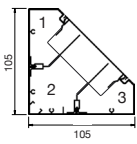


Aluminium trunking capacity guide

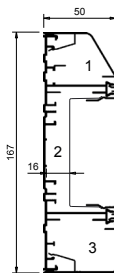
Trunking sizes up to 150mm



Bench trunking – no box
 1 & 3 = 1842mm² total area
 1 & 3 = 829mm² 45% space factor
 2 = 3342mm² total area
 2 = 1504mm² 45% space factor

With box in comp 2
 2 = 2188mm² total area
 2 = 984mm² 45% space factor

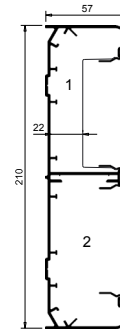
Trunking sizes from 150mm to 200mm



Sterling Profile 3002 – no box
 1 = 1060mm² total area
 1 = 477mm² 45% space factor
 2 = 3802mm² total area
 2 = 1711mm² 45% space factor
 3 = 1400mm² total area
 3 = 630mm² 45% space factor

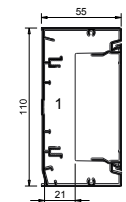
With box in comp 2
 2 = 1535mm² total area
 2 = 691mm² 45% space factor

Trunking sizes over 200mm



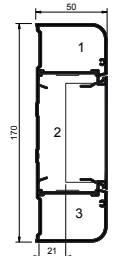
Twin Plus – no box
 1 & 2 = 5000mm² total area
 1 & 2 = 2250mm² 45% space factor

With box in comps 1 or 2
 1 & 2 = 2733mm² total area
 1 & 2 = 1230mm² 45% space factor



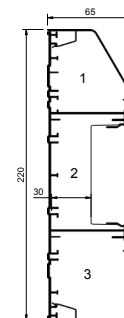
Elegance 110 aluminium – no box
 1 = 5254mm² total area
 1 = 2364mm² 45% space factor

With box in comp 1
 1 = 2987mm² total area
 1 = 1344mm² 45% space factor



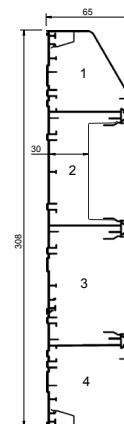
Elegance 170 aluminium – no box
 1 = 1764mm² total area
 1 = 794mm² 45% space factor
 2 = 4508mm² Total Area
 2 = 2029mm² 45% space factor

With box in comp 2
 2 = 1748mm² total area
 2 = 787mm² 45% space factor



XL 302 – no box
 1 = 2680mm² total area
 1 = 1206mm² 45% space factor
 2 = 4639mm² total area
 2 = 2088mm² 45% space factor
 3 = 3490mm² total area
 3 = 1570mm² 45% space factor

With box in comp 2
 2 = 1123mm² total area
 2 = 505mm² 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	8.0
Stranded PVC power	2.5mm ²	11.9
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

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

For Data cable information, please see page 246

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

Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

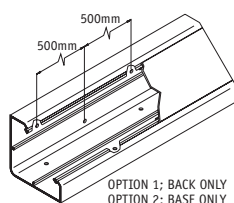
Installation

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 +44 (0)1424 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.

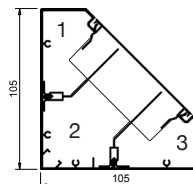
Covers – removal

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

- 1 = 1345mm² total area
- 1 = 605mm² 45% space factor
- 2 = 2188mm² total area
- 2 = 984mm² 45% space factor
- 3 = 1345mm² total area
- 3 = 605mm² 45% space factor

Bench trunking – No box

- 1 = 1842mm² total area
- 1 = 828mm² 45% space factor
- 2 = 3342mm² total area
- 2 = 1504mm² 45% space factor
- 3 = 1842mm² total area
- 3 = 828mm² 45% space factor

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	104	76	188	123	104	76
PVC power cable 2.5mm ² stranded copper	70	51	126	83	70	51
PVC power cable 4.0mm ² stranded copper	50	36	91	59	50	36
Data cable: Ø5.5mm	35	25	63	41	35	25
Data cable: Ø6.0mm	29	21	53	35	29	21
Data cable: Ø6.5mm	26	19	47	31	26	19
Data cable: Ø7.0mm	22	16	39	26	22	16
Data cable: Ø8.4mm	15	11	27	18	15	11

Only for straight runs. If bends are required please contact the Technical Team on +44 (0)1424 856688.

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Product Information

Elegance Aluminium

Material

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

White RAL 9016

Silver Grey RAL 9006

Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

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 (110) or inner (170) 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 powder coatings for earth bonding.
- Elegance 110: Incoming earth connection is made using LBT1 bonding assembly installed in the earth channel of the base.
- Elegance 170: Incoming earth connection is made using LBT3 bonding kit, with edge clip attached to the earth rib in the base and faston connector crimped to incoming earth cable.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding end caps to base: use bonding strap LBS5.
- Bonding base to cover, use LBS2.

