

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:

COSMOSOLAR LTD.

Drey Str., Pily Dervenochorion, Viotia, 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).



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



Certificate No: CL16020416
Valid Until: 25/02/2021



Current Issue Date: 26/02/2020
Original Issue Date: 06/12/2016

The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.
This Certificate is an electronic document 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. CL16020416

Certificate Issued To:	COSMOSOLAR LTD. Drey Str., Pily Dervenochorion, Viotia, 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

PRODUCT DESCRIPTION	BRAND NAME(S) / MODEL(S)	PRODUCT DETAILS
<p>Glazed Flat Plate Solar Collector (EPI Families)</p> <p>Absorber: aluminum sheet 0.5mm thickness with Titanium blue oxide selective coating, 95% absorptance and 5% emittance, laser welded into 8 mm x 0.4 mm copper pipe tubes (risers) joint with 22 mm x 0.7 mm header copper pipe tubes. Mistlite Low Iron AR coated 3.2 mm thick tempered glass 92.9% transmittance. Glass-wool back insulation 30 mm thickness of 30 kg/m³ density with 0.032 W/m-K thermal conductivity. Anodized aluminum frame, electro-statical oven painted Sea-side class for the material casing. Anodized aluminum back plate. Sealing material: black silicone.</p>	<p>“COSMOSOLAR, SKYLAND, BLUE SOLAR, DELTA SOLAR, FALCON, FEDERMAN, NUEVO SOL, PRIME SOLAR, SUPERNET, SOLIS” Brands</p> <p>EPI 20 NV</p>	<p>Gross area: 1.505m² Absorber area: 1.334m² Weight: 22,3kg Thermal fluid weight: 1.02kg Absorber pipe dimensions: Headers: 22mm x 0.7mm Risers: 8mm x 0.4mm No of vertical tubes: 9 No of horizontal tubes: 2 Maximum thermal working pressure: 6 bar Minimum angle of inclination: 13.5° Maximum angle of inclination: 88° Maximum stagnation temperature: 145.62°C</p>
	<p>“COSMOSOLAR, SKYLAND, BLUE SOLAR, DELTA SOLAR, FALCON, FEDERMAN, NUEVO SOL, PRIME SOLAR, SUPERNET, ** SOLIS” Brands</p> <p>EPI 25 NV</p>	<p>Gross area: 2.00m² Absorber area: 1.798m² Weight: 26.5kg Thermal fluid weight: 1.43kg Absorber pipe dimensions: Headers: 22mm x 0.7mm Risers: 8mm x 0.4mm No of vertical tubes: 9 No of horizontal tubes: 2 Maximum thermal working pressure: 6 bar Minimum angle of inclination: 13.5° Maximum angle of inclination: 88° Maximum stagnation temperature: 145.62°C</p>

