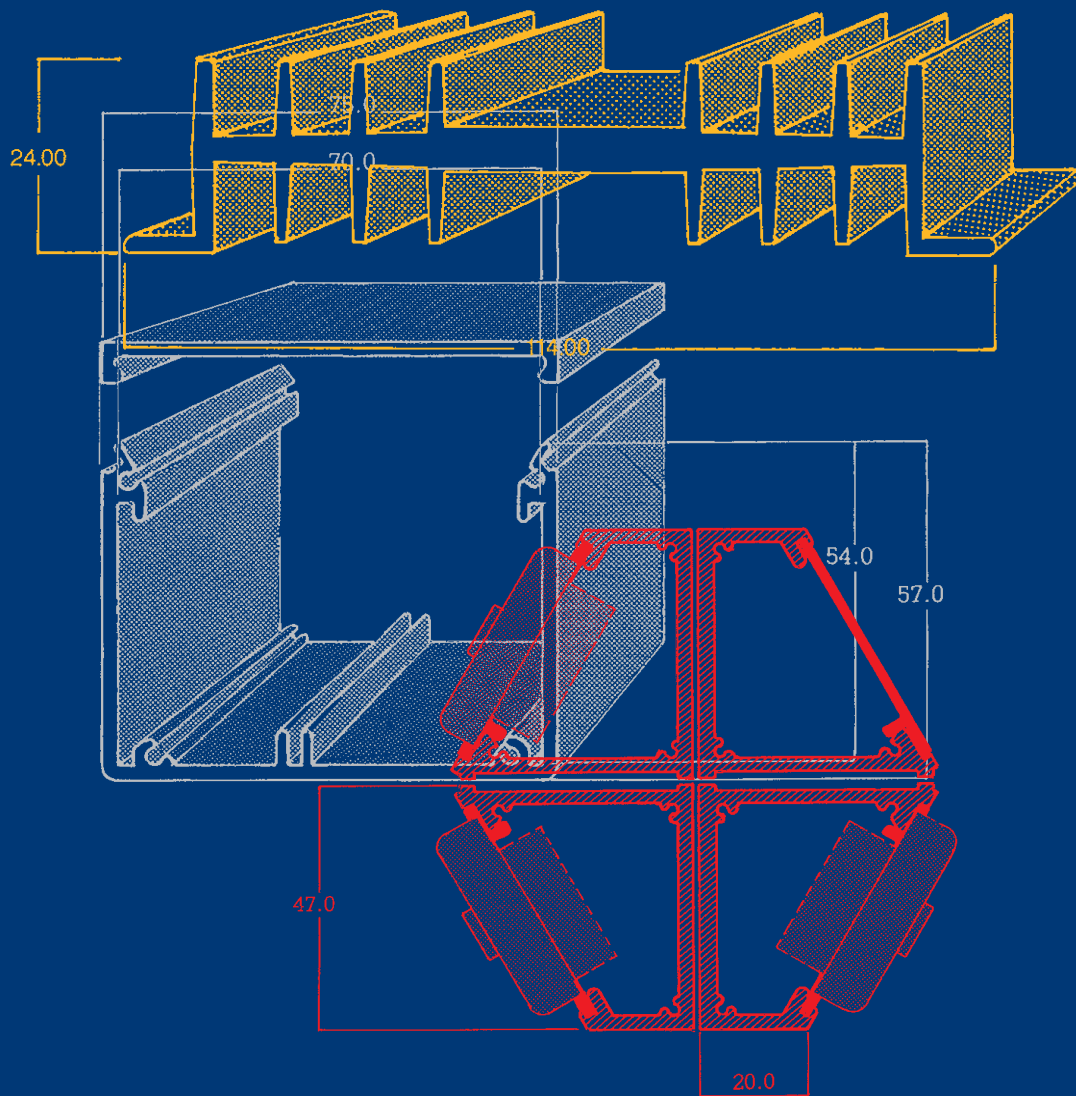


# ULLRICH - EXTRUDED ALUMINIUM DUCTING





## EXTRUDED ALUMINIUM PRODUCTS

KABELDUCT Extruded Aluminium Products are utilised in a variety of ways for many major Industrial, Commercial and Electronic applications; such as for power, lighting and telephone reticulations, “Power-Poles” for servicing open plan office areas where power and telephone outlet connectors are required to be altered to suit varying requirements.

Products being of extruded aluminium do not rust, as does steel, thus ensuring longer life and a cost advantage. Electronic Industries which utilise KABELDUCT Products appreciate the versatility and quality of the extruded sections.

The Extruded Aluminium sections are normally supplied “Mill finish” unless otherwise requested. Protective coating can be made available.

Services provided with KABELDUCT Products include cutting, welding, painting, powder coating and anodising.

Bends, Tees, Flares and a variety of other accessories such as joining fillets and supporting methods are manufactured to suit requirements.

### **Powder Coatings:**

We will process other manufactured Products including those made in our own factory. The powder coating plant is a modern fully automatic unit specialising in top quality coatings applied to B.S. 64194 and controlled by Telarc registered Q-Base quality system.

We reserve the right to change design or delete our Products without prior notice.



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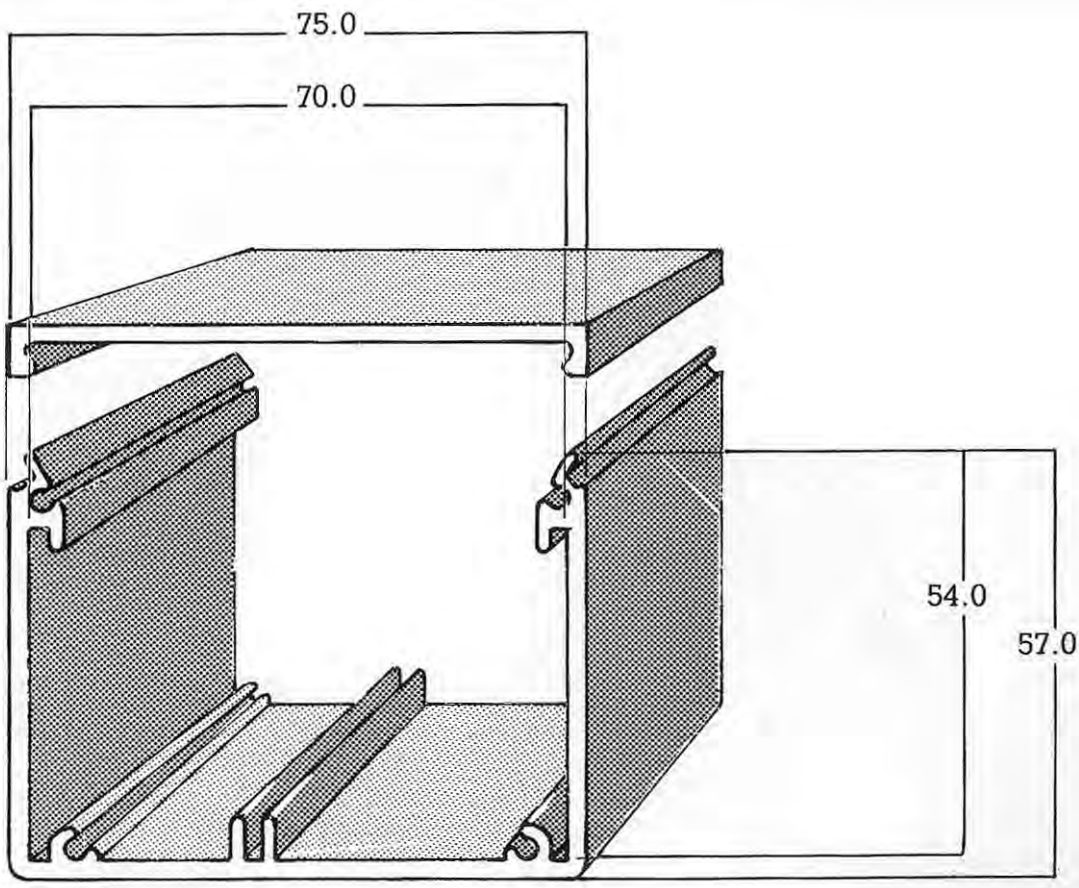
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<b>CORROSION CHART</b>	INSIDE BACK COVER
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# MULTI-PURPOSE DUCTING

## KMP08



This section is used as a multi-purpose ducting for general wiring applications. It has a provision within the channel section for the insertion of a division for the segregation of cabling.

### Lid Section

The Lid Section which is designed to snap fit into place may be fitted by hand. A gasket can be fixed at the ends of each section of lid to exclude moisture and dust in certain installations should this be necessary.

### End Covers

The end covers are ABS plastic injection moulded to fit the extruded sections when assembled. Self-tapping screws securely hold the end cover in place.

