

CERTIFICATE OF PRODUCT CONFORMITY



Dubai Central Laboratory Department (DCLD) of Dubai Municipality,

hereby attests that the product(s)

THERMAL SOLAR SYSTEMS AND COMPONENTS - SOLAR COLLECTORS

(Details as per the attached Scope of Certification)

manufactured by:

VENMAN S. A. P.O.BOX. 1091, 570 22 Ind. Area, Sindos Thessaloniki, Greece

have been assessed in accordance with DCLD Document Ref. No. 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 to the above-mentioned product(s).

for / ENGR. AMIN AHMED AMIN

Director, Dubai Central Laboratory Department

Dubai Municipality

Verify:



Certii Valid

Certificate No: CL18020617 Valid Until: 29 July 2019



Current Issue Date: 30 July 2018

Original Issue Date: 30 July 2018

DM-DCLD-F-IC-2031 REV 13





DUBAI CENTRAL LABORATORY DEPARTMENT DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SOLAR SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL18020617

Certificate Issued To: VENMAN S. A.

P.O. BOX 1091, 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: RD-DP21-2178 (IC) – Specific Rules Certification of Solar

Collectors as per BS EN 12975-1 Through Factory Assessment 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	H81-23	H81-25	H81-26				
Brand Name	VENMAN – H81											
Collector Type	Flat Plate Solar Collector											
Мах.												
Operating	10											
Pressure, Bar												
Мах.												
Stagnation												
Temperature,	162.6											
°C												
Insulation												
Material,												
Density and	Rockwool, 50 kg/m³ and 30mm											
Thickness												
Sealing				_,								
Materials	Elastomeric Sealant											
Absorbing	Aluminum with Surface Plate Thickness of 0.4mm and Selective Coating treatment											
Surface												
Frame												
Material and												
Thickness,	Prepainted steel, 0.5											
mm												





Back Cover												
Material and	Prepainted steel, 0.5											
Thickness,												
mm												
Riser tubes												
material	Copper											
Header												
Diameter,	Inner: 20.6 and Outer: 22											
mm												
Covering	Clear Terrored											
Materials	Clear Tempered											
Gross Dim.												
HxLxT	1460X960X80	1375X1135X80	1455X1255X80	1960X960X80	2000X1000X80	1845X1135X80	1960X1210X80	2000X1210X80				
(mm)												
Gross Area,	1.40	1.56	1.83	1.88	2.00	2.09	2.37	2.42				
m²	1.10	1.50	1.03	1.00	2.00	2.03	2.37	2.12				
Aperture	1.32	1.52	1.79	1.79	1.92	2.05	2.27	2.33				
Area, m²												
Absorber	1.35	1.45	1.71	1.83	1.97	2.09	2.33	2.33				
Area, m²												
Weight	30	34	36	37	38	40	41	42				
Empty, kg Fluid												
Content, L	1.45	1.51	1.57	1.63	1.69	1.75	1.81	1.85				
Number of												
Risers/	10	10	10	10	10	11	11	11				
Channels, Pcs	10	10	10	10	10	11	11	11				
Internal Riser												
diameter,	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2				
mm	1,2	1,2	1.2	1,2	1,2	1.2	1.2	1.2				
External												
Riser												
diameter,	8	8	8	8	8	8	8	8				
mm												
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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.





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ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager

Dubai Central Laboratory Department