

OG-100 ICC-SRCC™ CERTIFIED SOLAR COLLECTOR # 10002035



SOLAR RATING & CERTIFICATION CORPORATION

Supplier:
INroof.solar
 11 Chestnut St
 Amesbury, MA 01913 USA
 Reference Standard:
ICC 901/SRCC Standard 100-2015

Brand: INroof.solar
 Model: Nor'easter
 Collector Type: Unglazed Flat Plate
 Certification #: 10002035
 Original Certification: January 06, 2017
 Renewal Expiration Date: January 01, 2022
 Certifications must be renewed annually.

This solar collector has been evaluated and certified by the Solar Rating & Certification Corporation™ (ICC-SRCC™), an ISO/IEC 17065 accredited and EPA recognized Certification Body, in accordance with the SRCC OG-100 Certification Program, as defined in SRCC OG-100, Operating Guidelines and Minimum Standards for Certifying Solar Collectors. This award of certification is subject to all terms and conditions of the current OG-100 Program Agreement and the documents incorporated therein by reference. This document must be reproduced in its entirety.

COLLECTOR THERMAL PERFORMANCE RATINGS (Collector Tested per ISO 9806:2013 with Class B & C exposure)							
Kilowatt-hours (thermal) Per m ² Per Day				Thousands of Btu Per ft ² Per Day			
Climate -> Category (Ti-Ta)	High Radiation (6.3 kWh/m ² .day)	Medium Radiation (4.7 kWh/m ² .day)	Low Radiation (3.1 kWh/m ² .day)	Climate -> Category (Ti-Ta)	High Radiation (2000 Btu/ft ² .day)	Medium Radiation (1500 Btu/ft ² .day)	Low Radiation (1000 Btu/ft ² .day)
A (-5 °C)	3.0	2.2	1.5	A (-9 °F)	0.9	0.7	0.5
B (5 °C)	1.8	1.2	0.6	B (9 °F)	0.6	0.4	0.2
C (20 °C)	0.6	0.2	0.0	C (36 °F)	0.2	0.1	0.0
D (50 °C)	0.0	0.0	0.0	D (90 °F)	0.0	0.0	0.0

A- Pool Heating (Warm Climate) B- Pool Heating (Cool Climate) C- Water Heating (Warm Climate) D- Space & Water Heating (Cool Climate) E- Commercial Hot Water & Cooling

TECHNICAL RESULTS				Tested in accordance with: ISO 9806:2013 with Class B & C exposure			
ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]							
SI UNITS:				Wind speed (u) in m/s, Temperature (Ti - Ta) in °C, Radiation (G") in W/m ² $\eta = (0.600)(1 - 0.0989u) - (9.7449 + 1.2316u)(P/G")$			
IP UNITS:				Wind speed (u) in mph, Temperature (Ti - Ta) in °F, Radiation (G") in Btu/hr-ft ² $\eta = (0.600)(1 - 0.0442u) - (1.7163 + 0.0970u)(P/G")$			
Incident Angle Modifier							
θ	10 ⁰	20 ⁰	30 ⁰	40 ⁰	50 ⁰	60 ⁰	70 ⁰
Kra	1.00	0.99	0.98	0.96	0.92	0.86	0.73
Impact Safety Rating: 9							

COLLECTOR SPECIFICATIONS					
Gross Area:	1.251 m ²	13.47 ft ²	Dry Weight:	11.7 kg	25.8 lb
Net Aperture Area:	1.251 m ²	13.47 ft ²	Fluid Capacity:	0.8 liter	0.2 gal
REMARKS: All sizes of this collector are certified. Collectors with the colors below are certified, but performance ratings must be adjusted using the ratio of the absorptivity of the selected color to that of the tested collector (0.94).					

Firestone	-	90	74	70	-	-	-	75	70	69	-	71	65	-	-	74	49	-	66	28	68	-	43	-	63	-	43	75	65	75	94	84	58	73	71	87	72	85	80	58	41		
Englert		72	71	69	65	72	71	72	68	63	72	68	70	65	58	69	61	60	49	65	33	72	72	38	56	62	54	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Shawn Martin
 Technical Director



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ICC-SRCC OG-100 Certification Label

The collectors listed in this certification must display the label below.
The certification label must be permanently affixed to each collector in accordance with SRCC OG-100 program requirements.