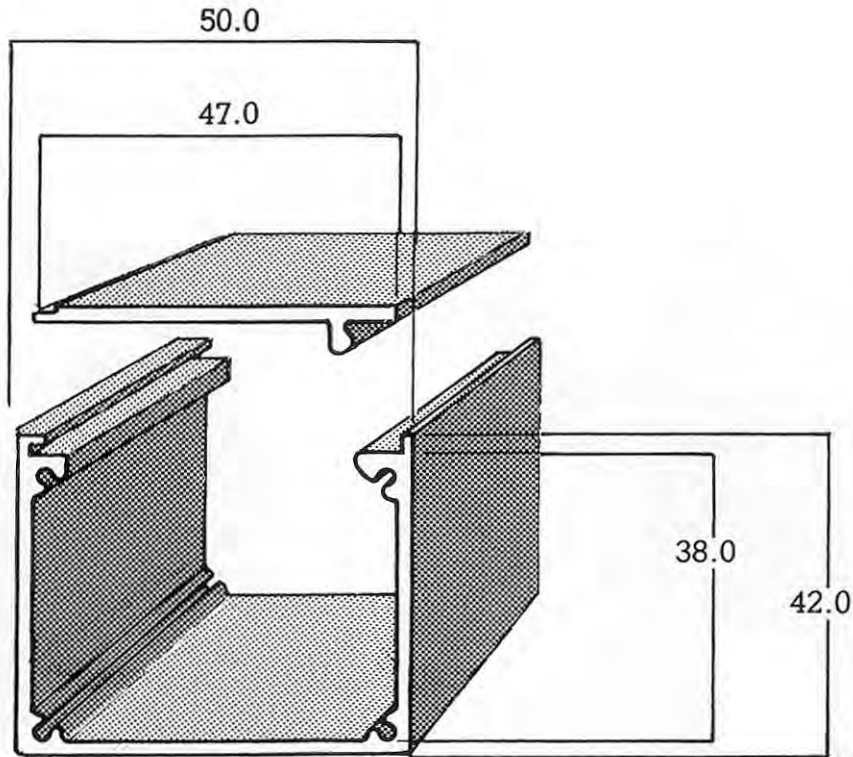
## KMP08

Actual Size (mm)

### Ducting References:

Ducting Channel Section	<b>KMP08/4756</b>
Ducting Lid Section	<b>KMP08/5301</b>
Ducting Jointing Fillet	<b>KMP08/17</b>
Ducting End Cover (plastic)	<b>KMP08/22P</b>

Ducting length available from stock	6 metres
Lid length available from stock	3 metres



This section can be used for both lighting ducting and skirting ducting (KSD09). It is a single channel section which will accept, mounted on the lid section, small type switch-plug sockets such as “Ring Grip” manufacture. The channel can be “mated” together to form a twin channel unit. As a lighting ducting, special support clips can be used for the mounting of lighting fittings.

**Joining Methods**

Joining methods for the ducting channel may be either by jointing fillets or joint pins which fit into the extruded section.

**Lid Section**

The lid section which is a snap-fit feature, clips firmly into the channel section and has a surface coating of a black textured finish.

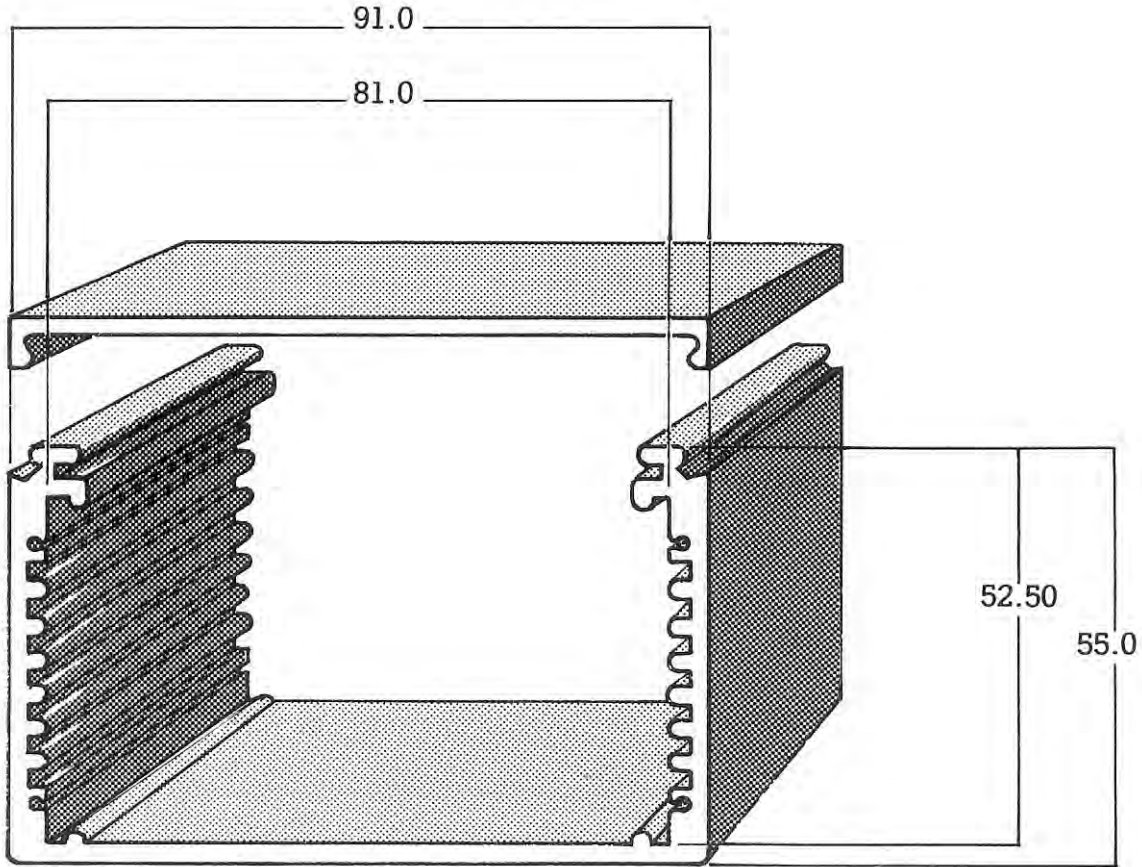
**Plug Socket Mounting Plates**

Plug socket mounting plates are made to suit installation requirements. This also applies to various Bends, Tees and other accessories.

**End Covers**

The end covers are ABS plastic injection moulded to fit the extruded sections when assembled. Self-tapping screws securely hold the end cover in place.

KMP09		Actual Size (mm)
<b>Ducting References:</b>		
Ducting Channel Section	<b>KMP09/1595</b>	
Ducting Lid Section	<b>KMP09/1854</b>	
Ducting Jointing Fillet	<b>KMP09/17</b>	
Length of Channel Section	5 metres	
Length of Lid Section	3 metres	



This section is suitable not only for general purpose wiring but when cut into required short lengths for the manufacture of instrument cases and finished attractively, makes excellent end products.

Grooves extruded into the inside of the extruded section provide for printed circuit boards (electronics) to be mounted at varying positions. Mounting plates may also be inserted for the supporting of componentry.

**Lid Section**

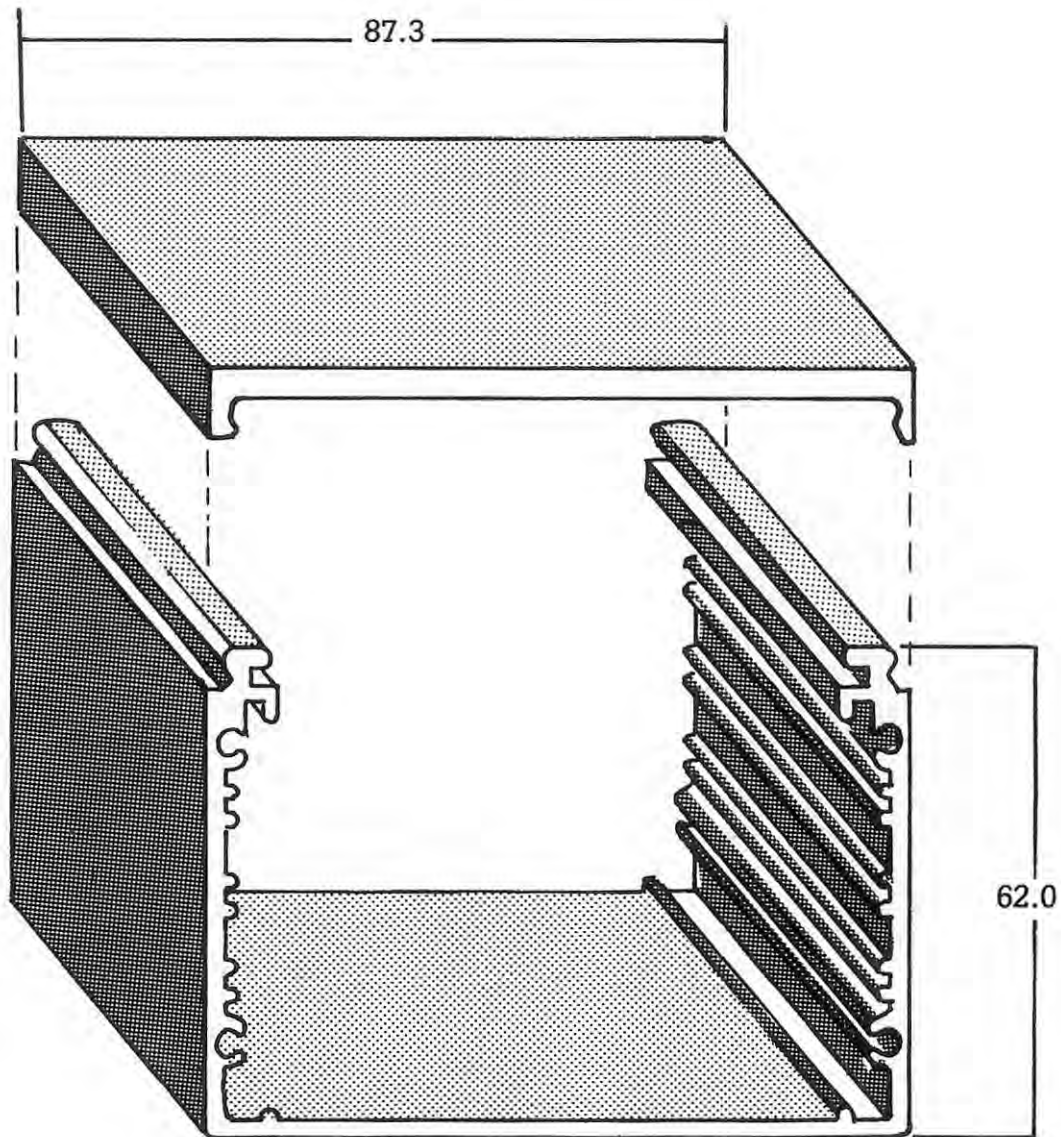
The Lid Section is a snap-fit feature which clips on externally to the channel section.

