

BANGKOK, 2018
TAM PATRA

EMT IMC RSC

WHITE CONDUIT
ZINC-COATED STEEL
FOR ELECTRICAL WIRING

TIS 770-2533

NIPPON

NIPPON

TIS 770-2533

PLEASE CONTACT :

DISTRIBUTION BY :
NIPPON PIPE (THAILAND) CO.,LTD.
154 MOO 5, PANTAINORASINGHA DISTRICT,
SAMUTSAKHON CITY, SAMUTSAKHON PROVINCE,
THAILAND, 74000

MANUFACTURE BY :
THAI STEEL ELECTRIC INDUSTRY LTD.,PART.
14 SAMAEDUM 17, SAMAEDUM SUB-DISTRICT,
BANGKHUNTIEN DISTRICT, BANGKOK,
THAILAND, 10150

WWW.NIPPONCONDUIT.COM

NIPPON

NIPPON is a company, with one goal : to deliver
the highest quality product and service solution
that contribute to our customer's success.

We are committed to exceeding the quality
requirement and expectations of our customers
and continual improvement of all aspects of
our business. This goal will be achieved through
our focus on these quality objectives :

> Meeting and exceeding customer requirements and product standards.
> Providing the highest level of product quality and service
> Producing and delivering product on-time
> Producing at the lowest possible cost

TONY WONG
DIRECTOR,
NIPPON PIPE (THAILAND) CO.,LTD.
Stated 2016,

"QUALITY, You can trust"
Galvanized steel for electrical wiring system
Over 20 years, we are rich experienced

TIS 770-2533

NIPPON

CONTENTS

1. COMPANY PROFILE
2. MATERIAL SUBMISSION LIST
3. SPECIFICATION, COMPARISION, CATALOGUE
4. CERTIFICATION
5. REFERRENCE

NIPPON
COMPANY PROFILE

COMPANY NAME	:	NIPPON PIPE(THAILAND) CO.,LTD.
FOUNDER	:	MR.TANINTHORN WONGCHAROENCHAICHANA
ESTRABLISHED	:	2016, JANUARY 4
REGISTERED CAPITAL	:	THB 1,000,000
ADDRESS	:	154 MOO 5, PANTAINORASINGHA DISTRICT, SAMUTSAKHON CITY, SAMUTSAKHON PROVINCE THAILAND, 74000
NO. OF EMPLOYEE	:	10 PEOPLE (APPROX.)
SCOPE OF PRODUCT	:	ELECTRICAL RACEWAY EMT : ELECTRO ZINC PLATTING IMC : ELECTRO ZINC PLATTING RSC : HOT DIP ZINC GALVANIZE

CONTACT INFORMATION

TELEPHONE	:	(+66) 34 448 999
FAX	:	(+66) 34 448 909
EMAIL	:	INFO@NIPPONCONDUIT.COM
WEBSITE	:	WWW.NIPPONCONDUIT.COM

GROUP OF COMPANY

TANINTHORN METAL WORK CO.,LTD.

THAI STEEL ELECTRIC INDUSTRY LTD.,PART.

NIPPON PIPE (THAILAND) CO.,LTD.

DYNAMIC (THAILAND) CO.,LTD.

P.S.R.ELECTRIC SUPPLY CO.,LTD.

NIPPON

MATERIAL SUBMISSION LIST

PRODUCT	:	ELECTRICAL STEEL CONDUIT
BRAND	:	NIPPON
MATERIAL	:	STEEL, ZINC GALVANIZE
ORIGIN	:	THAILAND

TYPE	TRADE SIZE	STANDARD
EMT	1/2” - 2”	TIS 770-2533, ANSI C80.3, UL797
IMC	1/2” - 4”	TIS 770-2533, ANSI C80.6, UL1242
RSC	1/2” - 6”	TIS 770-2533, ANSI C80.1, UL6

TIS 770-2533

NIPPON
SPECIFICATION
COMPARISION

EZ Pull | Electrical Metallic Tubing (EMT):



AN EASY PULLING ELECTRICAL WIRING SOLUTION

With internal enamel coating, EZ Pull offers exceptional wire-pulling performance. A lightweight, smooth-pull wiring solution, easy to bend, yet tough for all locations that comply with the UL-797, including dry,wet, exposed, concealed or hazardous locations.

Lightweight, Easy to install

Mild Steel, Easy to precise bend

Additional clear coating, corrosion resistance and more brigher exterior surface

Smooth enamel coating, faster wire pulling performance and free from defects injurious to conductors

Original Zinc Electro-Platting
Brighter smoothly zinc coated surface which luxury gentle, zinc coated thickness are over 20 µm.

