

# Product



## Photovoltaic (PV) framed module

Published 2024-01-19

Solar module used as a component for PV system

BVB ID	173126	Type of product	Article/product
BSAB code	SHD - Solkraftverk	Type of use	Utomhus
BK04 code	20010 Solfångarsystem	Supplier	SoliTek Cells



Total  
Accepted



Contents: Electronics  
Accepted



Contents: Other  
Accepted



Lifecycle  
Accepted



BREEAM® SE

# Product data

## Content reporting

Total weight of product: 24,000g

### The product includes the following listings



Utfasningsämne



SIN



Potentiell PBT/vPvB



Riskminskningsämne

## Contents: Other

	Component/Substance	Quantity/vol in the component	Quantity/vol in the product	CAS	EC	Alloy	H-indication / Listings	Self-classification
▼	<b>Back glass</b>	-	39.38	-	-	-	-	-

↳ Järn(III)oxid synonym C.I. Pigment Brown 7, C.I. Pigment Red 102, C.I. Pigment Red 101 eller järnglimmer	0,0975 ≤ x x ≤ 0,1025 % x ≤ 0,04036 4500000 000005 %	0,03839 5500000 000006 ≤ x x ≤ 0,04036 4500000 000005 %	1309-37-215-168- 1 2 - - -	- - -	- -
↳ Magnesiumoxid (MgO), Calcinec magnesia, Magnesium oxide, E 530	3,9 ≤ x ≤ 4,1% x ≤ 1,61458 0000000 0001%	1,53582 0000000 0002 ≤ x x ≤ 1,61458 0000000 0001%	1309-48-215-171- 4 9 - - -	- -	- -
↳ Dipotassium oxide	0,0292 ≤ x x ≤ 0,0308 %	0,01149 896 ≤ x ≤ 0,01212 9040000 000002 %	12136-235-227- 45-7 6 - -	- -	- -
↳ Natriumoxid	13,4843 ≤ x x ≤ 14,1758 %	5,31011 7340000 001 ≤ x ≤ 5,58243 0040000 001%	1313-59-215-208- 3 9 - -	- -	- -
↳ Aluminiumtrioxid Aluminiumoxid	1,4625 ≤ x x ≤ 1,5375 %	0,57593 2500000 0001 ≤ x ≤ 0,60546 75%	1344-28-215-691- 1 6 - -	- -	- -
↳ Kiseldioxid synonym diatomitjord, kiselgur, amorf kiselsyra, C.I. 77811, E 551	72,15 ≤ x ≤ 75,85% x ≤ 29,8697 3%	28,4126 7000000 0006 ≤ x ≤ 29,8697 3%	7631-86-231-545- 9 4 - -	- -	- -

↳ Kalciumoxid 9,75 ≤ x 3,83955 1305-78-215-138-  
 synonym lime ≤10,25% 0000000 8 9 - - -  
 0005 ≤ x  
 ≤4,03645  
 %

∨ **Front glass** - 39.38 - - - - -

↳ Kalciumoxid synonym lime	8,6775≤ x ≤9,1225 %	3,41719 9500000 0006≤ x ≤3,59244 0500000 0004%	1305-78-215-138- 8 9 - - -
↳ Aluminiumtrioxid Aluminiumoxid	0,4875≤ x ≤0,5125 %	0,19197 7500000 00002≤ x ≤0,20182 2500000 00002%	1344-28-215-691- 1 6 - - -
↳ Svaveltrioxid	0,2243≤ x ≤0,2358 %	0,08832 934≤ x ≤0,09285 8040000 00002%	7446-11- 09 - - -
↳ Natriumoxid	12,9675≤ x ≤13,6325 %	5,10660 15≤ x ≤5,36847 8500000 001%	1313-59-215-208- 3 9 - - -
↳ Järn(III)oxid synonym C.I. Pigment Brown 7, C.I. Pigment Red 102, C.I. Pigment Red 101 eller järnglimmer	0,0098≤ x ≤0,0103 %	0,00385 9240000 0000003 ≤ x ≤0,00405 6140000 000001 %	1309-37-215-168- 1 2 - - -
↳ Kiseldioxid synonym diatomitjord, kiselgur, amorf kiselsyra, C.I. 77811, E 551	70,395≤ x ≤74,005 %	27,7215 51≤ x ≤29,1431 69%	7631-86-231-545- 9 4 - - -

↳	Magnesiumoxid (MgO), Calcined magnesia, Magnesium oxide, E 530	$4,29 \leq x \leq 4,51\%$	1,68940 $2 \leq x \leq 1,77603$ 8%	1309-48-215-171-4	9	-	-	-
↳	Dipotassium oxide	$0,2925 \leq x \leq 0,3075\%$	0,11518 6500000 $00001 \leq x \leq 0,12109$ 35%	12136-45-7	235-227-6	-	-	-
∨	<b>Junction box</b>	-	0.35	-	-	-	-	-
↳	Koppar	$\leq 10\%$	$\leq 0,0349999999999996\%$	7440-50-8	231-159-6	-	-	-
∨	<b>POE encapsulant film</b>	-	3.82	-	-	-	-	-

