

SOLID Framed



A

	Article	Manufacturer / Supplier		
Brand:	Solitek	Name:	Solitek	
Name:	SOLID Framed	FTI recycling	system: -	
Description	: Solar module. Bifacial is an advanced double-	EMAS registra	ation: -	
	sided solar panel that converts sunlight into electrical energy on both - its top and bottom -	ISO 14001 cer	tification: -	
	sides. This is made possible with the help of double-sided solar cells and protective tempered	REPA-registe	-	
	glass on both sides of the panel – top and bottom			

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Article no.:

BSAB code: SHD - Solcellsaggregat

BK04: 20010 - Solar collector systems

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Conditions: Documentation complete, product assessment possible

Assessment: A
Assessment explanation: A

Note:

	During the manufacturing phase	In the finished product
Phase-out substances:	Yes (U)	Yes U
Priority risk-reduction substances:	Yes (R)	Yes R
PBT/vPvB substances:	-	-
Potential PBT/vPvB substances:	-	-
Endocrine Disrupting Substances Category 1:	Yes (H1)	-
Endocrine Disrupting Substances Category 2:	-	-
Environmentally hostile substances:	Yes (¥)	Yes ¥
Substances hazardous to health:	Yes 描	-

Substances hazardous to health present in the product in the Resagn appliasaw materials:

Other eco-labelling: Nanoparticles: n No

Energy class:

Reported documentation						
Туре	Issue	Check	Status			
Internal Document *1	2022-10-13	2022-10-13	Manual			
Internal Document *1	2022-09-13	2022-10-13	Manual			
Internal Document *1	2021-02-25	2022-10-12	Manual			
Installation instructions	2022-06-01	2022-09-12	Historical			
▼ Technical data sheet	2022-08-01	2022-09-09	Manual			
SundaHus declaration		2022-10-13	Manual			
	2020-06-16	2022-09-15	Manual			

	Contents		
Name:	CAS no.	Amount	Classifications
aluminium alloy EN AW 6063 T5		12.39 %	
aluminum	7429-90-5	12.31566 %	



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		Contents		
Name:		CAS no.	Amount	Classifications
iron		7439-89-6	0.043365 %	
silicon		7440-21-3	0.07434 %	
Copper		§ 7440-50-8	0.01239 %	
chromium	R	7440-47-3	0.01239 %	H317, H410, H413
magnesium		7439-95-4	0.11151 %	
manganese		7439-96-5	0.01239 %	
titanium		7440-32-6	0.01239 %	
zinc		7440-66-6	0.01239 %	
back glass			39.38 %	
(aluminum oxide)		1344-28-1	0.5907 %	
(CaO)		1305-78-8	3.938 %	H302, H314, H315, H318, H335
(iron oxide)		1309-37-1	0.03938 %	
(K2O)		12136-45- 7	0.011814 %	H314, H318
(Silicon dioxide)		7631-86-9	29.1412 %	
(MgO)		1309-48-4	1.5752 %	
(Na2O)		1313-59-3	5.446254 %	H314
Front glass			39.38 %	
(aluminum oxide)		1344-28-1	0.1969 %	
(CaO)		1305-78-8	3.50482 %	H302, H314, H315, H318, H335
(iron oxide)		1309-37-1	0.003938 %	
(K2O)		12136-45- 7	0.11814 %	H314, H318
(Silicon dioxide)		7631-86-9	28.43236 %	
(MgO)		1309-48-4	1.73272 %	
(Na2O)		1313-59-3	5.23754 %	H314
(sulphur trioxide)	R	7446-11-9	0.090574 %	H314, H318, H330, H335, H351, H411, EUH014
junction box "Worst Case" substance			0.35 %	
connector "Worst Case" substance			0.10059 %	
Copper		§ 7440-50-8	0.0291711 %	
PA6-plastic "Worst Case" substance			0.0714189 %	
phosphite-based stabilizer for PA, PP, PC, ABS, PS (tris(2,4-di-tert-butyl phenyl) phosphite) "Worst Case" substance		31570-04- 4	<0.000714189 %	
benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (antioxidant)		6683-19-8	<0.000714189 %	H302, H315, H412
nylon 6 polymer		25038-54- 4	>0.04285134 %	
(hexanoic acid, 6-amino-)		60-32-2	>0.04285134 %	H315, H319, H335
talc		14807-96- 6	0.02856756 %	
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	R	3147-75-9	<0.000714189 %	H302, H312, H332, H410
brass H62			0.050295 %	



