

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality
hereby attests that the product(s)

Solar Collector

(Details as per the attached Scope of Certification)

Manufactured by:

VENMAN S.A.

7 km Old National Road, Thessalniki-Kilkis, 570 22 Ind. Area - Sindos, Thessaloniki, Greece

have been assessed in accordance with DCLD Document Ref. No. DM-DCLD-RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

BS EN 12975-1:2006 +A1: 2010

Accordingly, DCLD hereby authorizes the above manufacturer
to affix the DCL Product Conformity Mark on the above-mentioned product(s).



ARIF AL MARZOOQI

Certification and Quality Control of Products Section Manager
Dubai Central Laboratory Department-Dubai Municipality



Certificate No: CL18020617
Valid Until: 29/07/2024



Current Issue Date: 30/07/2023
Original Issue Date: 30/07/2018



The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.

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OPEN-DATA

DM-DCLD-F-IC-2031 Rev 22

DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL18020617

Certificate Issued To:	VENMAN S. A. 7 km Old National Road, Thessalniki-Kilkis, 570 22 Ind. Area - Sindos, Thessaloniki, Greece
Applicable Standard Specification:	BS EN 12975-1: 2006 + A1: 2010 – Thermal solar systems and components – Solar Collectors – Part 1: General requirements
Applicable Specific Rules:	DM-DCLD-RD-DP21-2178 (IC) – Specific Rules Certification of Solar Collectors as per BS EN 12975-1 through Factory Assessment DM-DCLD-RD-DP21-2084 (IC) – Guidelines for Factory Production control Plan for Solar Collector Manufacturers

Technical Data	TECHNICAL SPECIFICATIONS OF COLLECTORS H81								
Family Name	H81								
Model / Size	H81-15	H81-17	H81-19	H81-20	H81-21	H81-22	H81-23	H81-25	H81-26
Brand Name	VENMAN – H81								
Collector Type	Flat Plate Solar Collector								
Max. Operating Pressure	10 Bars								
Max. Stagnation Temperature	170 °C								
Insulation Material, Density and Thickness	Rockwool: 50 kg/m ³ and 30mm								
Sealing Materials	Elastomeric Sealant								
Absorber Materials	Aluminum with Surface Plate Thickness of 0.4 mm and Selective Coating treatment								
Frame Material and Thickness	Pre-painted steel: 0.5 mm								
Back Cover Material and Thickness	Pre-painted steel: 0.5 mm								
Riser Tubes material	Copper								
Header Diameter	Inner: 20.6 mm Outer: 22 mm								
Covering Materials	3.2 mm thickness Clear Tempered Glass								

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Gross Dim. H x L x T (mm)	1460 x 960 x 80	1375 x 1135 x 80	1455 x 1255 x 80	1960 x 960 x 80	2000 x 1000 x 80	1960 x 1040 x 80	1845 x 1135 x 80	1960 x 1210 x 80	2000 x 1210 x 80
Gross Area, m²	1.40	1.56	1.83	1.88	2.00	2.04	2.09	2.37	2.42
Aperture Area, m²	1.32	1.52	1.79	1.79	1.92	1.94	2.05	2.27	2.33
Absorber Area, m²	1.35	1.45	1.71	1.83	1.97	2.01	2.09	2.33	2.33
Weight Empty, kg	30	34	36	37	38	38	40	41	42
Fluid Content, L	1.45	1.51	1.57	1.63	1.69	1.71	1.75	1.81	1.85
Number of Risers/ Channels, Pcs	10	10	10	10	10	10	11	11	11
Internal Riser diameter, mm	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
External Riser diameter, mm	8	8	8	8	8	8	8	8	8

NOTE1: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

NOTE2: The above product shall bear the DCL Conformity Mark.

Original Issue Date: 30 July 2018

Current Issue Date: 30 July 2023

Valid Until: 29 July 2024



ARIF AL MARZOOQI
MANAGER

CERTIFICATION AND QUALITY CONTROL OF PRODUCTS SECTION