



Incoming Date: August 5, 2026

Outgoing Date: August 11, 2026

Customer: Delta Egyptian Company



Technical Report on Galvanized Steel Pipe Tests

Based on the request of Delta Egyptian Company to conduct mechanical tests, measure the galvanization layer, and measure dimensions on samples of 3/4 inch longitudinally welded galvanized steel pipes for electrical cables, supplied by the client as shown in the pictures, we inform you that the tests were conducted in the laboratories of the Faculty of Engineering, Cairo University, according to standard specifications No. UL797, and the results were as follows:



First: Visual Inspection:

Results of the visual examination	Distinctive pipe markings
The pipes are perfectly round, longitudinally welded, and have no protrusions or bulges on the external and internal surfaces, nor are there any sharp edges.	2018/19EMT ANSI C80.3 3/4" Made in Egypt

Second: Galvanization Test on Pipes:

Thickness of the galvanized layer on both sides together (microns)	Weight of the galvanized coating on both sides together (g/m ²)
49.02	350



Dr. madh

Third: Dimensional Measurements of Pipes:

Weight (g/m)	Wall Thickness (mm)	Outer Diameter (mm)	Length (mm)
684.73	1.25	23.45	1027

Fourth: Mechanical Properties

Flattening test	90-Degree Bend	Elongation (%)	Yield Resistance (N/mm ²)	Tensile Strength (N/mm ²)
No cracks appeared on the sample.	No cracks appeared on the sample.	26.5	239.0	364.5

Based on the high results, the galvanized pipe samples conform to the requirements of the UL797 specification.

The results shown represent only the samples that were tested, and any use of them to represent other quantities is the responsibility of the supplier.

Principal Investigator

Prof. Dr. Mahmoud Kamel Mohamed Ahmed



Center Director

Dr. Hassan Abdel Rahman Attia





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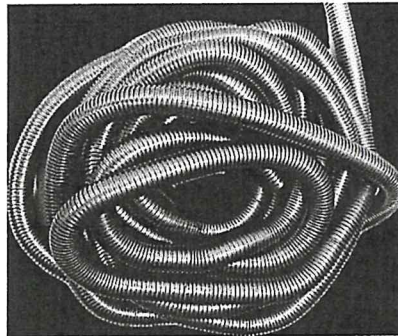
Technical Report on Testing Metal Connections (Electrical Supplies)

Based on a request from Delta Egyptian Company to conduct the necessary tests on metal connections (electrical supplies) from the company's products supplied to us by the client, and their details are as follows:

1. Metal Flexi-Pipe $\frac{3}{4}$ "
2. Box 10 x 10
3. Electrical Box (Magic)
4. Bushing $\frac{3}{4}$ "
5. Lacquer $\frac{3}{4}$ "
6. Clamp $\frac{3}{4}$ "

We would like to inform you that the tests were conducted in the laboratories of the Faculty of Engineering, Cairo University, in accordance with standard specification UL 514 B, and the results were as follows:

First: Flexible Metal $\frac{3}{4}$ ":

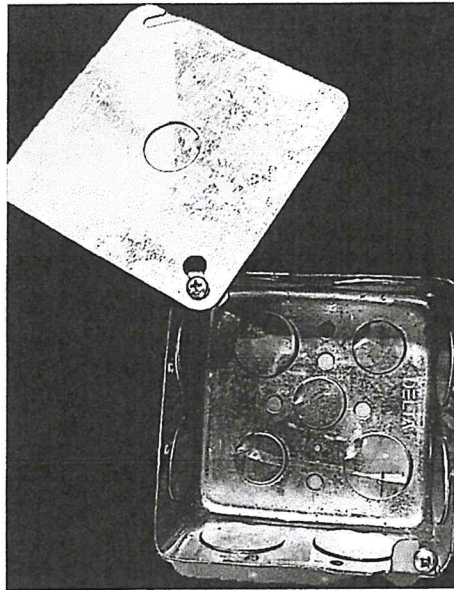


Thickness of the galvanized layer on both sides together (microns)	Minimum Bending Diameter (mm)	Inner Diameter (mm)	Outer Diameter (mm)	Thickness (mm)	Distinctive features
48.9	110	24.8	28.85	0.55	-----

Based on the high results, the galvanized $\frac{3}{4}$ " Flexible pipe metal samples conform to the requirements of UL 514 B specification.