**End Covers**

The end covers are ABS plastic injection moulded to fit the extruded sections when assembled. Self-tapping screws securely hold the end cover in place.

Details of Bends, Tees, Flares and other accessories are as detailed in the respective sections of this catalogue.

<b>KMPI 3</b>		Actual Size (mm)
<b>Ducting References:</b>		
Ducting Channel Section	<b>KMPI3/1594</b>	
Ducting Lid Section	<b>KMPI3/5929</b>	
Ducting Jointing Fillet	<b>KMPI3/17</b>	
Ducting End Cover	<b>KMPI3/22P</b>	
Length of Ducting Section	5 metres	
Length of Lid Section	3 metres	



This section is suitable not only for general purpose wiring but when cut into required short lengths for the manufacture of instrument cases and finished attractively, makes excellent end products.

Grooves extruded into the inside of the extruded section provide for printed circuit boards (electronics) to be mounted at varying positions. Mounting plates may also be inserted for the supporting of componentry.

**Lid Section**

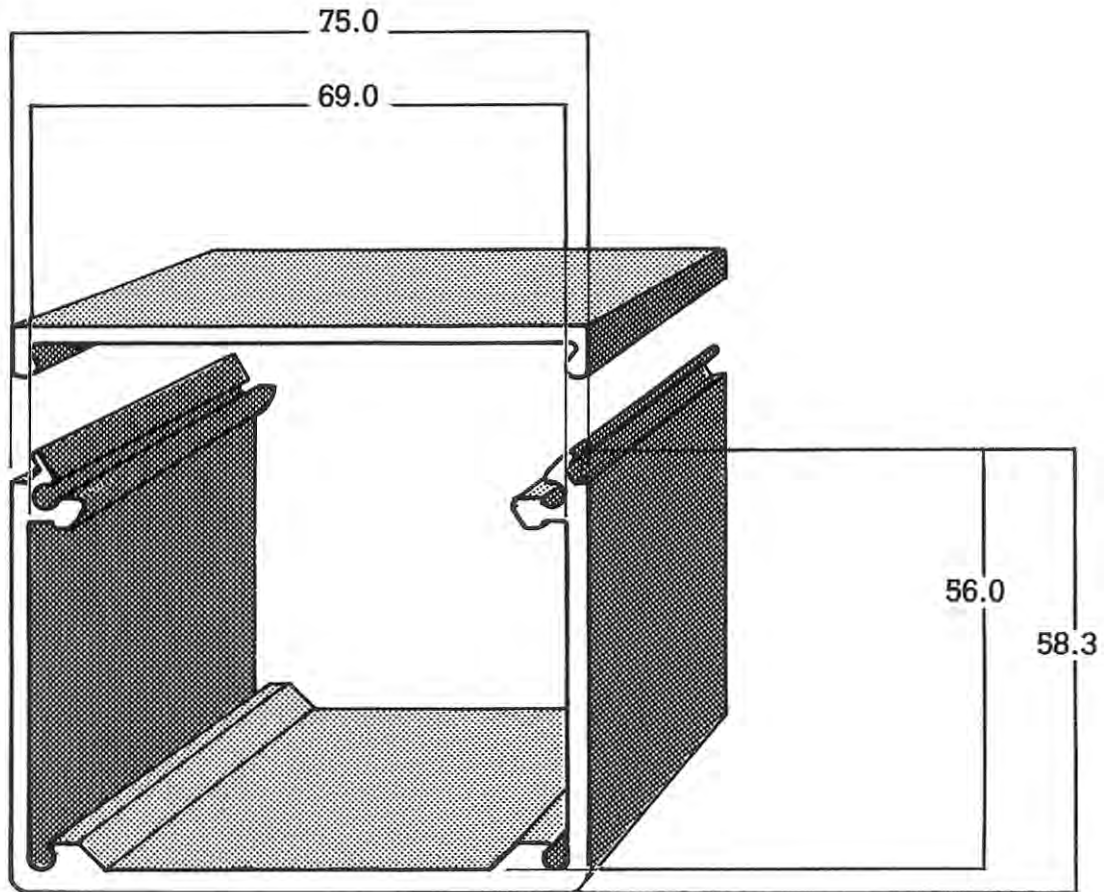
The Lid section is a snap-fit feature which clips on externally to the channel section.

**End Covers**

The end covers are ABS plastic injection moulded to fit the extruded sections when assembled. Self-tapping screws securely hold the end cover in place.

Details of Bends, Tees, Flares and other accessories are as detailed in the respective sections of this catalogue.

<b>KMPI4</b>		Actual Size (mm)
<b>Ducting References:</b>		
Ducting Channel Section	<b>KMPI4/4383</b>	
Ducting Lid Section	<b>KMPI4/5929</b>	
Ducting Jointing Fillet	<b>KMPI4/17</b>	
Ducting End Cover (plastic)	<b>KMPI4/22P</b>	
Ducting length available from stock	5 metres	
Lid length available from stock	3 metres	



KMPI9 extruded aluminium section is similar to ducting section KMP08 except that it is higher and does not have provision for inserting a division for segregation of cables. The end cover mounting holes are at different centres to those of KMP08.

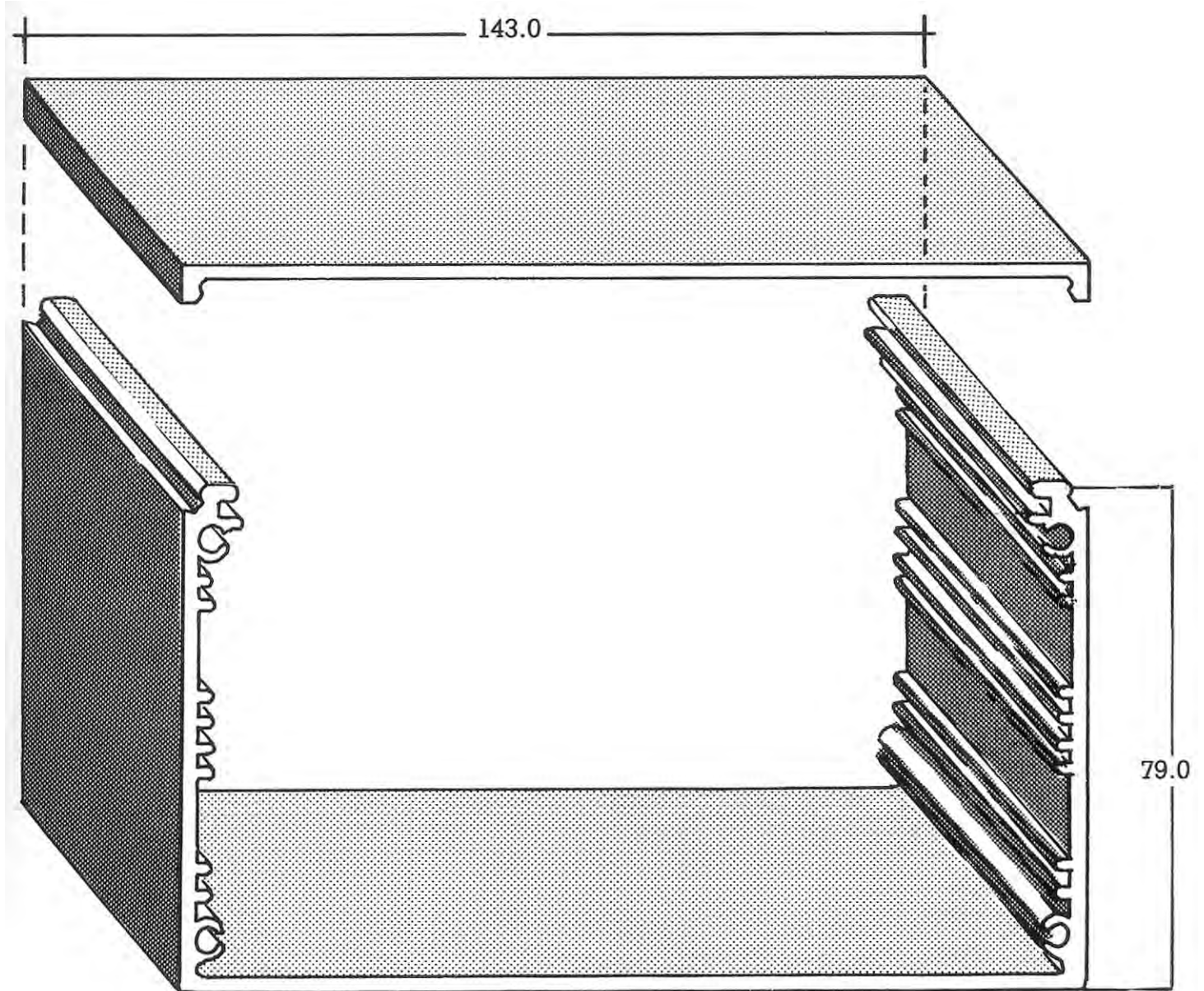
Details of Bends, Tees, Flares and other accessories are as detailed in the respective sections of this catalogue.

