

Steel Trunking Systems



Steel Trunking Systems from Marshall Tufflex

Steel perimeter trunking systems from Marshall-Tufflex

Steel has a mechanical strength that makes it a robust and durable option for public areas where there is a high footfall. Our steel trunking provides Specifiers, Contractors and end-users with reliable, practical systems with hard-wearing, clean lines and all the advantages of inherent LSOH and screening properties.

The extra depth provided by Marshall-Tufflex steel perimeter trunking systems offer increased capacity for power and data

services. All earth bondings are 'friction fit' to eliminate the need for unsightly screw fixings.

- ⚡ Easy to install steel trunking system
- ⚡ Well known, proven and stylish design
- ⚡ Increased space internally
- ⚡ Lighter weight to make installation easier
- ⚡ Simpler to cut



About Marshall Tufflex

Marshall-Tufflex is the UK's leading manufacturer of cable management products. The company specialises in the supply of underfloor to desk systems to the commercial, education and healthcare sectors worldwide.

Our area sales engineers, project managers and technical specialists work closely with electrical consultants, contractors and clients in order to provide the best possible technical and sales support.

Marshall-Tufflex products are designed to meet the latest BS EN ISO standards and to accommodate all building designs and construction parameters. Our bespoke solutions can also be designed and pre-fabricated to meet individual requirements and save time on site.

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Range Update

Please note that System 130 and System 170 were updated in August 2013. The updated range is compatible with System 130 and System 170 purchased before this time with the use of the new Internal Coupler Set. If you have any queries please contact our Technical Team on 01424 856688.



System 130



System 170

Standards & Environmental

Quality Assurance

Marshall-Tufflex is recognised by the BSI as a firm of Assessed Capability to BS EN ISO 9001:2008.



Q05393
Registration BS EN ISO 9001:2008

Environmental Standards

Marshall-Tufflex is totally committed to achieving high environmental standards and is recognised by the BSI as a firm of Assessed Capability to BS EN ISO 14001:2004.



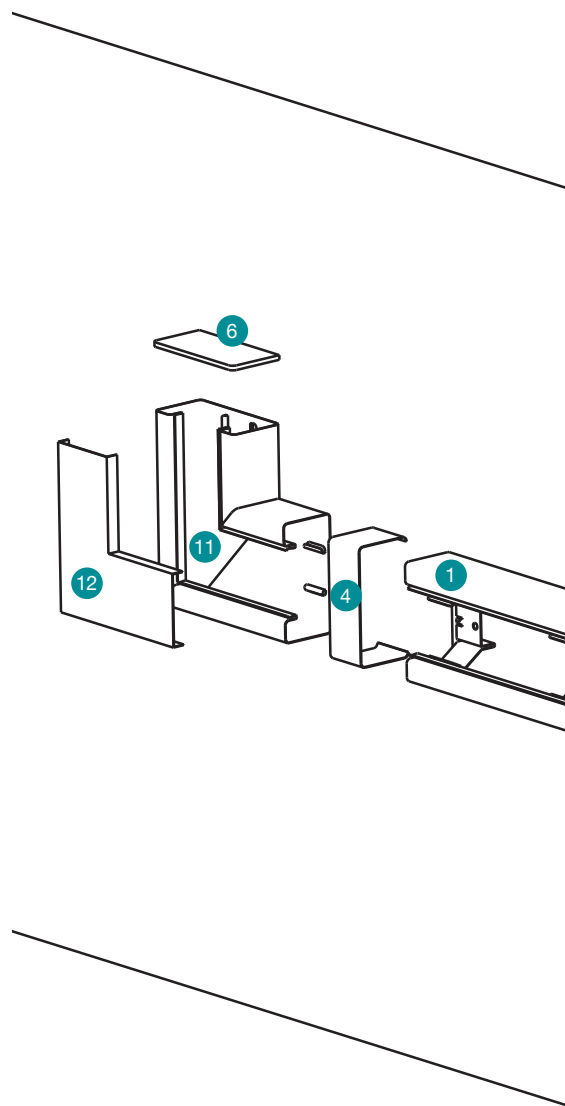
EMS 539245
Registration BS EN ISO 14001:2004

Steel Trunking Solutions

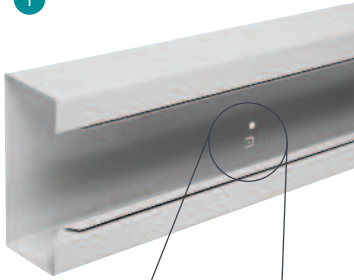
Our compact Steel trunking systems incorporate stylish clean lines with a functionality that provides greater mechanical strength combined with first class fire performance and excellent screening capability.

