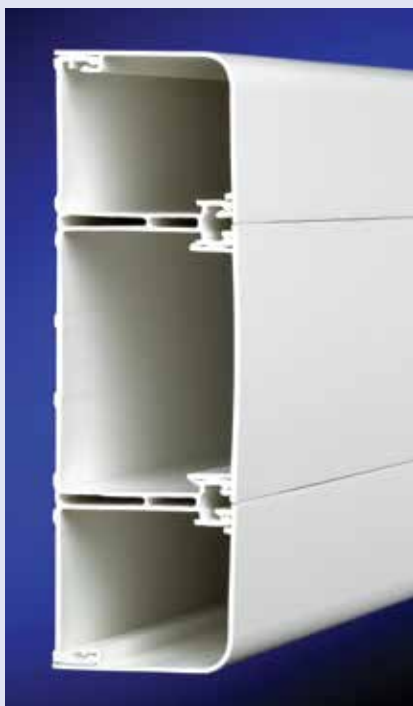




INSTALLATION GUIDE



PRACTICAL AND EFFICIENT CABLE RETENTION



President Installation Guide

The President three compartment trunking is manufactured to comply with BS 4678 Part 4 (1982), and allows the installer to comply BS7671 (Wiring Regulations). However, the installer should be satisfied that the regulations are met before commencement of any installation.

Preparation

The installer should ensure that the fixing surface is flat and prepared to receive the trunking base. The internal and external corners should be as near as possible to a right angle. If not, then corrective work must be carried out before commencing the installation.

Installation

The trunking base and lid can be cut with a line tooth saw and trimmed with a sharp knife. The cutting of all joints is not critical as the couplers, internal and external angles all overlap the lids to compensate for slight inaccuracies.

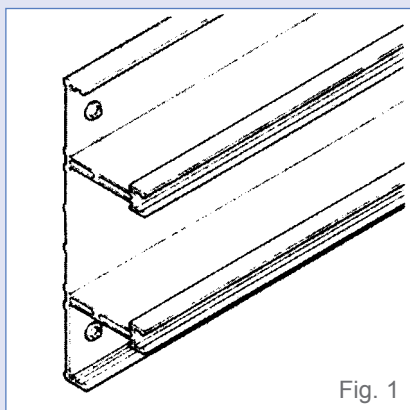


Fig. 1

The trunking base should be fixed in the centre of the top and bottom compartments at fixing centres no greater than 600mm. When fixing, consideration should be given to allow for expansion and contraction - a 5mm gap is recommended at all joints. Washers should be fitted under screw heads, taking care not to overtighten the screws.

Mitring is NOT required on corner fixings. See Fig. 2 and Fig. 3.

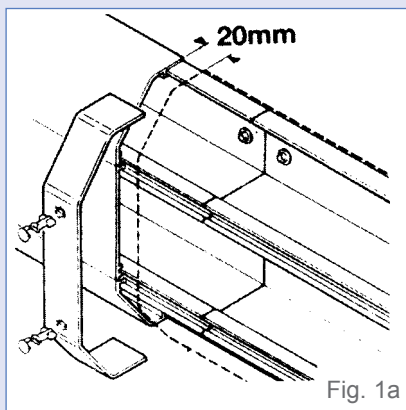


Fig. 1a

For maximum strength and rigidity, ALWAYS stagger the trunking base joints and lid joints. Doing so ensures a positive fixing for the locking caps supplied with the couplers. See Fig. 1a and Fig. 10.

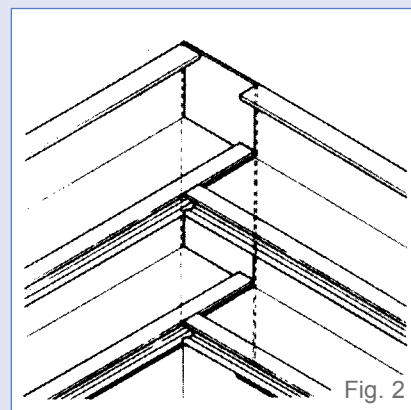


Fig. 2

Internal corners DO NOT require mitring.

Use the end blanking piece provided with all internal accessories (Fig 2).

