



# Emerald

Steel Industries L.L.C

We are proud to introduce ourselves  
as one of the very reputed company,  
executing very prominent projects  
in and around UAE

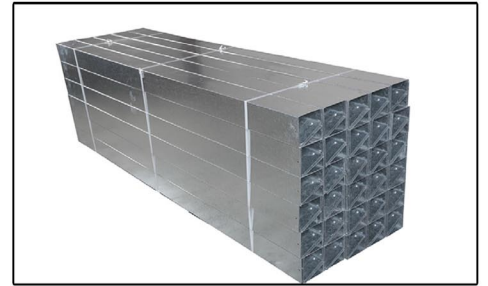
## Trunking Catalogue

## Emerald Product Range

### Cable Trunking

Emerald Trunking System is designed to provide containment for light applications such as Structured Cables and LV Systems.

It fully complies with the requirement of BS 4678 / BS 50085.



### Cable Ladder

Emerald Cable Ladder Systems had been designed for use in 'Heavy' Industry application such as Power Plants, Sub-Station, Oil Refiner-ies, Chemical Plants, Gas Plants, Military Facilities, Marine etc.

It fully complies with the requirements of BS EN 61537:2007 and Carries UL Certification.

PDMS Catalogue is available on request.



### Perforated Cable Trays

Emerald Perforated Cable Tray is designed to provide a Multi-Purpose Containment System to meet the general requirements of Electrical Installers. The system is easy to use and available in a wide range of widths and thickness.

It fully complies with the requirements of BS EN 61537:2007 and Carries UL Certification. PDMS Catalogue is available on request.



### Strut Channels, Fittings & Concrete Inserts

To Complement the Trunking, Ladder and Tray manufactured by Emerald, We are also able to offer the wide range of Strut Channels and Concert Inserts to support Trays, Ladders and Trunking.

We also offer wide range of bracketory and fittings.

It fully complies with the requirements of BS EN 6946-1988 and Carries UL Certification.



### Underfloor Trunking Systems

The Underfloor Trunking systems is designed for distribution of Power, Voice and Data buried under the screed. Materials: Pre-Galvanised steel sheet complies to BS EN 10142, ASTM, A653 or JISG 3302 Standard.





## Emerald Product Range

### Flushfloor Systems

The Flushfloor Trunking systems is designed to carry Power, Voice and Data Cables. This system is flushed with the screed/ finished floor. The Cover are Easily removable to accommodate Service Outlet Box.

Material: Pre-Galvanised steel sheet complies to BS EN 10142, ASTM, A653 or JISG 3302 Standard.



### Wire Mesh Cable Trays

Wire Mesh Cable Tray System is designed for distribution of Voice and Data Cables or Light Cables.

It fully complies with the requirements of BS 61537  
PDMS Catalogue is available on request.



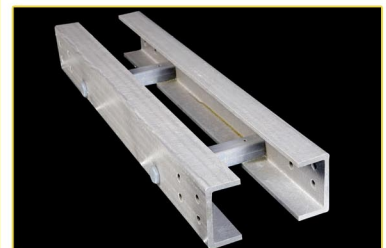
### FRP Cable Trays & Ladders

To Compliment the Metal range, Emerald also offer from a leading manufacture Intralink Techno Sdn Shd (INTECH), Fibreglass Reinforced Plastic (FRP) Materials for the Energy (Oil, Gas & Power), Petrochemical Industries & Special application in industrial projects.

Intralink Techno (INTECH) as wide range of products viz. FRP Cable Ladders &Trays, FRP Granting, FRP Structural Profile, FRP Tanks, FRP Pipes, FRP Chequer Plates, FRP Manhole Cover, FRP L Angle, FRP Nosing etc.

FRP products have distinct advantages over other metal products viz. Corrosion Resistant, Lightweight and Durable. Cost Effective, Superior UV Protection, High Impact Resistant & Elastic, High Strength & Stiffness, Fire Retardant and Low Thermal Conductivity & low Expansion Rate.

INTECH's Products have been tested to comply with major International Standards such as ASTM, BS, NEMA and UL. The Company is also ISO Certified, ABS Manufacturing Certificate.