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		Contents		
ne:		CAS no.	Amount	Classifications
antimony	R	7440-36-0	0.0000025147 5 %	H302, H332, H351, H411
lead	U	7439-92-1	0.000040236	H360FD, H362
(phosphorus)		7723-14-0	0.0000050295	H228, H412
iron		7439-89-6	0.0000754425	
Copper		§ 7440-50-8	0.031937325	
bismuth		7440-69-9	0.0000010059	
PE/PS plastic "Worst Case" substance			0.17605 %	
phosphite-based stabilizer for PA, PP, PC, ABS, PS (tris(2,4-di-tert-butyl phenyl) phosphite)		31570-04- 4	0.0017605 %	
unspecified antioxidant for PS and PUR		2082-79-3	0.0017605 %	
phenol, 2,6-dimethyl-, homopolymer		25134-01- 4		
(phenol, 2,6-dimethyl-)		576-26-1		H301, H311, H314, H411
Pigment "Worst Case" substance			0.0088025 %	
iron oxide		1317-61-9		
carbon black		1333-86-4		
titanium oxide	R	13463-67- 7	<0.003521 %	
polystyrene polymer		9003-53-6		
(styrene)	U H1	100-42-5		H226, H315, H319, H332, H361d H372
olar LED "Worst Case" substance			0.018865 %	
epoxy plastic				
(Bisphenol A)	U	80-05-7		H317, H318, H335, H360F, H400 H410
((chloromethyl)-oxirane)	U H1	106-89-8		H226, H301, H311, H314, H317, H331, H350
tin plated copper				
Copper		§ 7440-50-8		
tin		7440-31-5		
silicon		7440-21-3	<0.018865 %	
le with PEX(XLPE) insulation			0.66 %	
opper		§ 7440-50-8	0.33 %	
EX plastic "Worst Case" substance			0.33 %	
stearyl-3,5-bis(tert-butyl)-4- hydroxyphenylpropionate "Worst Case" substance		2082-79-3	0.00165 %	
(carbon black)		1333-86-4		
peroxide, bis(1,1-dimethylethyl)	R	110-05-4	0.00165 %	H225, H242, H341
phosphite-based stabilizer for PA, PP, PC, ABS, PS (tris(2,4-di-tert-butyl phenyl) phosphite) "Worst Case" substance		31570-04- 4	<0.0033 %	
organic pigment				
polyethylene polymer		9002-88-4		
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		Contents		
Name:		CAS no.	Amount	Classifications
(ethene)		74-85-1		H220, H336
(silane)				
titanium oxide	R	13463-67- 7		
copper ribbons			0.88 %	
lead	U	7439-92-1	0.03872 %	H360FD, H362
Copper		§ 7440-50-8	0.82192 %	
tin		7440-31-5	0.05808 %	
(sealant/adhesive MS-polymer) "Worst Case" substance			0.34 %	
1-propanamine, 3-(trimethoxysilyl)-		13822-56- 5	<0.0102 %	R36
decanedioic acid, bis(2,2,6,6-tetramethyl-4- piperidinyl) ester, reaction products with tert-bu hydroperoxide and octane	R	129757- 67-1	<0.0034 %	H413
tin, dibutylbis(2,4-pentanedionato-o,o)-	U	22673-19- 4	<0.00034 %	H302, H314, H317, H318, H341, H360FD, H370, H372, H410
octadecanamide, n,n-1,2-ethanediylbis[12-hydroxy-	R	123-26-2	<0.0034 %	H317, H412
carbonic acid, calcium salt (1:1)		471-34-1	0.136 %	
poly[oxy(methyl-1,2-ethanediyl)], .alpha[3- (dimethoxymethylsilyl)propyl]omega[3- (dimethoxymethylsilyl)propoxy]-		75009-88- 0	0.136 %	
(1,2-propylene oxide)	U	75-56-9		H224, H302, H311, H319, H331, H335, H340, H350
(silane, dimethoxymethyl-)		16881-77- 9		
POE encapsulant film			3.82 %	
1-octene, polymer with ethene (POE)		26221-73- 8	3.629 %	
(octene)	R	25377-83- 7		H225, H304, H400, H410, EUH066
(ethene)		74-85-1		H220, H336
(6,6'-di-tert-butyl-4,4'-diethyl-2,2'-methylenediphenol)		88-24-4	0.191 %	
(Bis(,-dimethylbenzyl) peroxide)	U	80-43-3	0.382 %	H242, H315, H319, H360D, H411
(Titanium, (butyl phosphate, ethyl alcohol, isopropyl alcohol) complexes)		109037- 78-7	0.191 %	H319, H411
solar cell			2.8 %	
aluminum		7429-90-5	0.0784 %	
aluminum oxide		1344-28-1	0.000028 %	
silicon		7440-21-3	2.688 %	
silver		7440-22-4	0.02324 %	
Trisilicon tetranitride		12033-89- 5	0.00056 %	