**End Covers**

The end covers are ABS plastic injection moulded to fit the extruded sections when assembled. Self-tapping screws securely hold the end cover in place.

<b>KMPI9</b>		Actual Size (mm)
<b>Ducting References:</b>		
Ducting Channel Section		<b>KMPI9/1598</b>
Ducting Lid Section		<b>KMPI9/5301</b>
Ducting Jointing Fillet		<b>KMPI9/17</b>
Ducting End Cover (plastic)		<b>KMPI9/22P</b>
Ducting length available from stock	5 metres	
Lid length available from stock	3 metres	





This section is suitable not only for general purpose wiring but when cut into required short lengths for the manufacture of instrument cases and finished attractively, makes excellent end products.

Grooves extruded into the inside of the extruded section provide for printed circuit boards (electronics) to be mounted at varying positions. Mounting plates may also be inserted for the supporting of componentry.

**Lid Section**

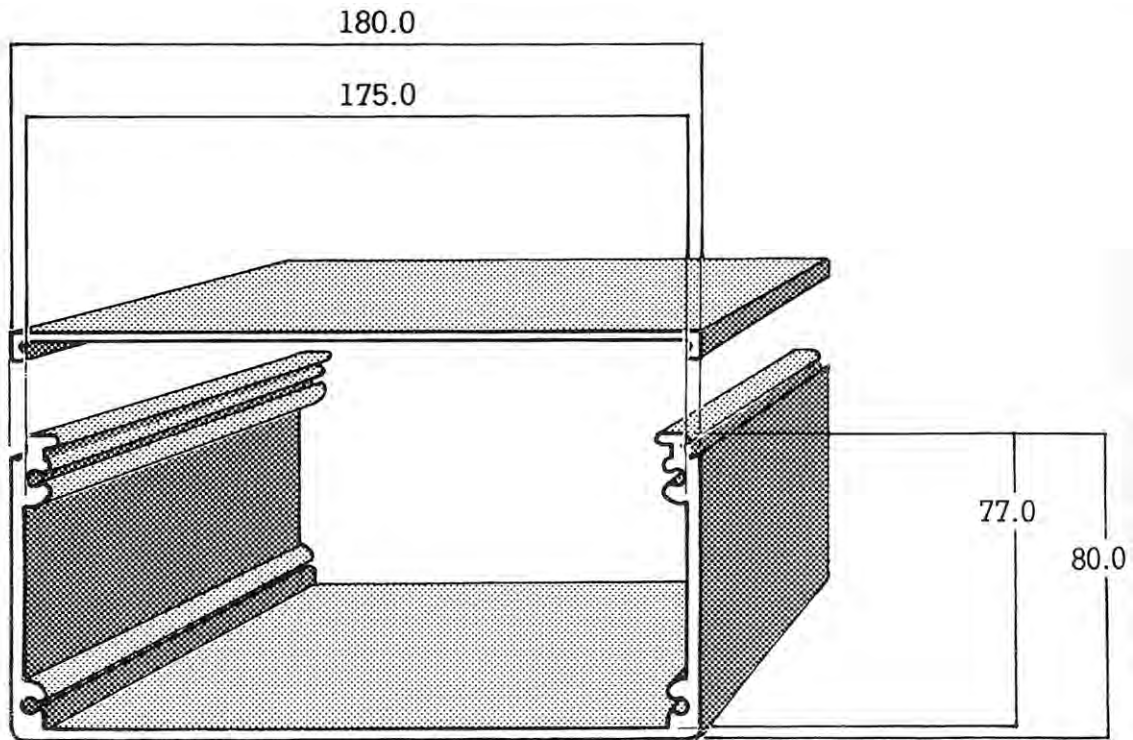
The Lid section is a snap-fit feature which clips on externally to the channel section.

**End Covers**

The end covers are ABS plastic injection moulded to fit the extruded sections when assembled. Self-tapping screws securely hold the end cover in place.

Details of Bends, Tees, Flares and other accessories are as detailed in the respective sections of this catalogue.

<b>KMP20</b>		Scale: 1 : 1.25
<b>Ducting References:</b>		
Ducting Channel Section	<b>KMP20/3720</b>	
Ducting Lid Section	<b>KMP20/5930</b>	
Ducting Jointing Fillet	<b>KMP20/17</b>	
Ducting End Cover (plastic)	<b>KMP20/22P</b>	
Length of Ducting Section	5 metres	
Length of Lid Section	3 metres	
Mill finish (unless otherwise requested)		

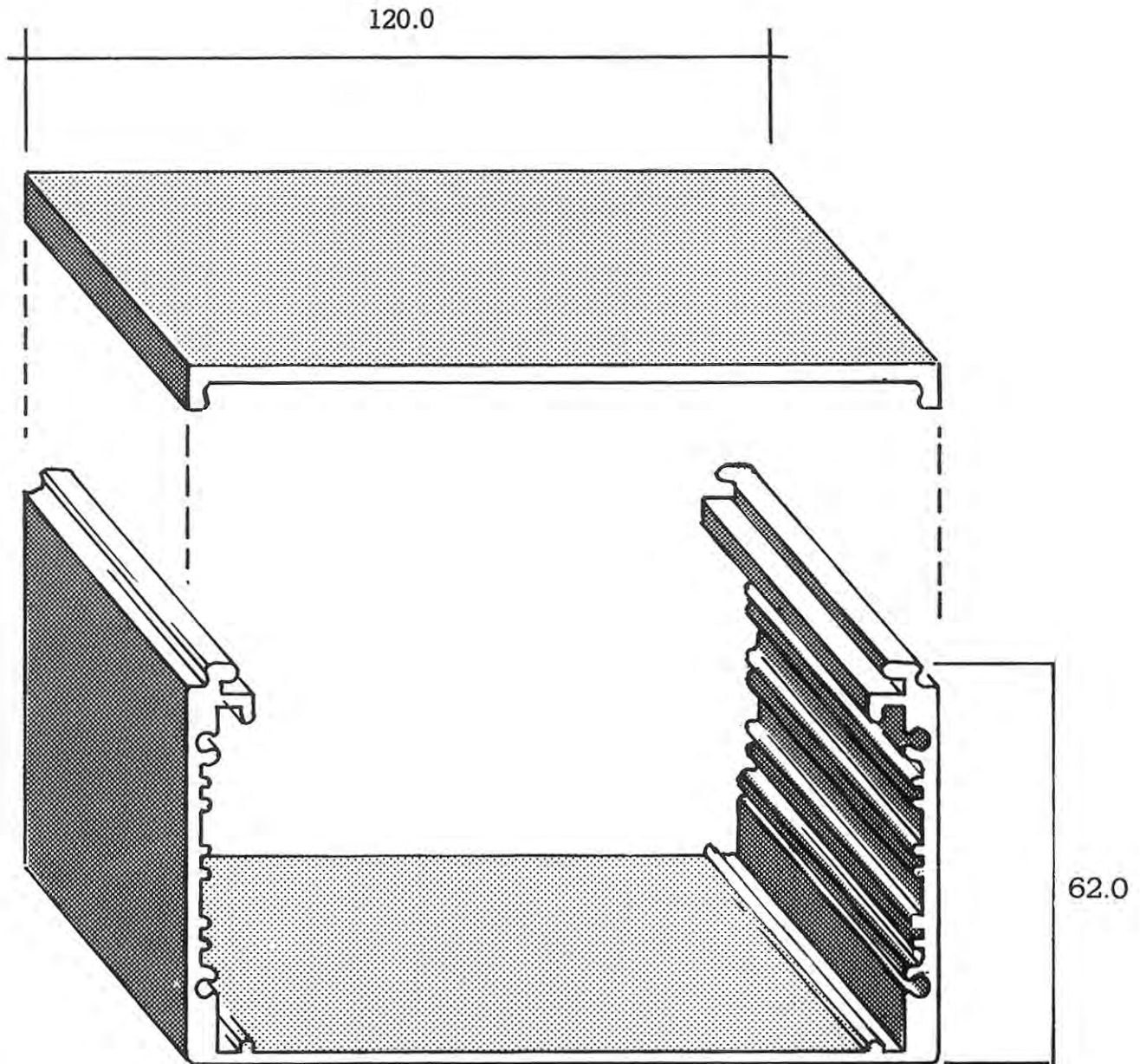


This section is most suitable when a number of cables are required to be placed in a ducting system. The wide section allows for cables to be easily laid and still be accessible at a later date.

**End Covers**

The end covers are made from sheet aluminium and are fixed to the extrusion by means of self-tapping screws.