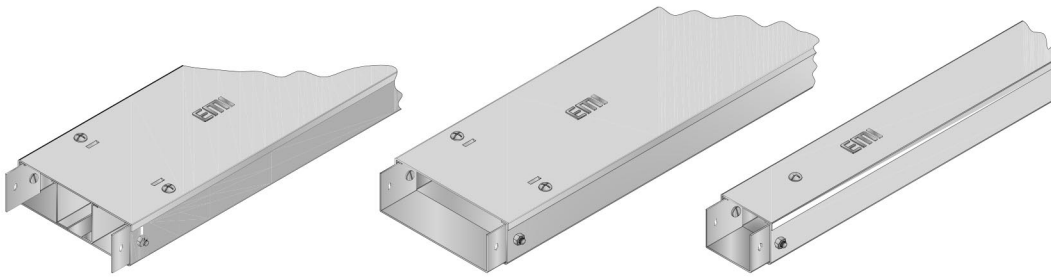
### Technical Data

Data Sheets detailing materials used, specifications and coating finishes available on request.

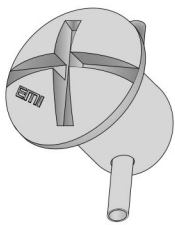
### Other Products Services

In addition to our manufacturing range we offer an extensive range of associated products detailed on the listed pages. These includes Batteries, Lightning Protection, Raised Flooring, Outlet Boxes, PVC Skirting Trunking, GRP/FRP Trays, Prefabricated Modular Cables for Tunnel Lighting and High Rise Building etc.

## Emerald -Trunking G.L Trunking System



**CABLE TRUNKING**



**Turnbuckle Lid Fixing**

### Standard Surface Trunking

Emerald Trunking is designed to provide a simple method of containing lightweight and structured cables. It is designed to meet all the requirements of BS 4678 & BS 50085. We offer a comprehensive range of standard Surface Trunking in single or multi-compartment.

Both the trunking and the body are supplied in 3 metre lengths complete with coupler and all necessary fixing screws.

Emerald uses complete weldless joints and fixing arrangement. The system also ensures earth continuity between body & lid and takes care of any variation in the sheet thickness & keeps the lid & body fully secured.

A wide range of Fittings and Accessories are also available to complement and complete the range.

Product guide on Page 6 of this catalogue.

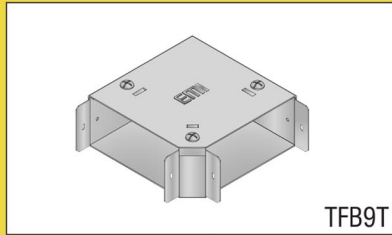
### Materials and Finishes

- Pre-Galvanized zinc coated steel JIS G3302 equivalent to BS EN 10142, (BS EN 10142 supersedes BS2989), ASTM A653.
- Pre-Galvanized zinc coated steel JIS G3302 equivalent to BS EN 10142, (BS EN 10142 supersedes BS2989), ASTM A653 with Epoxy Powder Coating with minimum film thickness 60 microns after fabrication.
- Hot dip galvanized with using Hot Rolled Steel to BS 10149-3: 1996, Cold Rolled Steel to BS EN 10130:2006 then post galvanizing as per BS EN 1461 (Formerly BS729), ASTM-A123.
- Stainless Steel Sheet to ASTM A240 type 304, 316L.
- Aluminum Grade AA1100.

#### **Note:**

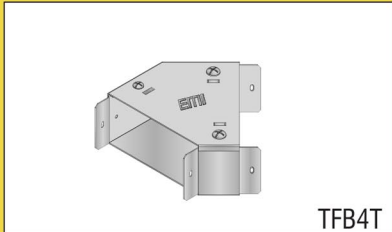
1. All drawings are for indicative purpose only. Emerald reserves the right to change product dimensions, specifications and details at any time without notice. All dimensions and material specification subject to commercial tolerance within published specification. 2. We reserve the right to make specification changes without notice. All dimensions and material specification subject to commercial tolerance within published specification. Emerald reserves the right to change product dimensions and details at any time without notice. 3. Emerald reserves the right to change perforation patterns without prior notice. 4. Technical drawings for all product can be provided on the request.

