1050-H19		<30		<input type="checkbox"/>	<input type="checkbox"/>
Al, 1200-H19		<70		<input type="checkbox"/>	<input type="checkbox"/>

**Component** Insulation **Weight% of product=8.25****Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
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=0.63****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=1.33****Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al, A380	=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"/>
	PVC	=4	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>
	Steel, S45C	=66.6	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
Grease		=2.4		<input type="checkbox"/>	<input type="checkbox"/>

**Component** Seals **Weight% of product0.5<x<1.5****Comment** PVC: plasticizer/flameretardent used is Trimellitic Acid, CAS no. 528-44-9

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"/>

Comment: PVC: plasticizer/flameretardent used is Trimellitic Acid, CAS no. 528-44-9

**Component** Steel and metal parts **Weight% of product67<x<69.5****Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
Aluzink, DX51D+AZ150		1<x<2		<input type="checkbox"/>	<input type="checkbox"/>
Aluzink, DX51D+AZ150	PE	<0.5	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
Paint		<0.5		<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal, DX51D+Z275		94.5<x<97		<input type="checkbox"/>	<input type="checkbox"/>

**Phase** Mounted

**Component** Cables **Weight% of product=1.13**

**Comment** PVC: plasticizer/flameretardent used is Trimellitic Acid, CAS no. 528-44-9

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"/>

Comment: PVC: plasticizer/flameretardent used is Trimellitic Acid, CAS no. 528-44-9

**Component** Circuit card **Weight% of product=0.5**

**Comment**

**Component** Condense insulation **Weight% of product=0.11**

**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Carbon black	0.5<x<0.7	1333-86-4	<input type="checkbox"/>	<input type="checkbox"/>
	PE	95<x<97.9	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
Misc.		1.8<x<4.1		<input type="checkbox"/>	<input type="checkbox"/>

**Component** Condense insulation tape **Weight% of product<0.1**

**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Rosin	18.2<x<20.2	91081-53-7	<input type="checkbox"/>	<input type="checkbox"/>
Misc.		5.2<x<6.8		<input type="checkbox"/>	<input type="checkbox"/>
PAKC		65.3<x<67.3		<input type="checkbox"/>	<input type="checkbox"/>
PET		8<x<9		<input type="checkbox"/>	<input type="checkbox"/>

**Component** Electrical fans **Weight% of product=4.45**

**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al, A380	=7.9	7429-90-5	<input type="checkbox"/>	<input type="checkbox"/>
	Cu	=8.8	7440-50-8	<input type="checkbox"/>	<input type="checkbox"/>
	Fe	=36.1	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>

Fe oxide	=0.2	1332-37-2	<input type="checkbox"/>	<input type="checkbox"/>
Glass fibre	=5.3	6599-17-3	<input type="checkbox"/>	<input type="checkbox"/>
Mg	=0.3	7439-96-5	<input type="checkbox"/>	<input type="checkbox"/>
PA6	=9.3	25038-54-4	<input type="checkbox"/>	<input type="checkbox"/>
PA6.6	=2.2	32131-17-2	<input type="checkbox"/>	<input type="checkbox"/>
PE-C	=3.3	64754-90-1	<input type="checkbox"/>	<input type="checkbox"/>
PVC	=4.6	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>
Comment: PVC: no plasticizer/flameretardent is used.				
Si	=1.4	7440-21-3	<input type="checkbox"/>	<input type="checkbox"/>
Sn	=0.3	7440-31-5	<input type="checkbox"/>	<input type="checkbox"/>
Sr ferrit	=6.7	12023-91-5	<input type="checkbox"/>	<input type="checkbox"/>
Zn	=0.3	7440-66-6	<input type="checkbox"/>	<input type="checkbox"/>
Epoxy resin	=11.3		<input type="checkbox"/>	<input type="checkbox"/>

<b>Component</b>	Filters	<b>Weight% of product=0.95</b>
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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"/>

<b>Component</b>	Heat exchanger, rotor	<b>Weight% of product=11.55</b>
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**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Fe	=1	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
Al, 1050-H19		<30		<input type="checkbox"/>	<input type="checkbox"/>
Al, 1200-H19		<70		<input type="checkbox"/>	<input type="checkbox"/>

<b>Component</b>	Insulation	<b>Weight% of product=8.25</b>
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**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
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"/>

<b>Component</b>	Post-heater	<b>Weight% of product=0.63</b>
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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=1.33**

**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
	Al, A380	=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"/>
	PVC	=4	9002-86-2	<input type="checkbox"/>	<input type="checkbox"/>
	Steel, S45C	=66.6	7439-89-6	<input type="checkbox"/>	<input type="checkbox"/>
Grease		=2.4		<input type="checkbox"/>	<input type="checkbox"/>

**Component** Seals **Weight% of product0.5<x<1.5**

**Comment** PVC: plasticizer/flameretardent used is Trimellitic Acid, CAS no. 528-44-9

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"/>

Comment: PVC: plasticizer/flameretardent used is Trimellitic Acid, CAS no. 528-44-9

**Component** Steel and metal parts **Weight% of product67<x<69.5**

**Comment**

Material	Substance	Concentration interval (%)	EG/CAS/Alternative designation	Candidate list	Phasing-out substance
Aluzink, DX51D+AZ150		1<x<2		<input type="checkbox"/>	<input type="checkbox"/>
Aluzink, DX51D+AZ150	PE	<0.5	9002-88-4	<input type="checkbox"/>	<input type="checkbox"/>
Sheet metal, DX51D+Z275		94.5<x<97		<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 CO<sub>2</sub>-eq]:

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

Acidification (AP) [kg SO<sub>2</sub>-eq]:

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

Eutrophication (EP) [kg (PO<sub>4</sub>)-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?

Product is packed to cardboard box. 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](http://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

Can the article give rise to own noise?

Not applicable

Value:

Unit:

Measuring method:

### Electrical field

Can the article give rise to electrical fields?

Not applicable

Value:

Unit:

Measuring method:

### Magnetic fields

Can the article give rise to magnetic fields?

Not applicable

Value:

Unit:

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