Joints and bends

- Straight lengths should be butt jointed together with the aid of LDP1 coupler pin if required.
- 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.

Accessory boxes

- 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/LP1010 cover is butt-joined to the edge of the box (ESSB1/2 only). Cut edges of the cover are concealed by the accessory.

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

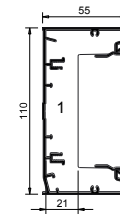
Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation metallic dividing fillets are available.

Offset dimensions

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

Dimensions

Elegance 110

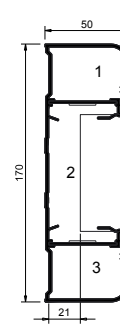


1 = 5254mm² total area
1 = 2364mm² 45% space factor

With box in comp 1

1 = 2987mm² total area
1 = 1344mm² 45% space factor

Elegance 170



A = 1764mm² total area
A = 794mm² 45% space factor

Without Accessory

B = 4508mm² total area
B = 2029mm² 45% space factor

With Accessory

B = 1748mm² total area
B = 787mm² 45% space factor

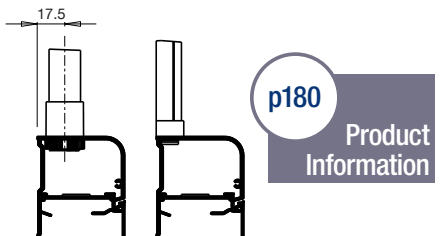
Cable capacities

- 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.

Fixing to Conduit and Mini Trunking

Elegance 170 can be used in conjunction with Conduit and Mini trunking systems as detailed in the diagrams below:



Cable capacity chart Total cables = Volume/cable factor	Elegance 110		Elegance 170		
	Compartment 1		Compartment 1	Compartment 2	
	No box	With box	No box	With box	
PVC power cable 1.5mm ² stranded copper	296	168	99	254	98
PVC power cable 2.5mm ² stranded copper	199	113	67	170	66
PVC power cable 4.0mm ² stranded copper	142	81	48	122	47
Data cable: Ø5.5mm	99	56	33	85	33
Data cable: Ø6.0mm	84	47	28	72	28
Data cable: Ø6.5mm	73	42	25	63	24
Data cable: Ø7.0mm	61	35	21	53	20
Data cable: Ø8.4mm	43	24	14	37	14

Sterling Profile aluminium

Material

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

White RAL 9016

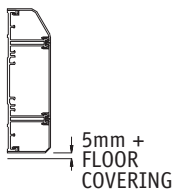
Silver Grey RAL 9006

Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

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.

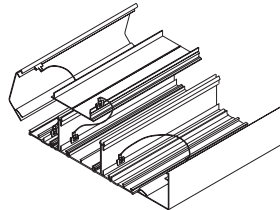


Fitting

- 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.



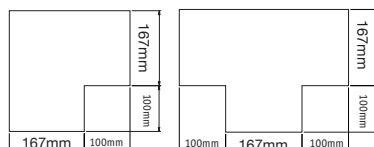
Single lengths

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.

Template dimensions for Flat angle and Tee

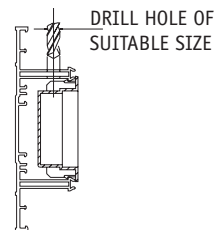


Bend radius control

Contact the Technical Team on +44 (0)1424 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

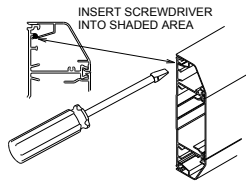
Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

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.

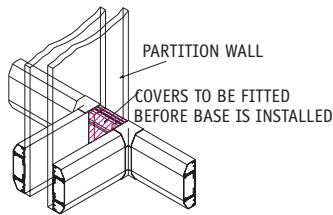


Screening

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

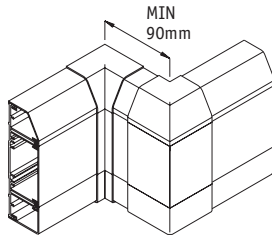
Continue the main lateral run of base through the partition wall. Fit short lengths of cover where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an internal bend fitting.