<b>KMP25</b>		Scale: 1 : 2
<b>Ducting References:</b>		
Ducting Channel Section	<b>KMP25/6012</b>	
Ducting Lid Section	<b>KMP25/6013</b>	
Ducting Jointing Fillet	<b>KMP25/17</b>	
Ducting End Cover	<b>KMP25/22A</b>	
Length of Channel Section	5 metres	
Length of Lid Section	3 metres	

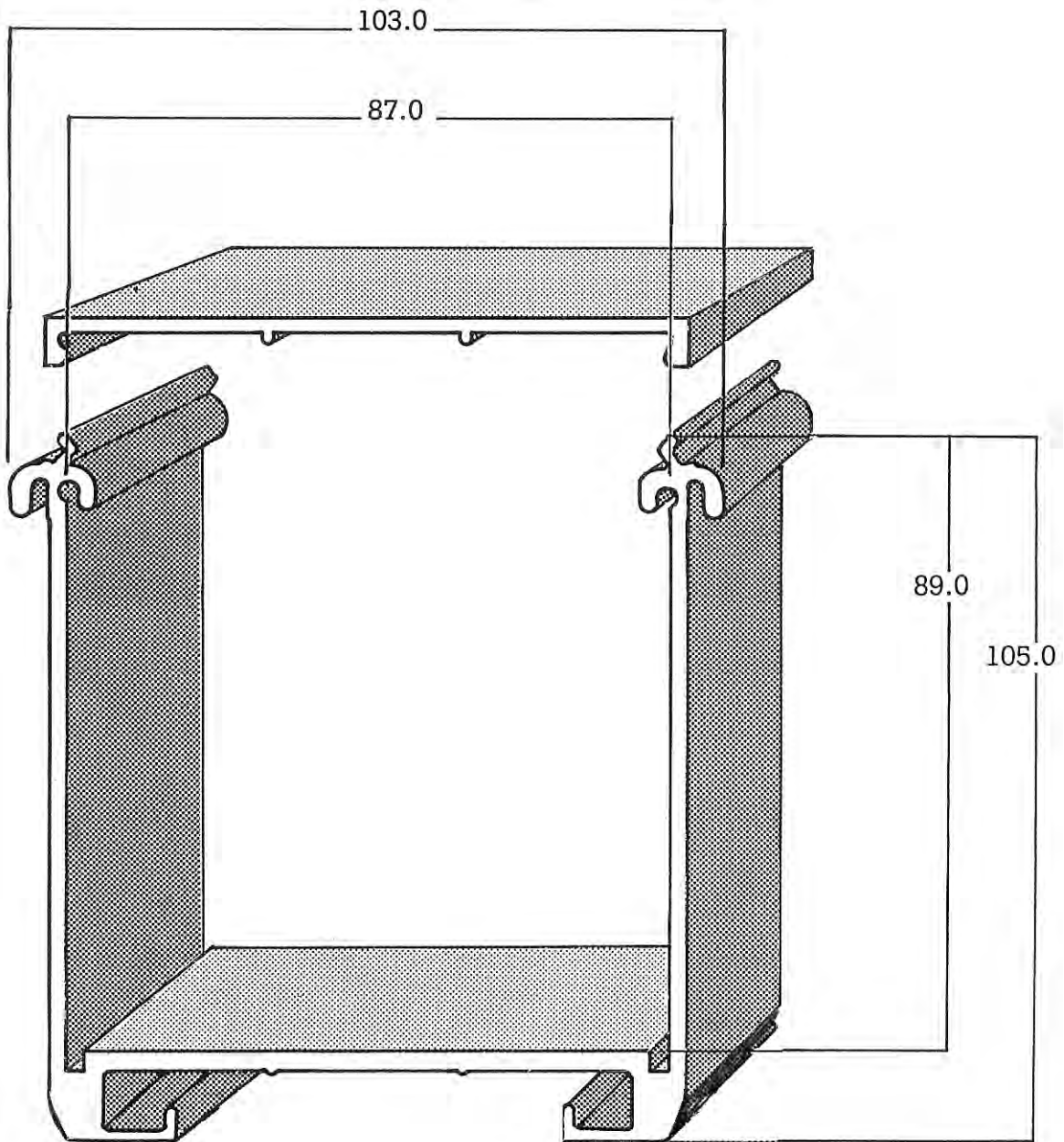


KMP26 is very similar to KMP20. As well as electrical ducting this section is suitable for electronic cases and other similar applications.

**End Covers**

End covers are made from sheet aluminium and are fixed to the extrusion by means of self-tapping screws.

<b>KMP26</b>		Scale: 1 : 1.25
<b>Ducting References:</b>		
Ducting Channel Section	<b>KMP26/3728</b>	
Ducting Lid Section	<b>KMP26/3729</b>	
Ducting Jointing Fillet	<b>KMP26/17</b>	
Ducting End Cover	<b>KMP26/22A</b>	
Length of Channel Section	5 metres	
Length of Lid Section	3 metres	

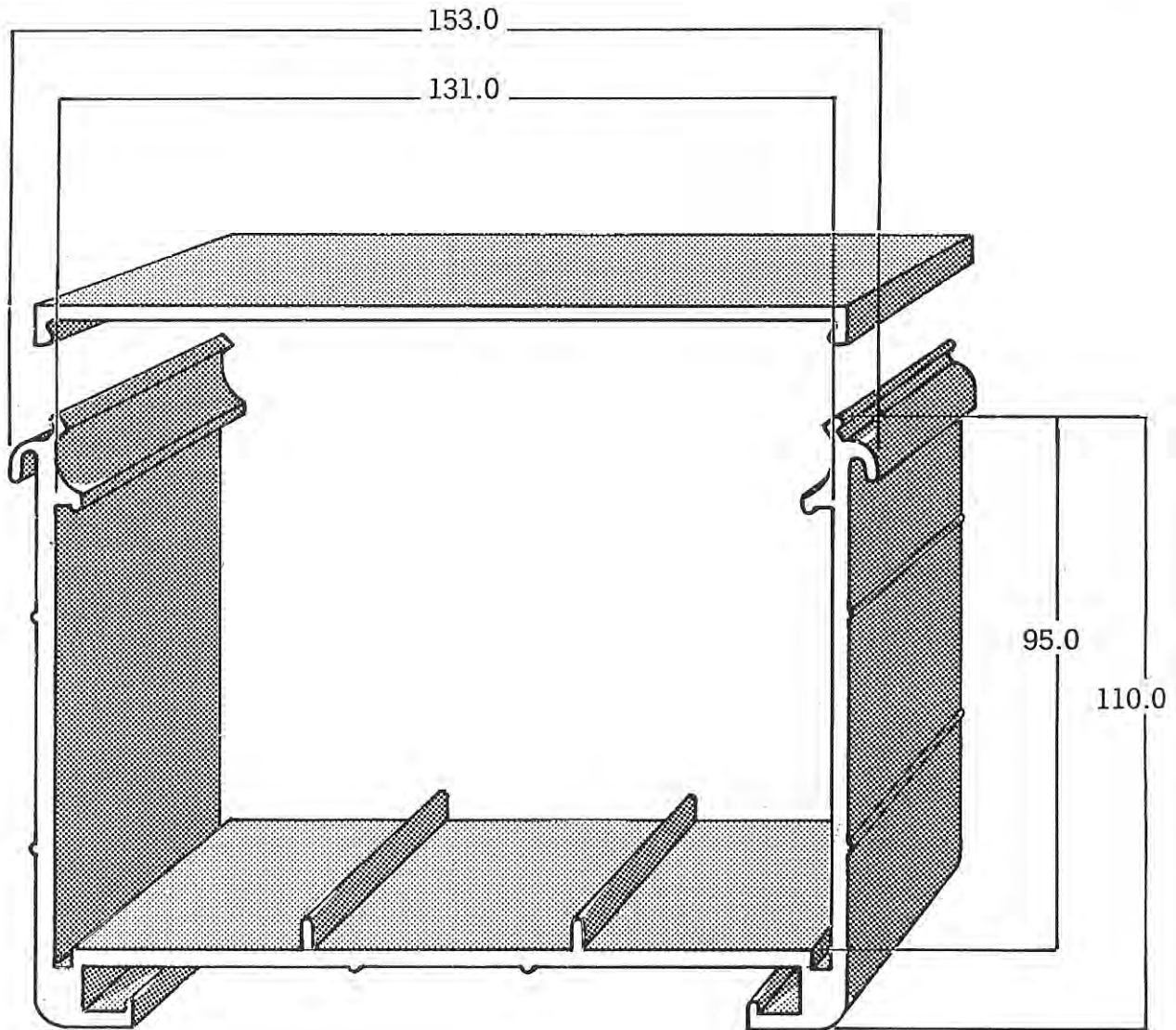


**KPL04**

Actual Size (mm)

**Ducting References:**

Ducting Channel Section	<b>KPL04/5045</b>
Ducting Flat Lid Section	<b>KPL04/5929</b>
Ducting Jointing Fillet	<b>KPL04/17</b>
Horizontal Jointing Fillet 90°	<b>KPL04/19</b>
Vertical Jointing Fillet 90°	<b>KPL04/21</b>
Vertical Jointing Fillet 45°	<b>KPL04/20</b>
Ducting End Cover	<b>KPL04/22</b>



