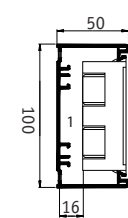
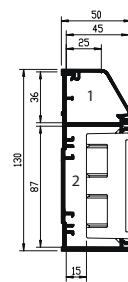


PVC-U perimeter trunking capacity guide

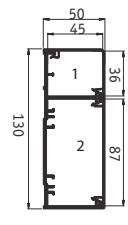
Trunking sizes up to 150mm



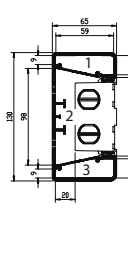
Mono 10 no box
 1 = 4141mm² total area
 1 = 1863mm² 45% space factor
With box in comp 1
 1 = 1874mm² total area
 1 = 843mm² 45% space factor



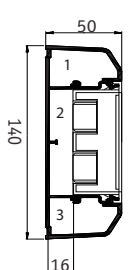
Compact 1 no box
 1 = 1280mm² total area
 1 = 576mm² 45% space factor
 2 = 3763mm² total area
 2 = 1693mm² 45% space factor
With box in comp 2
 2 = 1497mm² total area
 2 = 673mm² 45% space factor



Compact 2 no box
 1 = 1534mm² total area
 1 = 690mm² 45% space factor
 2 = 3763mm² total area
 2 = 1693mm² 45% space factor
With box in comp 2
 2 = 1497mm² total area
 2 = 673mm² total area



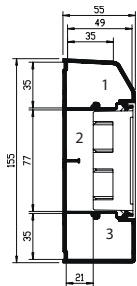
Series R 130 with box and segregators
 1 & 3 = 957mm² total area
 1 & 3 = 431mm² 45% space factor
 2 = 2210mm² total area
 2 = 995mm² 45% space factor
without segregators
 1 = 4272mm² total area
 1 = 1922mm² 45% space factor



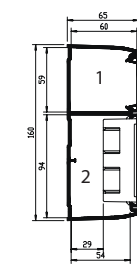
Mono Plus 20 – no box
 1 & 3 = 1024mm² total area
 1 & 3 = 461mm² 45% space factor
 2 = 3451mm² total area
 2 = 533mm² 45% space factor
With box in comp 2
 2 = 1185mm² total area
 2 = 533mm² 45% total area

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
*Data cable	Ø7.0mm	49.03
*Data cable	Ø8.4mm	58.0

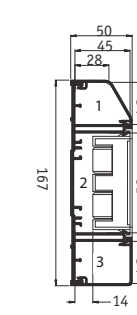
Trunking sizes from 150mm to 200mm



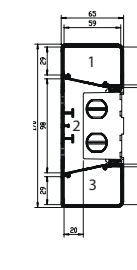
Mono Plus 30 no box
 1 = 1450mm² total area
 1 = 652mm² 45% space factor
 2 = 3829mm² total area
 2 = 1723mm² 45% space factor
 3 = 1646mm² total area
 3 = 741mm² 45% space factor
With box in comp 2
 2 = 1563mm² total area
 2 = 703mm² 45% space factor



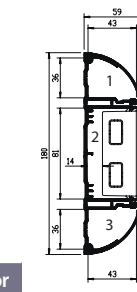
Twin 165 no box
 1 = 3272mm² total area
 1 = 1463mm² 45% space factor
 2 = 5404mm² total area
 2 = 2431mm² 45% space factor
With box in comp 2
 2 = 3100mm² total area
 2 = 1395mm² 45% space factor



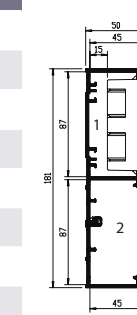
Sterling Profile 2 no box
 1 = 1197mm² total area
 1 = 538mm² 45% space factor
 2 = 3556mm² total area
 2 = 1600mm² 45% space factor
 3 = 1451mm² total area
 3 = 652mm² 45% space factor
With box in comp 2
 2 = 1279mm² total area
 2 = 575mm² 45% space factor



Series R 170 With box and segregators
 1 & 3 = 2137mm² total area
 1 & 3 = 962mm² 45% space factor
 2 = 2210mm² total area
 2 = 995mm² 45% space factor
Without segregators
 1 = 6632mm² total area
 1 = 2984mm² 45% space factor

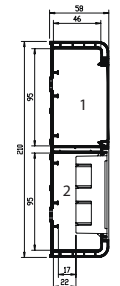


Odyssey no box
 1 & 3 = 1256mm² total area
 1 & 3 = 565mm² 45% space factor
 2 = 4022mm² 45% total area
 2 = 1809mm² 45% space factor
With box in comp 2
 2 = 1230mm² total area
 2 = 553mm² 45% space factor

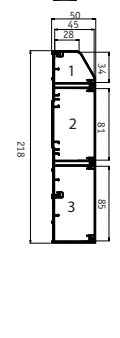


Compact 3 – no box
 1 = 3763mm² total area
 1 = 1693mm² 45% space factor
 2 = 3700mm² total area
 2 = 1665mm² 45% space factor
With box in comps 1 and 2
 1 = 1503mm² total area
 1 = 676mm² 45% space factor
 2 = 1440mm² total area
 2 = 648mm² 45% space factor

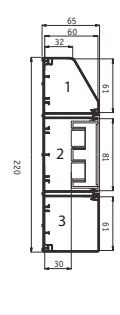
Trunking sizes over 200mm



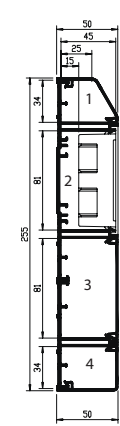
Twin Plus – no box
 1 & 2 = 4755mm² total area
 1 & 2 = 2140mm² 45% space factor
With box in comps 1 or 2
 1 & 2 = 2431mm² total area
 1 & 2 = 1094mm² 45% space factor



