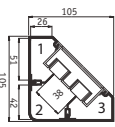


Aluminium perimeter trunking capacity guide

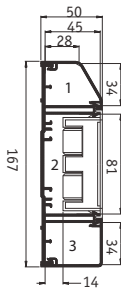
Trunking sizes up to 150mm



Bench trunking – no box

- 1 & 3 = 1285mm² total area
- 1 & 3 = 578mm² 45% space factor
- 2 = 2138mm² total area
- 2 = 962mm² 45% space factor
- With box in comp 2**
- 2 = 962mm²

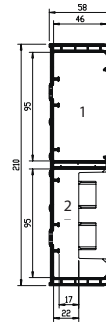
Trunking sizes from 150mm to 200mm



Sterling Profile 3002 – no box

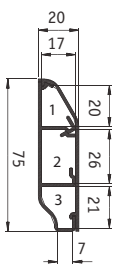
- 1 = 1197mm² total area
- 1 = 538mm² 45% space factor
- 2 = 3556mm² total area
- 3 = 1600mm² 45% space factor
- 3 = 1451mm² total area
- 3 = 652mm² 45% space factor
- With box in comp 2**
- 2 = 1279mm² total area
- 2 = 575mm² 45% space factor

Trunking sizes over 200mm



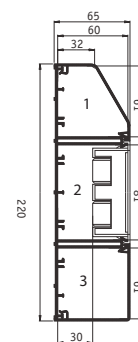
Twin Plus – no box

- 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



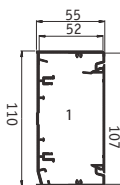
Sovereign Plus skirting – no box (Box installed externally)

- 1 = 229mm² total area
- 1 = 103mm² 45% space factor
- 2 = 416mm² total area
- 2 = 187mm² 45% space factor
- 3 = 262mm² total area
- 3 = 118mm² 45% space factor



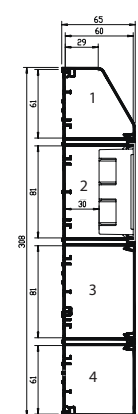
XL 302 – no box

- 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



Elegance aluminium – no box

- 1 = 5254mm² total area
- 1 = 2364mm² 45% space factor
- With box in comp 1**
- 1 = 2987mm² total area
- 1 = 1344mm² 45% space factor



XL 312 – 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

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	49.0
*Data cable	Ø8.4mm	58.0

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.

Calculations

Please note that all the above calculations are based on a box depth of 30mm

Bench trunking aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016 Silver Grey RAL 9006

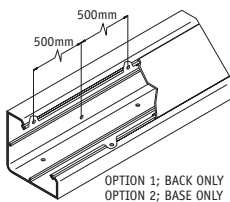
Installation

Positioning

Bench and desk installations: a single run can be fitted to rear of furniture or, if run down centre line, two units can be joined back to back presenting accessories on both sides.

Fitting

- Secure trunking base in one plane only every 500mm by drilling alternative Ø6mm holes either side of divider nib.
- Secure using 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 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.



Earthing

- Base, covers and metallic fittings to be cleaned of protective and powder coatings and earth bonded.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used. Bonding cover to base use LBS2

Joints and bends

- Base joints should be butt jointed together.
- Internal and external bends are prefabricated in aluminium, aligned and butt jointed together so cutting of base and covers has to be very accurate to produce a good finish.

Bend radius control

Contact the Technical Team on 01424 856688

Accessory boxes

- Remove the appropriate box knockout that align with segregated compartment containing supply cable and clip the box into the 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 LTL1 cover is butt-jointed to the edge of the box (ESSB1/2 only). Cut edges of the cover are concealed by the accessory. Adjoining covers are butt-jointed.

