



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

Emerald
Steel Industries L.L.C



Catalogue

Trunking

Company Profile

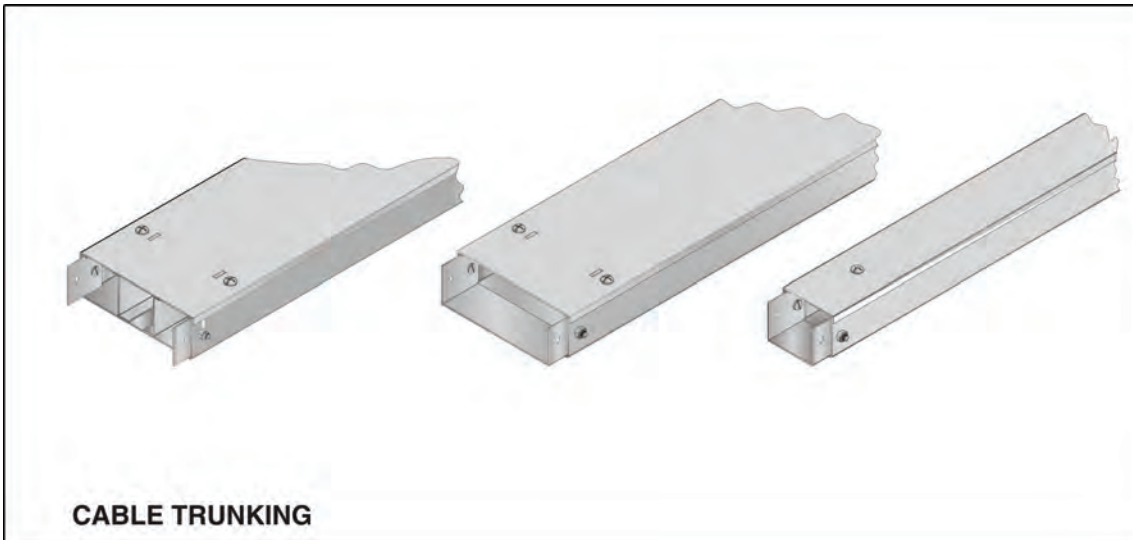
Emerald Steel Industries LLC based in Ajman, UAE are the leading manufacturer and suppliers of cable management systems in the UAE, Africa and Middle East countries. We manufacture all types of cable management systems. Our products include cable trays, ladders, trunking, flush floor trunking, under 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 company, Emerald Steel Industries LLC consider quality as our first priority in each stage of production. We have been exporting to various places like Middle East, Asian countries and also in African countries.

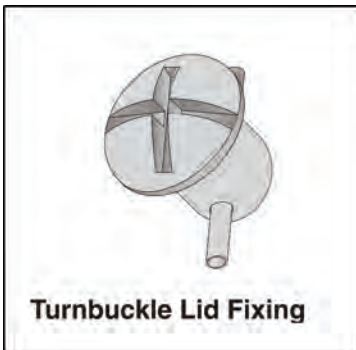
A cable tray system is an assembly of metallic cable tray sections and accessories, that forms a rigid structural system to support cables.

**MANUFACTURED FROM MILD STEEL
COMPLYING WITH BS EN 10130 : 2006
HOT DIP GALVANIZED AFTER
MANUFACTURE TO BS EN ISO 1460 : 1991
COMPLIES WITH BS EN 61537 : 2000**

Emerald -Trunking G.L Trunking System



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.

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

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

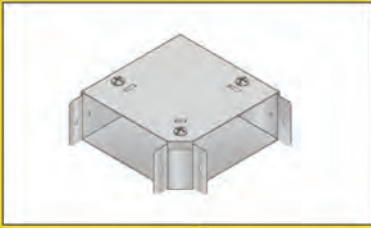
Materials and Finishes

- Pre-Galvanized zinc coated steel JIS G3302 equivalent to BS EN 10142, (BSEN 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 BSEN 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.

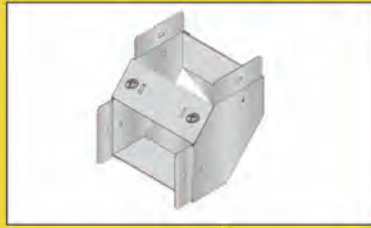
Note:

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.

