



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. 1075 / 2548

Rigid Steel Conduit, Zinc Coated (RSC.Conduit)

ท่อเหล็กกล้าเคลือบสังกะสี สำหรับใช้ร้อยสายไฟฟ้าประเภทที่ 3

ห้างหุ้นส่วนจำกัด รุ่งจริยแสงการไฟฟ้า

เครื่องหมายผลิตภัณฑ์ : ABSO



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

GT No 1075/2548

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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

มธท.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 015/2548 ลงวันที่ 22 พฤษภาคม 2548
(TSR 1075/48 ลงวันที่ 2 สิงหาคม 2548)

Test Specimen : ท่อเหล็กถักเคลือบสังกะสี สำหรับใช้ร้อยสายไฟฟ้า ประเภทที่ 3
Rigid Steel Conduit, Zinc Coated (RSC.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 : 12 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
ANSI C 80.1 1986 Rigid Steel Conduit, Zinc Coated

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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กรมการไฟฟ้าส่วนภูมิภาค กระทรวงพลังงาน วันที่ 01 สิงหาคม 2548

รณ.17025-2543



TEST REPORT

Rigid Steel Conduit, Zinc Coated (RSC.Conduit)
ท่อเหล็กกล้าเคลือบสังกะสี สำหรับใช้ร้อยสายไฟฟ้า ประเภทที่ 3

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

1. Dimension check 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	21.3 ±0.4	21.3	2.64-12.5%	2.64	3030 + 6	3030
20	¾	26.7 ±0.4	26.7	2.72-12.5%	2.72	3030 + 6	3030
25	1	33.4 ±0.4	33.4	3.20-12.5%	3.20	3025 + 6	3030
32	1 ¼	42.2 ±0.4	42.2	3.38-12.5%	3.38	3025 + 6	3026
40	1 ½	48.3 ±0.4	48.3	3.51-12.5%	3.51	3025 + 6	3026
50	2	60.3 ±0.4	60.3	3.71-12.5%	3.71	3025 + 6	3030
65	2 ½	73.0 ±0.6	73.0	4.90-12.5%	4.90	3010 + 6	3015
80	3	88.9 ±0.6	88.9	5.21-12.5%	5.21	3010 + 6	3015
90	3 ½	101.6 ±0.6	101.6	5.46-12.5%	5.46	3005 + 6	3004
100	4	114.3 ±0.6	114.30	5.72-12.5%	5.72	3005 + 6	3008
125	5	141.3 ± 1.5	141.3	6.22-12.5%	6.22	3000 + 6	3000
150	6	168.0 ± 1.5	168.0	6.76-12.5%	6.76	3000 + 6	3000

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2. Dimensions and Weight of coupling

Trade size of Tubing (Dia.)		Out side Diameter (mm.) *		Minimum Length (mm.)		Minimum Weight (mm.)	
mm.	Inch	Spec.	Inspected	Spec.	Inspected	Spec.	Inspected
15	½	25.7 - 0.4	25.7	41.3	41.3	0.052	0.060
20	¾	31.8 - 0.4	31.8	41.7	43.0	0.077	0.080
25	1	38.7 - 0.4	38.7	50.0	51.0	0.136	0.170
32	1 ¼	47.5 - 1%	47.5	51.6	53.4	0.168	0.200
40	1 ½	54.7 - 1%	54.7	52.4	54.0	0.234	0.270
50	2	67.3 - 1%	67.3	54.0	57.7	0.304	0.340
65	2 ½	82.6 - 1%	82.3	81.0	82.5	0.760	0.950
80	3	98.3 - 1%	98.3	84.1	86.0	0.946	1.040
90	3 ½	111.1 - 1%	111.1	86.5	88.0	1.157	1.550
100	4	123.8 - 1%	123.8	89.3	90.0	1.288	1.660
125	5	152.4 - 1%	152.4	100.0	101.0	2.024	2.070
150	6	123.8 - 1%	182.9	108.0	110.0	3.303	3.800

Remark * + not limited

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3. Weight of Conduit with Coupling

Trade size tubing		Minimum Weight (mm.)		Test Result
mm.	Inch.	Spec.	Inspected	Sample No. 1
15	½	35.8	36.0	Passed
20	¾	47.6	50.0	Passed
35	1	69.4	70.0	Passed
32	1 ¼	91.1	94.0	Passed
40	1 ½	113.0	113.0	Passed
50	2	151.0	151.0	Passed
65	2 ½	239.0	250.0	Passed
80	3	310.0	320.0	Passed
90	3 ½	373.0	446.0	Passed
100	4	441.0	476.0	Passed
125	5	596.0	615.0	Passed
150	6	792.0	795.0	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 Tubing		Thickness of zinc Coating		Test Result
mm.	Inch.	Sample No.1	Sample No.2	
15	½	60	57	Passed
20	¾	67	60	Passed
25	1	69	62	Passed
32	1 ¼	100	58	Passed
40	1 ½	80	72	Passed
50	2	85	71	Passed
65	2 ½	69	65	Passed
80	3	80	80	Passed
90	3 ½	105	71	Passed
100	4	112	62	Passed
125	5	98	90	Passed
150	6	90	54	Passed

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5. Ductility Test : Bending properties

Requirement : the test samples shall be without Developing Cracks in the metal or showing any visible signs of splits or Injurious Defected in weld area.

Trade size 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
25	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
125	5	Passed	Passed	Passed	Passed
150	6	Passed	Passed	Passed	Passed

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6. Dimensions and Tolerance of thread

Trade size Tubing		Size of thread (tread / inch)		Length of thread (millimeter)	
mm.	Inch.	Spec.	Inspected	Spec.	Inspected
15	½	14	14	19.8	20.5
20	¾	14	14	20.1	24.0
25	1	11 ½	11 ½	24.9	26.7
32	1 ¼	11 ½	11 ½	25.7	26.7
40	1 ½	11 ½	11 ½	26.2	29.5
50	2	11 ½	11 ½	26.9	27.0
65	2 ½	8	8	39.9	40.0
80	3	8	8	41.4	45.0
90	3 ½	8	8	42.7	42.8
100	4	8	8	43.9	43.9
125	5	8	8	46.7	47.0
150	6	8	8	49.5	49.8

Marking : ABSO

RIGID STEEL CONDUIT

ANSI STANDARD C.80.1

Test / Supervised By : *SLU*

(Mr.Somkid Srimek)

Electrical Equipment Tester Technic 7

Date : 18 AUG 2005

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