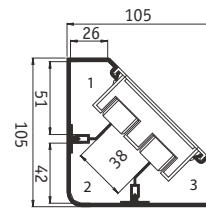
Covers – removal

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

Screening

Aluminium containment protects internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Dimensions



Bench trunking – with box

Compartment 1 (total area) = 1285mm²
 Compartment 2 (total area) = 2138mm² (with box)
 Compartment 3 (total area) = 1285mm²

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 1.5mm ² stranded copper	67	–	–	111	67	–
PVC power cable 2.5mm ² stranded copper	45	–	–	76	45	–
PVC power cable 4.0mm ² stranded copper	34	–	–	57	34	–
Data cable: Ø5.5mm	19	–	–	31	19	–
Data cable: Ø6.0mm	16	–	–	26	16	–
Data cable: Ø6.5mm	13	–	–	22	13	–
Data cable: Ø7.0mm	11	–	–	19	11	–
Data cable: Ø8.4mm	9	–	–	16	9	–

Only for straight runs. If bends are required please contact the Technical Team on 01424 856688.

Elegance Aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016 Silver Grey RAL 9006

Installation

Positioning

Elegance can be installed at dado level or as a bench-mounted installation.

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 Ø6mm 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 diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.

Earthing

- Base, covers and metallic fittings to be cleaned of protective and powder coatings and earth bonded.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding covers and end caps to base: use bonding strap LBS2.

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

- Straight lengths should be butt jointed together.
- Internal bends, external bends, flat angles and tees are prefabricated in aluminium and butt jointed together so cutting of base and covers has to be very accurate to produce a good finish.

Bend radius control

Contact the Technical Team on 01424 856688

Accessory boxes

- For boxes mounted in alternative compartment to supply, drill main web adjacent to box position.
- Remove appropriate knockout and clip box into trunking base.
- For boxes in same compartment as supply, remove appropriate knockout and clip box into trunking base.
- When boxes are installed consecutively, a 14mm wide length of cover 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 LTL1 cover is butt-joined to the edge of the box (ESSB1/2 only). Cut edges of the cover are concealed by the accessory. For fittings, a gap of 4mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

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

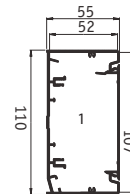
Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is 145mm.

Dimensions



Elegance Aluminium

Compartment 1 (total area) = 5254mm² (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	
	No box	With box
PVC power cable 1.5mm ² stranded copper	274	–
PVC power cable 2.5mm ² stranded copper	187	–
PVC power cable 4.0mm ² stranded copper	142	–
Data cable: Ø5.5mm	78	–
Data cable: Ø6.0mm	65	–
Data cable: Ø6.5mm	56	–

Sovereign Plus aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016 Silver Grey RAL 9006

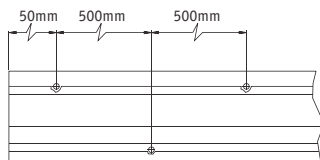
Installation

Positioning

Suitable for 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 in one plane only every 500mm by drilling alternative 6mm holes either side of divider nib.
- Secure using 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 tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.



Earthing

- Base, covers and metallic fittings to be cleaned of protective and powder coatings and earth bonded using twin earth channel.
- Incoming earth connection is made using LTB1 bonding assembly.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.

Joints and bends

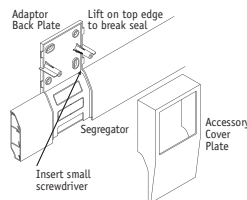
- Base joints should be butt jointed together.
- Internal and external bends are prefabricated in aluminium, aligned and butt jointed together so cutting of base and covers has to be very accurate to produce a good finish.

Bend radius control

Contact the Technical Team on 01424 856688

Accessory boxes

- Mounted on to trunking body with accessory external to the trunking.
- Remove required knockout in back segregator plate that aligns with trunking cable compartment.
- Clip to trunking base and secure to wall surface using 2 diagonally opposite fixing holes.
- Feed cables through knockout.
- After trunking cover has been fitted to base, clip front cover plate to back plate.
- Complete assembly is finally secured together when the wired accessory is screwed to accessory front plate.



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 LTL1 cover is butt-jointed to the edge of the box mounting. Cut edges of the cover are concealed by the accessory. For fittings, a gap of 10mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

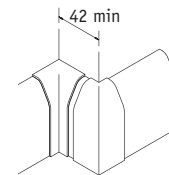
To remove a cover, first detach an accessory to gain access. The main cover can then be gently eased off the base.

