



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:

ENERGETYKA SOLARNA ENSOL S P Z O O

ul. Piaskowa 11, 47-400 Raciborz, Poland

have been assessed in accordance with DCLD Document Ref. No. RD-DP21-2001 (CC) "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).

ENGR. AMIN AHMED AMIN
Director, Dubai Central Laboratory Department
Dubai Municipality



Certificate No: CL17020456
Valid Until: 01 May 2018



Current Issue Date: 02 May 2017
Original Issue Date: 02 May 2017

The attached Scope of Certification bearing the same Certificate No. forms an integral part of this certificate.
This certificate is subject to the Terms and Conditions of the Product Certification System
and shall not be reproduced except in full.



DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL17020456

Certificate Issued To: **ENERGETYKA SOLARNA ENSOL S P Z O O**
ul. Piaskowa 11, 47-400 Raciborz, Poland

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



SN	Product Description	Brand Name	Product Details
1	Solar Flat Plate Collector With Copper & Aluminum Absorber. Copper Header & Riser Pipes And Aluminum Absorber Sheet. Panel Area 2.0 m ²	Brand- VERSOL  Model- FP2,0/Cu-Al	Gross Area: 2,0 m ² Aperture Area: 1,876 m ² , Absorber Area: 1,876 m ² Gross Dimension: 1988x1006 mm Header: 2 Nos Horizontal Copper Pipes of 22x1 mm Risers: 8 Nos Copper Tubes of 8x0,5 mm Max. Operating Pressure: 6 Bar Stagnation Temperature: 186 °C Liquid Content: 1,8 l, Empty Weight: 40 kg Absorber Material: Aluminum Absorber sheet with high selective layer, Copper riser tubes Laser welding technology Thermal Insulation: Rockwool Insulation of 40 mm thickness, 50 kg/m ³ +/-15% density with thermal conductivity 0.035 W/m.K Solar Glass: Tempered Glass of 4 mm thick Sealing: Polyurethane sealant To be used with Water or Glycol-Water (Anti-Freeze Fluid)
2	Solar Flat Plate Collector With Copper & Aluminum Absorber. Copper Header & Riser Pipes And Aluminum Absorber Sheet. Panel Area 2.0 m ²	Brand- VERSOL  Model- EM2V/2,0 Al-Cu	Gross Area: 2,0 m ² Aperture Area: 1,876 m ² , Absorber Area: 1,876 m ² Gross Dimension: 1988x1006 mm Header: 2 Nos Horizontal Copper Pipes of 22x1 mm Risers: 8 Nos Copper Tubes of 8x0,5 mm Max. Operating Pressure: 6 Bar Stagnation Temperature: 186 °C Liquid Content: 1,8 l, Empty Weight: 40 kg Absorber Material: Aluminum Absorber sheet with high selective layer, Copper riser tubes Laser welding technology Thermal Insulation: Rockwool Insulation of 40 mm thickness, 50kg/m ³ +/-15% density with thermal conductivity 0.035W/m.K Solar Glass: Tempered Glass of 4 mm thick Sealing: Polyurethane sealant To be used with Water or Glycol-Water (Anti-Freeze Fluid)
3	Solar Flat Plate Collector With Copper & Aluminum Absorber. Copper Header & Riser Pipes And Aluminum Absorber Sheet. Panel Area 2.65 m ²	Brands- VERSOL  Model- ES2V/2,65S Al-Cu	Gross Area: 2,65m ² Aperture Area: 2,45 m ² , Absorber Area: 2,45 m ² Gross Dimension: 2356x1120 mm Header: 2 Nos Horizontal Copper Pipes of 22x1mm Risers: Copper tube 10x0,5 mm Max. Operating Pressure: 6 Bar Stagnation Temperature: 192 °C Liquid Content: 2,2 l, Empty Weight: 49 kg Absorber Material: Aluminum Absorber sheet with high selective layer, Copper tube laser welding technology Thermal Rockwool: Insulation of 40 mm thickness, 50kg/m ³ +/-15% density with thermal conductivity 0.035W/m.K Solar Glass: Tempered Glass of 4 mm thick Sealing: Polyurethane sealant To be used with Water or Glycol-Water (Anti-Freeze Fluid)

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4	Solar Flat Plate Collector With Aluminum Absorber. Aluminum Header & Riser Pipes And Aluminum Absorber Sheet. Panel Area 2.0 m ²	<p>Brand-VERSOL</p>  <p>Model- ES2V/2,0S AI</p>	<p>Gross Area: 2,02m² Aperture Area: 1,85 m², Absorber Area: 1,86 m² Gross Dimension: 2007x1006 mm Header: 2 Nos Horizontal Aluminum Pipes of 22x1mm Risers: Aluminum tubes 10x0,5mm Max. Operating Pressure: 6 Bar Stagnation Temperature: 185 °C Liquid Content: 1,8l , Empty Weight: 39 kg Absorber Material: Aluminum Absorber sheet with high selective layer, Aluminum tube ultrasonic welding technology Thermal Rockwool: Insulation of 40 mm thickness, 50kg/m³ +/-15% density with thermal conductivity 0.035W/m.K Solar Glass: Tempered Glass of 4 mm thick Sealing: Polyurethane sealant To be used with Water or Glycol-Water (Anti-Freeze Fluid)</p>
5	Solar Flat Plate Collector With Copper Absorber. Copper Header & Riser Pipes And Copper Absorber Sheet. Panel Area 2.65 m ²	<p>Brand- VERSOL</p>  <p>Model- ES2V/2.65S</p>	<p>Gross Area: 2,65 m² Aperture Area: 2,44 m², Absorber Area: 2,44 m² Gross Dimension: 2356x1120 mm Header: 2 Nos Horizontal Copper Pipes of 22x1 mm Risers: Copper tubes 10x0,5 mm Max. Operating Pressure: 6 Bar Stagnation Temperature: 179,5 °C Liquid Content: 2,2 l, Empty Weight: 49 kg Absorber Material: Copper Absorber sheet with high selective layer, Copper tube ultrasonic welding technology Thermal Rockwool: Insulation of 40 mm thickness, 50kg/m³ +/-15% density with thermal conductivity 0.035W/m.K Solar Glass: Tempered Glass of 4 mm thick Sealing: Polyurethane sealant To be used with Water or Glycol-Water (Anti-Freeze Fluid)</p>

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 : 02-May-2017
Current Issue Date : 02-May-2017
Valid Until : 01-May-2018



ARIF HUSAIN AL MARZOOQI
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Dubai Central Laboratory Department

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