ROYAL STEEL INDUSTRY

QUALITY CONDUIT FOR TOUGH WORK

AMERICAN STANDARD

RIGID STEEL CONDUIT (RSC)

INTERMEDIATE METAL CONDUIT (IMC)

ELECTRICAL METALLIC TUBING (EMT)

BURN® BRITISH STANDARD

HOT - DIPPED GALVANIZED BS 4568 CLASS 4

ABOUT COMPANY

For over two decades, **Royal Steel Industry Co., Ltd.** has been manufacturing a wide range of tubing for a diverse field of industries. As the manufacturer of **BURN** and **RSI** brand's range of steel tubes and conduits, the company has been in the forefront of production processes and manufacturing technology to provide the global marketplace with a comprehensive range of products in cable protection.

With strict production procedures and processes in our own factories, we manufacture products conforming to British (BS and BS EN) and American Standards (ANSI) under a fully certified BS EN ISO 9001:2008 System.

OUR PRODUCTS

RSI Steel Conduits are manufactured in accordance with ANSI and British Standards :

1. Rigid Steel Conduit (RSC)	Standard: ANSI C80.1-1983
2. Intermediate Metal Conduit (IMC)	Standard: ANSI C80.6-1983
3. Electrical Metallic Tubing (EMT)	Standard: ANSI C80.3-1983
4. British Standard Conduit (BURN)	Standard: BS4568 Part 1 : 1970 Class 4, BS EN 50086-1:1994, BS EN 50086-2 :1996

FEATURES

1. Processed by high frequency induction welding to prevent flattening and splitting and made from high quality steel.
2. Have its inside bead removed by special designed bead removing machine.
3. Galvanized process has been provided in 2 categories :
   - 3.1 Hot-Dipped Galvanized
   - 3.2 Electro Galvanized
4. Both end of **RSC** and **IMC** conduit has been protected by Zinc rich epoxy primer.
5. **RSC** and **IMC** conduit coupling has been external Hot-Dipped Galvanized and internal protected by Zinc rich epoxy primer.
6. Colour marking has conformed to **TIS** Thai Industrial Standard :
   - 6.1 Type **RSC** : Black
   - 6.2 Type **IMC** : Orange
   - 6.3 Type **EMT** : Green

BENEFITS

1. Easy and accurate bending
2. Easy wire pushing and pulling
3. High corrosion resistance

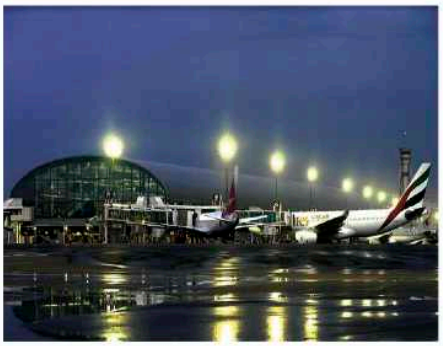
APPLICATION SUITABLE FOR

- Building
- General Industry
- Oil Refinery, Petrochemical Industry
- Power Plant, Mass Rapid Transport, Airport, and other various industries

PROJECT REFERENCES

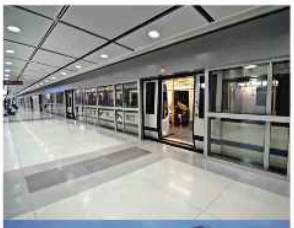
Singapore : Changi Airport

Qatar : New Doha International Airport



UAE : Dubai Airport

DOMESTIC PROJECTS (THAILAND)



Electrical Generating Authority of Thailand

- Wang Noi Project
- Krabi Project
- Ratchaburi Project

IPP & SPP Power Plant

- COCO 1 – 3 Plant
- Tri-Energy Plant
- Thai-Oil Plant

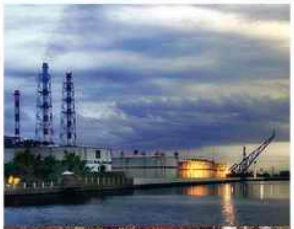
Refinery, Oil & Gas, Petrol Chemical Plant

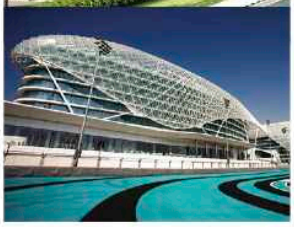
- STAR Refinery
- NSCT Plant
- Rayong Refinery