Screening

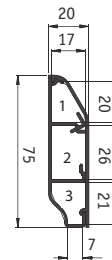
Aluminium containment protects internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Offset dimensions

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



Dimensions



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	No box	No box
PVC power cable 1.5mm ² stranded copper	12	21	12
PVC power cable 2.5mm ² stranded copper	8	14	9
PVC power cable 4.0mm ² stranded copper	6	10	7
Data cable: Ø5.5mm	3	6	3
Data cable: Ø6.0mm	3	5	3

Sterling Profile aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016 Silver Grey RAL 9006

Installation

Positioning

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.

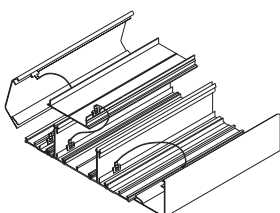


Fitting

- 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 Ø6mm 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 diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.

Earthing

- Clean protective coating from base, covers and metallic fittings and then earth bond.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding covers and end caps to base: use bonding strap LBS2.

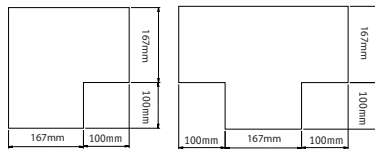


Single lengths

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

- Moulded from colour matching polycarbonate.
- Internal and external bends must be mitred at 45° to ensure total enclosure and segregation of trunking compartments, including any internal fitted segregator.
- Straight lengths should be butt jointed together.
- Flat angles and tees are prefabricated in aluminium.
- Cutting of base and covers is not critical as external moulded clip-on fittings cover the joint and overlap covers by 10mm each side to cover minor inaccuracies.

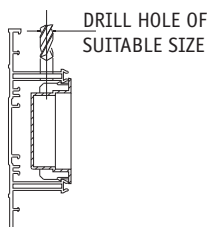


Bend radius control

Contact the Technical Team on 01424 856688

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

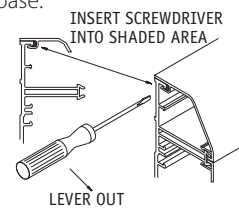
Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the LTL1 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.

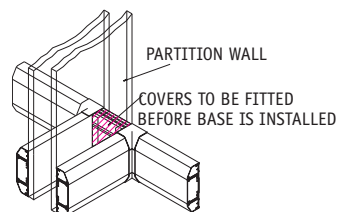


Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Method of continuation through a partition wall

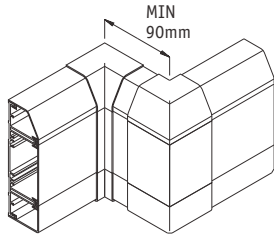
Continue the main lateral run of base through the partition wall. Fit short lengths of cover where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an internal bend fitting.



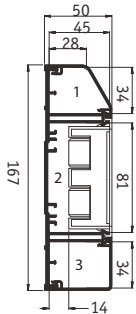
Sterling Profile aluminium – continued

Offset dimensions

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



Dimensions



Sterling Profile 3002 - no box

Compartment 1 (total area) = 1197mm²
 Compartment 2 (total area) = 3556mm² (with box)
 Compartment 3 (total area) = 1451mm²

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 1.5mm ² stranded copper						
Sterling Profile 1	62	–	186	66	62	–
Sterling Profile 2	62	–	186	66	75	–
Sterling Profile 3	75	–	186	66	75	–

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	–

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	–

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	–

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	–

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	–

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	–

Twin Plus aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016 Silver Grey RAL 9006

Installation

Positioning

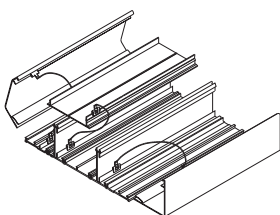
Suitable for dado and skirting installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

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 Ø6mm 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.