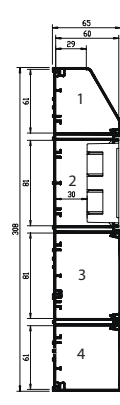
Sterling Profile 4 – no box
 1 = 1197mm² total area
 1 = 538mm² 45% space factor
 2 = 3556mm² total area
 2 = 1600mm² 45% space factor
 3 = 3626mm² total area
 3 = 1631mm² 45% space factor
With box in comps 2 or 3
 2 = 1279mm² total area
 2 = 575mm² 45% space factor
 3 = 1360mm² total area
 3 = 612mm² 45% space factor



XL 202
XL 202 – no box
 1 = 2824mm² total area
 1 = 1271mm² 45% space factor
 2 = 4771mm² total area
 2 = 2147mm² 45% space factor
 3 = 3531mm² total area
 3 = 1589mm² 45% space factor
With box in comp 2
 2 = 2504mm² total area
 2 = 1127mm² 45% space factor



Sterling Profile 12 – no box
 1 = 1197mm² total area
 1 = 538mm² 45% space factor
 2 = 3556mm² total area
 2 = 1600mm² 45% space factor
 3 = 3482mm² total area
 3 = 1567mm² 45% space factor
 4 = 1451mm² total area
 4 = 652mm² 45% space factor
With box in comp 2 or 3
 2 = 1279mm² total area
 2 = 575mm² 45% space factor
 3 = 12162mm² total area
 3 = 547mm² 45% space factor



XL 212 – no box
 1 = 2824mm² total area
 1 = 1271mm² 45% space factor
 2 = 4771mm² total area
 2 = 2147mm² 45% space factor
 3 = 4732mm² total area
 3 = 2130mm² 45% space factor
 4 = 3531mm² total area
 4 = 1589mm² 45% space factor
With box in comps 2 or 3
 2 = 2511mm² total area
 2 = 1130mm² 45% space factor
 3 = 2466mm² total area
 3 = 1109mm² 45% space factor

Compact trunking

Material

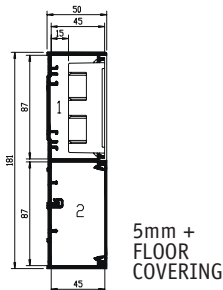
PVC-U is flame retardant and self-extinguishing. PVC-U is 100% recyclable.

Installation

Positioning

Compact 1, 2 & 3 suitable for dado. Should Compact 3 be used as skirting system, a clearance of 5mm is recommended above the floor covering to allow the profile fittings to clip over the cover.

If Compact 2 is installed close to desk/bench top – invert so small compartment is on bottom.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings have a 10mm overlap on each side to allow for thermal movement of the covers.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- To fasten base, use No 8 round head screws and washers.
- 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-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.

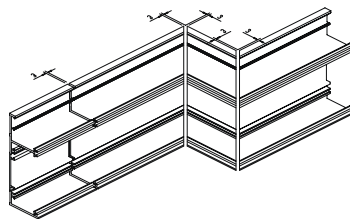
Single lengths

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 have a 3mm gap to allow for expansion.

- Internal, external bends and flat angles, the base must be mitred 45 degrees to ensure total enclosure of trunking, including any internal fitted segregator.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- Flat angles, tees and crossovers are also available pre-fabricated.

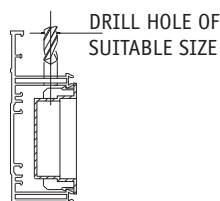


Bend radius control

The data internal and external bend radius control fittings for Compact Trunking provide a bend radius of 50mm.

Accessory boxes

- For mounting an accessory box in the alternative compartment to supply, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.
- If Compact 3 is used as a skirting system. All power accessories should be installed in the top compartment.



Covers

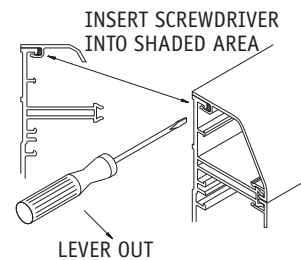
Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the ETL1 cover is butt-joined to the edge of the box. Cut edges of the cover are subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the



base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

• For data/voice circuits only:

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

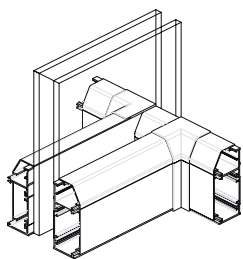
Antimicrobial

For technical details of antimicrobial Bio Compact trunking, please refer to Laboratory and Healthcare section.

Compact trunking – continued

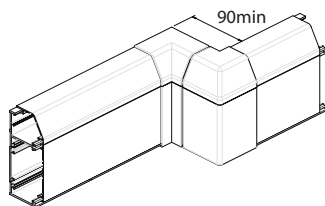
Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall. Fit short lengths of cover where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an internal bend fitting.

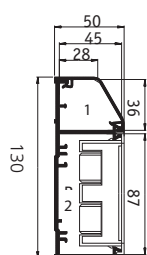


Offset dimensions

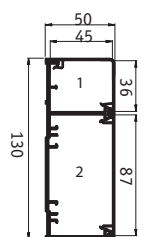
The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



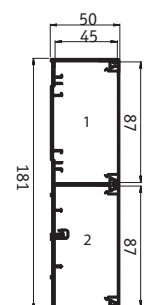
Dimensions



Compact 1 trunking – with box
 Compartment 1 total area = 1280mm²
 Compartment 2 total area = 1497mm²



Compact 2 trunking – no box
 Compartment 1 total area = 1534mm²
 Compartment 2 total area = 3763mm²



Compact 3 trunking – no box
 Compartment 1 total area = 3763mm²
 Compartment 2 total area = 3700mm²

Cable capacities

• All calculations allow for a 45% space factor.