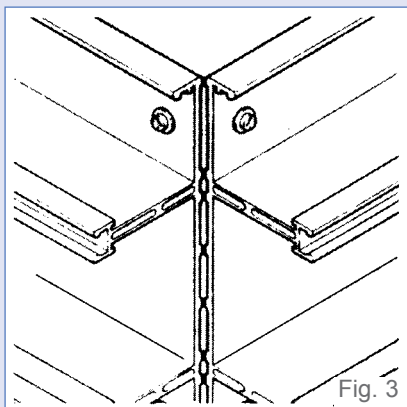


Fig. 3

On external corners cut the trunking to the exact length.

Once again, there is no need to mitre. (Fig. 3).

See Fig. 12 for continuation of divider.

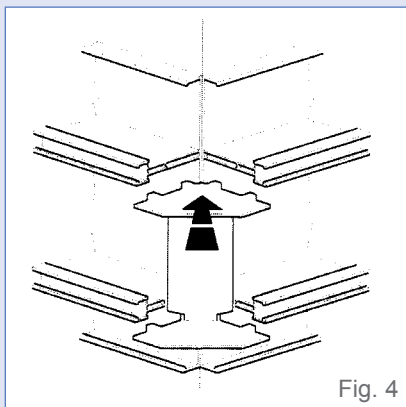


Fig. 4

Clip-in radiused corner guards are compliant with Cat 5 and Cat 6 cable requirements and offer added protection to cables at 90° bends. (Fig. 4).

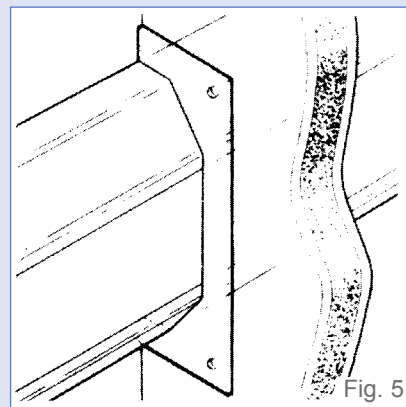


Fig. 5

Where the trunking passes through a partition wall, make good the hole using a wall plate for the relevant trunking profile. (Fig. 5).

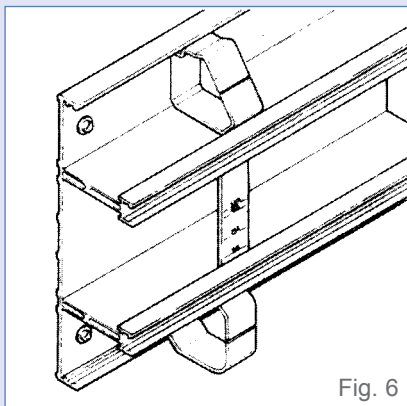


Fig. 6

Cable Installation

Before commencing the installation of cables, it's recommended that adequate snap-in cable retainers for all components are fitted. (Fig 6).

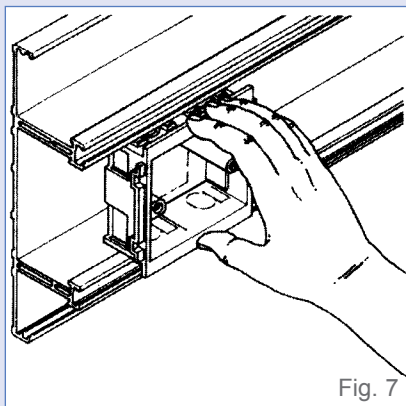


Fig. 7

Accessory Installation

Once the trunking base has been installed, the outlet boxes should be fitted.

Offer the outlet box to the centre compartment and with gentle hand pressure push the outlet box into the trunking until it clicks into position. (Fig. 7).

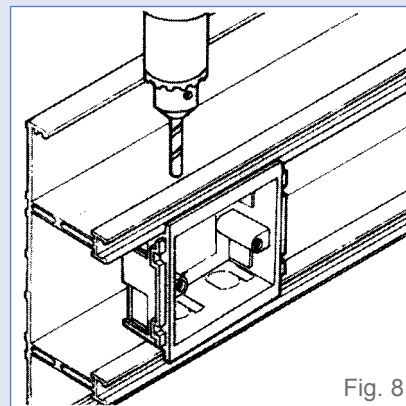


Fig. 8

Access of cables into the outlet box from the top or bottom compartments should be made by drilling a suitable size (eg. 16mm) hole through the upper/lower divider, (Fig 8).