Earthing

- Clean protective coating from base, covers and metallic fittings and then earth bond.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding covers and end caps to base: use bonding strap LBS2.

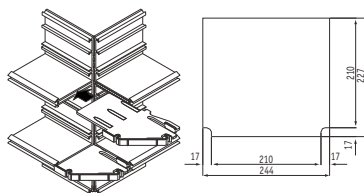


Single lengths

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

- Moulded from colour-matching polycarbonate. External bends: base should be cut square at the corner and the internal segregator inserted into the web of each base.
- Internal bends: base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Flat angles, tees and crossovers are prefabricated aluminium.
- External moulded fittings overlap the joints by up to 10mm 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-joined to the edge of the box. For the fitting of couplers to conceal the cover joint, 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

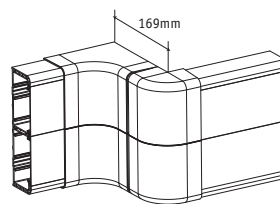
Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

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.

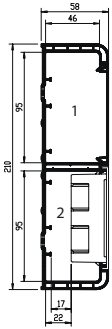
Offset dimensions

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



Twin Plus aluminium – continued

Dimensions



Twin Plus trunking – with accessory box

Compartment 1 (total area) = 4755mm²
 Compartment 2 (total area) = 2431mm² with box
 Compartment 2 (45% space factor) = 1094mm²
 (compartment 1 and 2 are reversible)

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	
	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	248	127	248	127
PVC power cable 2.5mm ² stranded copper	169	86	169	86
PVC power cable 4.0mm ² stranded copper	128	65	128	65
Data cable: Ø5.5mm	70	36	70	36
Data cable: Ø6.0mm	59	30	59	30
Data cable: Ø6.5mm	50	25	50	25
Data cable: Ø7.0mm	43	22	43	22
Data cable: Ø8.38mm	36	18	36	18

XL trunking aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish.

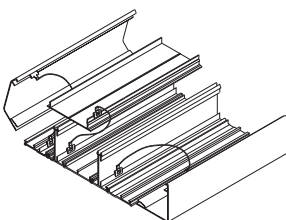
Installation

Positioning

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 diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
 - Consecutive lengths of base are aligned and butt jointed together.
- #### Earthing
- Clean protective coating from base, covers and metallic fittings and then earth bond.
 - Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
 - Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
 - Bonding covers and end caps to base: use bonding strap LBS2.

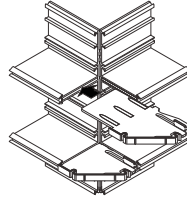


Single lengths

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.

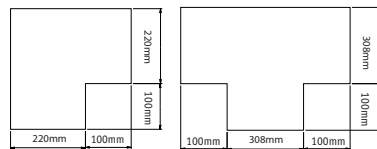
Joints and bends

- Moulded from colour-matching polycarbonate.
- External bends: base should be cut square at the corner and the internal segregator inserted into the web of each base.



- Internal bends: base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Flat angles, tees and crossovers are prefabricated aluminium.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.

Template dimensions for Flat angle and Tee

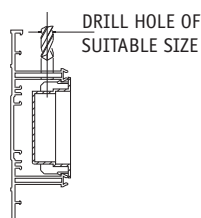


Bend radius control

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

Accessory boxes

- If accessory box in 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 minimum space is required to cover the space between the boxes (use PVC-U ES1WH or use section of aluminium cover)
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

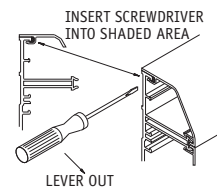
The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the LTL1 covers are butt-jointed 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



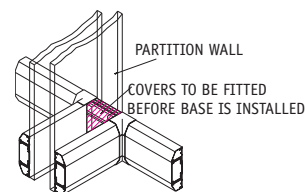
component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.

Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Method of continuation through a partition wall

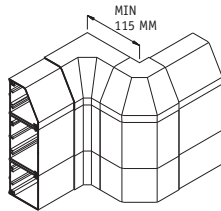
Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an internal bend. (as shown below)



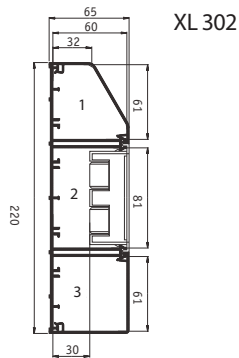
XL trunking aluminium – continued

Offset dimensions

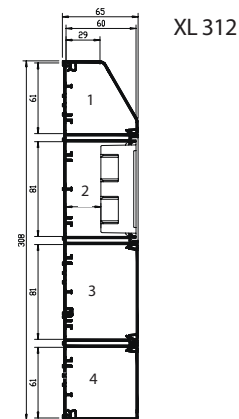
The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions



XL 302



XL 312

XL 302 – no box

Compartment 1 (total area) = 2824mm²
 Compartment 2 (45% space factor) = 4771mm² (with box)
 Compartment 3 (45% space factor) = 3531mm² (with box)
 Compartment 3 = 2504mm² (with box)

XL 312 – no box

Compartment 1 (total area) = 2824mm²
 Compartment 2 (total area) = 4771mm²
 Compartment 2 = 2511mm² (with box)
 Compartment 3 (total area) = 4732mm²
 Compartment 3 = 2102mm² (with box)
 Compartment 4 (total area) = 3531mm²

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		Compartment 4
	No box	With box	No box	With box	No box	With box	No box
PVC power cable 1.5mm² stranded copper							
XL 301	147	–	249	131	147	–	–
XL 302	147	–	249	131	184	–	–
XL 303	184	–	249	131	184	–	–
XL 311	147	–	249	131	247	128	147
XL 312	147	–	249	131	247	128	184
XL 313	184	–	249	131	247	128	184
PVC power cable 2.5mm² stranded copper							
XL 301	100	–	170	89	100	–	–
XL 302	100	–	170	89	126	–	–
XL 303	126	–	170	89	126	–	–
XL 311	100	–	170	89	169	88	100
XL 312	76	–	129	89	169	88	126
XL 313	95	–	129	89	169	88	126
PVC power cable 4.0mm² stranded copper							
XL 301	76	–	129	67	76	–	–
XL 302	76	–	129	67	95	–	–
XL 303	95	–	129	67	95	–	–
XL 331	76	–	129	67	128	52	76
XL 312	76	–	129	67	128	52	95
XL 313	95	–	129	67	128	52	95
Data cable: Ø5.5mm							
XL 301	42	–	71	37	42	–	–
XL 302	42	–	71	37	52	–	–
XL 303	52	–	71	37	52	–	–
XL 311	42	–	71	37	70	36	42
XL 312	42	–	71	37	70	36	52
XL 313	52	–	71	37	70	36	52
Data cable: Ø6.0mm							
XL 301	35	–	59	31	35	–	–
XL 302	35	–	59	31	44	–	–
XL 303	44	–	59	31	44	–	–
XL 331	35	–	59	31	59	30	35
XL 312	35	–	59	31	59	30	44
XL 313	44	–	59	31	59	30	44
Data cable: Ø6.5mm							
XL 301	30	–	50	26	30	–	–
XL 302	30	–	50	26	37	–	–
XL 303	37	–	50	26	37	–	–
XL 311	30	–	50	26	50	26	30
XL 312	30	–	50	26	50	26	37
XL 313	37	–	50	26	50	26	37
Data cable: Ø7.0mm							
XL 301	25	–	43	23	25	–	–
XL 302	25	–	43	23	32	–	–
XL 303	32	–	43	23	32	–	–
XL 311	25	–	43	23	43	22	25
XL 312	25	–	43	23	43	22	32
XL 313	32	–	43	23	43	22	32
Data cable: Ø8.4mm							
XL 301	21	–	37	19	21	–	–
XL 302	21	–	37	19	27	–	–
XL 303	27	–	37	19	27	–	–
XL 311	21	–	37	19	36	19	21
XL 312	21	–	37	19	36	19	27
XL 313	27	–	37	19	36	19	27