Heavy Industry & Infrastructures

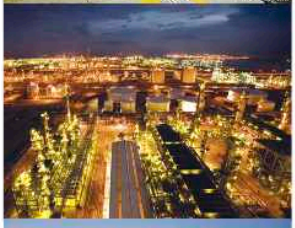
- Suvarnabhumi Airport
- Bangkok Express Way Project Stage 1-3
- MRTA Project
- Talingchan-Bhuddhamontol Bridge Royal Project

INTERNATIONAL PROJECTS





- Changi Airport Line (Singapore)
- Esplanade Mall (Singapore)
- Marina Bay Sands IR (Singapore)
- MRT Line (Singapore)
- Nanyang Technological University (Singapore)
- Muara Karang Repowering Combined Cycle Power Plant Project (Indonesia)
- Asean Bintulu Fertiliser Plant, Sarawak (Malaysia)
- PetroVietnam Southern Centre, Ho Chi Minh (Vietnam)
- Light Rail Transit Line 1 (Philippines)
- SKY WAY & MET Project (Philippines)
- Dubai International Airport Expansion (UAE)
- Dubai Metro (UAE)
- Sky Towers Al Reem Island (UAE)
- Mall of Emirates (UAE)
- Burj Dubai Tower (UAE)
- New Doha International Airport (Qatar)
- Qatar Armed Force Wireless Project (Qatar)
- Qatar Gas QG 3&4 Offshore Facilities Project - QP (Qatar)
- Cairo Electricity Production Company (Egypt)
- Power Generation Engineering And Services (PGESCO) (Egypt)
- Sokhna Airport (Egypt)
- ST & T Sewerage Treatment Plant (Kingdom of Saudi Arabia)
- Fire Station (Riyadh) (Kingdom of Saudi Arabia)



BRITISH AND AMERICAN STANDARDS

RSI Conduits are manufactured from high quality steel. They are continuously formed and induction welded with strict quality control to ensure smooth internal weld bead; an important criteria for conduit application **RSI** conduits comply with **BS** and **ANSI** Standards including **UL** approval for **EMT, IMC, RSC.**

UNIQUE FEATURES OF RSI CONDUITS :

- Hot-Dipped Galvanized with maximum surface protection.
- Excellent mechanical strength and durability.
- Exceptionally bright and shiny external finish.
- Every conduits' internal weld bead are removed by a specially designed machine, each length is then cleaned and 100% inspected ensuring a smooth interior finish for safe and easy wire pulling and pushing.
- Each thread end is re-painted with zinc coating after threading to prevent corrosion.
- Each length is supplied with a coupling and a protective color cod cap to prevent thread damage.
- Ideal for heavy and medium duty environmental applications like petrol-chemical, marine, oil refinery, power plant, cold storage, general industrial and commercial buildings.

BS4568:PART 1:1970 Class 4

HEAVY PROTECTION GALVANIZING BOTH INSIDE AND OUTSIDE

Item Code	Trade Size (mm)	Outside Diameter (mm)		Wall Thickness	Minimum Weight of Ten Unit Lengths with Coupling
		Minimum	Maximum	(mm)	(kgs)
C-BN-B020H	20	19.7	20	1.6 ± 0.15	27.90
C-BN-B025H	25	24.6	25	1.6 ± 0.15	35.62
C-BN-B032H	32	31.6	32	1.6 ± 0.15	46.50

EMT

AMERICAN STANDARD ELECTRICAL METALLIC TUBING (ANSI C80.3-1983)

Item Code	Trade Size (inch)	Outside Diameter		Wall Thickness		Minimum Acceptable Weight	
		inch	mm	inch	mm	lbs/ft	kg/m
C-BN-E050H	1/2	0.706	17.9	0.042	1.07	0.285	0.424
C-BN-E075H	3/4	0.922	23.4	0.049	1.24	0.435	0.647
C-BN-E100H	1	1.163	29.5	0.057	1.45	0.640	0.952
C-BN-E125H	1-1/4	1.510	38.3	0.065	1.65	0.950	1.414
C-BN-E150H	1-1/2	1.740	44.2	0.065	1.65	1.10	1.637
C-BN-E200H	2	2.197	55.8	0.065	1.65	1.40	2.083