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

Cable capacity chart	Compartment 1		Compartment 2	
	No box	With box	No box	With box

PVC power cable 1.5mm² stranded copper

Compact 1	66	–	196	78
Compact 2	80	–	196	78
Compact 3	196	78	193	76

PVC power cable 2.5mm² stranded copper

Compact 1	45	–	134	53
Compact 2	54	–	134	58
Compact 3	134	59	132	58

PVC power cable 4.0mm² stranded copper

Compact 1	34	–	101	40
Compact 2	44	–	101	40
Compact 3	101	40	100	38

Data cable: Ø5.5mm

Compact 1	19	–	56	22
Compact 2	22	–	56	22
Compact 3	56	22	55	21

Data cable: Ø6.0mm

Compact 1	16	–	47	18
Compact 2	19	–	47	18
Compact 3	47	18	46	17

Data cable: Ø6.5mm

Compact 1	13	–	40	15
Compact 2	16	–	40	15
Compact 3	40	15	39	14

Data cable: Ø7.0mm

Compact 1	11	–	34	13
Compact 2	14	–	34	13
Compact 3	34	13	34	12

Data cable: Ø8.4mm

Compact 1	9	–	29	11
Compact 2	11	–	29	11
Compact 3	29	11	28	10

Mono and Mono Plus trunking – PVC-U

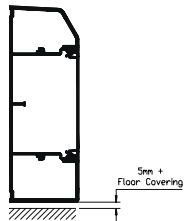
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

- **Mono 10**
For dado application only.
- **Mono Plus 20 and 30**
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.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Adequate allowance is made within the fittings for thermal movement of the covers, which have a 7mm overlap on each side.

Fitting

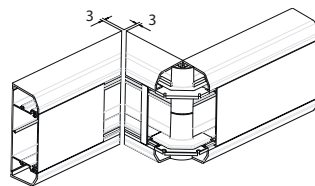
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.
- **Mono Plus 20 and 30**
Cut the compartment segregators (x 2 provided) to lengths to fit between accessory boxes and corners. Fit into position after wiring has been completed.

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.

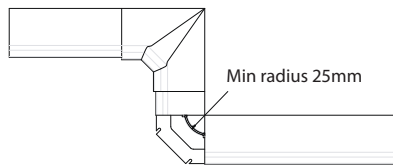
Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.
- **Mono 10**
For external bends and flat angles, the base must be mitred 45 degrees to ensure total enclosure of trunking, including any internal fitted segregator. Tees are fabricated.
- **Mono Plus 20 and 30**
External bends should be cut square at the corner and in internal segregator inserted as shown below, to give additional retention to the clip-on fitting. Flat angles and tees are prefabricated.



Bend radius control

- **Mono 10**
Not applicable
- **Mono Plus 20 and 30**
The data bend radius control fittings for Mono Plus trunking provide a bend radius of 25mm.



Accessory boxes

- If the accessory box is to be fed from a supply in either of the outer compartments, remove the appropriate knock out (top or bottom) and clip the box into the trunking base.
- For boxes supplied from the main compartment, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.

- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The cover has been 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

The cover is clipped into place from the front. If accessory boxes are installed, the cover is butt-joined to the edge of the box and the cut edges of the cover is subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to the base.

Covers – removal

To remove the cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base.

Screening

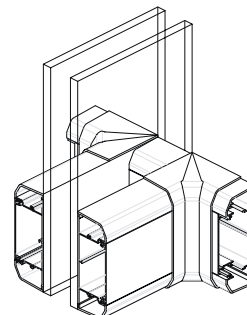
Refer to the Technical Team on 01424 856688.

Antimicrobial

For technical details of antimicrobial Mono 10 and Mono Plus 20 Bio trunking, please refer to Laboratory and Healthcare section.

Method of continuation through a partition wall

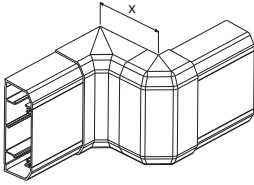
Continue the main lateral run of base through the partition wall with a short length of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)



Mono and Mono Plus trunking – PVC-U – continued

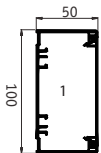
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

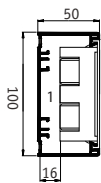


x =
100mm min (Mono 10)
105mm min (Mono Plus 20)
110mm min (Mono Plus 30)

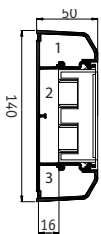
Dimensions



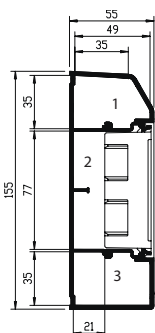
Mono 10 trunking – no box
Compartment 1 total area = 4141mm²



Mono 10 trunking – with box
Compartment 1 total area = 1874mm²



Mono Plus 20 trunking – with box
Compartment 1 total area = 1024mm²
Compartment 2 total area = 1185mm²
Compartment 3 total area = 1024mm²



Mono Plus 30 trunking – with box
Compartment 1 total area = 1450mm²
Compartment 2 total area = 1563mm²
Compartment 3 total area = 1646mm²

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		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box

PVC power cable 1.5mm² stranded copper

Mono 10	216	98	–	–	–	–
Mono Plus 20	53	–	134	61	53	–
Mono Plus 30	75	–	158	81	86	–

PVC power cable 2.5mm² stranded copper

Mono 10	66	147	–	–	–	–
Mono 20	36	–	–	42	36	–
Mono 30	51	–	123	55	58	–

PVC power cable 4.0mm² stranded copper

Mono 10	112	50	–	–	–	–
Mono Plus 20	27	–	67	32	27	–
Mono Plus 30	39	–	79	42	44	–

Data cable: Ø5.5mm

Mono 10	61	27	–	–	–	–
Mono Plus 20	15	–	47	17	15	–
Mono Plus 30	21	–	49	23	24	–

Data cable: Ø6.5mm

Mono 10	44	19	–	–	–	–
Mono Plus 20	10	–	43	12	10	–
Mono Plus 30	15	–	45	16	17	–

Data cable: Ø7.0mm

Mono 10	38	17	–	–	–	–
Mono Plus 20	9	–	–	10	9	–
Mono Plus 30	13	–	–	14	15	–

Odyssey trunking

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

For dado, horizontal or vertical installation.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- 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-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.

