

# CERTIFICATE OF PRODUCT CONFORMITY

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

*hereby attests that the product(s)*

**PLASTBAU-METAL**

**SELF SUPPORTING EXPANDED POLYSTYRENE (EPS) MEAM WITH EMBEDDED GALVANIZE STEEL STRIPS**

*(Details as per the attached Scope of Certification)  
manufactured by:*

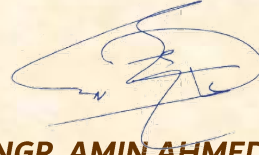
**CONCRETE TECHNOLOGY LLC.**

**RAS ALKHAIMAH. U.A.E.**

*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:*

**TAR-035**

*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-035

Valid Until: 05/11/2019



Current Issue Date: 06/11/2018

Original Issue Date: 08/04/2008

*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

CONCRETE TECHNOLOGY L.L.C. – DUBAI – UAE

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Email: [plastbau@concretec.ae](mailto:plastbau@concretec.ae)

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

## 2 Product trade name

PLASTBAU-METAL

## 3 Manufacturer

CONCRETE TECHNOLOGY L.L.C. -RAS AL KHAIMAH, U. A. E

## 4 Product Description

"PLASTBAU-METAL" is an Expanded Polystyrene (EPS) beam with embedded galvanized steel strips to provide a self supporting characteristic.

## 5 Product characteristics

"PLASTBAU-METAL" is produced in different thicknesses with a weight of 6-8 kg/m<sup>2</sup>. Thicknesses in mm are 180, 200, 220, 240, 260, 280, 300 and 320. The beams are 600mm width.

The Expanded Polystyrene (EPS) used in manufacturing the "PLASTBAU-METAL" beams shall comply with the requirements of ASTM C 578, type VIII product.

The metal z-shape elements embedded in the EPS are 0.8mm thick zinc coated steel sheets. For the purpose of structural properties, "PLASTBAU-METAL" is designed to bear the loads shown in the following table:

Plastbau Code	Plastbau-Metal Beam thickness (mm)	Applied load* (KN/m <sup>2</sup> )
PB 18/ 3 to 8	180	2.88
PB 20/ 3 to 8	200	2.95
PB 22/ 3 to 8	220	3.00
PB 24/ 3 to 8	240	3.07
PB 26/ 3 to 8	260	3.14
PB 28/ 3 to 8	280	3.19
PB 30/ 3 to 8	300	3.26
PB 32/ 3 to 8	320	3.32

\* These loads are based on the following criteria:

Dead load = Weight of roof RC web & screed cover for the Plastbau-Metal beams with 15% safety factor.

Live load = Expected live loads of working team (1.8 kN/m<sup>2</sup>) with a 30% safety factor.

Loading span = 1.5m

## 6 Product Intended use

"PLASTBAU-METAL" is used as a forming system for joisted reinforced concrete floors.

When used in buildings or similar constructions, internal surfaces of polystyrene material of "PLASTBAU-METAL" shall be covered by suitable thermal barriers such as gypsum plasterboards or equivalent products. Thermal barriers shall be capable of resisting fires for a minimum time duration that complies with the Dubai Civil Defense requirements. In this regard, Dubai Civil Defense approval shall be sought for each and every project where "PLASTBAU-METAL" is to be used.

## 7 Scope of approval

This Technical Approval covers the "PLASTBAU-METAL" as described in clause 4 above.

## 8 Installation

During construction, "PLASTBAU-METAL" shall be placed over 1.5m maximum spaced supports.

Care shall be practiced during construction as to protect the "PLASTBAU-METAL" from impact loads since polystyrene may be punctured or otherwise damaged from such loads.

## 9 Conditions of Approval

9.1 This approval is granted only to "CONCRETE TECHNOLOGY L.L.C.", No other company, firm or person may hold or claim any entitlement to this Technical Approval.

9.2 This Technical Approval will remain valid for the period shown on the Approval Certificate provided that:

9.2.1 The characteristics of the product are unchanged,

9.2.2 Surveillance checking and/or testing by Dubai Municipality shows compliance with the requirements of this Technical Approval.

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

9.3.1 The presence or absence of patent or similar rights subsisting in "PLASTBAU-METAL",

9.3.2 The legal right of "CONCRETE TECHNOLOGY L.L.C." to market "PLASTBAU-METAL", in the Emirate of Dubai.

9.4 The Technical Approval shall not be used in such manner as to bring Dubai Municipality into disrepute and "CONCRETE TECHNOLOGY L.L.C." shall not make any statement which Dubai Municipality may consider as misleading.

9.5 Surveillance

9.5.1 Inspection and testing

Dubai Municipality maintains the right to inspect the product at any time without prior notice and to collect samples from the product available at any building site within Dubai Emirate, for the purpose of verification and/or testing.

9.5.2 Declarations of shipments

"CONCRETE TECHNOLOGY L.L.C." shall keep records of all deliveries to customers in Dubai. These records shall be open to examination by Dubai Central Laboratory personnel if requested.

9.5.3 Complaints

"CONCRETE TECHNOLOGY L.L.C." 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.

9.5.4 Cost of sampling and testing

"CONCRETE TECHNOLOGY L.L.C." shall bear the cost of all surveillance visits, sampling and testing of the product either at Dubai Central Laboratory or at any other laboratory approved by Dubai Central Laboratory. The testing laboratory may be any local, regional or international laboratory.

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

9.7 TA mark shown in the following image shall be part of labeling / marking



10 Disclaimer

10.1 The Dubai Municipality - Dubai Central Laboratory Department shall not be held liable for installation the product in the site.

10.2 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.