Applicable Tolerance :

- Outside Diameter ± 0.2 mm

IMC

AMERICAN STANDARD INTERMEDIATE METAL CONDUIT (ANSI C80.6-1983)

Item Code	Trade Size (inch)	Outside Diameter	Wall Thickness	Length without Coupling	Minimum Weight of Ten Unit Lengths with Coupling
		mm	mm	mm	kg
C-BN-I050H	1/2	20.7 ± 0.2	1.79 + 0.4	3030 ± 6.0	25.4
C-BN-I075H	3/4	26.1 ± 0.2	1.90 + 0.4	3030 ± 6.0	34.6
C-BN-I100H	1	32.8 ± 0.2	2.16 + 0.4	3025 ± 6.0	49.9
C-BN-I125H	1-1/4	41.6 ± 0.2	2.16 + 0.5	3025 ± 6.0	64.3
C-BN-I150H	1-1/2	47.8 ± 0.2	2.29 + 0.5	3025 ± 6.0	79.1
C-BN-I200H	2	59.9 ± 0.2	2.41 + 0.5	3025 ± 6.0	105.2
C-BN-I250H	2-1/2	72.6 ± 0.3	3.56 + 0.5	3010 ± 6.0	186.2
C-BN-I300H	3	88.3 ± 0.3	3.56 + 0.5	3010 ± 6.0	229.0
C-BN-I350H	3-1/2	100.9 ± 0.3	3.56 + 0.5	3005 ± 6.0	263.0
C-BN-I400H	4	113.4 ± 0.3	3.56 + 0.5	3005 ± 6.0	296.1

RSC

AMERICAN STANDARD RIGID STEEL CONDUIT, ZINC COATED (ANSI C80.1-1983)

Item Code	Trade Size (inch)	Outside Diameter	Wall Thickness	Length without Coupling	Minimum Weight of Ten Unit Lengths with Coupling
		mm	mm	mm	kg
C-BN-R050H	1/2	21.3 ± 0.4	2.64	3030 ± 6.0	35.8
C-BN-R075H	3/4	26.7 ± 0.4	2.72	3030 ± 6.0	47.6
C-BN-R100H	1	33.4 ± 0.4	3.20	3025 ± 6.0	69.4
C-BN-R125H	1-1/4	42.2 ± 0.4	3.38	3025 ± 6.0	91.1
C-BN-R150H	1-1/2	48.3 ± 0.4	3.51	3025 ± 6.0	113
C-BN-R200H	2	60.3 ± 0.4	3.71	3025 ± 6.0	151
C-BN-R250H	2-1/2	73.0 ± 0.6	4.90	3010 ± 6.0	239
C-BN-R300H	3	88.9 ± 0.6	5.21	3010 ± 6.0	310
C-BN-R350H	3-1/2	101.6 ± 0.6	5.46	3005 ± 6.0	373
C-BN-R400H	4	114.3 ± 0.6	5.72	3005 ± 6.0	441
C-BN-R500H	5	141.3 ± 1.5	6.22	3000 ± 6.0	596
C-BN-R600H	6	168.3 ± 1.5	6.76	3000 ± 6.0	792

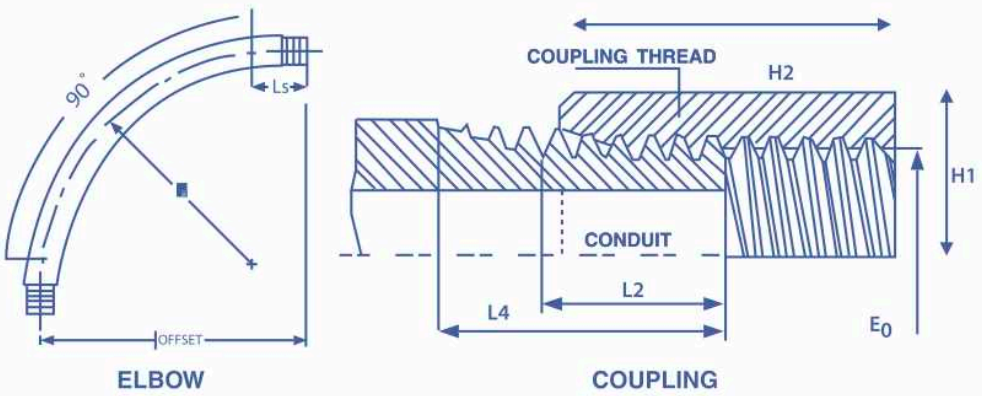
Above Specifications Available in both HOT-DIPPED GALVANIZED AND ELECTRO GALVANIZED