**KPL05**

Scale 1 : 1.25-10

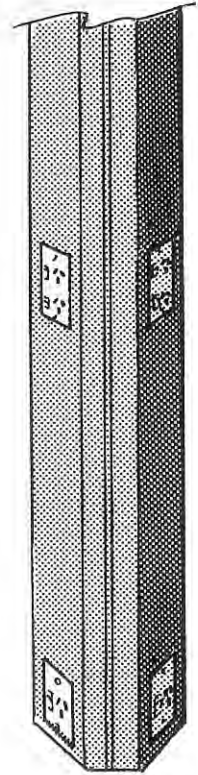
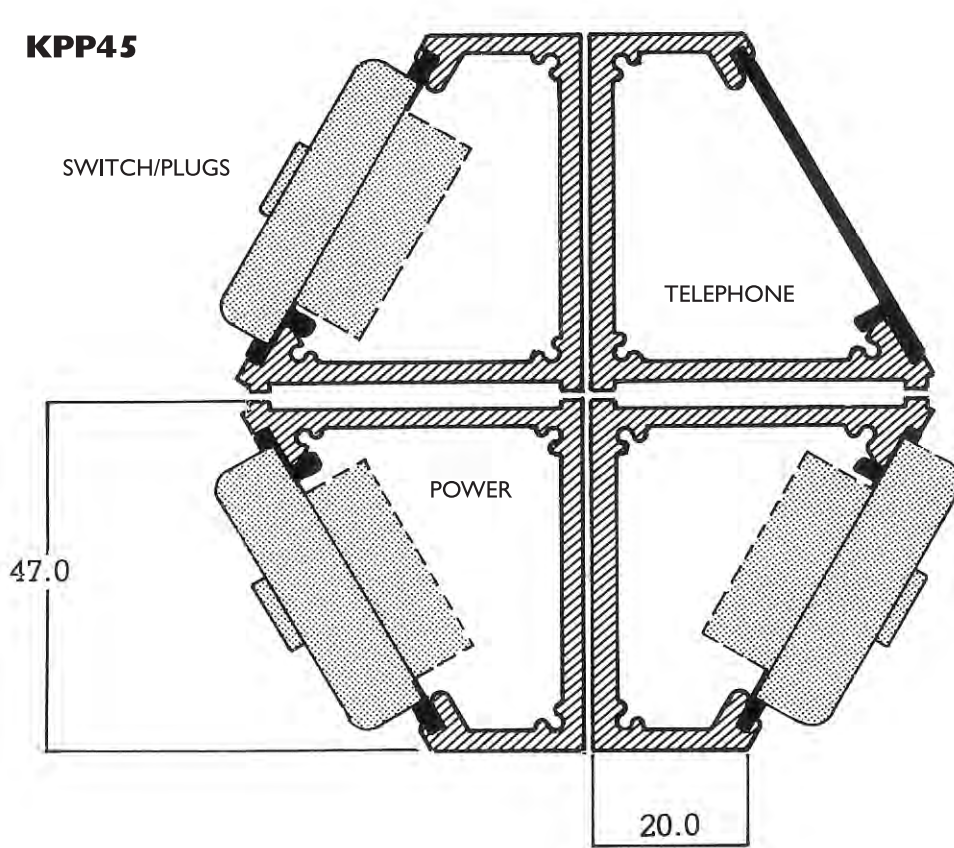
**Ducting References:**

Ducting Channel Section	<b>KPL05/4476</b>
Ducting Flat Lid Section	<b>KPL05/5230</b>
Ducting Equipment Hanger	<b>KPL05/18S</b>
Ducting Jointing Fillet	<b>KPL05/17</b>
Horizontal Jointing Fillet 90°	<b>KPL05/19</b>
Vertical Jointing Fillet 90°	<b>KPL05/21</b>
Vertical Jointing Fillet 45°	<b>KPL05/20</b>
Ducting End Cover	<b>KPL05/22</b>



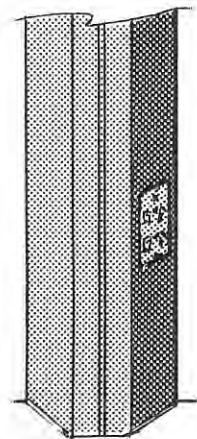
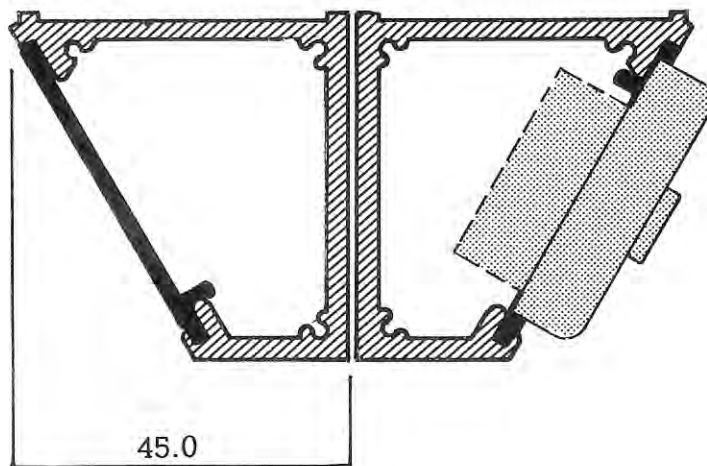
**POWER POLES**

**KPP45**

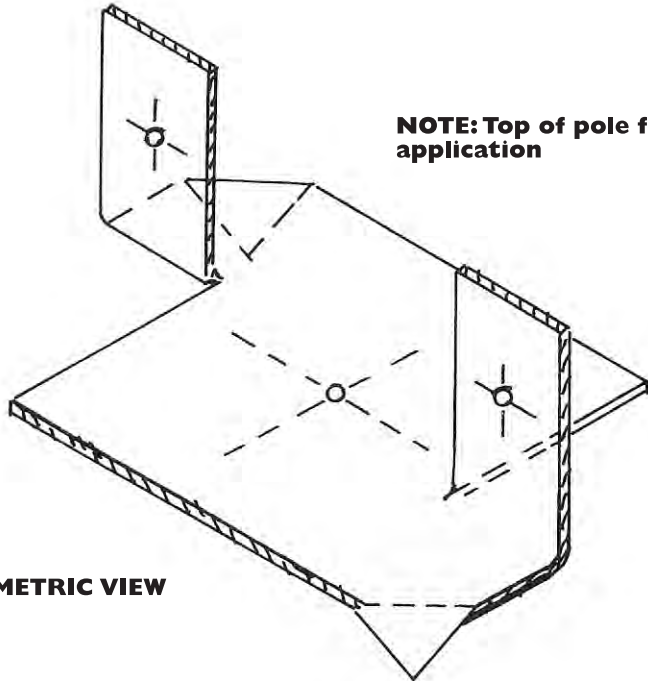


Actual Size (mm)