## Emerald G.I. Trunking Fittings & Accessories



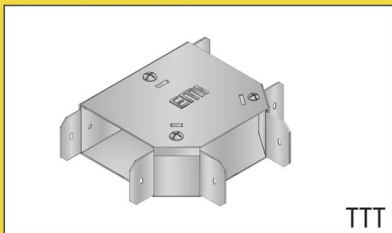
TFB9T

TOP LID BEND 90°



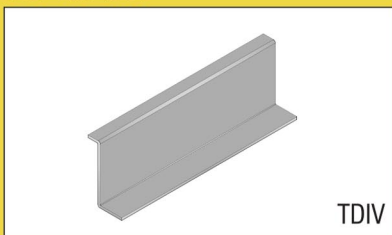
TFB4T

TOP LID BEND 45°



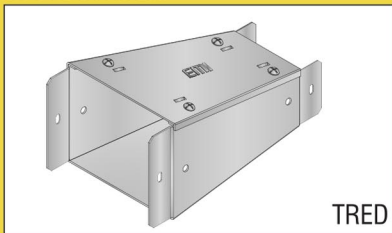
TTT

TOP LID TEE



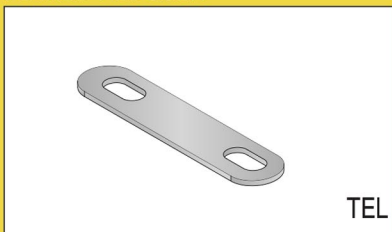
TDIV

LOOSE DIVIDER



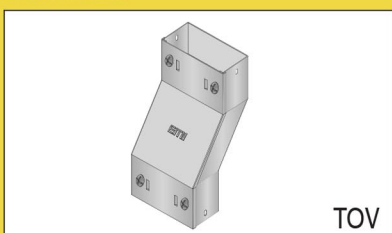
TRED

FLARED REDUCER



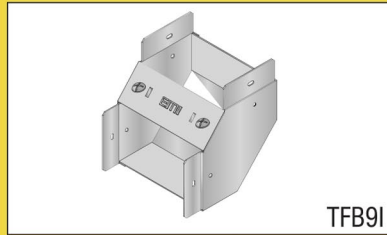
TEL

EARTH LINK



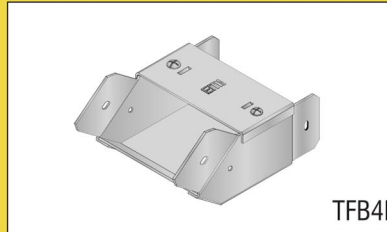
TOV

VERTICAL OFFSET



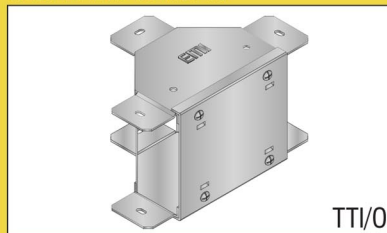
TFB9I

INSIDE LID BEND 90°



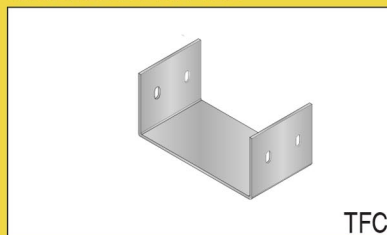
TFB4I

INSIDE LID BEND 45°



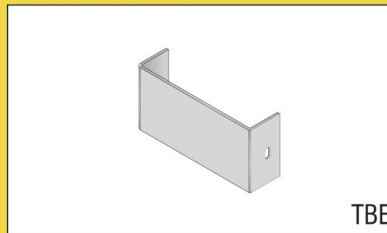
TTI/O

INSIDE/OUTSIDE TEE



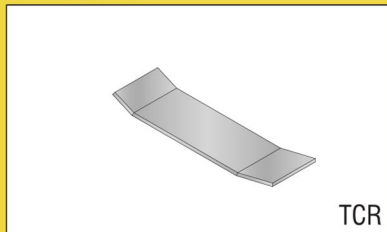
TFC

SHORT COUPLER



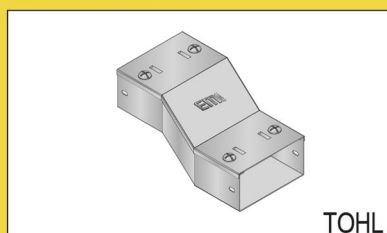
TBE

BLANK END



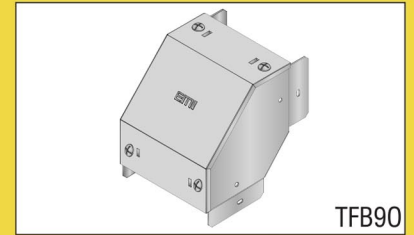
TCR

CABLE RETAINER



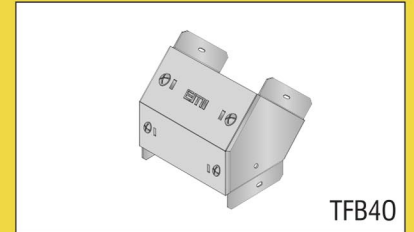
TOHL

HORIZONTAL OFFSET-LEFT HAND



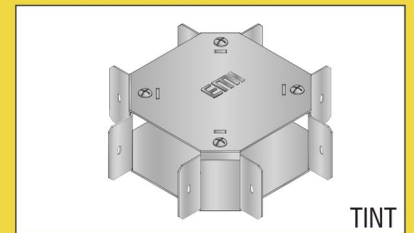
TFB9O

OUTSIDE LID BEND 90°



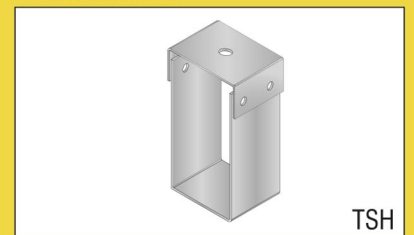
TFB4O

OUTSIDE LID BEND 45°



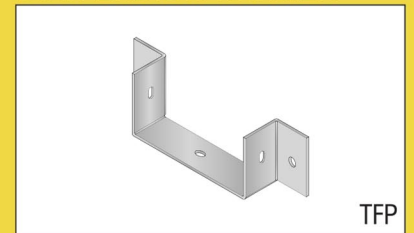
TINT

INTERSECTION



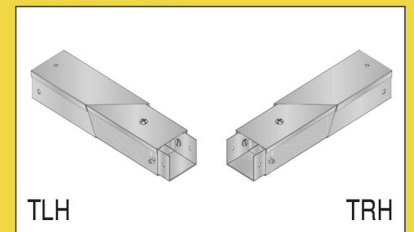
TSH

SUSPENSION HANGER



TFP

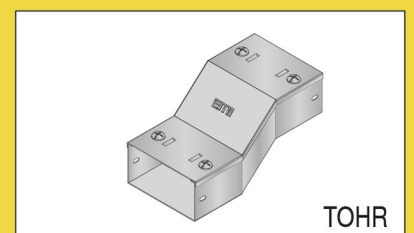
FLANGED END



TLH

TRH

LEFT HAND FACE OFF    RIGHT HAND FACE OFF



TOHR

HORIZONTAL OFFSET-RIGHT HAND



## Product Guide

Trunking Size (Width x Height x Thickness)		50 x 50 x 1.0	75 x 50 x 1.2	100x50 x 1.2	150x50 x 1.2	75 x 75 x 1.2	100x75 x 1.2	150x75 x 1.2	100 x 100 x 1.2	150 x 100 x 1.2	150 x 150 x 1.5
Product Description	Part No.										
Straight Length 3 mtr	TSL	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
90 deg Bend Top Lid	TFB9T	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
90 deg Bend Inside Lid	TFB9I	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
90 deg Bend Outside Lid	TFB9O	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
45 deg Bend Top Lid	TFB4T	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
45 deg Bend Inside Lid	TFB4I	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
45 deg Bend Outside Lid	TFB4O	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Tee Top Lid	TTT	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Tee Inside/Outside Lid	TTI/TTO	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Intersection Top Lid	TINT	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Blank End	TBE	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Flange Plate	TFP	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Flared Reducer	TRED	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Vertical Offset	TOV	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Cable Retainer	TCR	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Suspension Hanger	TSH	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Coupler	TFC	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Loose Divider	TDIV	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Right Hand Face Off	TRH	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Left Hand Face Off	TLH	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Horizontal Offset-Left Hand	TOHL	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Horizontal Offset-Right Hand	TOHR	/22	/32	/42	/ 62	/33	/43	/63	/44	/64	/66
Spare Turnbuckle	TTB										
Earth Link	TEL										
Screw and Nuts	HWSET										