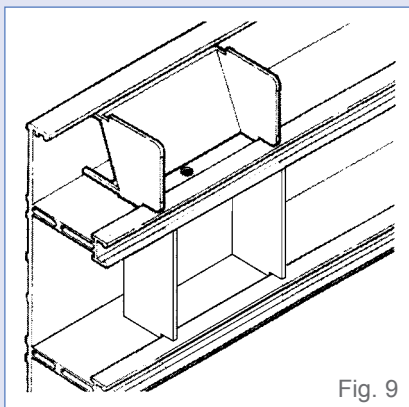


Fig. 9

Segregation is achieved in the upper/lower/centre compartments by using a relevant bridging piece (Fig. 9).

Cat nos: Sides: ABR 1. ABR 2.
ABR 4 Centre: ABR 3. ABR 3/4

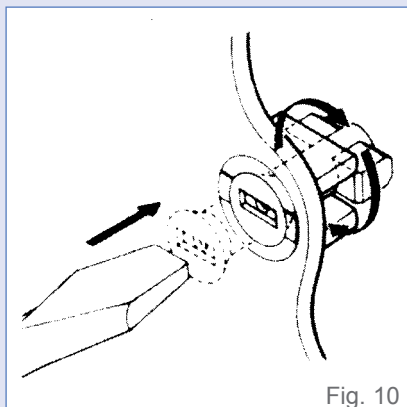


Fig. 10

Internal, external bend and couplers are positively secured by the unique Centaur locking device.

Insert the locking device supplied through the accessory and into the channel of the trunking and turn through 90° using a small screwdriver. (Fig. 10).

The locking cap should now be fitted. This ensures the key is in the lock position.

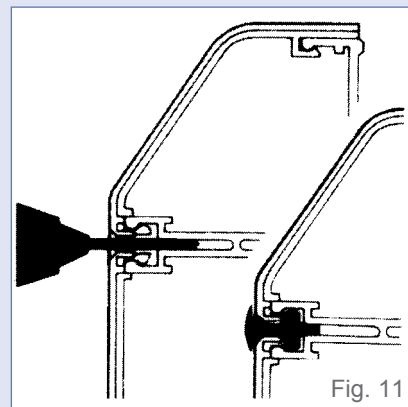


Fig. 11

External bends are secured in the same manner as described above. However, for increased security. 4mm diameter holes are drilled into the base channel.

Place the fitting in the fixed position and use as a template to drill 4mm diameter holes and insert dowelled locking device provided with the accessory. (Fig 11).

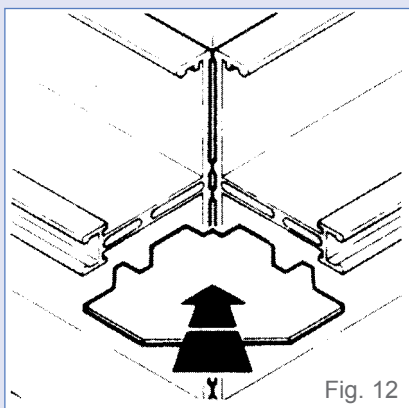


Fig. 12

For continued segregation around external corners, insert divider pieces supplied with the external fitting into the base pillar slots. (Fig. 12).

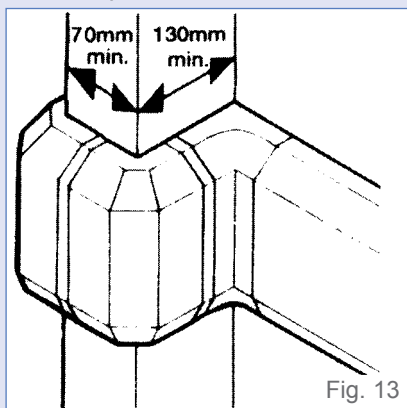


Fig. 13

When fixing around pillars, the minimum dimensions that can be achieved using standard internal and external accessories is 130mm x 70mm. (Fig 13).