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 covers.

Joints and bends

All base joints should have a 3mm gap to allow for expansion.

- **Internal bends:** the two base sections should be cut square and butt joined at the corner. The internal end cap component should be fitted to the open end to maintain trunking integrity.
- **External bends:** the base must be cut square with the corner and the internal radius control segregator fitted into the two base sections. Adjustable bends: these

allow 85° to 95° to accommodate building tolerances.

- **Flat bends and tees:** have moulded and segregated base units. These are fitted into position and the trunking base then cut to butt up to mouldings.

Cutting is not critical as the external moulded clip-on fittings cover the joints and overlap the trunking covers by 10mm each side, thus covering any inaccuracies.

Bend radius control

The bend radius control fittings for Odyssey provide a bend radius of 50mm

Accessory boxes

Accessory boxes are mounted in the centre compartment. If supplied from either of the outer compartments, drill the main web adjacent to the box position. Remove the appropriate knock out and clip the box into the trunking base. For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.

- If boxes DD1510 and DD1520 are installed consecutively, a cut section of centre cover should be fitted between them.
- If DD1540 or DD1550 are installed, Adaptor DD1590 must be fitted either side to align with curved cover.
- If DD1540 or DD1550 are installed consecutively, use the spacer provided and at each end of a run use accessory adaptor DD1590 to align with curved cover.
- Part M coloured accessory boxes are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The covers have been designed to limit unauthorised removal and remain in position during normal conditions, irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Outer covers are fitted first. Locate front clip feature into the base and then roll the cover to the back of the trunking until the rear clip feature positively locates – it is possible to hear the click when this is located correctly. The centre cover is then clipped into place from the front. If accessory boxes are installed, the centre cover is butt joined beneath the moulded flange of the box (Odyssey box DD1510/DD1520) or adaptor (DD1590). The cut edges of lids are then concealed.

A gap of 15mm should be left between cover joints to permit fittings to clip to the base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

For data/voice circuits only:

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

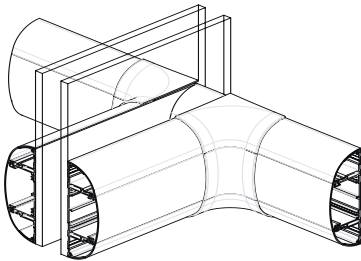
Antimicrobial

For technical details of antimicrobial Odyssey Bio trunking, please refer to Laboratory and Healthcare section.

Odyssey trunking– continued

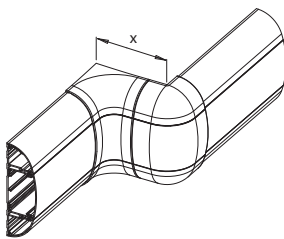
Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)



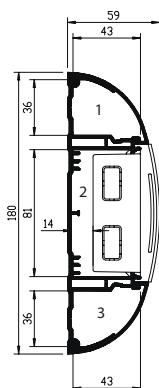
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



- x =
- Fixed bend offset 138mm
- Adjustable bend offset 165mm
- Adjustable external bend, fixed internal bend offset 163mm
- Adjustable internal bend, fixed external bend offset 140mm

Dimensions



Odyssey trunking – with box
 Compartment 1 & 3 total area = 1278mm²
 Compartment 2 total area = 859mm²

Odyssey trunking – no box
 Compartment 2 total area = 3972mm²

Cable capacities

- All calculations allow for a 45% space factor.

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

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	65	–	210	61	64	–
PVC power cable 2.5mm ² stranded copper	45	–	141	30	45	–
PVC power cable 4.0mm ² stranded copper	34	–	108	33	33	–
Data cable: Ø5.5mm	18	–	59	18	18	–
Data cable: Ø6.0mm	15	–	50	15	15	–
Data cable: Ø6.5mm	13	–	42	12	13	–
Data cable: Ø7.0mm	11	–	36	11	11	–
Data cable: Ø8.4mm						

Series R trunking

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

Series R is suitable for dado. Should Series R 170 (not 130) be 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.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- 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-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.

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

All base joints should have a 3mm gap to allow for expansion.

- **System 130 internal bends and external bends:** trunking body must be mitred at 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- **System 170 internal bends and external bends:** trunking body should be cut to butt up to the prefabricated flat bends.
- **Systems 130 & 170 Flat angles and tees:** are prefabricated. Trunking bases should be cut to butt up to fittings.

Cutting is not critical as the external moulded clip-on fittings cover the joints and overlap the trunking covers by 10mm each side, thus covering any inaccuracies.

Bend radius control

Please contact the Technical Team on 01424 856688

Accessory boxes

All accessory boxes are mounted in the main, centre compartment. The appropriate knockout removal depends whether supply is to be run in the centre compartment or either/both of the outer segregated compartments. When knockouts are removed, clip the box into the trunking body. When boxes are installed consecutively, a short cut length of centre cover (14mm min.) is required to cover the space between boxes.

Covers

The cover has been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

The single cover is clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box (RSSB1/2). The cut edges the cover are subsequently concealed by the accessory.