↳ 6,6'-di-tert-butyl-4,4'-diethyl-2,2-methylenediphosphoroxid	$1 \leq x \leq 5,2632$	$0,0382 \leq x \leq 0,20105$							
CAS-nr: 88-24-4		424%							
↳ Ethylene-1-octene copolymer	95%	3,629%	26221-73-8	Saknas	-	-	-	-	-
↳ bis(α,α-dimethylbenzylperoxide)	$\leq 0,1\%$	$\leq 0,00382\%$	80-43-3	201-279-3	-	-	-	-	-
									H242 H315 H319 H360D H411
									<b>Potentiell PBT/vPv B Riskminskningsämne SIN Utfasningsämne</b>
↳ Titanium, (butylphosphate, ethyl alcohol, isopropyl alcohol) complexes,	$1 \leq x \leq 5\%$	$0,0382 \leq x \leq 0,191\%$							
CAS-nr: 109037-78-7									



### Aluminium frames

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↳ Magnesium	$0,11151 \leq x \leq 0,1728$ %	$0,11151 \leq x \leq 0,1728$ %	7439-95-4	231-104-6	-	H250 H260	-
↳ Kisel	$0,07434 \leq x \leq 0,1152$ %	$0,07434 \leq x \leq 0,1152$ %	7440-21-3	231-130-8	-	-	-
↳ Järn	$0,04336 \leq x \leq 0,0672$ %	$0,04336 \leq x \leq 0,0672$ %	7439-89-6	231-096-4	-	-	-
↳ Koppar	$0,01239 \leq x \leq 0,0192$ %	$0,01239 \leq x \leq 0,0192$ %	7440-50-8	231-159-6	-	-	-
↳ Krom, Chromium metal	$0,01239 \leq x \leq 0,0192$ %	$0,01239 \leq x \leq 0,0192$ %	7440-47-3	231-157-5	-	-	-
↳ Mangan	$0,01239 \leq x \leq 0,0192$ %	$0,01239 \leq x \leq 0,0192$ %	7439-96-5	231-105-1	-	-	-
↳ Titanium	$0,0124 \leq x \leq 0,0192$ %	$0,0124 \leq x \leq 0,0192$ %	7440-32-6	231-142-3	-	-	-
↳ Zink (Metallisk zink i legering)	$0,01239 \leq x \leq 0,0192$ %	$0,01239 \leq x \leq 0,0192$ %	7440-66-6	231-175-3	-	-	-
↳ Aluminiumlege- EN AW-6063, P 0%	$12,3157 \leq x \leq 19\%$	$12,3157 \leq x \leq 19\%$	Övrigt, metaller		-	EN AW- 6063, Al Mg0,7Si	-

## Contents: Electronics 3.71%



Component/Substance	Quantity/vol in the produ	CAS	EC	Alloy	H-indication / Listings	Self- classification
▼ <b>Copper ribbons</b>	0.88	-	-	-	-	-
↳ Bly	0,038720 00000000 0004%	7439-92-1	231-100-4-	-	H360FD H362	- <b>Begränsningslista (REACH XVII) Kandidatämne (Repr.) Pb SIN Utfasningsämne</b>
↳ Koppar	0,821920 00000000 01%	7440-50-8	231-159-6-	-	-	-
↳ Tenn	0,05808%	7440-31-5	231-141-8-	-	-	-
▼ <b>Solar cell</b>	2.8	-	-	-	-	-
↳ Kisel	2,687999 99999999 97%	7440-21-3	231-130-8-	-	-	-
↳ Silver	0,023239 99999999 9997%	7440-22-4	231-131-3-	-	-	-
↳ Aluminium (fast)	0,078399 99999999 998%	7429-90-5	231-072-3-	-	-	-
↳ Trisilicon tetranitride	0,00056%	12033-89-5	234-796-8-	-	-	-
↳ Aluminiumtrioxid Aluminiumoxid	2,8E-06%	1344-28-1	215-691-6-	-	-	-





## The product includes the following listings Pb

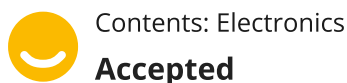
-  Utfasningsämne
-  Kandidatämne (Repr.)
-  SIN
-  Begränsningslistan (REACH XVII)

## Assessment





### 0. Declaration of Contents

-  Supplier Certificate of Substance Content and Concentrations corresponding to assessment against level Accepted for each property criterion
-  Reproductive toxic agent, Category 1A or 1B (H360): < 0.03% (rec) of individual substance(s) is reported but a supplier Certificate of Substance Content and Concentrations is missing
-  Potential PBT and vPvB substances: = 0.1% (rec) of individual substance(s) is reported but a supplier Certificate of Substance Content and Concentrations is missing
-  Environmentally hazardous substance (H411): = 2.5% of the substance(s), is reported



### E. Electronics

-  Reconciliation against the candidate list has been made for electronics, RoHS certificate for the product is available and weight by % breakdown of electronics vs. Other substances/components. Assessment against Accepted.
-  Specifically designated substances and substance groups: Contains brominated flame retardants, does not fulfil the requirements for "recommended"



Lifecycle

**Accepted****1. Constituent materials and raw materials**

&lt;50% renewable raw materials



Recycled material content &lt;50%

**2. Manufacture/production of the article**

Data on emissions during production is not available.



