

A Product of Southern Steel Pipe Sdn. Bhd.

# THE COLOURED GALVANISED STEEL

Smartube, Your Smarter Choice!

... Southern Steel Pipe

MALAYSIA

Smartube CONDUIT

20mm

BS 4568

Smartube

DESCRIPTED TO A CONTROL FOR THE RESERVE OF PROPERTY PROPERTY AND A PROPERTY PROPERTY PROPERTY AND A PROPERTY PROPERTY PROPERTY AND A PROPERTY PROPERTY

IMC

Southern Steel Pipe MALAYSIA

Smartube CONDUIT

BS 31 MALAYSIA

CONDUIT

**BS 31** MALAYSIA

## LEADING THE STEEL PIPE INDUSTRY



A member of the Southern Steel Group of Companies, a leading steel mill in the region, SOUTHERN STEEL PIPE SDN.BHD. can trace its roots back to 1967 with the establishment of its parent company Southern Pipe Industry (Malaysia) Sdn. Bhd. which was founded as a joint-venture between Malaysia and Japan.

Today, the pipe group consists of two steel pipe factories in Malaysia, with a combine annual sales revenue of over USD100 million and an annual capacity that exceeds 200,000mt.

The many certifications garnered through the years are testament to the companies' steadfast commitment in providing only the best products & services. Among others, it has the distinction of being the first steel mill in the country to be awarded the ISO 9001:2000 certification. The group's product lines were being exported to countries all over the world.



ISO 9001:2000 Certificate from Bureau Veritas



#### ISO 9001:2000 Certificate from SIRIM QAS



## CERTIFICATES







IMC Certificate from UL



IMC Certificate from UL

EMT Certificate from UL for Canada



BS 31:1940 Certificate from SIRIM QAS

EMT Certificate from UL



BS 31:1940 Certificate from SIRIM QAS

# SMARTUBE CONDUIT

(In-line hot-dip galvanized conduit)

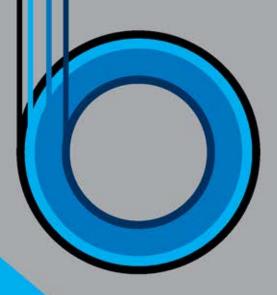
Utilising the latest, state-of-the-art in-line hot-dip galvanizing process, Smartube offer top notch galvanised and coloured finishes. Smartube is easy to bend simultaneously providing a smooth wire-pulling feature.

### **FEATURES**

- Easy wire pushing and pulling
   The slip coat on the inside wall makes wire-pulling easy, and protects against damages.
- (2) Advantages of colour conduits
  - Saves time
  - High quality finishing
  - Save cost

## CROSS-SECTIONAL VIEW OF SMARTUBE CONDUIT

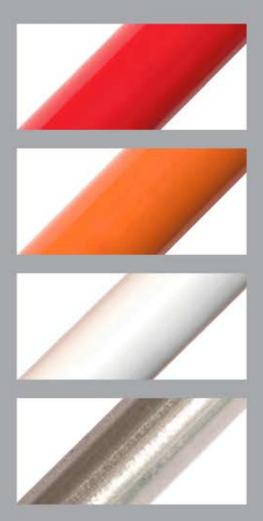
- Protective polymer coat (red, orange, white colours, and clear are available)
- In-line hot-dip galvanized coating
  - Steel
    - Slip coat



# COLOUR OPTIONS & APPLICATIONS FOR SMARTUBE CONDUIT

(In-line hot-dip galvanized conduit)

#### COLOURS



#### SMARTUBE RED

Fire alarm & security system

#### SMARTUBE ORANGE

- · Lighting & fibre optic system
- General system for machineries

#### SMARTUBE WHITE

- · Blends well in light coloured areas
- PA System & IT System

#### SMARTUBE CLEAR

Standard for conventional applications

# STANDARD & SPECIFICATIONS

Smartube conduit is manufactured conforming to the following standards:

- UL 797 (EMT)
- UL 1242 (IMC)
- BS 31
- BS 4568



#### EMT - ELECTRICAL METALLIC TUBING UL LISTED FILE NO. E313230

Trade Size Designator		Nominal Outside Diameter		Nominal Wall Thickness				Nominal Wt. Per 100 Ft. (30.5M)		Quantity In	
						ength	Nominal Weight			Primary Bundle	Master Bundle
mm	in.	mm	in.	mm	m	ff	kg/pc	lb.	kg.	Pcs	Pcs
16	0.706	17.9	0.042	1.07	3.050	10	1.46	32.19	14.60	10	700
21	0.922	23.4	0.049	1.25	3.050	10	2.21	48.72	22.10	10	500
27	1.163	29.5	0.057	1.45	3.050	10	3.08	67.90	30.80	10	300
35	1.510	38.4	0.065	1.65	3.050	10	4.74	104.50	47.40	5	200
41	1.740	44.2	0.065	1.65	3.050	10	5.49	121.03	54.90	5	150
53	2.197	55.8	0.065	1.65	3.050	10	6.99	154.10	69.90	3	120
63	2.875	73.0	0.072	1.83	3.050	10	10.16	223.99	101.60	-	61
	nator mm 16 21 27 35 41 53	mm in. 16 0.706 21 0.922 27 1.163 35 1.510 41 1.740 53 2.197	Size nator         Outside Diameter           mm         in.         mm           16         0.706         17.9           21         0.922         23.4           27         1.163         29.5           35         1.510         38.4           41         1.740         44.2           53         2.197         55.8	Size nator         Outside Diameter         Noming Thick           mm         in.         mm         in.           16         0.706         17.9         0.042           21         0.922         23.4         0.049           27         1.163         29.5         0.057           35         1.510         38.4         0.065           41         1.740         44.2         0.065           53         2.197         55.8         0.065	Size nator         Outside Diameter         Nominal Wall Thickness           mm         in.         mm         in.         mm           16         0.706         17.9         0.042         1.07           21         0.922         23.4         0.049         1.25           27         1.163         29.5         0.057         1.45           35         1.510         38.4         0.065         1.65           41         1.740         44.2         0.065         1.65           53         2.197         55.8         0.065         1.65	Size nator         Outside Diameter         Nominal Wall Thickness         Unit Le           mm         in.         mm         in.         mm         mm	Size nator         Outside Diameter         Nominal Wall Thickness         Unit Length           mm         in.         mm         in.         mm         ft           16         0.706         17.9         0.042         1.07         3.050         10           21         0.922         23.4         0.049         1.25         3.050         10           27         1.163         29.5         0.057         1.45         3.050         10           35         1.510         38.4         0.065         1.65         3.050         10           41         1.740         44.2         0.065         1.65         3.050         10           53         2.197         55.8         0.065         1.65         3.050         10	Size nator         Outside Diameter         Nominal Wall Thickness         Unit Length         Nominal Weight           mm         in.         mm         in.         mm         mm         mm         mm         mm         ft         kg/pc           16         0.706         17.9         0.042         1.07         3.050         10         1.46           21         0.922         23.4         0.049         1.25         3.050         10         2.21           27         1.163         29.5         0.057         1.45         3.050         10         3.08           35         1.510         38.4         0.065         1.65         3.050         10         4.74           41         1.740         44.2         0.065         1.65         3.050         10         5.49           53         2.197         55.8         0.065         1.65         3.050         10         6.99	Size nator         Outside Diameter         Nominal Thickness         Unit Length         Nominal Weight         Nominal 100 Ft. (matched)           mm         in.         mm         in.         mm         mm         ft         kg/pc         lb.           16         0.706         17.9         0.042         1.07         3.050         10         1.46         32.19           21         0.922         23.4         0.049         1.25         3.050         10         2.21         48.72           27         1.163         29.5         0.057         1.45         3.050         10         3.08         67.90           35         1.510         38.4         0.065         1.65         3.050         10         4.74         104.50           41         1.740         44.2         0.065         1.65         3.050         10         5.49         121.03           53         2.197         55.8         0.065         1.65         3.050         10         6.99         154.10	Size nator         Outside Diameter         Nominal Thickness         Unit Length         Nominal Weight         Nominal Wt. Per 100 Ft. (30.5M)           mm         in.         mm         in.         mm         mm         mm         ft         kg/pc         lb.         kg.           16         0.706         17.9         0.042         1.07         3.050         10         1.46         32.19         14.60           21         0.922         23.4         0.049         1.25         3.050         10         2.21         48.72         22.10           27         1.163         29.5         0.057         1.45         3.050         10         3.08         67.90         30.80           35         1.510         38.4         0.065         1.65         3.050         10         4.74         104.50         47.40           41         1.740         44.2         0.065         1.65         3.050         10         5.49         121.03         54.90           53         2.197         55.8         0.065         1.65         3.050         10         6.99         154.10         69.90	Nominal Outside   Nominal Wall Thickness   Unit Length   Nominal Weight   Nominal Wt. Per 100 Ft. (30.5M)   Bundle

Remarks: Trade size 1-1/2" (41mm) through 2-1/2" (63mm) pending UL approval.

