

# CERTIFICATE OF PRODUCT CONFORMITY

*Dubai Central Laboratory Department (DCLD) of Dubai Municipality,*

*hereby award this certificate to*

**ISOFOAM ENGINEERING PRODUCTS**

*For the products:*

**HK Low Conductivity Ties**

*(Details as per the attached Scope of Certification)*

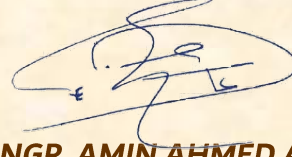
*manufactured by:*

**H.K . Composite , Inc -USA**

*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:*

**TAR-093**

*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: TAC 093*

*Valid Until: 06/05/2019*



*Current Issue Date: 06/05/2018*

*Original Issue Date: 06/05/2012*

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.*

## 1 The Company

ISOFOAM ENGINEERING PRODUCTS – DUBAI, UAE

PO Box 35220 – Dubai, UAE

Tel: +971 48800777

Fax: +971 48800700

E-Mail: [info@isofoam.ae](mailto:info@isofoam.ae)

Website: [www.isofoam.ae](http://www.isofoam.ae)

## 2 Product trade name

HK Low Conductivity Ties

## 3 Manufacturer

H.K. Composites, Inc. - USA

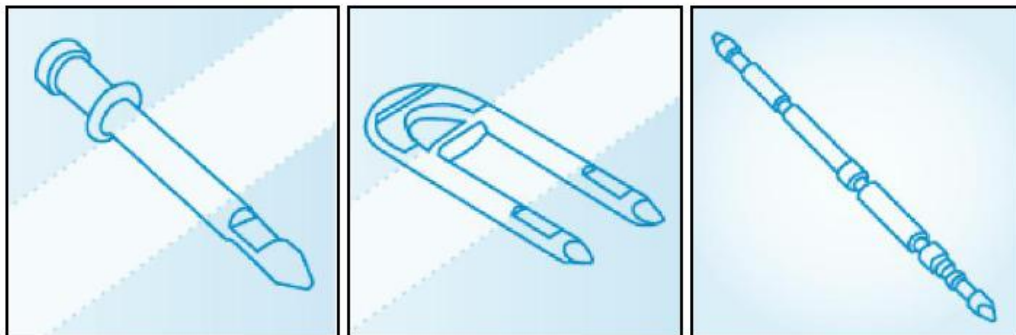
## 4 Product Description

HK Ties are highly insulating connector rods used in making highly isolative composite wall structures. The high R-value connector is injection molded in a single step from an appropriate resinous material or moldable plastic.

## 5 Product types

Three types of connectors are covered in the scope of approval, namely:

- Standard (Horizontal Pour)
- Double Prong (Horizontal Pour)
- Vertical Pour



Standard Tie

Double Prong Tie

Vertical Pour Tie

## 6 Scope of approval

Scope of approval shall cover the following items:

- Standard ties: 2", 2.5", 3", 4", 6" & 8"
- Double Prong ties: 1" & 1.5"
- Vertical pour ties: 2", 3" & 4"

## 7 Product Intended use

HK Ties are specifically designed for use in site cast or Precast insulated concrete sandwich wall panels.

## 8 Product characteristics

Product characteristics are as per the technical data sheets submitted to Dubai Central Laboratory by the ISOFOAM ENGINEERING PRODUCTS.

## 9 Tests conducted

The following tests were conducted on the product and the tests showed satisfactory results:

- Tensile strength
- Shear strength
- Flexural strength & modulus
- Effect of wet concrete environment and aging (Alkali resistance)

## 10 Product identification

The packaging label shall indicate the following:

- Type of connector
- Dimensional characteristics
- Part number
- Lot number
- Quantity
- Manufacturer's name & address

## 11 Production quality control

The products shall be manufactured under an approved quality control program with inspections by an agency accredited by the International Accreditation Service (IAS).

The quality control program shall verify continued compliance with specifications shown in the products' technical data sheets.

## 12 Factory management quality system

The applicant shall maintain and keep current an ISO 9001 Management Quality Certificate (MQC) for the "H.K. Composites, Inc. – USA" factory producing the HK-Ties. The MQC shall be issued by an approved body. Expiry of the MQC shall be base for cancellation of DCL technical approval certificate issued for the product.

## 13 Conditions of Approval

13.1 This approval is granted only to "ISOFOAM ENGINEERING PRODUCTS", No other company, firm or person may hold or claim any entitlement to this Technical Approval.

13.2 This Technical Approval will remain valid for the period shown on the Approval Certificate provided that.

- The company complies with the requirements of this Technical Approval,
- The characteristics of the products are unchanged,

- Continue to be checked by DM as per surveillance scheme mentioned hereinafter in this report.

13.3 In granting this Technical Approval, Dubai Municipality makes no representation to:

- The presence or absence of patent or similar rights subsisting in HK LOW CONDUCTIVITY TIES,
- The legal right of “ISOFOAM ENGINEERING PRODUCTS” to market HK LOW CONDUCTIVITY TIES, in the Emirate of Dubai.

13.4 The Technical Approval shall not be used in such manner as to bring Dubai Municipality into disrepute and “ISOFOAM ENGINEERING PRODUCTS” shall not make any statement which Dubai Municipality may consider as misleading.

13.5 Surveillance

- Inspection and testing  
Dubai Municipality maintains the right to inspect the factory and products at any time without prior notice and to collect samples from the products available at the client’s factory, warehouses or at any building site within Dubai Emirate, for the purpose of verification and/or testing.

Alternatively, an agreement may be signed between DCL and any suitable certification or inspection agency accredited by the International Accreditation Service (IAS)] to act on behalf of DCL in conducting surveillance visits to the factory to monitor the quality of the manufacturing system and of products.

- Declarations of shipments  
“ISOFOAM ENGINEERING PRODUCTS” shall provide Dubai Central Laboratory (DCL) in writing with details of all deliveries in Dubai whenever requested by DCL and shall keep records of such deliveries for examination by Dubai Central Laboratory personnel.
- Complaints  
“ISOFOAM ENGINEERING PRODUCTS” shall provide Dubai Central Laboratory (DCL) in writing with details of all records of complaints received whenever requested by DCL and shall keep records of such complaints for examination by Dubai Central Laboratory personnel.
- Cost of sampling and testing  
“ISOFOAM ENGINEERING PRODUCTS” shall bear the cost of sampling and testing of the product either at Dubai Central Laboratory (DCL) or at any other DCL approved laboratory. The testing laboratory may be any local, regional or international laboratory.

13.6 TA mark shown in the following image shall be part of the labeling/markings by box marking



13.7 Failing to satisfy the conditions of this Technical Approval Certificate may be grounds for terminating the Technical Approval.

#### 14 Disclaimer

The Dubai Municipality - Dubai Central Laboratory Department shall not be held liable for any action (legal or otherwise) raised by any party on matters resulting from implementation of the Technical Approval.