Covers – removal

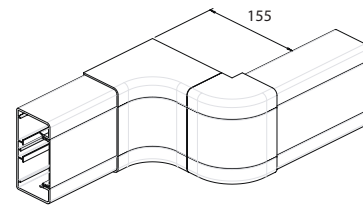
To remove the cover, first detach a coupler, internal or external bend component to gain access. The cover can then be gently eased off the base.

Method of continuation through a partition wall

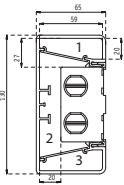
- **Systems 130 only:** continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend.

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

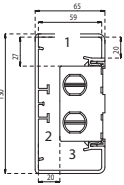


Series R– continued



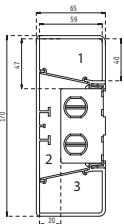
Series R 130 – with box and segregators

Compartment 1 & 3 total area = 957mm²
 Compartment 2 total area = 2210mm²
 Compartment 2 (45% space factor) = 995mm²



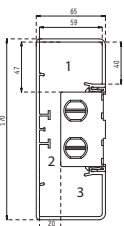
Series R 130 – with box, no segregators

Compartment 1+2+3 total area = 4272mm²
 Compartment 1+2+3 (45% space factor) = 1992mm²



Series R 170 – with box and segregators

Compartment 1 & 3 total area = 2137mm²
 Compartment 2 total area = 2210mm²
 Compartment 2 (45% space factor) = 995mm²



Series R 170 – with box, no segregators

Compartment 1+2+3 (45% space factor) = 2984mm²

Cable capacities

- All calculations allow for a 45% space factor.

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

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm² stranded copper						
Series R 130						
(without segregator)	223	–	–	–	223	–
(with segregator)	50	–	–	115	50	–
Series R 170						
(without segregator)	346	–	–	–	346	–
(with segregator)	111	–	–	115	111	–
PVC power cable 2.5mm² stranded copper						
Series R 130						
(without segregator)	152	–	–	–	152	–
(with segregator)	34	–	–	78	34	–
Series R 170						
(without segregator)	236	–	–	–	236	–
(with segregator)	76	–	–	78	76	–
PVC power cable 4.0mm² stranded copper						
Series R 130						
(without segregator)	115	–	–	–	115	–
(with segregator)	25	–	–	59	25	–
Series R 170						
(without segregator)	179	–	–	–	179	–
(with segregator)	57	–	–	59	57	–
Data cable: Ø5.5mm						
Series R 130						
(without segregator)	63	–	–	–	63	–
(with segregator)	14	–	–	32	14	–
Series R 170						
(without segregator)	98	–	–	–	98	–
(with segregator)	31	–	–	32	31	–
Data cable: Ø6.0mm						
Series R 130						
(without segregator)	53	–	–	–	53	–
(with segregator)	11	–	–	27	11	–
Series R 170						
(without segregator)	82	–	–	–	82	–
(with segregator)	26	–	–	27	26	–
Data cable: Ø6.5mm						
Series R 130						
(without segregator)	45	–	–	–	45	–
(with segregator)	10	–	–	23	10	–
Series R 170						
(without segregator)	70	–	–	–	70	–
(with segregator)	22	–	–	23	22	–
Data cable: Ø7.0mm						
Series R 130						
(without segregator)	39	–	–	–	39	–
(with segregator)	8	–	–	20	8	–
Series R 170						
(without segregator)	60	–	–	–	60	–
(with segregator)	19	–	–	20	19	–

Sterling profile trunking

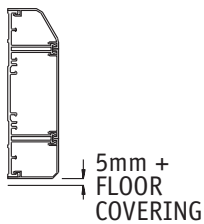
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

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.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings have a 10mm overlap on each side to allow for thermal movement of the covers.

Fitting

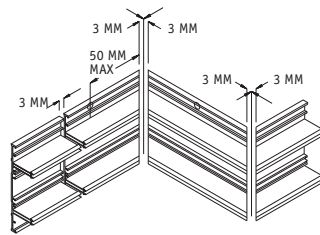
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.
- To increase number of compartments to any number required, use base extension EBE1WH and extendable base EEB1.

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 have a 3mm gap to allow for expansion.
- Internal, external bends and flat angles, the base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Flat angles, tees and crossovers are available prefabricated.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.

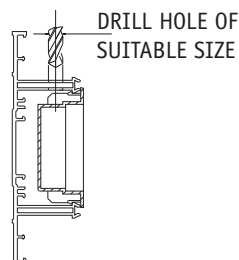


Bend radius control

The data internal and external bend radius control fittings for Sterling Profile trunking provide a bend radius of 50mm.

Accessory boxes

- For mounting an accessory box in the alternative compartment to supply, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

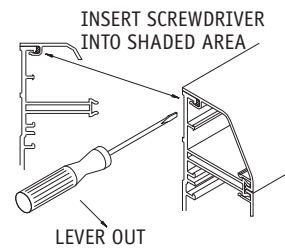
Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the ETL1 cover is butt-joined to the edge of the box. Cut edges of the cover are subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then ease away from the base.



Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

• For data/voice circuits only:

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

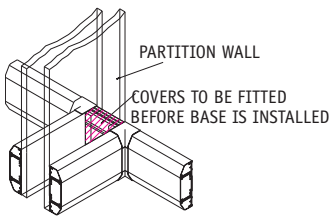
Antimicrobial

For technical details of antimicrobial Sterling Profile Bio trunking, please refer to Laboratory and Healthcare section.

Sterling Profile trunking – continued

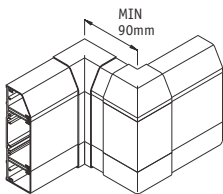
Method of continuation through a partition wall

- Continue the main lateral run of base through the partition wall.
- Fit short lengths of cover where the trunking passes through the partition.
- The partition wall trunking is then butted up to the main run and the joint covered by an internal bend fitting.