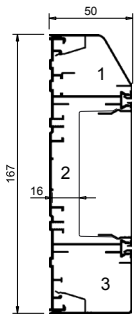
Sterling Profile aluminium – continued

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

- 1 = 1060mm² total area
- 1 = 477mm² 45% space factor
- 2 = 3802mm² total area
- 2 = 1711mm² 45% space factor
- 3 = 1400mm² total area
- 3 = 630mm² 45% space factor

Sterling Profile 3002 - with box

- 2 = 1535mm² total area
- 2 = 691mm² 45% space factor

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

Sterling Profile 1	60	–	214	86	65	–
Sterling Profile 2	60	–	214	86	79	–
Sterling Profile 3	73	–	214	86	79	–

PVC power cable 2.5mm² stranded copper

Sterling Profile 1	40	–	144	58	44	–
Sterling Profile 2	40	–	144	58	53	–
Sterling Profile 3	49	–	144	58	53	–

PVC power cable 4.0mm² stranded copper

Sterling Profile 1	29	–	103	42	31	–
Sterling Profile 2	29	–	103	42	38	–
Sterling Profile 3	35	–	103	42	38	–

Data cable: Ø5.5mm

Sterling Profile 1	20	–	72	29	22	–
Sterling Profile 2	20	–	72	29	26	–
Sterling Profile 3	25	–	72	29	26	–

Data cable: Ø6.0mm

Sterling Profile 1	17	–	60	24	18	–
Sterling Profile 2	17	–	60	24	22	–
Sterling Profile 3	21	–	60	24	22	–

Data cable: Ø6.5mm

Sterling Profile 1	15	–	53	21	16	–
Sterling Profile 2	15	–	53	21	20	–
Sterling Profile 3	18	–	53	21	20	–

Data cable: Ø7.0mm

Sterling Profile 1	12	–	44	18	14	–
Sterling Profile 2	12	–	44	18	16	–
Sterling Profile 3	15	–	44	18	16	–

Data cable: Ø8.4mm

Sterling Profile 1	9	–	31	12	9	–
Sterling Profile 2	9	–	31	12	11	–
Sterling Profile 3	11	–	31	12	11	–

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

Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

Installation

Positioning

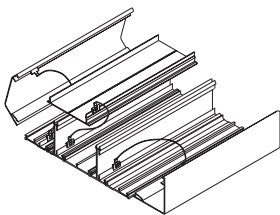
Suitable for dado and skirting installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

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.

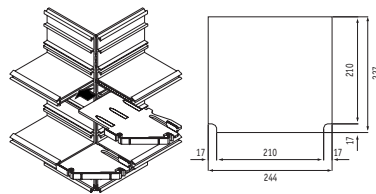


Single lengths

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 seggregator inserted into the web of each base.
- Internal bends: base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted seggregator.
- 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-jointed 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

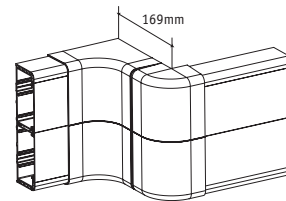
Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

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.

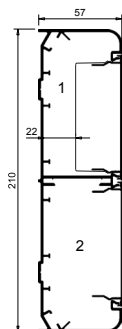
Offset dimensions

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

- 1 = 2733mm² total area
- 1 = 1230mm² 45% space factor
- 2 = 2833mm² total area
- 2 = 1275mm² 45% space factor

Twin Plus trunking – no box

- 1 = 5000mm² total area
- 1 = 2250mm² 45% space factor
- 2 = 5100mm² total area
- 2 = 2295mm² 45% space factor

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	281	154	287	159
PVC power cable 2.5mm ² stranded copper	189	103	193	107
PVC power cable 4.0mm ² stranded copper	136	74	138	77
Data cable: Ø5.5mm	95	52	96	54
Data cable: Ø6.0mm	80	43	81	45
Data cable: Ø6.5mm	70	38	71	40
Data cable: Ø7.0mm	58	32	60	33
Data cable: Ø8.4mm	41	22	41	23

XL trunking aluminium

Material

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

Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

Installation

Positioning

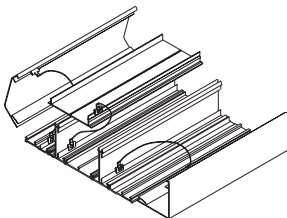
For dado and skirting installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

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.

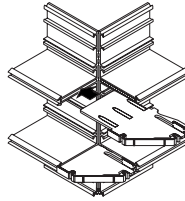


Single lengths

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.

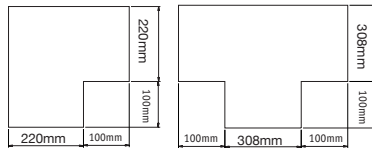
Joints and bends

- 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

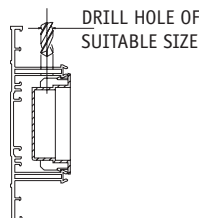


Bend radius control

For data bend radius control fittings for XL, please contact the Technical Team on +44 (0)1424 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

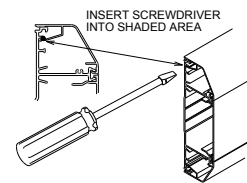
The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

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.