For Cat 6 data internal accessories 190mm x 70mm.

However, special fabricated sections can be factory made to customer specifications to save installation time.

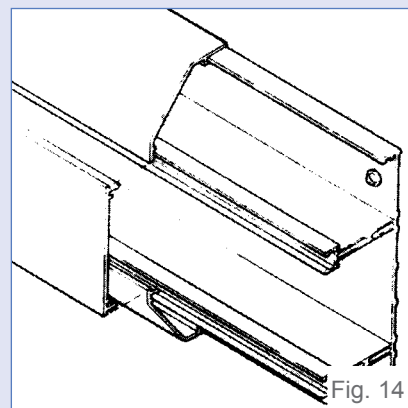


Fig. 14

Lid Fixing

It is recommended that the outer compartment lids are secured first.

Remember to clip the OUTER lip first. (Fig 14).

Note: Lid joints and trunking joints should always be staggered.

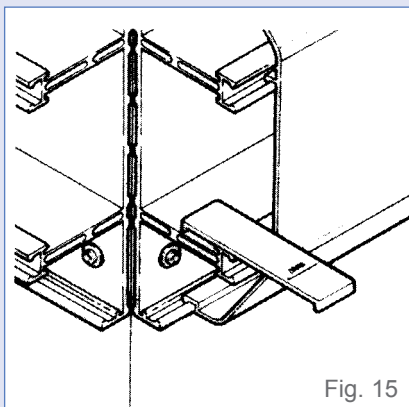


Fig. 15

At an internal or external fitting or coupling the lids should always be cut back by 20mm from the corner to allow for the locking device to act. Centre cable retainer, Cat no. AMCR 1. can be used as a measure for this purpose. (Fig. 15).

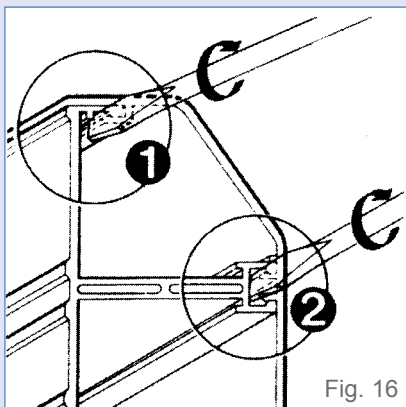


Fig. 16

Lid Removal

To remove a trunking lid, it is essential to start at a fitting.

Remove couplers and fittings by simply turning the locking device through 90°. Insert a flat bladed screwdriver into the channel of the trunking and use a gentle twisting action to unclip the lid. (Fig. 16).

This will prevent any visual damage to the face of the lid.

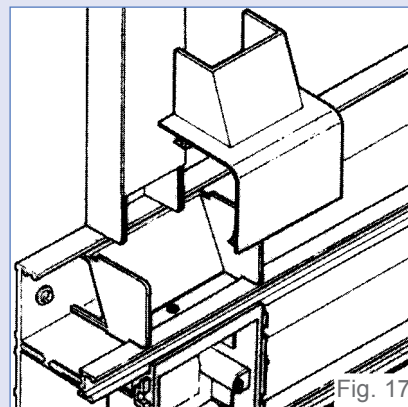


Fig. 17

Mini Trunking & Conduit Entry

Use the relevant clip-on adaptors for mini trunking or conduit entry, see (Fig. 17).

Segregation can be achieved between compartments by use of be relevant bridge pieces, (see Fig. 9).

Tee Segregation

Segregation of services at a tee fixing can be achieved by use of the relevant bridge pieces. (see Fig. 9).

To maintain segregation of centre-to-centre compartment, the fabricated tee is already provided with a crossover, (Fig. 18).

Special installation requirements for difficult angles and pier sets etc.. can be met using our in-house fabrication facility. This can help to significantly reduce on-site installation time.

For more details and technical advice contact the Centaur sales office on 01527 528049.