**KPP46**

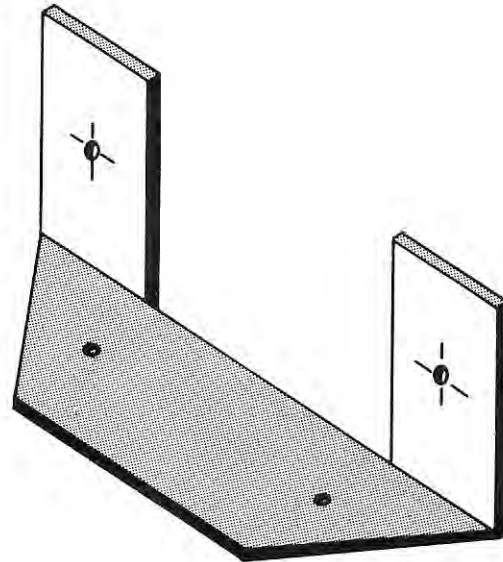


**BASE MOUNTING PLATE FOR POWER POLE**



**NOTE: Top of pole finished to suit application**

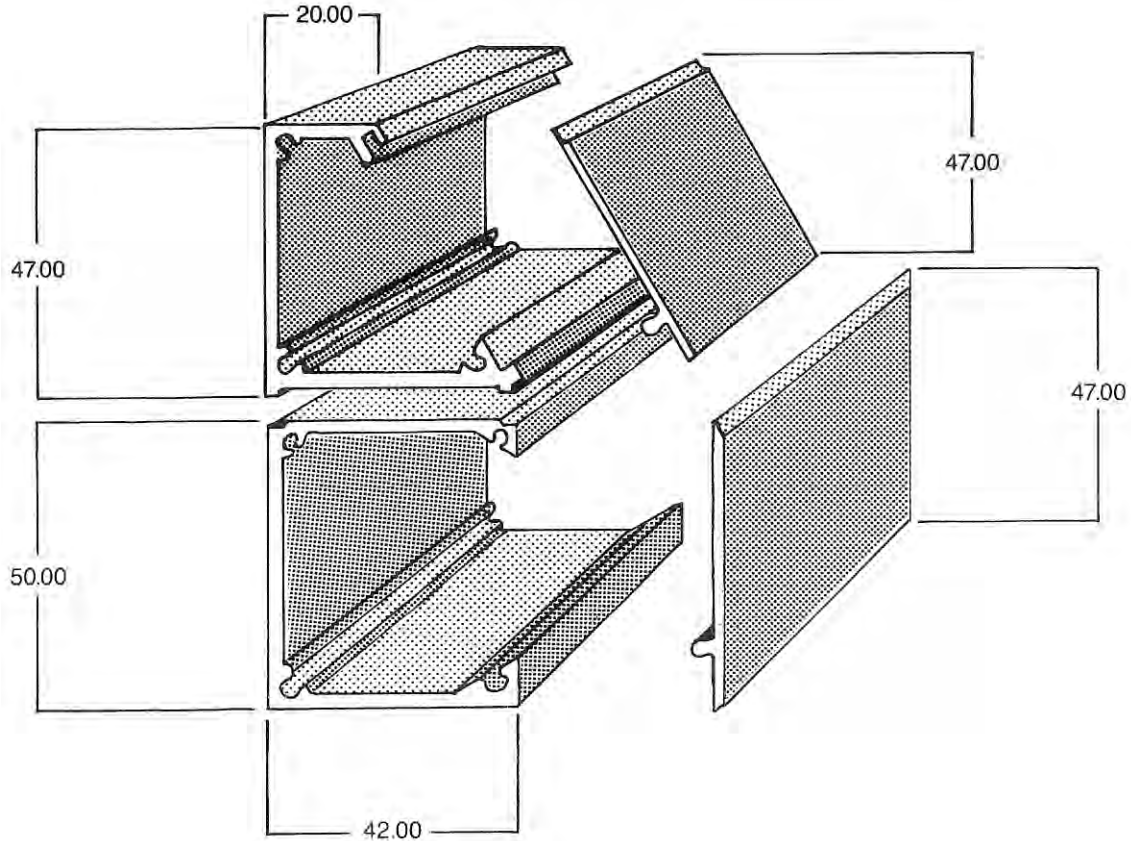
**ISOMETRIC VIEW**



**KPP45**



**TWIN CHANNEL  
POWER & TELECOM**



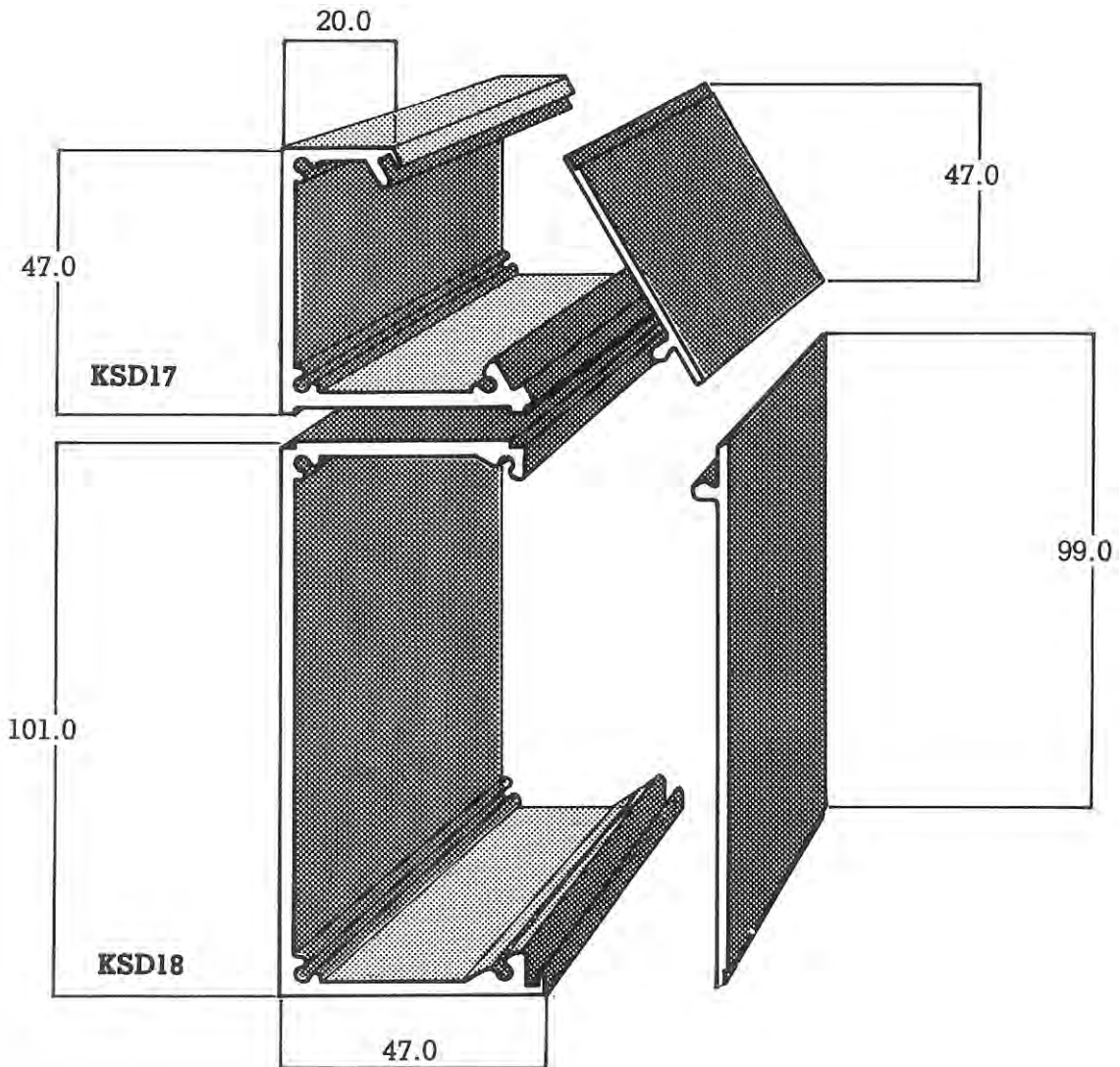
KSDI7 and KMP09 can be mated together to form a twin power and telephone skirting duct most suitable for use in commercial situations.

**Lid Section**

The Lid section has a snap-fit feature, screws not being required to hold it in place. Lid sections can be punched and drilled to customer's requirements for plugs and sockets to be fitted.

<b>KSD I 7 KMP09</b>	
<b>Ducting References:</b>	
Ducting Lid Section	<b>KSDI7/1854</b>
Ducting Lid Section	<b>KMP09/1854</b>
Ducting Channel Section	<b>KSDI7/1925</b>
Ducting Channel Section	<b>KMP09/1595</b>
Ducting Internal Bend	<b>17/69/1B</b>
Ducting External Bend	<b>17/09/EB</b>
Ducting Jointing Fillet	<b>17/09/17</b>
Length of Channel	5 metres
Length of Lid	3 metres





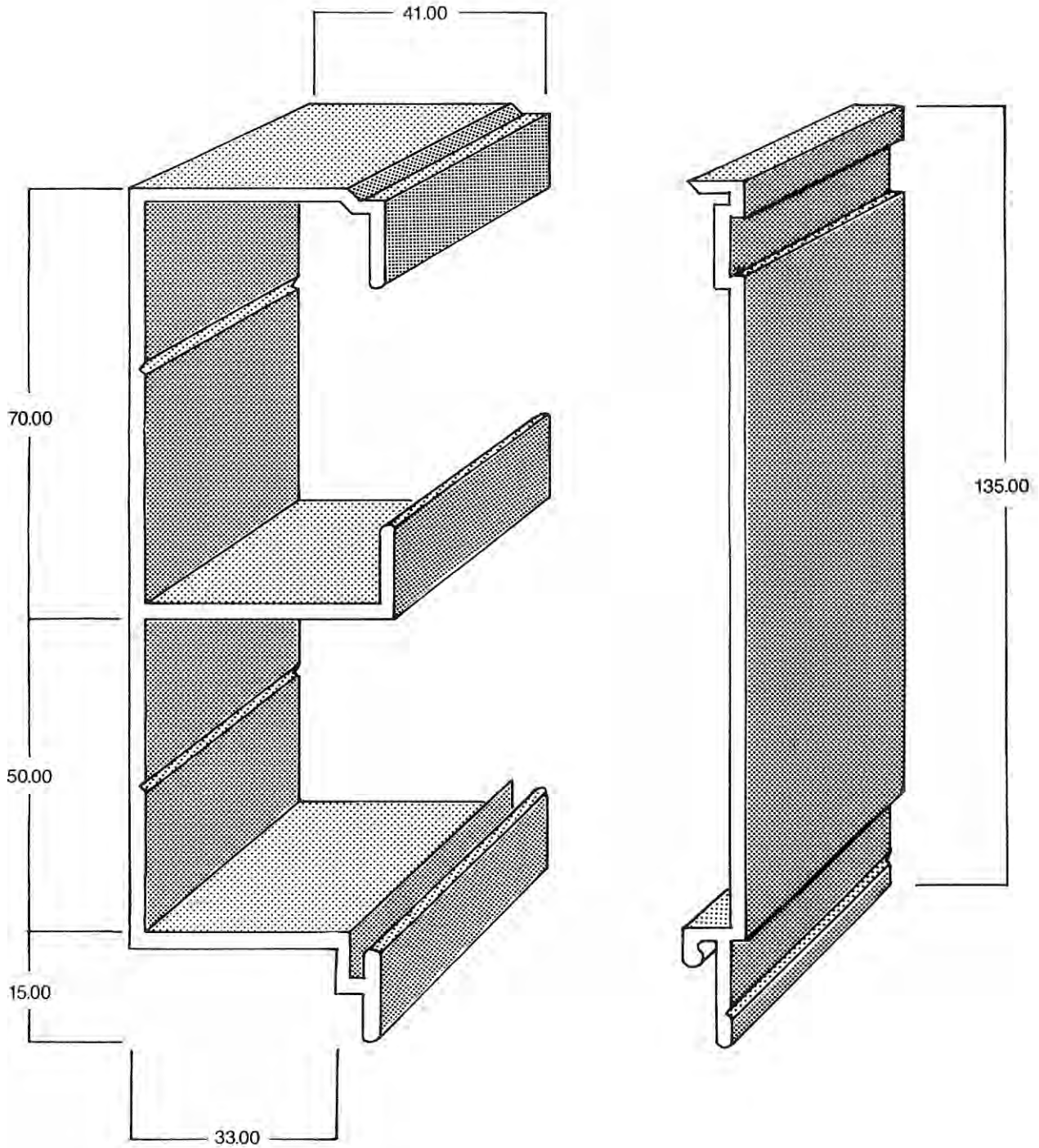
KSD17 and KSD18 can be mated together to form a twin channel power and telephone skirting ducting most suitable for use in commercial buildings.