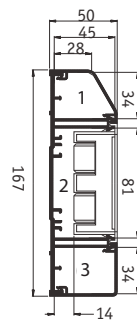


Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions

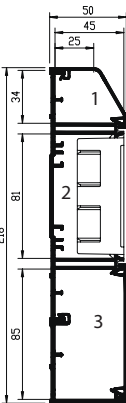


Sterling Profile 2 - with box

Compartment 1 total area = 1197mm²
 Compartment 2 total area = 1279mm²
 Compartment 3 total area = 1451mm²

Sterling Profile 2 - no box

Compartment 2 total area = 3556mm²

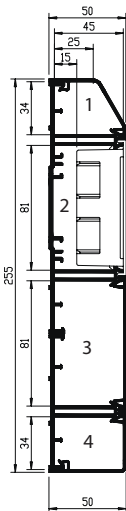


Sterling Profile 4 - with box in compartment 2

Compartment 1 total area = 1197mm²
 Compartment 2 total area = 1279mm²
 Compartment 3 total area = 3626mm²

No box in compartment 2

Compartment 2 total area = 3556mm²



Sterling Profile 12 - with box in compartment 2

Compartment 1 total area = 1197mm²
 Compartment 2 total area = 1279mm²
 Compartment 3 total area = 3482mm²
 Compartment 4 total area = 1451mm²

No box in compartment 2

Compartment 2 total area = 3556mm²

Other Sterling Profile dimensions

Other Sterling Profiles are a combination of the ones shown on this page and can be calculated using the compartment dimensions shown here.

Sterling Profile cable capacities

Cable capacities

- All calculations allow for a 45% space factor.

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

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3		Compartment 4
	No box	With box	No box	With box	No box	With box	No box
PVC power cable 1.5mm ² stranded copper							
Sterling Profile 1	62	–	186	66	62	–	–
Sterling Profile 2	62	–	186	66	75	–	–
Sterling Profile 3	75	–	186	66	75	–	–
Sterling Profile 4	62	–	186	66	189	–	–
Sterling Profile 5	75	–	186	66	189	–	–
Sterling Profile 6	189	–	186	66	189	–	–
Sterling Profile 11	62	–	186	66	182	–	62
Sterling Profile 12	62	–	186	66	182	–	75
PVC power cable 2.5mm ² stranded copper							
Sterling Profile 1	42	–	126	45	42	–	–
Sterling Profile 2	42	–	126	45	51	–	–
Sterling Profile 3	51	–	126	45	51	–	–
Sterling Profile 4	42	–	126	45	129	–	–
Sterling Profile 5	51	–	126	45	129	–	–
Sterling Profile 6	98	–	126	45	129	–	–
Sterling Profile 11	32	–	126	45	124	–	42
Sterling Profile 12	32	–	126	45	124	–	51
PVC power cable 4.0mm ² stranded copper							
Sterling Profile 1	32	–	96	34	32	–	–
Sterling Profile 2	32	–	96	34	39	–	–
Sterling Profile 3	39	–	96	34	39	–	–
Sterling Profile 4	32	–	96	34	98	–	–
Sterling Profile 5	39	–	96	34	98	–	–
Sterling Profile 6	98	–	96	34	98	–	–
Sterling Profile 11	32	–	96	34	94	–	32
Sterling Profile 12	32	–	96	34	94	–	39
Data cable: Ø5.5mm							
Sterling Profile 1	17	–	52	19	17	–	–
Sterling Profile 2	17	–	52	19	21	–	–
Sterling Profile 3	21	–	52	19	21	–	–
Sterling Profile 4	17	–	52	19	51	–	–
Sterling Profile 5	21	–	52	19	54	–	–
Sterling Profile 6	51	–	52	19	54	–	–
Sterling Profile 11	17	–	52	19	51	–	17
Sterling Profile 12	17	–	52	19	51	–	21
Data cable: Ø6.0mm							
Sterling Profile 1	14	–	44	15	14	–	–
Sterling Profile 2	14	–	44	15	18	–	–
Sterling Profile 3	18	–	44	15	18	–	–
Sterling Profile 4	14	–	44	15	45	–	–
Sterling Profile 5	18	–	44	15	45	–	–
Sterling Profile 6	45	–	44	15	45	–	–
Sterling Profile 11	14	–	44	15	43	–	14
Sterling Profile 12	14	–	44	15	43	–	18
Data cable: Ø6.5mm							
Sterling Profile 1	12	–	37	13	12	–	–
Sterling Profile 2	12	–	37	13	15	–	–
Sterling Profile 3	15	–	37	13	15	–	–
Sterling Profile 4	12	–	37	13	38	–	–
Sterling Profile 5	15	–	37	13	38	–	–
Sterling Profile 6	38	–	37	13	38	–	–
Sterling Profile 11	12	–	37	13	37	–	12
Sterling Profile 12	12	–	37	13	37	–	15
Data cable: Ø7.0mm							
Sterling Profile 1	10	–	32	11	10	–	–
Sterling Profile 2	10	–	32	11	13	–	–
Sterling Profile 3	13	–	32	11	13	–	–
Sterling Profile 4	10	–	32	11	33	–	–
Sterling Profile 5	13	–	32	11	33	–	–
Sterling Profile 6	33	–	32	11	33	–	–
Sterling Profile 11	10	–	38	11	31	–	10
Sterling Profile 12	10	–	38	11	31	–	13

Twin165 trunking

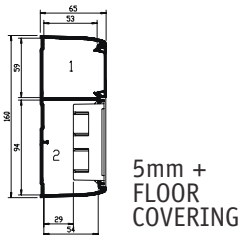
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

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.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 7mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- 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-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.