- ⚡ Ease of installation - our base unit has two standard mounting holes of 6.5 mm every 500mm
- ⚡ Multiple earthing possibilities in the trunking, at the multi-purpose clip and with the coupler set
- ⚡ Base systems held by internal coupler sets with scraping cams
- ⚡ Friction fit covers
- ⚡ Simple to cut system - empty base with no rail to cut through
- ⚡ Wide range of fittings and accessories

Decription	System 130	System 170
1 Base unit	351215	351216
2 Cover 1 metre	351210	351210
Cover 1.5 metre	351230	351230
3 Dividing fillet	351189	351189
4 External tolerance sleeve	351075	351076
5 External joint cover	351105	351106
6 End cap	351045	351046
7 Internal bend base	351275	351276
8 External bend base	351305	351306
9 External bend cover	351240	351240
10 Universal int/ext bend	351175	351176
11 Flat angle base up/down	351335	351336
12 Flat angle cover	351260	351260
13 Flat tee base – up/down	351395	351396
14 Internal coupling/bonding set	351525	351526
15 Universal multi-purpose clip	351319	351319



1



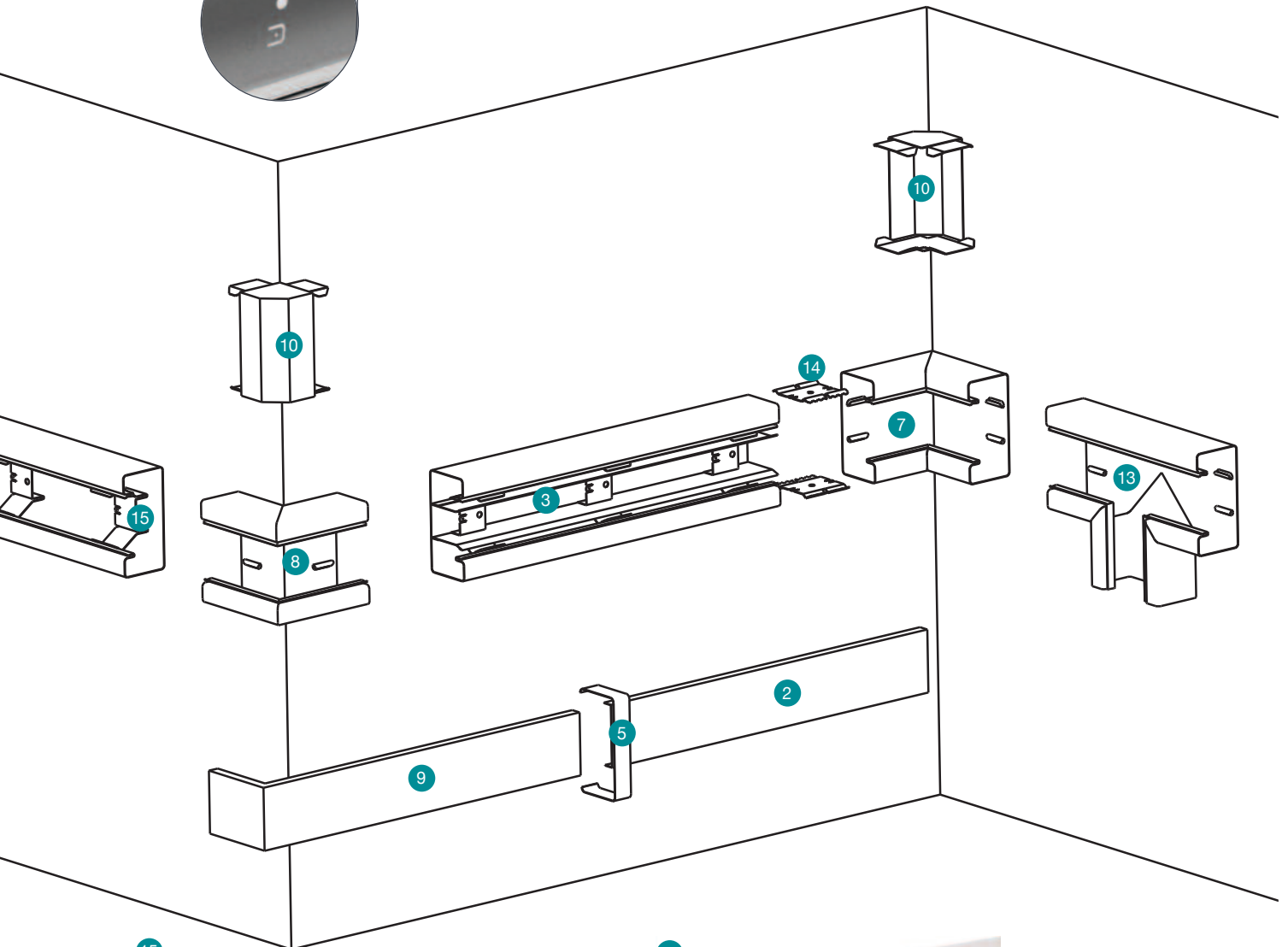
Two standard mounting holes of 6.5 mm every 500mm for easy mounting.