	Emissions	
Conforms To E0:		
Conforms to E1:		
Conforms To M1:		
Conforms To M2:		





	Em	issions		
Conforms To CARB1:				
Conforms To CARB2:				
EMICODE:				
Energy consumption	on	Residual prod	lucts / Waste	
Raw materials:			During	During
Manufacturing:		- Da was	construction	demolition
Total:		Re-use: Material recycling:		95 %
		Energy recycling:		3.82 %
		Landfill deposition:		3.02 //
		EWC (European Waste Code):		
		Hazardous waste:	-	_
Portion of recycled mat	terial	Service	e life	
Pre-consumer: 9.1 %		Service life: 30-50 år		
Post-consumer:				
	Classificatio	on of the product		
Hazard statements:				
Precautionary statements				
Risk phrases				
Safety phrases				
	Corporate Social	Responsibility (CSR)		
CSR-policy:				
out paney.				
	Dist	ribution		
Pallet return system:	No			
Multiple-use packaging:	No			
	No			
Take-back of packaging:				
System for producer responsibility for				
System for producer responsibility for				
Take-back of packaging: System for producer responsibility for packaging:	No	uction stage		
System for producer responsibility for	No	uction stage Two pallets can be stacked. Max (translated by Google)	28 modules per	pallet.
System for producer responsibility for packaging: Storage Requirements: Requirements on surrounding	No Constru	Two pallets can be stacked. Max	28 modules per	pallet.
System for producer responsibility for packaging: Storage Requirements: Requirements on surrounding	Constru Yes No	Two pallets can be stacked. Max	28 modules per	pallet.
System for producer responsibility for packaging:	Constru Yes No	Two pallets can be stacked. Max (translated by Google)	·	



Disassembly:

SundaHus Material data

SOLID Framed



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It is possible to unscrew modules from the mounting system.	Demolition Phase
(translated by Google)	It is possible to unscrew modules from the mounting system. (translated by Google)

Special measures: No

Waste Management

Special restrictions/recommendations: Yes

The module can be reused after its first lifetime. It is important not to scratch the glass when disassembling the product. If the module does not work, the front glass, undamaged, can be reused through special recycling stations. (translated by Google)

Indoor Environment

Critical moisture level: No

Miscellaneous

Assessed: 2022-10-13 by Anton Lundström

Revised:

SHMD number: SHMD-6YMVSBKYLZ

Criteria: SundaHus Material Data Assessment Criteria edition 6.1.7

Yes

	Explanations
(U)	At least one phase-out substance has been used in the manufacturing phase.
U	Contains at least one phase-out substance. / The substance fulfills the criteria for a phase-out substance according to the Swedish Chemicals Authority tool for substitution, PRIO.
(R)	At least one prioritized risk reduction substance has been used in the manufacturing phase.
R	Contains at least one prioritized risk reduction substance. / The substance fulfills the criteria for a prioritized risk reducing substance according to the Swedish Chemicals Authority tool for substitution PRIO.
(H)	At least one substance on the European Commission Priority List with endocrine disruptors in category 1 has been used in the manufacturing stage for this product; this means that there is evidence of endocrine disrupting effects in at least one species (including humans).
Н1	The substance is present in the European Comissions prioritization list over endocrine disruptors under category 1, which means that there is scientific evidence for an endocrine disrupting effect in atleast one animal (including humans).
<u></u>	Substances hazardous to health present in the product during the manufacturing phase.
§	The substance is present in the restriction database.
n	Does not contain nano particles
¥	Contains at least one environmentally hostile substance.
(¥)	At least one environmentally hazardous substance used at construction
"Worst Case" substance	Worstcase substances are those that past experience or literature has shown may be present in particular product types. Worstcase substances are used when specific information on the product content is missing, in order to ensure that no critical elements are left out in the assessment.
(substance name)	A substance name in parentheses indicates that the substance is only present during the manufacturing stage, not in the finished product.
*1	The supplier/distributor does not allow us to show this document.
EUH014	Reacts violently with water.
EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.



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	Explanations
H228	Flammable solid.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360D	May damage the unborn child
H360F	May damage fertility
H360FD	May damage fertility. May damage the unborn child.
H361d	Suspected of damaging the unborn child
H362	May cause harm to breast-fed children.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
R36	Irritating to eyes