Data on energy consumption is not available.

**3. Packaging**

The packaging can be recycled or energy recovered from it.

**5. Refuse and demolition**

Reutilisation/reuse is possible for =70% of the product.



Material recovery and recycling is possible for =70% of the product.



The product does not give rise to hazardous waste during use/building construction.



End-of-service-life products or parts of the item must be treated as electronic waste.

## Sustainable supply chains

Has your company or organisation relevant certificates regarding Social Responsibility?

**Yes , ISO 14001, ISO 9001, C2C, gold**

Has your company or organisation a written Policy or a Code of Conduct dealing with Social Responsibility in Supply Chain?

**Yes**

What is included in the policy/Code of Conduct?

**Arbetsrättslagstiftning, Arbetsmiljö, Miljö,**

Is the policy/Code of Conduct made available to employees and distributed in the product's supply chain?

**Yes**

Is someone in your company's management team appointed responsible for work and routines regarding Social Responsibility?

**Yes**

Is there a procedure developed to follow up the product's supply chain with regard to Sustainable Supply Chains?

**Yes**

What is included in the procedure?

**Kartläggning - av produktens leverantörskedja, Riskanalys - identifiering av risker i produktens leverantörskedja, Handlingsplan - hur identifierade risker ska hanteras, Uppföljning - av identifierade risker samt av varans leverantörer/underleverantörer, Avvikelsehantering - hur avvikelser ska hanteras**



## Articles

Name	Article number	GTIN/EAN	RSK	E-number
<b>SOLID Solrif B.60 xxx; (xxx=315 to 380 in step of 5W)</b>	SOLID Solrif B.60 x...	-	-	-
<b>BLACKSTAR B.60 xxx; (xxx=315 to 380 in step of 5W)</b>	BLACKSTAR B.60 x...	-	-	-
<b>SOLID Framed B.60 xxx; (xxx=315 to 380 in step of 5W)</b>	SOLID Framed B.6...	-	-	-
<b>SOLID Solrif B.108 xxx; (xxx=370 to 445 in step of 5W)</b>	SOLID Solrif B.108 ...	-	-	-
<b>BLACKSTAR B.108 xxx; (xxx=370 to 445 in step of 5W)</b>	BLACKSTAR B.108 ...	-	-	-

## Documentation

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## Documentation used as the basis for assessment






Name	File size	Created
 <b>Produktbild</b>	884.75 kB	2023-11-27
 <b>Byggvarudeklara...</b>	72.81 kB	2024-01-18

## Other documents

Name	File size	Created
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No documents

## Operation and maintenance related documents

Name	File size	Created
 <b>Tekniskt datablad</b>	2.23 MB	2023-11-28
 <b>Tekniskt datablad</b>	2.22 MB	2023-11-28
 <b>Tekniskt datablad</b>	1.89 MB	2023-11-28
 <b>Tekniskt datablad</b>	396.4 kB	2023-11-28
 <b>Tekniskt datablad</b>	1.93 MB	2023-11-28

**Tekniskt datablad** 990.15 kB

2023-11-28

**Tekniskt datablad** 603.53 kB

2023-11-28

**Monteringsanvis...** 1.61 MB

2023-11-28

**Monteringsanvis...** 1.61 MB

2023-11-28

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## Sustainable supply chains

Name

File size

Created

No documents

## Certifications

### Miljöbyggnad



4.0

Ind 15

The BSAB code is not encompassed within MB! (Product has documentation equivalent to an e-BVD, which corresponds to the GOLD level in MB 3.0).

**3.0 / 3.1 / 3.2****Ind 13**

The BSAB code is not encompassed within MB! (Product has documentation equivalent to an e-BVD, which corresponds to the GOLD level in MB 3.0).

**Ind 14**

The BSAB code is not encompassed within MB, but the product does not contain any phase-out or risk reduction substances, which is equivalent to GOLD. Note! Emissions are not taken into consideration!

**2.1 / 2.2****Ind 14**

The BSAB code is not encompassed within MB, but the product has a public and full BVD3, which is equivalent to GOLD

**Ind 15**

The BSAB code is not encompassed within MB. The product does not contain any phase-out substances according to KEMI's definition above the classification limits, which corresponds to the GOLD standard.

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**BREEAM-SE****BREEAM® SE****2017 v.1.1****Mat07**

Product does not contain any phase-out substances (according to KEMI's definition and EDS Cat1/ Cat2) above the classification limits (2p.)- Installation product

**2013 v.2.0****Mat08**

The BSAB code is not encompassed within BREEAM, but the product does not contain any phase-out substances above the classification limits.