Trunking bases have a 6.4mm earth tag at every 500mm.

3



Dividing fillets allow the systems to be sub-divided into two or three compartments.



15



Multi-purpose clip allows separation of power and data cables - ensuring a 50mm distance between cables or can accommodate the dividing fillet.

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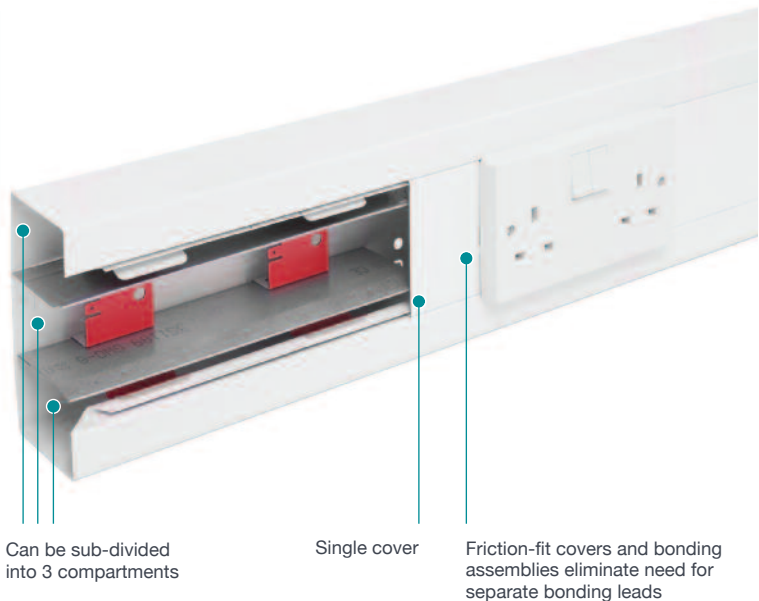
Markings on the base help to position the wiring device boxes, measure and cut trunking to the desired length.

Steel System 130

Steel System 130 is stylish compact pre-galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.

Product information

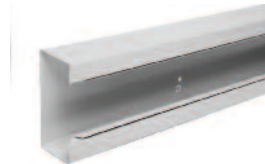
- ⚡ 130 x 63mm
- ⚡ 1 main compartment
- ⚡ Can be sub-divided
- ⚡ Suitable for dado application



Standard colour
WH
WH: White RAL9010

Please note that our steel systems may be subject to lead times. For further information please call the Technical Team on 01424 856688.

Basic components



Base Unit		
code	size	pack
351215	130 x 63mm	1 x 2m



Cover		
code	length	pack
351210	1m	10 x 1m
351230	1.5m	10 x 1.5m



Dividing Fillets		
code	size	pack
351189	1m	10 x 1m

Please note 2 Universal multi-purpose clips (see page 7) are needed to hold each dividing fillet in place.