#### IMC - INTERMEDIATE METAL CONDUIT UL LISTED FILE NO. E255245



Nominal		inal									Quantity In		
Trade Size Outside Designator Diameter		Minimum Wall Thickness		Length Without Coupling			Nominal Weight		Nominal Wt. Per 100 Ft. (30.5M)		Master Bundle		
in.	mm	in.	mm	in.	mm	m	ff	and in.	kg/pc	lb.	kg.	Pcs	Pcs
1/2	16	0.815	20.7	0.070	1.79	3.030	9	11-1/4	2.81	62.00	28.10	10	350
3/4	21	1.029	26.1	0.075	1.90	3.030	9	11-1/4	3.81	84.00	38.10	10	250
1	27	1.290	32.8	0.085	2.16	3.025	9	11	5.40	119.00	54.00	10	170
1-1/4	35	1.638	41.6	0.085	2.16	3.025	9	11	7.17	158.00	71.70	5	135
1-1/2	41	1.883	47.8	0.090	2.29	3.025	9	11	8.80	194.00	88.00	5	110
2	53	2.360	59.9	0.095	2.41	3.025	9	11	11.61	256.00	116.10	5	80
2-1/2	63	2.857	72.6	0.140	3.56	3.010	9	10-1/2	20.00	441.00	200.00	1-	37
3	78	3.476	88.3	0.140	3.56	3.010	9	10-1/2	24.63	543.00	246.30	=	30
3-1/2	91	3.971	100.9	0.140	3.56	3.005	9	10-1/4	28.53	629.00	285.30	<u>, 72</u>	24
4	103	4.466	113.4	0.140	3.56	3.005	9	10-1/4	31.75	700.00	317.50	( <del>-</del> 2	24

#### BS31: 1940 THREADED CONDUIT HEAVY GAUGE CLASS B

Trade Size Designator		Nominal Outside Diameter		Nominal Wall Thickness		Unit Length	ľ		Quantity In		
							Nominal Weight			Primary Bundle	Master Bundle
in.	mm	in.	mm	in.	mm	m	kg/pc	kg/m	kg/ft	Pcs	Pcs
3/4 19	0.745	18.9	0.063	1.6	3.05	2.14	0.70	0.21	10	50	
					3.81	2.67				50	
,		0.993	25.2	0.063	1.6	3.05	2.90	0.95	0.29	10	50
	25					3.81	3.62				50
2 244	32	1.245	31.6	0.063	1.6	3.05	3.66	1.20	0.37	5	25
1-1/4	32					3.81	4.57				25
1.1/0		1.493	37.9	0.071	1.8	3.05	5.00	1.64	0.50	5	05
1-1/2	1-1/2 38					3.81	6.25				25
2 50	50	50 1.992	50.6	0.080	2.0	3.05	7.44	2.44	0.74	3	16
2	2 50					3.81	9.30				15

# BS 4568: PART 1:1970 THREADED CONDUIT HEAVY GAUGE

	4						
	1		ĺ		Quantity In		
Nominal Outside Diameter	Nominal Wall Thickness	Unit Length m	No	minal Wei	Primary Bundle	Master Bundle	
mm	mm		kg/pc	kg/m	kg/ff	Bundle (Pcs)	Bundle (Pcs)
	1.6	3.00	2.14	0.713	0.217	10	
19.85		3.75	2.67				50
		3.81	2.72				
	1.6	3.00	2.71	0.903	0.275	10	50
24.80		3.75	3.39				
		3.81	3.44				
	1.6	3.00	3.56	1.185	0.361	5	
31.80		3.75	4.44				25
		3.81	4.51				
	mm 19.85 24.80	Diameter         Wall Thickness           mm         mm           19.85         1.6           24.80         1.6	Diameter         Wall Thickness         Length           mm         mm         m           19.85         1.6         3.75           3.81         3.00           24.80         1.6         3.75           3.81         3.00           31.80         1.6         3.75           3.75         3.81           3.00         3.75	Diameter         Wall Thickness         Length         No           mm         mm         kg/pc           19.85         1.6         3.00         2.14           3.75         2.67         3.81         2.72           3.00         2.71         3.00         2.71           24.80         1.6         3.75         3.39           3.81         3.44         3.00         3.56           31.80         1.6         3.75         4.44	Diameter         Wall Thickness         Length         Nominal Well           mm         mm         kg/pc         kg/m           19.85         1.6         3.00         2.14           3.75         2.67         0.713           3.81         2.72           3.00         2.71           3.81         3.44           3.00         3.56           31.80         1.6           3.75         4.44         1.185	Diameter         Wall Thickness         Length         Nominal Weight           mm         mm         kg/pc         kg/m         kg/ft           19.85         1.6         3.00         2.14         0.713         0.217           3.81         2.72         0.713         0.217         0.217           24.80         1.6         3.75         3.39         0.903         0.275           3.81         3.44         3.00         3.56         3.75         4.44         1.185         0.361	Nominal Outside Diameter         Nominal Wall Thickness         Unit Length         Nominal Weight         Primary Bundle           mm         mm         m         kg/pc         kg/m         kg/ft         Bundle (Pcs)           19.85         1.6         3.00         2.14         0.713         0.217         10           3.81         2.72         3.00         2.71         0.903         0.275         10           24.80         1.6         3.75         3.39         0.903         0.275         10           31.80         1.6         3.75         4.44         1.185         0.361         5





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