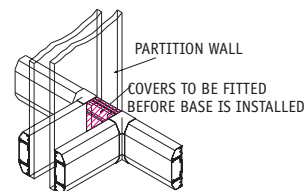


Screening

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

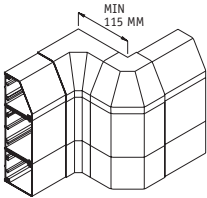
Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)



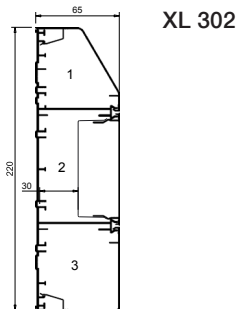
XL trunking aluminium – continued

Offset dimensions

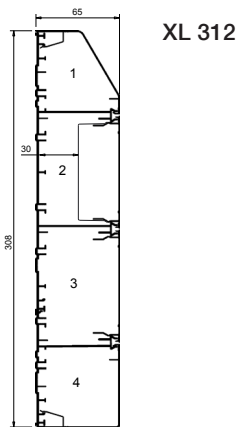
The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions



XL 302



XL 312

XL 302 – no box

- 1 = 2680mm² total area
- 1 = 1206mm² 45% space factor
- 2 = 4639mm² total area
- 2 = 2087mm² 45% space factor
- 3 = 3490mm² total area
- 3 = 1570mm² 45% space factor

XL 302 – with box

- 2 = 1123mm² total area
- 2 = 505mm² 45% space factor

XL 312 – no box

- 1 = 2680mm² total area
- 1 = 1206mm² 45% space factor
- 2 = 4639mm² total area
- 2 = 2087mm² 45% space factor
- 3 = 4570mm² total area
- 3 = 2056mm² 45% space factor
- 4 = 3490mm² total area
- 4 = 1570mm² 45% space factor

XL 312 – with box

- 2 = 2323mm² total area
- 2 = 1045mm² 45% space factor
- 3 = 2254mm² total area
- 3 = 1014mm² 45% space factor

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	151	–	261	63	156	–	–
XL 302	151	–	261	63	196	–	–
XL 303	191	–	261	63	196	–	–
XL 311	151	–	261	131	257	127	156
XL 312	151	–	261	131	257	127	196
XL 313	191	–	261	131	257	127	196
PVC power cable 2.5mm² stranded copper							
XL 301	101	–	175	42	105	–	–
XL 302	101	–	175	42	132	–	–
XL 303	128	–	175	42	132	–	–
XL 311	101	–	175	88	173	85	105
XL 312	101	–	175	88	173	85	132
XL 313	128	–	175	88	173	85	132
PVC power cable 4.0mm² stranded copper							
XL 301	73	–	126	30	75	–	–
XL 302	73	–	126	30	95	–	–
XL 303	92	–	126	30	95	–	–
XL 331	73	–	126	63	124	61	75
XL 312	73	–	126	63	124	61	95
XL 313	92	–	126	63	124	61	95
Data cable: Ø5.5mm							
XL 301	51	–	88	21	53	–	–
XL 302	51	–	88	21	66	–	–
XL 303	64	–	88	21	66	–	–
XL 311	51	–	88	44	86	43	53
XL 312	51	–	88	44	86	43	66
XL 313	64	–	88	44	86	43	66
Data cable: Ø6.0mm							
XL 301	43	–	74	18	44	–	–
XL 302	43	–	74	18	55	–	–
XL 303	54	–	74	18	55	–	–
XL 331	43	–	74	37	73	36	44
XL 312	43	–	74	37	73	36	55
XL 313	54	–	74	37	73	36	55
Data cable: Ø6.5mm							
XL 301	37	–	65	16	39	–	–
XL 302	37	–	65	16	49	–	–
XL 303	47	–	65	16	49	–	–
XL 311	37	–	65	32	64	32	39
XL 312	37	–	65	32	64	32	49
XL 313	47	–	65	32	64	32	49
Data cable: Ø7.0mm							
XL 301	31	–	54	13	32	–	–
XL 302	31	–	54	13	41	–	–
XL 303	40	–	54	13	41	–	–
XL 311	31	–	54	27	53	26	32
XL 312	31	–	54	27	53	26	41
XL 313	40	–	54	27	53	26	41
Data cable: Ø8.4mm							
XL 301	22	–	38	9	23	–	–
XL 302	22	–	38	9	28	–	–
XL 303	28	–	38	9	28	–	–
XL 311	22	–	38	19	37	18	23
XL 312	22	–	38	19	37	18	28
XL 313	28	–	38	19	37	18	28