Elbow

Trade Size	Min Radius to Center of Conduit	Min Straight Length Ls at Each End
(inch)	mm	mm
1/2	101.60	38.10
3/4	114.30	38.10
1	146.05	47.63
1−1/4	184.15	50.80
1−1/2	209.55	50.80
2	241.30	50.80
2−1/2	266.70	76.20
3	330.20	79.38
3−1/2	381.00	82.55
4	406.40	85.73
5	609.60	92.08
6	762.00	95.25

Dimensions of Threads for Steel Conduit and Coupling

Trade Size	Thread per Inch	Pitch Dia. at End of Thread E_0	Length of Thread		Outside Diameter H_1	Min Acceptable Length of Coupling H_2
			Effective L_2	Overall L_4		
(inch)		mm	mm		mm	mm
1/2	14	19.3	13.5	19.8	25.7	41.3
3/4	14	24.6	14.0	20.1	31.8	41.7
1	11½	30.8	17.3	24.9	38.7	50.0
1−1/4	11½	39.5	18.0	25.7	47.5	51.6
1−1/2	11½	45.6	18.3	26.2	54.7	52.4
2	11½	57.6	19.3	26.9	67.3	54.0
2−1/2	8	69.1	29.0	39.9	82.6	81.0
3	8	84.9	30.5	41.4	98.3	84.1
3−1/2	8	97.5	31.8	42.7	111.1	86.5
4	8	110.1	33.0	43.9	123.8	89.3
5	8	136.9	35.8	46.7	152.4	100.0
6	8	163.7	38.4	49.5	182.9	108.0



CERTIFICATES

STANDARD : TIS 770/2533

CERTIFICATE NO. : (1) 626-39/770, (1) 627-40/770, (1) 628-41/770, (1) 629-42/770, (1) 630-43/770, (1) 631-44/770

SCOPE OF REGISTRATION :

SPECIFICATION FOR STEEL CONDUIT AND FITTINGS WITH TIS STANDARD FOR TYPE 2 HOT-DIPPED GALVANIZED AND TYPE 1 ELECTRO GALVANIZED

TIS 770/2533

STANDARD : UL 797, UL 1242, UL 6

CERTIFICATE NO. : E306028, E211593, E306029

SCOPE OF REGISTRATION :

ANSI/UL 797, "Electrical Metallic Tubing – Steel"
ANSI/UL 1242, "Electrical Intermediate Metal Conduit – Steel"
ANSI/UL 6, "Electrical Rigid Metal Conduit – Steel"

E306028
E211593
E306029

STANDARD : BS EN ISO 9001:2008

CERTIFICATE NO. : AJA99/1408

SCOPE OF REGISTRATION :

MANUFACTURE OF HOT-DIPPED GALVANIZED ELECTRICAL CONDUIT AND ELECTRO GALVANIZED CONDUIT

ISO 9001-2008 Reg.No 059

STANDARD : BS4568 : PART 1 : 1970 : CLASS 4

CERTIFICATE NO. : 286/440/623

SCOPE OF REGISTRATION :

SPECIFICATION FOR STEEL CONDUIT AND FITTINGS WITH METRIC THREAD OF ISO FORM TO ELECTRICAL METALLATIONS PART 1 STEEL CONDUIT

BSI Product Services

HEAVY PROTECTION FORM HOT-DIPPED GALVANIZED CONDUITS

Trade Size	mm	Type	15	20	25	32	40	50	65	80	90	100	125	150
	inch		1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
EMT		2	◈	◈	◈	◈	◈	◈						
IMC		2	◈	◈	◈	◈	◈	◈	◈	◈	◈	◈		
RSC		2	◈	◈	◈	◈	◈	◈	◈	◈	◈	◈	◈	◈

BSI Product Services

UL E306028 E211593 E306029

ISO 9001-2008

UKAS QUALITY MANAGEMENT Reg.No 059

TIS 770/2533

QUALITY CONDUIT FOR TOUGH WORK

RSI

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