Second: Box 10 x 10:



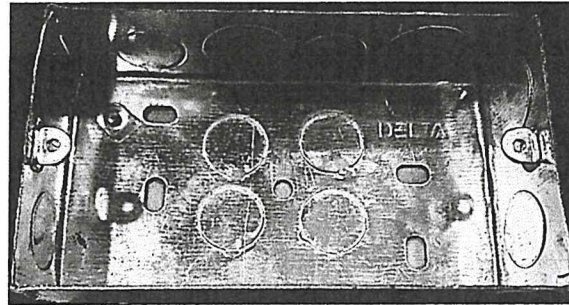
Thickness of the galvanized layer on both sides together (microns)	Dimensions (mm)	Sheet metal thickness (mm)	Description	Distinctive Features
50.3	102 x 101.5 Height 39.2 - 10 holes with a diameter of 26.4 mm and 3 holes with a diameter of 20.3 mm	1.0	A galvanized sheet metal box with a lid secured by two screws; further details are shown in the picture.	DELTA

Based on the high results, the 10 x 10 galvanized box samples conform to the requirements of UL 514 B specification.



Signature

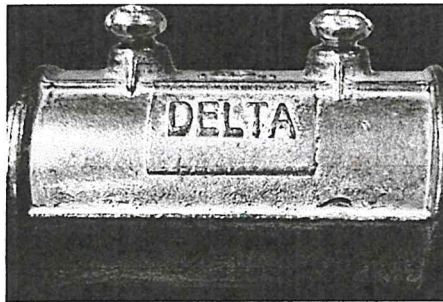
Third: Electrical box (Magic):



Thickness of the galvanized layer on both sides together (microns)	Dimensions (mm)	Sheet metal thickness (mm)	Description	Distinctive Features
50.2	102 x 62.5 Height 51.7 - 8 holes with a diameter of 26.4 mm and 4 holes with a diameter of 20.3 mm	1.00	A galvanized sheet metal box with a lid secured by two screws; further details are shown in the picture.	DELTA

Based on the high results, the galvanized (Magic) electrical box samples conform to the requirements of UL 514 B specification.

Fourth: ¾" bushing:

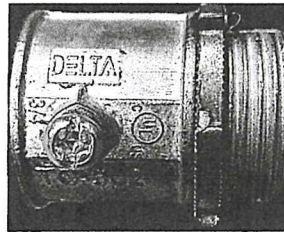


bushing length (mm)	Inner Diameter (mm)	Description	Distinctive Features
47.1	24.2	As shown in the picture	zinc bushing DELTA TC 512

Based on the high results, the ¾" bushing samples conform to the requirements of UL 514 B specification.



Fifth: Lacour size $\frac{3}{4}$ ":



Threaded length (mm)	Length of the lacour (mm)	Inner Diameter (mm)	Description	Distinctive Features
11	4.65	24.2	As shown in the picture	Lacor of zinc DELTA TC 512

Based on the high results, the $\frac{3}{4}$ " laminate samples conform to the requirements of UL 514 B specification.

Sixth: clamp $\frac{3}{4}$ inch:



Thickness of the galvanized layer on both sides together (microns)	Length of the clamp (mm)	Inner Diameter (mm)	Description	Distinctive Features
47.8	15.65	23.33	As shown in the picture	DELTA-EMT-3/4

Based on the high results, the clamp $\frac{3}{4}$ " samples conform to the requirements of UL 514 B specification.

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