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 have a 3mm gap to allow for expansion.
- Internal and external bends: Base should be cut square to bend base component.
- Flat angles and tees are pre-fabricated.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.

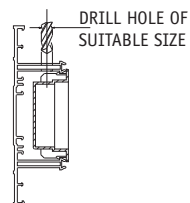
Bend radius control

The bend radius control fittings for Twin 165 provide a bend radius of 50mm.

Accessory boxes

The accessory box is mounted in the larger compartment (compartment 2). If supply is from the smaller compartment, drill the main web adjacent to the box position. Remove the appropriate knock out and clip the box into the trunking base. For boxes supplied from the main compartment, remove the appropriate box knock-outs and clip the box into trunking base. When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.

- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box. For the fitting of couplers, a gap of 25mm is left between the two cover ends.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. Both covers

can then be gently eased off the base.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

• For data/voice circuits only:

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

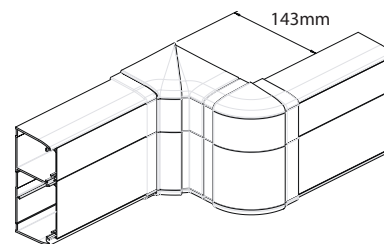
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Antimicrobial

For technical details of antimicrobial Twin165 Bio trunking, please refer to Laboratory and Healthcare section.

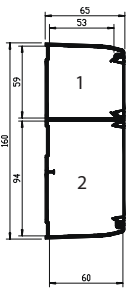
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

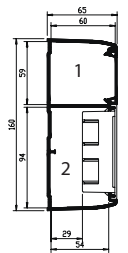


Twin165 – continued

Dimensions



Twin165 trunking - no accessory box
 Compartment 1 total area = 3272mm²
 Compartment 2 total area = 5404mm²



Twin165 trunking – with accessory box
 Compartment 1 total area = 3272mm²
 Compartment 2 total area = 3100mm²

Cable capacities

- All calculations allow for a 45% space factor.

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

Cable capacity chart	Compartment 1		Compartment 2	
	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	171	–	283	162
PVC power cable 2.5mm ² stranded copper	117	–	193	111
PVC power cable 4.0mm ² stranded copper	89	–	147	84
Data cable: Ø5.5mm	49	–	81	46
Data cable: Ø6.0mm	41	–	68	39
Data cable: Ø6.5mm	35	–	58	33
Data cable: Ø7.0mm	30	–	50	28
Data cable: Ø8.4mm	25	–	41	24

Twin Plus trunking

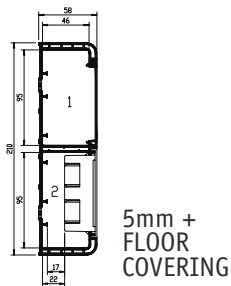
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

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.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

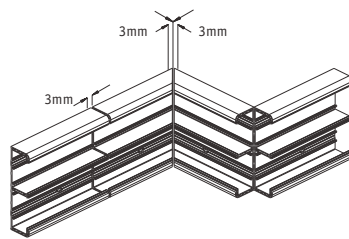
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.

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 have a 3mm gap to allow for expansion.
- External bends: base should be cut square.
- Internal bends and flat angles, the base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Tees and crossovers are available prefabricated.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.



Bend radius control

The bend radius control fittings for Twin Plus provide a bend radius of 50mm

Accessory boxes

If the accessory box is to be mounted in the alternative compartment to the supply, drill the main web adjacent to the box position. Remove the appropriate knock out and clip the box into the trunking base. For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base. When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.

- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-jointed to the edge of the box. For the fitting of couplers to conceal the cover joint, a gap of 30mm is left between the two cover ends.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. Both covers can then be gently eased off the base.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

• For data/voice circuits only:

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

Antimicrobial

For technical details of antimicrobial Twin Plus Bio trunking, please refer to Laboratory and Healthcare section.

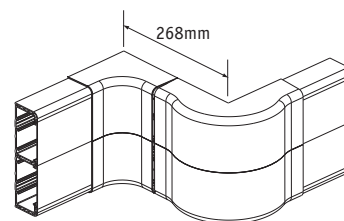
Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend.

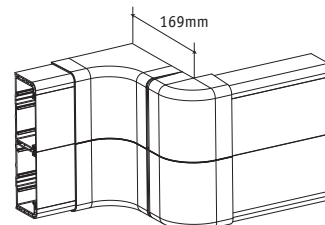
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

Large data capacity bend

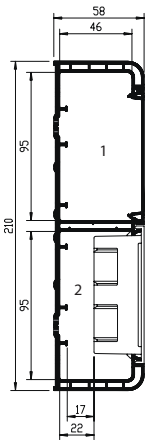


Standard bend



Twin Plus trunking – continued

Dimensions



Twin Plus trunking – with accessory box
 Compartment 1 & 2 total area = 2431mm²

Twin Plus trunking – no accessory box
 Compartment 1 & 2 total area = 4755mm²

Cable capacities

- All calculations allow for a 45% space factor.

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

Cable capacity chart	Compartment 1	Compartment 2
	No box	With box
PVC power cable 1.5mm ² stranded copper	248	127
PVC power cable 2.5mm ² stranded copper	169	86
PVC power cable 4.0mm ² stranded copper	128	65
Data cable: Ø5.5mm	70	36
Data cable: Ø6.0mm	59	30
Data cable: Ø6.5mm	50	25
Data cable: Ø7.0mm	43	22
Data cable: Ø8.4mm	36	18

XL trunking

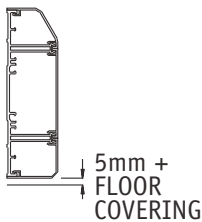
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

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.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

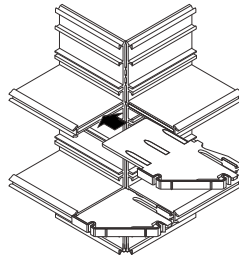
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.

