

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A1:2019/AC:2021 for:

Solartag T-ROOF roof tiles

from

Solartag ApS





## Output flow indicators

Results per functional or declared unit										
Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	2.08E-03	0.00E+00	2.85E-03	0.00E+00	0.00E+00	0.00E+00	6.54E-02	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	2.22E-03	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	4.40E-03	0.00E+00	0.00E+00
Exported energy, thermal	MJ	2.13E-02	0.00E+00	2.32E-02	0.00E+00	0.00E+00	0.00E+00	4.22E-02	0.00E+00	0.00E+00

## Results of the environmental performance indicators – Declared Unit (1 m<sup>2</sup>)

### Mandatory impact category indicators according to EN15804+A1:2013 – Declared Unit (1 m<sup>2</sup>)

Results per functional or declared unit										
Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	kg CO <sub>2</sub> eq.	7.09E+01	9.22E-01	1.29E-01	0.00E+00	0.00E+00	5.05E-02	1.50E+00	1.40E-01	-1.22E+01
ODP	kg CFC 11 eq.	5.44E-06	1.73E-07	3.05E-09	0.00E+00	0.00E+00	1.01E-08	1.77E-08	3.53E-09	-9.73E-07
AP	mol SO <sub>2</sub> - eq.	3.67E-01	2.97E-03	1.39E-04	0.00E+00	0.00E+00	1.32E-04	7.39E-04	1.11E-04	-7.77E-02
EP	kg PO <sub>4</sub> <sup>3-</sup> - eq.	4.79E-02	3.59E-04	5.58E-05	0.00E+00	0.00E+00	1.77E-05	1.48E-04	1.29E-04	-6.52E-03
POCP	kg ethene eq.	1.64E-02	1.30E-04	2.25E-05	0.00E+00	0.00E+00	6.13E-06	3.94E-05	2.98E-05	-2.98E-03
ADP-minerals&metals*	kg Sb eq.	4.52E-03	3.69E-06	1.30E-07	0.00E+00	0.00E+00	1.22E-07	1.22E-06	6.50E-08	-1.29E-04
ADP-fossil*	MJ	8.79E+02	1.42E+01	3.20E-01	0.00E+00	0.00E+00	8.15E-01	2.26E+00	3.49E-01	-1.41E+02
Acronyms	GWP = Global Warming Potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential									

\* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

### Resource use indicators

Results per functional or declared unit										
Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	MJ	1.38E+02	2.31E-01	1.41E-02	0.00E+00	0.00E+00	1.06E-02	8.82E-01	8.11E-03	-2.14E+01
PERM	MJ	1.61E+01	0.00E+00	1.48E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.54E+02	2.31E-01	1.48E+01	0.00E+00	0.00E+00	1.06E-02	8.82E-01	8.11E-03	-2.14E+01
PENRE	MJ	1.01E+03	1.54E+01	-4.38E-01	0.00E+00	0.00E+00	8.82E-01	2.68E+00	3.81E-01	-1.72E+02
PENRM	MJ	4.34E+01	0.00E+00	8.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	1.05E+03	1.54E+01	3.64E-01	0.00E+00	0.00E+00	8.82E-01	2.68E+00	3.81E-01	-1.72E+02
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	5.05E+01	5.18E-02	1.31E-03	0.00E+00	0.00E+00	2.85E-03	5.59E-02	1.46E-02	-3.00E+00
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water									

### Waste indicators

Results per functional or declared unit										
Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Radioactive waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

### Output flow indicators

Results per functional or declared unit										
Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	2.93E-01	0.00E+00	4.01E-01	0.00E+00	0.00E+00	0.00E+00	9.20E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	3.12E-01	0.00E+00	3.40E-01	0.00E+00	0.00E+00	0.00E+00	9.91E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	9.91E+00	0.00E+00	3.26E+00	0.00E+00	0.00E+00	0.00E+00	9.91E+00	0.00E+00	0.00E+00