Interior Enamel spray coating
The inside diameter is sprayed with a proprietary coating for corrosion resistance and easy wire pulling.

STANDARD:
ANSI C80.3
UL 797
TIS 770-2533

GALVANIZATION:
Type I : Electro-Zinc Platting
Type II : Hot-Dip Galvanized
Type III : Pre-Zinc Galvanized

HOT-DIP GALVANISED AVAILABLE

TRADE SIZE		OUTSIDE DIAMETER		INSIDE DIAMETER*		LENGTH		WALL THICKNESS*		WEIGHT*	
In.	mm.	In.	mm.	In.	mm.	Ft.	mm.	In.	mm.	lbs.	Kgs.
½"	15	0.706	17.93	0.622	15.80	10	3050	0.042	1.07	2.85	1.272
¾"	20	0.922	23.42	0.824	20.93	10	3050	0.049	1.25	4.35	1.305
1"	25	1.163	29.54	1.049	26.64	10	3050	0.057	1.45	6.40	2.856
1¼"	32	1.510	38.35	1.380	35.05	10	3050	0.065	1.65	9.50	4.242
1½"	40	1.740	44.20	1.610	40.89	10	3050	0.065	1.65	11.00	4.911
2"	50	2.197	55.80	2.067	52.50	10	3050	0.065	1.65	14.00	6.249
2½"	65	2.875	73.03	2.731	69.37	10	3050	0.072	1.83	21.62	9.806
3"	80	3.500	88.90	3.356	85.24	10	3050	0.072	1.83	26.34	11.947
3½"	90	4.000	101.60	3.834	97.38	10	3050	0.083	2.11	34.97	15.862
4"	100	4.500	114.30	4.334	110.08	10	3050	0.083	2.11	39.35	17.848

** For information only, not a UL 797 requirement.*
Applicable tolerances: Length: 10' (3.05 m) ± ¼" (± 6.4 mm.), Wall Thickness: ± 10%
Outside diameter: ½" through 2": ± 0.005" (16 through 53: ± 0.13 mm.), 2 ½: ± 0.010" (63: ± 0.25 mm.),
3: ± 0.015" (78: ± 0.38 mm.), 3 ½ and 4: ± 0.020" (91 and 103: ± 0.5 mm.)

STRONG WAY | Intermediate Metal Conduit (IMC):



A LIGHTER-WEIGHT SOLUTION TO RIGID STEEL CONDUIT

IMC Conduit weighs 30% less than RSC conduit but provides a highlevel of protection for conductors and cables installed in areas potentially exposed to served physical damage. It also offers corrosion protection for installation in dry, wet, exposed, concealed or hazardous locations that comply with the UL-1242

In-House CNC Threading

Double end threading

Additional clear coating, corrosion resistance and more brigher exterior surface

Smooth enamel coating, faster wire pulling performance and free from defects injurious to conductors

Original Zinc Electro-Platting
Brighter smoothly zinc coated surface which luxury gentle, zinc coated thickness are over 20 µm.

Interior Enamel spray coating
The inside diameter is sprayed with a proprietary coating for corrosion resistance and easy wire pulling.

STANDARD:
ANSI C80.6
UL 1242
TIS 770-2533

GALVANIZATION:
Type I : Electro-Zinc Platting
Type II : Hot-Dip Galvanized
Type III : Pre-Zinc Galvanized

HOT-DIP GALVANISED AVAILABLE

TRADE SIZE		OUTSIDE DIAMETER*		INSIDE DIAMETER**		LENGTH		WALL THICKNESS*		WEIGHT	
In.	mm.	In.	mm.	In.	mm.	Ft.	mm.	In.	mm.	lbs.	Kgs.
½"	15	0.825	20.70	0.660	16.76	10	3030	0.078	1.97	5.59	2.54
¾"	20	1.029	26.14	0.869	22.07	10	3030	0.083	2.10	7.62	34.6
1"	25	1.290	32.77	1.105	28.07	10	3025	0.093	2.35	11.00	4.99
1¼"	32	1.638	41.59	1.448	36.77	10	3025	0.095	2.41	14.17	6.43
1½"	40	1.883	47.82	1.683	42.74	10	3025	0.100	2.54	17.43	7.91
2"	50	2.360	59.93	2.150	54.60	10	3025	0.105	2.67	23.19	10.52
2½"	65	2.857	72.57	2.557	64.95	10	3010	0.150	3.81	41.05	18.62
3"	80	3.476	88.29	3.176	80.67	10	3010	0.150	3.81	50.48	22.90
3½"	90	3.971	100.86	3.671	93.24	10	3005	0.150	3.81	57.98	26.30
4"	100	4.466	113.44	4.166	105.82	10	3005	0.150	3.81	65.27	29.61