Fittings



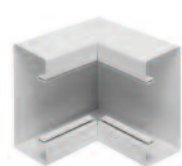
External tolerance sleeve		
code	width	pack
351075	40mm	5



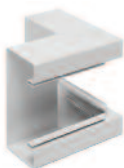
External joint cover		
code	width	pack
351105	25mm	5



End cap	
code	pack
351045	5
For use with LBS3	



Internal bend base	
code	pack
351275	1



External bend base	
code	pack
351305	1



External bend cover	
code	pack
351240	1

Fittings



Universal int/ext bend

code	pack
351175	1



Flat angle base – up/down

code	pack
351335	1



Flat angle cover

code	pack
351260	1



Flat tee base – up/down

code	pack
351395	1

Bonding Assemblies



Internal coupling/bonding set

code	pack
351525	10 sets

Please note each set consists of 2 pieces



End cap bonding strap

code	pack
LBS3	1

Accessories



Universal multi-purpose clip

code	pack
351319	1

Touch-up paint RAL 9010

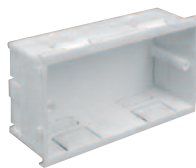
code	size	pack
351029	25ml	1

Boxes



1 gang accessory box

code	depth	pack
RSSB10WH	40mm	12



2 gang accessory box

code	depth	pack
RSSB20WH	40mm	6



Cover spacer for accessory boxes

code	width	pack
WG01085	50mm	10

Steel System 170

Steel System 170 is a mid-sized pre-galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.

Product information

- ⚡ 170 x 63mm
- ⚡ 1 main compartment
- ⚡ Can be sub-divided
- ⚡ Suitable for dado and skirting application



Can be sub-divided into 3 compartments

Single cover

Friction-fit covers and bonding assemblies eliminate need for separate bonding leads

Standard colour
WH
WH: White RAL9010

Please note that our steel systems may be subject to lead times.
For further information please call the Technical Team on 01424 856688.

Basic components



Base unit		
code	size	pack
351216	170 x 63mm	1 x 2m



Cover		
code	length	pack
351210	1m	10 x 1m
351230	1.5m	10 x 1.5m



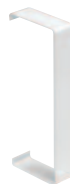
Dividing fillet		
code	length	pack
351189	1m	10 x 1m

Please note 2 Universal multi-purpose clips (see page 9) are needed to hold each dividing fillet in place.

Fittings



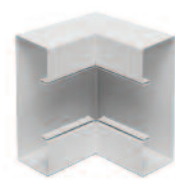
External tolerance sleeve		
code	width	pack
351076	40mm	5



External joint cover		
code	width	pack
351106	25mm	5



End cap	
code	pack
351046	5
For use with LBS3	



Internal bend base	
code	pack
351276	1



External bend base	
code	pack
351306	1



External bend cover	
code	pack
351240	1

Fittings



Universal int/ext bend

code	pack
351176	1



Flat angle base – up/down

code	pack
351336	1



Flat angle cover

code	pack
351260	1



Flat tee base – up/down

code	pack
351396	1

Bonding Assemblies



Internal coupling/bonding set

code	pack
351526	10 sets

Please note each set consists of 2 pieces



End cap bonding strap

code	pack
LBS3	1

Accessories



Universal multi-purpose clip

code	pack
351319	1

Touch-up paint RAL 9010

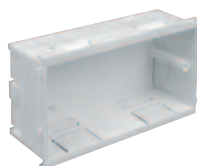
code	size	pack
351029	25ml	1

Boxes



1 gang accessory box

code	depth	pack
RSSB10WH	40mm	12



2 gang accessory box

code	depth	pack
RSSB20WH	40mm	6



Cover spacer for accessory boxes

code	width	pack
WG01085	50mm	10

Technical Information

Steel trunking Series 130 and Series 170

Material

Steel trunking is manufactured from pre-galvanised steel with a powder coat finish to RAL 9010.

Installation

Positioning

- System 130: suitable for dado installation.
- System 170: suitable for dado and skirting installation.

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Fitting

- Secure trunking base every 750mm.
- Secure using No 8 round head screws and washers using the grooves in the outer compartments of the base to facilitate drilling 6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together using the coupling/bonding set.

