

Approval Number: 1702529
Test Report: LGC/WAT/2017/001



Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

7th March 2017

EMO FRITE d.o.o
Mariborska 86,
3000 Celje,
Slovenia

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

COATINGS, PAINTS & LININGS - FACTORY APPLIED PIPE & FITTINGS COATINGS.

5030

'R-4401, E-44131, E-4413, E-4414, E-4420, E440001, E441001, E440002, E441002, E-5402, E-5403, E-5404, E540001, E541001, E540002, E540003 & E541003'. Factory applied, grey-blue coloured enamel coatings. Apply as per manufacturer's instructions 'issue 02/2016' dated 05.10.2016. Cure for 6 minutes@840°C. For use with water up to 85°C. This material is only approved for the curing conditions that appear on the approval. If the cure conditions are varied from those specified on the approval then the material is not covered by the scope of the approval.

APPROVAL NUMBER: 1702529

APPROVAL HOLDER: EMO FRITE D.O.O

The Scheme reserves the right to review approval.

Approval 1702529 is valid between February 2017 and February 2022

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

A handwritten signature in dark ink, appearing to read 'J Furnival', written in a cursive style.

Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY

The material referred to in this letter is suitable for contact with water for domestic purposes. **Approval of this material does not signify the approval of its mechanical or physical properties for any use.**

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that; 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

Use of the WRAS Approved Material Logo

Approval holders may use the WRAS Approved Material logo and make reference to any approval issued by WRAS Ltd. in respect of a particular material or range of materials provided the approval is, and remains valid.

Approval holders are entitled to use the logo on the packing, promotional literature and point of sale advertising Approved Materials.

Modifications to existing Approvals

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

Re-Approval

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.

TUV-H-CONTRACT No :
TUV-H-ORDER No : 02.09.127

I.R. No :
Page : TH.01283/14
2 of 2

Date of inspection : 19/11/2014
Ημερ. Επιθεώρησης

Requirements / Specifications : ΤΕΧΝΙΚΟΣ ΦΑΚΕΛΟΣ ΤΟΥ ΤΥΠΟΥ:
Απαιτήσεις / Προδιαγραφές

- 150 L ECOF & SXF, Αρ. Σχεδίου: M00.150.10.050 & M00.150.10.060
- EN 12976-1:2006

Items inspected : 1 ΔΟΧΕΙΟ ΤΟΥ ΠΑΡΑΠΑΝΩ ΤΥΠΟΥ
Αντικείμενα Επιθεώρησης

Attachments : -
Επισυναπτόμενα

Remarks : Ο ΤΕΧΝΙΚΟΣ ΦΑΚΕΛΟΣ ΠΟΥ ΕΞΕΤΑΣΘΗΚΕ
Παρατηρήσεις ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΜΕ ΤΟ ΠΡΟΤΥΠΟ EN 12976-1:2006
ΟΠΟΥ ΑΥΤΟ ΕΙΝΑΙ ΕΦΑΡΜΟΣΙΜΟ
Ο ΤΥΠΟΣ ΠΟΥ ΕΞΕΤΑΣΘΗΚΕ ΣΥΜΦΩΝΕΙ ΜΕ ΤΟΝ
ΤΕΧΝΙΚΟ ΦΑΚΕΛΟ
Η ΥΔΡΑΥΛΙΚΗ ΔΟΚΙΜΗ ΗΤΑΝ ΕΠΙΤΥΧΗΣ

Inspector/ Επιθεωρητής : Κ. ΠΑΠΟΥΤΣΙΔΗΣ
Date/ Ημερομηνία : 26/11/2014



ΠΙΣΤΟΠΟΙΗΤΙΚΟ

Σύστημα Διαχείρισης σύμφωνα με
DIN EN ISO 9001 : 2008

Βάσει των διαδικασιών TUV NORD CERT, πιστοποιείται ότι η

VENMAN A.B.E.E.
7^ο χλμ. Π.Ε.Ο. Θεσσαλονίκης - Κιλκίς
570 22 Θεσσαλονίκη
Ελλάδα

Εφαρμόζει ένα σύστημα διαχείρισης σύμφωνα με το παραπάνω πρότυπο για το εξής πεδίο εφαρμογής

**Παραγωγή και Διάθεση Ηλιακών Θερμοσιφώνων, Μεταλλικών Προϊόντων
και Μεταλλικών Κατασκευών.**

Αριθμός Μητρώου Πιστοποιητικού 44 100 15370061
Αναφορά Επιθεώρησης με αρ. GR-1110/2015

Ισχύει από 2015-09-21
Ισχύει μέχρι 2018-09-20



Φορέας Πιστοποίησης
του Οργανισμού TÜV NORD CERT GmbH

Αθήνα, 2015-09-21

Η πιστοποίηση πραγματοποιήθηκε σύμφωνα με τις διαδικασίες επιθεώρησης και πιστοποίησης του TÜV NORD CERT και
υπόκειται σε τακτικές επιθεωρήσεις επιτήρησης.

TÜV HELLAS S.A.

282, Mesogeion Ave.

155 62 Athens

www.tuev-nord-cert.com



HELLENIC ELECTRONICS EQUIPMENT QUALITY ASSURANCE CENTER
H.E.E.Q.A.C. S.A.