Please note that when ordering multi-compartment trunking add /2 or /3 after the part numbers to denote 2 or 3 compartments Trunking ie 100 x 100 x 3 compartment = **TSL/44/1.0-3C**

Thicknesses above conform to BS 4678 table 1. **Other sizes and thicknesses can be supplied on request.**

## Trunking General Information

All Emerald Trunking is available in a range of thickness from 0.8mm to 2.0mm and is available in 1, 2, 3 or 4 compartments

In addition we can offer in alternative metal such as Stainless Steel to Grades 304 or 316 (L) and Aluminium. We can also offer in a variety of surface coating finishes such as Epoxy or Powder Coating.

## Trunking Loading Capacity Table

Trunking (Width x Height x Thickness)		Cable size mm <sup>2</sup>											
Size	Capacity	Solid Cable mm <sup>2</sup>		Stranded Cables mm <sup>2</sup>									
W x H		1.5	2.5	1.5	2.5	4	6	10	16	25	35	50	
50 x 50	1032	146	101	128	90	68	45	28	20	13	10	7	
75 x 50	1553	219	152	191	136	102	67	42	30	20	16	11	
100 x 50	2090	294	205	258	183	137	91	57	41	27	22	15	
150 x 50	3159	445	310	390	277	208	138	87	62	41	33	23	
75 x 75	2368	333	232	292	207	155	103	65	47	31	24	17	
100 x 75	3187	449	312	393	279	209	139	87	63	42	33	24	
150 x 75	4741	668	465	585	416	312	207	130	94	62	49	35	
100 x 100	4250	598	416	524	372	279	185	117	84	56	44	32	
150 x 100	6393	900	626	789	560	420	279	176	127	84	67	48	
150 x 150	9695	1365	950	1197	850	637	423	267	192	128	102	73	
Common Cable Factor		7.1	10.2	8.1	11.4	15.2	22.9	36.3	50.3	75.4	95	133	

This table shows the number of same sized cables that can be used in a length of Trunking. For mixed sizes of cables you must first determine the Common Cable Capacity Factor then locate the appropriate larger Trunking size.

Example;

Cable being used are 20 x 10mm<sup>2</sup> Stranded plus 25 x 2.5mm<sup>2</sup> Stranded plus 55 x 2.5mm<sup>2</sup> Solid.

$$20 (10 \text{ mm}^2) \times 36.3 = 726$$

$$25 (2.5 \text{ mm}^2) \times 11.4 = 285$$

$$55 (2.5 \text{ mm}^2) \times 10.2 = 561$$

$$\text{Total Capacity} = 1572$$

Therefore nearest Trunking size to suit is 100x50

# Company Profile

Emerald Steel Industries LLC based in Ajman UAE , are the leading manufacturer and suppliers of cable management systems in the UAE, Africa and Middle East countries such as Oman, Kuwait, Qatar, Saudi Arabia, Iran, Iraq etc. We manufacture all types of cable management systems . Our products include cable trays, ladders, trunking, flush floor trunking, under floor trunking, service outlet box and strut- systems.

We have a proven track record of supplying to prestigious oil & gas projects in UAE and the middle east region including high-end clients. As an ISO 9001 certified listed company, Emerald Steel Industries LLC consider quality as our first priority in each stage of production . We have been exporting to various Middle East and African countries since longtime such as Oman ,Qatar,SaudiArabia,Kuwait,Bahrain, Nigeria, Kenya, Uganda, Mauritius, Africa, Morocco, Algeria, Syria, Jordan,Iran & Iraq.

CONTACT US

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