** Figures are the average of the maximum and minimum dimensions as given in UL-1242.*
*** Calculated from nominal outside diameter and nominal wall thickness. Applicable tolerances: Length: 10' (3.05 m) ± ¼" (± 6.4 mm.), Outside diameter: ½" through 1": ± 0.015" (16 through 25: ± 0.38 mm.), 1¼" through 4" : ± 0.025" (32 through 100: ± 0.64 mm.), Wall thickness: ½" through 2": 0.010" ± (16 through 50: ±0.2 mm.), 2½" through 4": 0.012" ± (65 through 100: ±0.3 mm.)*
Steel IMC is manufactured to produce a 10' (3.05 m) length of conduit when a standard coupling is attached.

HEAVY DUTY | Rigid Steel Conduit (RSC):



THE ULTIMATE ELECTRICAL WIRE AND CABLE PROTECTION

The best wire and cable protection, it's thick wall against physical damage, and hot-dip galvanized both exterior and interior provided the durability to withstand the most corrosive environments for installation in dry, wet, exposed, concealed or hazardous locations that comply with the UL-6

Post Hot-Dip Galvanized
In-House CNC Threading
Double end threading

Additional clear coating, corrosion resistance and more brigher exterior surface

Smooth enamel coating, faster wire pulling performance and free from defects injurious to conductors

Original Hot-Dip Galvanized
Both exterior and interior with hot-dip galvanized.The best corrosion protection.

Interior Enamel spray coating
The inside diameter is sprayed with a proprietary coating for corrosion resistance and easy wire pulling.

STANDARD:
ANSI C80.1
UL 6
TIS 770-2533

GALVANIZATION:
Type II : Hot-Dip Galvanized

TRADE SIZE		OUTSIDE DIAMETER*		INSIDE DIAMETER**		LENGTH		WALL THICKNESS*		WEIGHT	
In.	mm.	In.	mm.	In.	mm.	Ft.	mm.	In.	mm.	lbs.	Kgs.
½"	15	0.840	21.34	0.632	16.05	10	3030	0.103	2.64	14.90	3.585
¾"	20	1.050	26.67	0.836	21.23	10	3030	0.107	2.72	10.50	4.763
1"	25	1.315	33.40	1.063	27.00	10	3025	0.125	3.20	15.30	6.940
1¼"	32	1.660	42.16	1.394	35.41	10	3025	0.133	3.38	20.09	9.117
1½"	40	1.900	48.26	1.624	41.25	10	3025	0.138	3.51	24.90	11.295
2"	50	2.375	60.33	2.083	52.91	10	3025	0.146	3.71	33.20	15.060
2½"	65	2.875	73.03	2.489	63.22	10	3010	0.192	4.90	52.70	23.905
3"	80	3.500	88.90	3.090	78.49	10	3010	0.205	5.21	68.26	30.963
3½"	90	4.000	101.60	3.570	90.68	10	3005	0.214	5.46	83.10	37.694
4"	100	4.500	114.30	4.050	102.87	10	3005	0.225	5.72	97.23	44.104
5"	125	5.563	141.30	5.073	128.85	10	3000	0.244	6.22	131.36	59.585
6"	150	6.625	168.28	6.093	154.76	10	3000	0.266	6.76	174.53	79.167

** Figures are the average of the maximum and minimum dimensions as given in UL-6.*

*** Calculated from nominal outside diameter and nominal wall thickness. Applicable tolerances: Length: 10' (3.05 m) ± ¼" (± 6.4 mm.), Outside diameter: ½" through 2": ± 0.015" (16 through 50: ± 0.38 mm.), 2 ½" through 6" : ± 0.025" (65 through 150: ± 0.64 mm.), Wall thickness: -12.5% Steel RSC is manufactured to produce a 10' (3.05 m) length of conduit when a standard coupling is attached.*