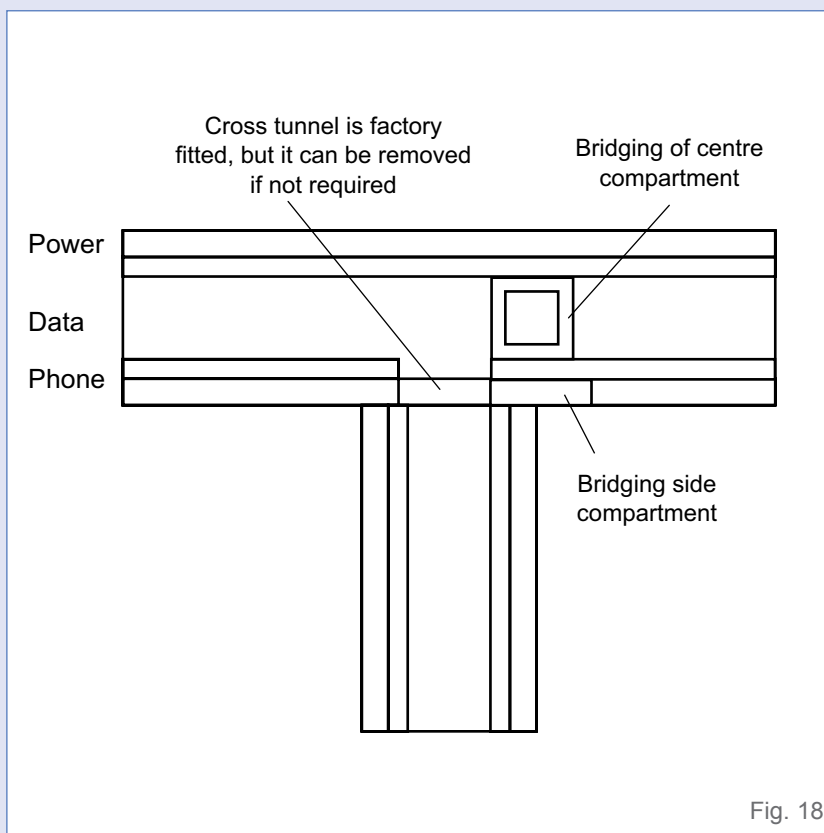


Fig. 18



Maxi Trunking Installation

To fix the trunking system; drill oversize holes through the floor of the trunking at centres not greater than 1 metre. Ensure that washers are used under the screw head. Use rubber washers if explosive bolts are employed and do not overtighten screws.

Fittings are secured in the normal way with screws and washers. It is important that the lids of accessories are in position before sliding the lid of the main run of trunking.

Although Centaur Maxi Trunking has considerable structural strength, the rigidity of the installation will be enhanced if the end of a section does not coincide with its lid. Divider strips to provide two or three compartment trunking are available. For ease of installation, divider strips are fitted with adhesive tape. The divider can be placed in the required position and set by peeling off the adhesive cover tape.



Mini Trunking Installation

Normally Centaur Mini-Trunking is fixed by screwing through the base or if on a smooth level surface a contact adhesive may be used. Extra strength will be imparted to the installation if lid and base section joints are out of sequence.

The use of a fine toothed tenon saw and mitre block will ensure neat and clean details and firm locking with accessories.

Fixing points within 100mm of accessories and 400mm intervals in other run of mini-trunking ensures maximum strength and safety. Lay wiring into trunking before accessories are installed.

Short lengths of lid used temporarily will help with correct alignment of base before finally clicking correct top section into position.

If larger sections are used to carry central heating pipes it is advisable to insulate the pipes from direct contact with Centaur Mini-Trunking.



Conduit Installation

uPVC conduit has a rate of expansion greater than that of steel, it is therefore important to make sure that surface work allows for a sliding joint into boxes or couplers. This will permit movement along the conduit run and avoid distortion.

The distance between saddles or clips should not exceed 4' 0" (1.20m). If possible the boxes should be fixed first and a line used to establish correct alignment, which will ease the threading of cable through the conduit. Cutting can be performed with any fine-toothed saw. Bending or forming of conduit of 25mm dia. or less can be achieved cold, provided the appropriate bending spring is employed internally in the location of the bend. Greater diameters may need local application of gentle heat. Cable is threaded by using the Centaur tape draw.

Centaur plastic conduit cement provides a waterproof joint which is easily made by painting the female internal surface of any joint before sliding the male section in with a twisting action to spread the cement evenly.