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	<p>"COSMOSOLAR, SKYLAND, BLUE SOLAR, DELTA SOLAR, FALCON, FEDERMAN, NUEVO SOL, PRIME SOLAR, SUPERNET, **SOLIS" Brands</p> <p>EPI 16 NV</p>	<p>Gross area: 2.24m² Absorber area: 2.02 m² Weight: 28.3kg Thermal fluid weight: 1.6kg Absorber pipe dimensions: Headers: 22mm x 0.7mm Risers: 8mm x 0.4mm No of vertical tubes: 11 No of horizontal tubes: 2 Maximum thermal working pressure: 6 bar Minimum angle of inclination: 13,5° Maximum angle of inclination: 88° Maximum stagnation temperature: 145,62°C</p>
	<p>"COSMOSOLAR, SKYLAND, BLUE SOLAR, DELTA SOLAR, FALCON, FEDERMAN, NUEVO SOL, PRIME SOLAR, SUPERNET, ** SOLIS" Brands</p> <p>EPI 54 NV</p>	<p>Gross area: 2.522m² Absorber area: 2.316m² Weight: 30kg Thermal fluid weight: 1,7kg Absorber pipe dimensions: Headers: 22mm x 0.7mm Risers: 8mm x 0.4mm No of vertical tubes: 12 No of horizontal tubes: 2 Maximum thermal working pressure: 6 bar Minimum angle of inclination: 13.5° Maximum angle of inclination: 88° Maximum stagnation temperature: 145°C</p>
<p>Glazed Flat Plate Solar Collector (MNE Families)</p> <p>Absorber: aluminum sheet 0.5 mm thickness treated with Black Solvent Paint, 91% absorptance and 0.83 emittance, laser welded into 8 mm x 0.4 mm copper pipe tubes (risers) joint with 22 mm x 0.7 mm header copper pipe tubes. Mistlite Low Iron AR coated 3.2 mm thick tempered glass 92.9% transmittance. Glass-wool back insulation 30 mm thick of 30 kg/m³, of 0,032 W/m-K thermal conductivity. Anodized aluminum frame, electrostatical oven painted Sea-side class. Anodized aluminum back plate. Sealing material: black silicone.</p>	<p>"COSMOSOLAR, SKYLAND, BLUE SOLAR, DELTA SOLAR, FALCON, FEDERMAN, NUEVO SOL, PRIME SOLAR, SUPERNET, ** SOLIS" Brands</p> <p>MNE 16</p>	<p>Gross area: 1.505m² Absorber area: 1.334m² Weight: 22.3kg Thermal fluid weight: 1.02kg Absorber pipe dimensions: Headers: 22mm x 0.7mm Risers: 8mm x 0.4mm No of vertical tubes: 9 No of horizontal tubes: 2 Maximum thermal working pressure: 6 bar Minimum angle of inclination: 13.5° Maximum angle of inclination: 88° Maximum stagnation temperature: 127°C</p>
	<p>"COSMOSOLAR, SKYLAND, BLUE SOLAR, DELTA SOLAR, FALCON, FEDERMAN, NUEVO SOL, PRIME SOLAR, SUPERNET, ** SOLIS" Brands</p>	<p>Gross area: 1.895m² Absorber area: 1.701m² Weight: 23.7kg Thermal fluid weight: 1.32kg Absorber pipe dimensions: Headers: 22mm x 0.7mm Risers: 8mm x 0.4mm No of vertical tubes: 9</p>

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	Brands MNE 04	No of horizontal tubes: 2 Maximum thermal working pressure: 6 bar Minimum angle of inclination: 13.5° Maximum angle of inclination: 88° Maximum stagnation temperature: 127°C
	"COSMOSOLAR, SKYLAND, BLUE SOLAR, DELTA SOLAR, FALCON, FEDERMAN, NUEVO SOL, PRIME SOLAR, SUPERNET, SOLIS" Brands MNE 20	Gross area: 2.00m ² Absorber area: 1.798m ² Weight: 26.5kg Thermal fluid weight: 1.43kg Absorber pipe dimensions: Headers: 22mm x 0.7mm Risers: 8mm x 0.4mm No of vertical tubes: 9 No of horizontal tubes: 2 Maximum thermal working pressure: 6 bar Minimum angle of inclination: 13.5° Maximum angle of inclination: 88° Maximum stagnation temperature: 127°C
	"COSMOSOLAR, SKYLAND, BLUE SOLAR, DELTA SOLAR, FALCON, FEDERMAN, NUEVO SOL, PRIME SOLAR, SUPERNET, ** SOLIS" Brands MNE 01	Gross area: 2.24m ² Absorber area: 2.02 m ² Weight: 28.3kg Thermal fluid weight: 1.6kg Absorber pipe dimensions: Headers: 22mm x 0.7mm Risers: 8mm x 0.4mm No of vertical tubes: 11 No of horizontal tubes: 2 Maximum thermal working pressure: 6 bar Minimum angle of inclination: 13.5° Maximum angle of inclination: 88° Maximum stagnation temperature: 127°C
	"COSMOSOLAR, SKYLAND, BLUE SOLAR, DELTA SOLAR, FALCON, FEDERMAN, NUEVO SOL, PRIME SOLAR, SUPERNET, ** SOLIS" Brands MNE 03	Gross area: 2.522m ² Absorber area: 2.316m ² Weight: 30kg Thermal fluid weight: 1.7kg Absorber pipe dimensions: Headers: 22mm x 0.7mm Risers: 8mm x 0.4mm No of vertical tubes: 12 No of horizontal tubes: 2 Maximum thermal working pressure: 6 bar Minimum angle of inclination: 13,5° Maximum angle of inclination: 88° Maximum stagnation temperature: 127°C

**DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL16020416**

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 : 06 December 2016

Current Issue Date : 26 February 2020

Valid Until : 25 February 2021

ARIF HUSAIN AL MARZOOQI
Products Conformity Assessment Section Manager
Dubai Central Laboratory Department