



RESEARCH AND DEVELOPMENT DEPARTMENT
ELECTRICAL EQUIPMENT TESTING DIVISION
GENERAL EQUIPMENT TESTING SECTION
256 Nakhonchaisri Road Thanon Nakhonchaisri, Dusit Bangkok 10300
Tel. 0-2242-5402, 0-2242-5405 Fax. 0-2242-5125

TEST REPORT GT. NO. 1074 / 2548

Intermediate Metal Conduit, Zinc Coated (IMC.Conduit)

ท่อเหล็กกล้าเคลือบสังกะสี สำหรับใช้ร้อยสายไฟฟ้าประเภทที่ 2

ห้างหุ้นส่วนจำกัด รุ่งอรุณแสงการไฟฟ้า

เครื่องหมายผลิตภัณฑ์ : ABSO



Certified By.....
(Mr.Somchai Rongwasinkul)
Director of Electrical Equipment Testing Division
Research and Development Department

GT No 1074/2548

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The test result does not concern any electrical system energization. The result in this Test Report relates only to the item tested, and does not certify the quality of any products having same brand or trade mark sold in the market. This Test Report shall not be used for advertisement and shall not be reproduced except in full, without the written approved of the testing laboratory.

FM-TEC-09-04 แก้ไขครั้งที่ 01 เริ่มใช้วันที่ 23 มกราคม 2547

นรณ.17025-2543



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TEST REPORT

Customer : Rung Jaras Sang Electric Ltd.,Part.
63 Jaras Muang Rd., Patumwan Bangkok Thailand 10330

Referred to : RJS 016/2548 ลงวันที่ 22 พฤษภาคม 2548
(TSR 1074/48 ลงวันที่ 2 สิงหาคม 2548)

Test Specimen : ท่อเหล็กกล้าเคลือบสังกะสี สำหรับใช้ร้อยสายไฟฟ้าประเภทที่ 2
Intermediate Metal Conduit, Zinc Coated (IMC.Conduit)

Manufacturer : Rung Jaras Sang Electric Ltd.,Part.

Supplier : Rung Jaras Sang Electric Ltd.,Part.

Characterization and Condition
: The samples were visually inspected and found in good condition before test.


Sample Quantity : 10 Sample.


Date of receipt : June 01, 2005

Date of test : August 02, 2005

Reference Standard : TIS.770-2533 Standard for Zinc Coated Steel Conduits for Electrical Wiring
UL 1242-1983 * Intermediate Conduit. ANSI C 80.6 Intermediate Metal Conduit.

Test Result : As shown in the next page

Checked By 
(Mr.Satapana Onchantr)
Electrical Engineer
Date 18 AUG 2005

Verified By 
(Mr. Chairatana Suppavatee)
Chief of General Equipment Testing Section
Date 18 AUG 2005

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TEST REPORT

Intermediate Metal Conduit, Zinc Coated (IMC. Conduit)
ท่อเหล็กกล้าเคลือบสังกะสี สำหรับใช้ร้อยสายไฟฟ้า ประเภทที่ 2

Applicable Standard : Standard for Zinc Coated Steel Conduits for Electrical Wiring
TIS.770-2533

I. Dimension and Weight

Trade size of Tubing (Dia.)		Out side Diameter (mm.)		Wall thickness (mm.)		Length without Coupling (mm.)	
mm.	Inch	Spec.	Inspected	*Spec.	Inspected	Spec.	Inspected
15	½	20.7 ±0.2	20.7	1.79±0.40	1.79	3030 ± 6	3030
20	¾	26.1 ±0.2	26.2	1.90±0.40	1.90	3030 ± 6	3030
25	1	32.8 ±0.2	32.8	2.16±0.40	2.16	3025 ± 6	3029
32	1 ¼	41.6 ±0.2	41.6	2.16±0.50	2.16	3025 ± 6	3029
40	1 ½	47.8 ±0.2	47.8	2.29±0.50	2.29	3025 ± 6	3029
50	2	59.9 ±0.2	59.9	2.41±0.50	2.41	3025 ± 6	3030
65	2 ½	72.6 ±0.2	72.6	3.56±0.50	3.56	3010 ± 6	3015
80	3	88.3 ±0.2	88.3	3.56±0.50	3.56	3010 ± 6	3012
90	3 ½	100.9 ±0.2	100.9	3.56±0.50	3.56	3005 ± 6	3010
100	4	113.4 ±0.2	113.4	3.56±0.50	3.56	3005 ± 6	3005

Remark. *minus is zero

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3. Weight of Conduit with coupling

Trade size of tubing		Minimum Weight (kgs./10ea.)		Test Result
mm.	Inch.	Spec.	Inspected	
15	½	25.4	26.1	Passed
20	¾	34.6	35.0	Passed
35	1	49.9	52.0	Passed
32	1 ¼	64.3	65.0	Passed
40	1 ½	79.1	80.0	Passed
50	2	105.2	107.0	Passed
65	2 ½	186.2	188.0	Passed
80	3	229.0	232.0	Passed
90	3 ½	263.0	264.0	Passed
100	4	296.1	298.0	Passed

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4. Zinc Coating (Test method : by magnetic Test meter)

The zinc content of the coating on the outside surface shall be equivalent to a minimum thickness of 20 Micron

Trade size of tubing		Thickness of zinc coating (Microon)		Test Result
mm.	Inch.	Sample No.1	Sample No.2	
15	½	49	35	Passed
20	¾	34	50	Passed
35	1	32	37	Passed
32	1 ¼	20	42	Passed
40	1 ½	31	40	Passed
50	2	25	36	Passed
65	2 ½	58	34	Passed
80	3	36	50	Passed
90	3 ½	61	51	Passed
100	4	39	47	Passed

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5. Ductility Test : Bending properties

Requirement : The test sample shall be without developing cracks in the metal or showing any visible signs of spits or injurious defected in weld area.

Trade size of tubing		Test Result			
mm.	Inch.	Sample No.1	Sample No.2	Sample No.3	Sample No.4
15	½	Passed	Passed	Passed	Passed
20	¾	Passed	Passed	Passed	Passed
35	1	Passed	Passed	Passed	Passed
32	1 ¼	Passed	Passed	Passed	Passed
40	1 ½	Passed	Passed	Passed	Passed
50	2	Passed	Passed	Passed	Passed
65	2 ½	Passed	Passed	Passed	Passed
80	3	Passed	Passed	Passed	Passed
90	3 ½	Passed	Passed	Passed	Passed
100	4	Passed	Passed	Passed	Passed

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6. Dimensions and tolerance of thread

Trade size of tubing		Size of thread (Thread/inch)		Length of thread (millimeter)	
mm.	Inch.	Spec.	Inspected	Spec.	Inspected
15	½	14	14	19.8	19.8
20	¾	14	14	20.1	20.1
35	1	11 ½	11 ½	24.9	24.9
32	1 ¼	11 ½	11 ½	25.7	25.7
40	1 ½	11 ½	11 ½	26.2	26.2
50	2	11 ½	11 ½	26.9	26.9
65	2 ½	8	8	39.9	39.9
80	3	8	8	41.4	41.4
90	3 ½	8	8	42.7	42.7
100	4	8	8	43.9	43.9

Marking : ABSO IMC

UL 1242 MADE IN THAILAND

Test / Supervised By : *SLD*

(Mr.Somkid Srimek)

Electrical Equipment Tester Technic 7

Date : 18 AUG 2005

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