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 bend

- Base joints should have a 3mm gap to allow for expansion.
- External bends: base should be cut square and segregators inserted as shown in drawing below.



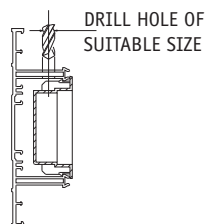
- Internal bends and flat angles, the base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Tees and crossovers are available prefabricated.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.

Bend radius control

For data bend radius control fittings for XL, please contact the Technical Team on 01424 856688.

Accessory boxes

- If accessory box main compartment is supplied from an outer compartment, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

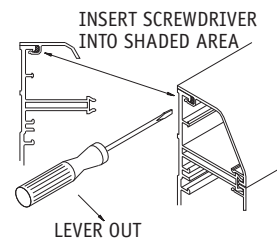
The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box (ESSB1 and 2 only) and the cut edges of lids are subsequently concealed by the accessory. For fittings, a gap of 30mm is left between the two cover ends to permit the fitting to clip to the base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.



Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

• For data/voice circuits only:

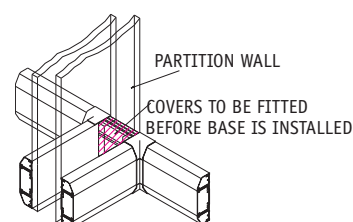
Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

Antimicrobial

For technical details of antimicrobial XL Bio trunking, please refer to Laboratory and Healthcare section.

Method of continuation through a partition wall

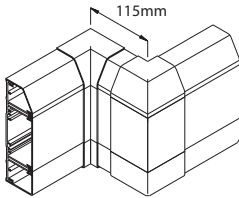
Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)



XL trunking – continued

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



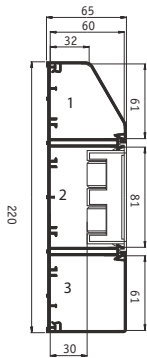
Dimensions

XL 202 Trunking - with box

Compartment 1 total area = 2824mm²
 Compartment 2 total area = 2504mm²
 Compartment 3 total area = 3531mm²

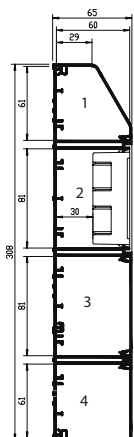
XL 202 Trunking - no box

Compartment 2 total area = 4771mm²



XL 212 Trunking - no box

Compartment 1 total area = 2824mm²
 Compartment 2 total area = 4771mm²
 Compartment 3 total area = 4732mm²
 Compartment 4 total area = 3531mm²



Other Sterling Profile dimensions

Other XL trunking profiles are a combination of the ones shown on this page and can be calculated using the compartment dimensions shown here.

Cable capacities

- All calculations allow for a 45% space factor.

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

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3		Compartment 4
	No box	With box	No box	With box	No box	With box	No box
PVC power cable 1.5mm² stranded copper							
XL 201	147	–	249	131	147	–	–
XL 202	147	–	249	131	184	–	–
XL 203	184	–	249	131	184	–	–
XL 211	147	–	249	131	247	–	147
XL 212	147	–	249	131	247	–	184
XL 213	184	–	249	131	247	–	184
PVC power cable 2.5mm² stranded copper							
XL 201	100	–	170	89	100	–	–
XL 202	100	–	170	89	126	–	–
XL 203	126	–	170	89	–	–	–
XL 211	100	–	170	89	169	–	100
XL 212	100	–	170	89	169	–	126
XL 213	126	–	170	89	169	–	126
PVC power cable 4.0mm² stranded copper							
XL 201	76	–	129	67	76	–	–
XL 202	76	–	129	67	95	–	–
XL 203	95	–	129	67	95	–	–
XL 211	76	–	129	67	128	–	76
XL 212	76	–	129	67	128	–	95
XL 213	95	–	129	67	128	–	95
Data cable: Ø5.5mm UTP & STP							
XL 201	42	–	71	37	42	–	–
XL 202	42	–	71	37	52	–	–
XL 203	52	–	71	37	52	–	–
XL 211	42	–	71	37	70	–	42
XL 212	42	–	71	37	70	–	52
XL 213	52	–	71	37	70	–	52
Data cable: Ø6.0mm UTP & STP							
XL 201	35	–	59	31	35	–	–
XL 202	35	–	59	31	44	–	–
XL 203	44	–	59	31	44	–	–
XL 211	35	–	59	31	59	–	35
XL 212	35	–	59	31	59	–	44
XL 213	44	–	59	31	59	–	44
Data cable: Ø6.5mm UTP & STP							
XL 201	30	–	50	26	30	–	–
XL 202	30	–	50	26	37	–	–
XL 203	37	–	50	26	37	–	–
XL 211	30	–	50	26	50	–	30
XL 212	30	–	50	26	50	–	37
XL 213	37	–	50	26	50	–	37
Data cable: Ø7.0mm UTP & STP							
XL 201	25	–	43	23	25	–	–
XL 202	25	–	43	23	32	–	–
XL 203	32	–	43	23	32	–	–
XL 211	25	–	43	23	43	–	25
XL 212	25	–	43	23	43	–	32
XL 213	32	–	43	23	43	–	32
Data cable: Ø8.38mm UTP & STP							
XL 201	21	–	37	19	21	–	–
XL 202	21	–	37	19	27	–	–
XL 203	27	–	37	19	27	–	–
XL 211	21	–	37	19	36	–	21
XL 212	21	–	37	19	36	–	27
XL 213	27	–	37	19	36	–	27