Earthing

- Trunking base, main fittings and accessories are fitted with earth connections.
- Bonding base to fittings: use coupling/bonding set or wire between fitted earth connections.
- Bonding base to cover: covers have pressed out side grippers which automatically establish earth contact when pressed into trunking base.
- Bonding base to end caps: use bonding strap LBS3.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

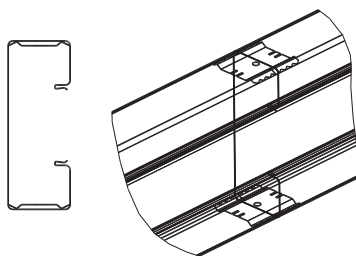
- Base joints should be aligned and butt jointed together.
- Internal and external bends, flat angles and tees are prefabricated in steel, aligned and butt jointed to the base using coupling bonding sets.
- Clip-on external tolerance sleeve overlaps the joints to cover minor inaccuracies.

Screening

Steel containment protects internal circuits from external electromagnetic interference. For internal segregation and screening, use the steel dividing fillet 351189.

Internal coupling/bonding set

- Comprises of two identical parts.
- Insert both parts into end of one length of trunking. Slide next section of base onto couplers and fix into position.



Accessory boxes

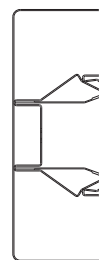
Standard depth 40mm

Remove the appropriate box knockout and clip each side of the box into the trunking base.

When boxes are installed consecutively, use cover spacer WG01085 between adjacent boxes.

Dividing fillet

Dividing fillet 351189 is supplied in 1 metre lengths. It is held in place through using the universal multi-purpose clip. A minimum of 3 clips are required to hold 2 lengths of the dividing fillet in place. The trunking can be divided into up to 3 compartments using the dividing fillet. Please refer to element 3 of the diagram on page 5.



Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, covers are butt-joined to the edge of the box (RSSB10WH end RSSB20WH). Cover lengths are determined so that ends are covered by a fitting or accessory. External bends and flat angles should be fitted with the correct bend/flat angle cover.

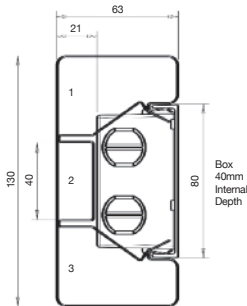
Covers – removal

To remove a cover, first detach an external joint cover or accessory to gain access. The main cover can then be gently eased off the base.

Steel trunking Series 130 and Series 170 – continued

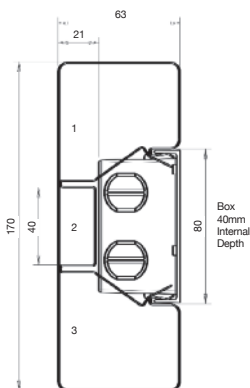
Dimensions

System 130 trunking
130 x 63mm



Compartments 1 & 3 = 1585mm² (each) total area
Compartments 1 & 3 = 760mm² (each) 45% space factor
Compartment 2 = 713mm² total area (with box)
Compartment 2 = 342mm² 45% space factor (with box)

System 170 trunking
170 x 63mm



Compartments 1 & 3 = 2812mm² (each) total area
Compartments 1 & 3 = 1265mm² (each) 45% space factor
Compartment 2 = 760mm² total area (with box)
Compartment 2 = 342mm² 45% space factor (with box)

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1 Systems 130 & 170		Compartment 2 Systems 130 & 170		Compartment 3 Systems 130 & 170	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper						
System 130	82	–	–	39	82	–
System 170	147	–	–	39	147	–

PVC power cable 2.5mm ² stranded copper						
System 130	60	–	–	27	60	–
System 170	100	–	–	27	100	–

PVC power cable 4.0mm ² stranded copper						
System 130	42	–	–	20	42	–
System 170	76	–	–	20	76	–

Data cable: Ø5.5mm						
System 130	23	–	–	11	23	–
System 170	41	–	–	11	41	–

Data cable: Ø6.0mm						
System 130	19	–	–	9	19	–
System 17010	35	–	–	9	35	–

Data cable: Ø6.5mm						
System 130	16	–	–	8	16	–
System 170	29	–	–	8	29	–

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.6
Stranded PVC power	2.5mm ²	12.6
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	30.2
*Data cable	Ø6.0mm	36.0
*Data cable	Ø6.5mm	42.2

*Check with manufacturer for typical values.

To determine cable capacity, select the size of the cable required and its corresponding cable factor from the table. Divide the compartment area figure (with or without 45% space factor) with the cable factor figure to achieve cable capacity.

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In pursuance of our policy of continued improvement
Marshall-Tufflex reserves the right to change the design
or specification of its products without notification.

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