ACCREDITED BY ESXD FOR TESTING (07-3) & CERTIFICATION (125-4).
NOTIFIED BODY (0848) FOR THE 2009/142/EC DIRECTIVE AND REGULATION (EU) No 305/2011.
103 KEFALLHNIAS STR, 112 51 ATHENS – GREECE
TEL.: +30-210-8670588 – FAX: +30-210-8647510
e-mail: info@heeqac.gr, site: www.heeqac.gr

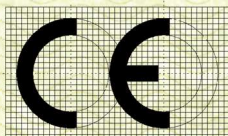
EU VERIFICATION OF CONFORMITY

VERIFICATION NUMBER : 400380-R1
VALID FROM : NOVEMBER 25, 2014
VALID UP TO : NOVEMBER 24, 2019
ISSUED TO : VENMAN S.A., 7KM OF OLD NATIONAL ROAD THESSALONIKI – KILKIS 570 22 DIAVATA THESSALONIKI GREECE
TEST ITEM : HOT WATER BOILER
TYPE/MODEL(S) : 500L/ 80L, T100, 100L, 120L, 120SX, T140, 130L, 130LX, 150E, 150L, 150SX, E150, 160E, T160, 160L, 170L, 170LX, 200L, 210LX, 200SX, E220, 250L, 265L, 270L, 300LX, 300L1, 300L, 500L, A80L, A100L, A120L, A150L, A160L, A150E, A160E, E150A, A170L, A200L, E220A, A250L, A265L, A270L, A300L, E300A, A500L.
MANUFACTURER : VENMAN S.A., 7KM OF OLD NATIONAL ROAD THESSALONIKI – KILKIS 570 22 DIAVATA THESSALONIKI GREECE
APPLICABLE DIRECTIVES : LVD 2014/35/EU (EX 2006/95/EC)
APPLICABLE STANDARDS EN 60335-1:2012 +A11 :2014 (IEC 60335-1:2010)
: EN 60335-2-21:2003 +A1:2004 +A2:2008
(IEC 60335-2-21:2002 +A1:2004 +A2:2008)

STATEMENT: THE TEST ITEMS COMPLY WITH THE REQUIREMENTS OF THE ABOVE MENTIONED APPLICABLE STANDARDS.

GENERAL REMARKS:

- The test results apply only to the particular sample for which the HEEQAC'S test report S/N 504002-E dated November 24, 2014 was issued.
- This verification must be read in conjunction with the above mentioned test report.
- This verification replaces and therefore cancels the verification with No. 400380 issued on November 25, 2014.
- After preparation of the necessary technical documentation as well as the Declaration of Conformity, the CE marking shown below can be affixed on this product. Additional requirements may be applicable such as additional Directives or Local Laws.
- This verification is based on a single evaluation of the above mentioned product. It is therefore essential for the manufacturer to ensure that the quality of his production is always in accordance with the applicable standards.



TEST LABORATORY
FOR H.E.E.Q.A.C. S.A.
G. CHRYSANTHAPOULOS
GENERAL MANAGER

H.E.E.Q.A.C. S.A.
HELLENIC ELECTRONICS EQUIPMENT
QUALITY ASSURANCE CENTRE
103 KEFALLHNIAS STR, 112 51 ATHENS, GREECE
TEL.: +302108670588 - FAX: +302108647510
VAT No: EL094253598 - TAX SERV.: ATHENS FAE
Email: info@heeqac.gr

ISSUED: APRIL 20, 2016 IN ATHENS



This is to certify that

ELDON'S ILIOTHERMINE

supplied by

ELDON'S SA

20 Souliou Street, N. Halkidon, 143 43, Athens, Greece

has been registered by InS Services (UK) Ltd



Incidental Food Contact

This product is acceptable as a heat transfer fluid in locations where there is a possibility of incidental food contact. The amount used should be the minimum required to accomplish the desired technical effect.

Signed: .....
InS Services

Date: 6 November 2013

This certificate is only valid when the product is listed in the InS Register at www.insservices.eu

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:

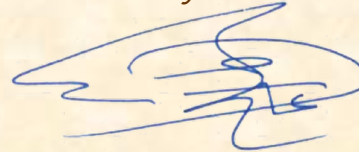
VENMAN S. A.

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:



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

The attached Scope of Certification bearing the same Certificate No. 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

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							
Max. Operating Pressure, Bar	10							
Max. Stagnation Temperature, °C	162.6							
Insulation Material, Density and Thickness	Rockwool, 50 kg/m ³ and 30mm							
Sealing Materials	Elastomeric Sealant							
Absorbing Surface	Aluminum with Surface Plate Thickness of 0.4mm and Selective Coating treatment							
Frame Material and Thickness, mm	Prepainted steel, 0.5							

Back Cover Material and Thickness, mm	Prepainted steel, 0.5							
Riser tubes material	Copper							
Header Diameter, mm	Inner: 20.6 and Outer: 22							
Covering Materials	Clear Tempered							
Gross Dim. H x L x T (mm)	1460X960X80	1375X1135X80	1455X1255X80	1960X960X80	2000X1000X80	1845X1135X80	1960X1210X80	2000X1210X80
Gross Area, m ²	1.40	1.56	1.83	1.88	2.00	2.09	2.37	2.42
Aperture Area, m ²	1.32	1.52	1.79	1.79	1.92	2.05	2.27	2.33
Absorber Area, m ²	1.35	1.45	1.71	1.83	1.97	2.09	2.33	2.33
Weight Empty, kg	30	34	36	37	38	40	41	42
Fluid Content, L	1.45	1.51	1.57	1.63	1.69	1.75	1.81	1.85
Number of Risers/ Channels, Pcs	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
External Riser diameter, mm	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 2018

Valid Until : 29 July 2019

ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager

Dubai Central Laboratory Department