IMC COUPLINGS, ALSO HOT-DIP RSC COUPLING



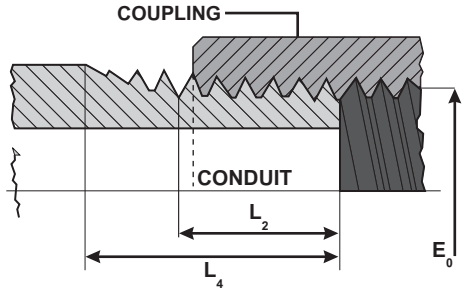
IN-HOUSE THREADING
FIT TO CONDUIT

In-House CNC Threading

Additional clear coating, corrosion resistance and more brigher exterior surface

TYPE:
IMC
RSC

GALVANIZATION:
Type I : Electro-Platting
Type II : Hot-Dip Galvanized



CROSS SECTION DRAWING

TRADE SIZE		OUTSIDE DIAMETER		PITCH DIAMETER (E_0)		LENGTH		THREAD		
In.	mm.	In.	mm.	In.	mm.	In.	mm.	Overall (L_4)	Effective (L_2)	per inch
½"	15	1.011	25.70	0.758	19.26	1.625	41.30	19.80	13.50	14
¾"	20	1.251	31.80	0.967	24.58	1.641	41.70	20.10	14.00	14
1"	25	1.523	38.70	1.213	30.83	1.968	50.00	24.90	17.30	11½
1¼"	32	1.870	47.50	1.557	39.55	2.031	51.60	25.70	18.00	11½
1½"	40	2.153	54.70	1.796	45.62	2.062	52.40	26.20	18.30	11½
2"	50	2.649	67.30	2.268	57.63	2.125	54.00	26.90	19.30	11½
2½"	65	3.251	82.60	2.719	69.08	3.188	81.00	39.90	29.00	8
3"	80	3.870	98.30	3.340	84.85	3.311	84.10	42.40	30.50	8
3½"	90	4.374	111.10	3.837	97.47	3.405	86.50	42.70	31.80	8
4"	100	4.874	123.80	4.334	110.09	3.515	89.30	43.90	33.00	8
5"	125	6.000	152.40	5.389	136.90	3.937	100.00	46.70	35.80	8
6"	150	7.200	182.90	6.444	163.70	4.251	108.00	49.50	38.400	8

ELBOW



IN-HOUSE BEND
RIGHT ANGLE°

Our professional people, tooling and equipment are experience to delivery superior products, every customer and everytime without an accident.

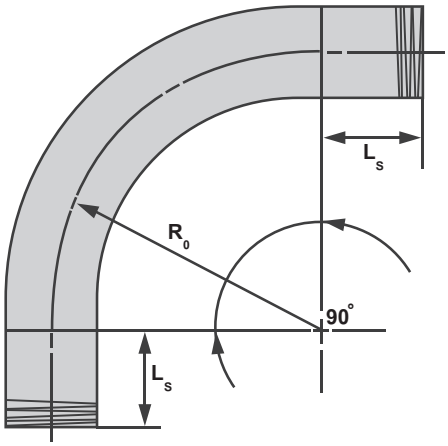
Any Bend Angle
90°, 45°, 30°

Precise Angle

Faster Insatllation

TYPE:
EMT
IMC
RSC

GALVANIZATION:
Type I : Electro-Zinc Platting
Type II : Hot-Dip Galvanized
Type II : Pre-Zinc Galvanized





BRAND : NIPPON

PRODUCT : EMT, IMC, RSC

SPECIFICATION	NIPPON
1. GENARAL REQUIREMENT	AS FOLLOW TIS 770-2533 STANDARD
2. CORROSION PROTECTION	EMT : ELECTRO ZINC PLATTING, > 25 µm INSIDER ENAMEL COATED PRE-ZINC GALVANISED > 16 µm IMC : ELECTROC ZINC PLATTING, > 30 µm INSIDER ENAMEL COATED PRE-ZINC GALVANISED > 16 µm RSC : HOT DIP ZINC GALVANIZE, > 80 µm INSIDER ENAMEL COATED
3. LENGTH	AS FOLLOW TIS 770-2533 STANDARD
4. SIZE	EMT : 1/2” - 4 ” IMC : 1/2” - 6” RSC : 1/2” - 6”

NIPPON
CERTIFICATION
TEST REPORT


NIPPON
REFERENCE

COMMERCIAL

Suvarnabhumi International Airport, Samutprakarn
Donmueng International Airport, Bangkok
Siam Paragon, Bangkok
Siam Discovery, Bangkok
MBK Center, Bangkok
Summer Hill, Bangkok
AIS Building Sathorn, Bangkok

RESIDENCE

A Space ME Rattanathibet, Nonthaburi

INDUSTRIAL

Honda, Rayong
Thai Michelin, Rayong

GOVERNMENT

Government Center, Cheangwattana, Bangkok
Klongteoy Port, Bangkok

INFRASTRUCTURE

33 Highway, Sakaeo
12 Highway, Tak
35 Thonburi - Pakto Highway, Bangkok
BTS, Bangkok
MRT, Bangkok
Nakhon-In - Rama V Tunnel, Nonthaburi
Nonthaburi Bridge 1, Nonthaburi
Rama IX Bridge, Bangkok
Donmueng Tollway, Bangkok
Thai-German Bridge, Bangkok
Thai-Belguim Bridge, Bangkok