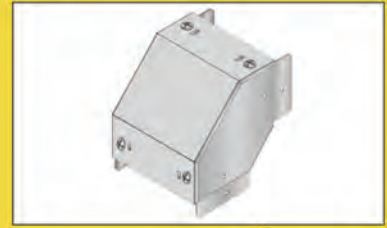
Emerald G.I Trunking Fittings & Accessories



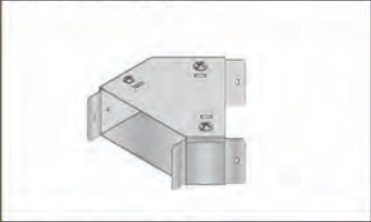
TOP LID BEND 90°



INSIDE LID BEND 90°



OUTSIDE LID BEND 90°



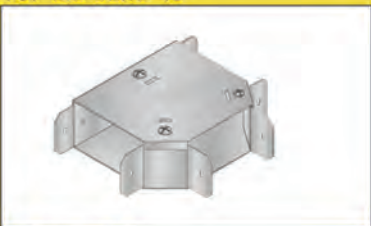
TOP LID BEND 45°



INSIDE LID BEND 45°



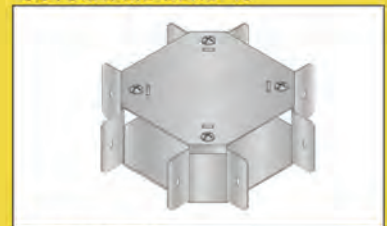
OUTSIDE LID BEND 45°



TOP LID TEE



INSIDE/OUTSIDE TEE



INTERSECTION



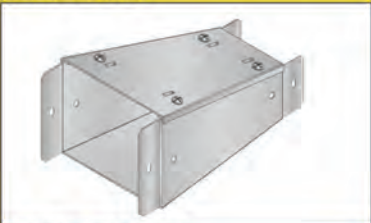
LOOSE DIVIDER



SHORT COUPLER



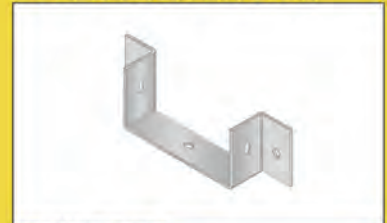
SUSPENSION HANGER



FLARED REDUCER



BLANK END



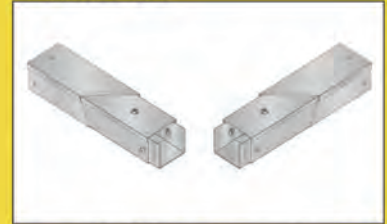
FLANGED END



EARTH LINK



CABLE RETAINER



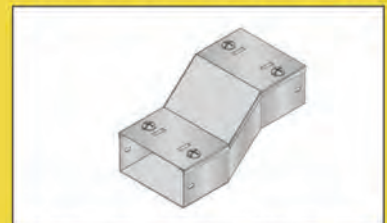
LEFT HAND FACE OFF RIGHT HAND FACE OFF



VERTICAL OFFSET



HORIZONTAL OFFSET-LEFT HAND



HORIZONTAL OFFSET-RIGHT HAND

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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 | | | | | | | | | | |
| Straight Length 3 mtr | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| 90 deg Bend Top Lid | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| 90 deg Bend Inside Lid | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| 90 deg Bend Outside Lid | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| 45 deg Bend Top Lid | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| 45 deg Bend Inside Lid | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| 45 deg Bend Outside Lid | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Tee Top Lid | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Tee Inside/Outside Lid | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Intersection Top Lid | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Blank End | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Flange Plate | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Flared Reducer | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Vertical Offset | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Cable Retainer | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Suspension Hanger | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Coupler | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Loose Divider | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Right Hand Face Off | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Left Hand Face Off | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Horizontal Offset-Left Hand | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Horizontal Offset-Right Hand | /22 | /32 | /42 | /62 | /33 | /43 | /63 | /44 | /64 | /66 |
| Spare Turnbuckle | | | | | | | | | | |
| Earth Link | | | | | | | | | | |
| Screw and Nuts | | | | | | | | | | |

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.**

Emerald G.I Trunking

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 316L and Aluminium. We can also offer in a variety of surface coating finishes such as Epoxy or and Powder Coating.

Trunking Loading Capacity Table

| Trunking (Width x Height x Thickness) | | Cable size mm ² | | | | | | | | | | |
|--|----------|--------------------------------|------|---------------------------------|------|------|------|------|------|------|-----|-----|
| Size | Capacity | Solid Cable mm ² | | Stranded Cables mm ² | | | | | | | | |
| 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 | 27 | 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 |

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

Example;

Cable being used are 20x10mm² Stranded plus 20x2.5 mm² Stranded plus 55x2.5

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

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

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

$$\text{Total Capacity} = 1575$$

Therefore nearest Trunking size to suit is 100x50

Emerald

Steel Industries L L C

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