**Lid Section**

The Lid section has a snap-fit feature, screws not being required to hold it in place. A section of the lid is supplied to which plug sockets are fixed. These are factory produced to suit requirements.

<b>KSD 17 KSD 18</b>	
<b>Ducting References:</b>	
Ducting Lid Section	<b>KSD17/1854</b>
Ducting Lid Section	<b>KSD18/1593</b>
Ducting Channel Section	<b>KSD17/1925</b>
Ducting Channel Section	<b>KSD18/1596</b>
Ducting Jointing Fillet	<b>KSD18/17</b>
Ducting Jointing Pins	<b>KSD18/17P</b>
Ducting Internal Bends	<b>KSD18/1B</b>
Ducting External Bends	<b>KSD18/EB</b>
Length of Channel	5 metres
Length of Lid	3 metres

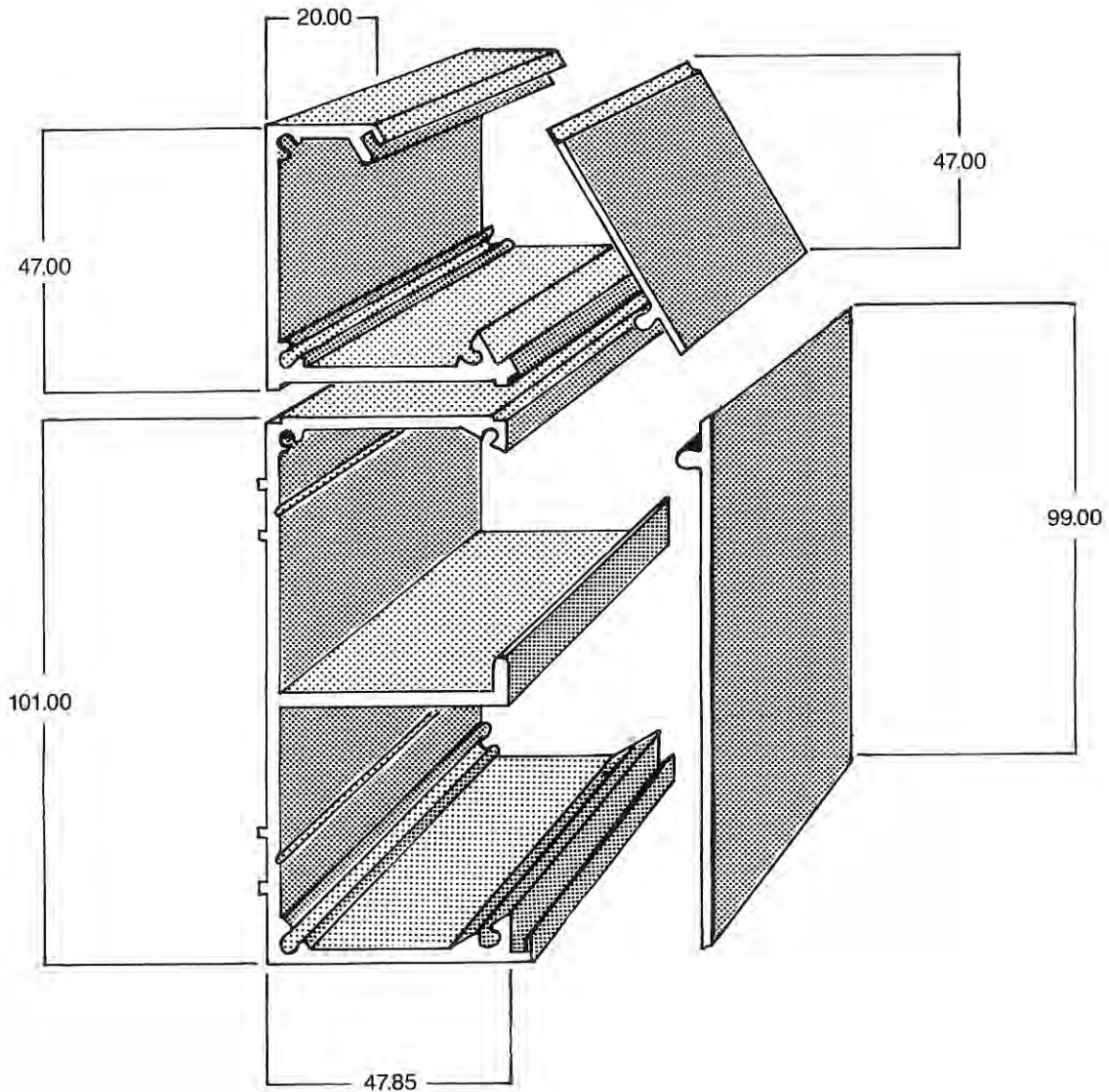
**2 CAVITY**



UA2C section is designed for use as a dual service duct. The lid is attached with screws and a plastic infill covers the screw heads if required.

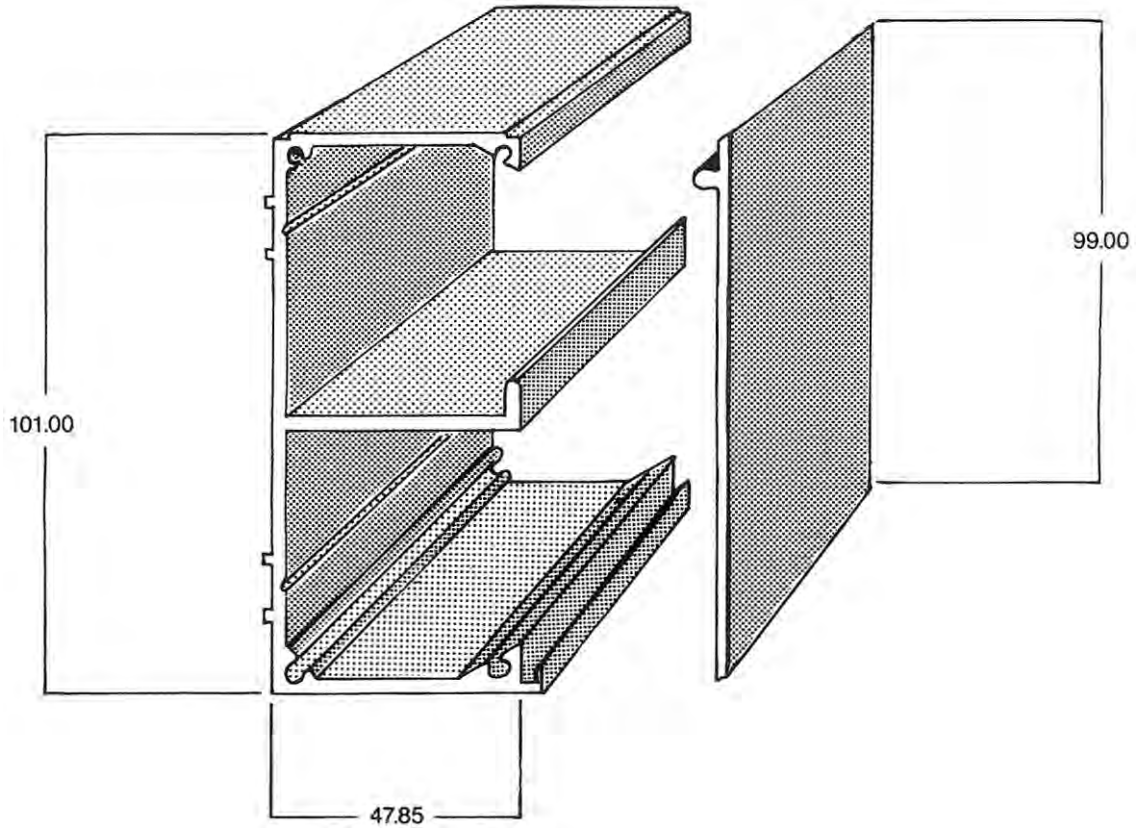
<b>UA2C</b>		Actual Size (mm)
<b>Ducting References:</b>		
Ducting Channel Section	<b>UA1038</b>	
Ducting Lid Section	<b>UA1037</b>	
Length of Channel	5 metres	
Length of Lid	3 metres	

**THREE CHANNEL POWER, TELEPHONE AND COMPUTER**



KSD17-18/2 is a three channel duct with snap-fit lids to enable the lid section to be fitted without screw fixing.

<b>KSD17-18/2</b>	
<b>Ducting References:</b>	
Ducting Lid Section	<b>KSD17/1854</b>
Ducting Lid Section	<b>KSD18/1593</b>
Ducting Channel Section	<b>KSD17/1925</b>
Ducting Channel Section	<b>KSD18/1597</b>
Ducting Jointing Fillet	<b>KSD18/17</b>
Ducting Jointing Pins	<b>KSD18/17P</b>
Ducting Internal Bends	<b>KSD18/1B</b>
Ducting External Bends	<b>KSD18/EB</b>
Length of Channel	5 metres
Length of Lid	3 metres



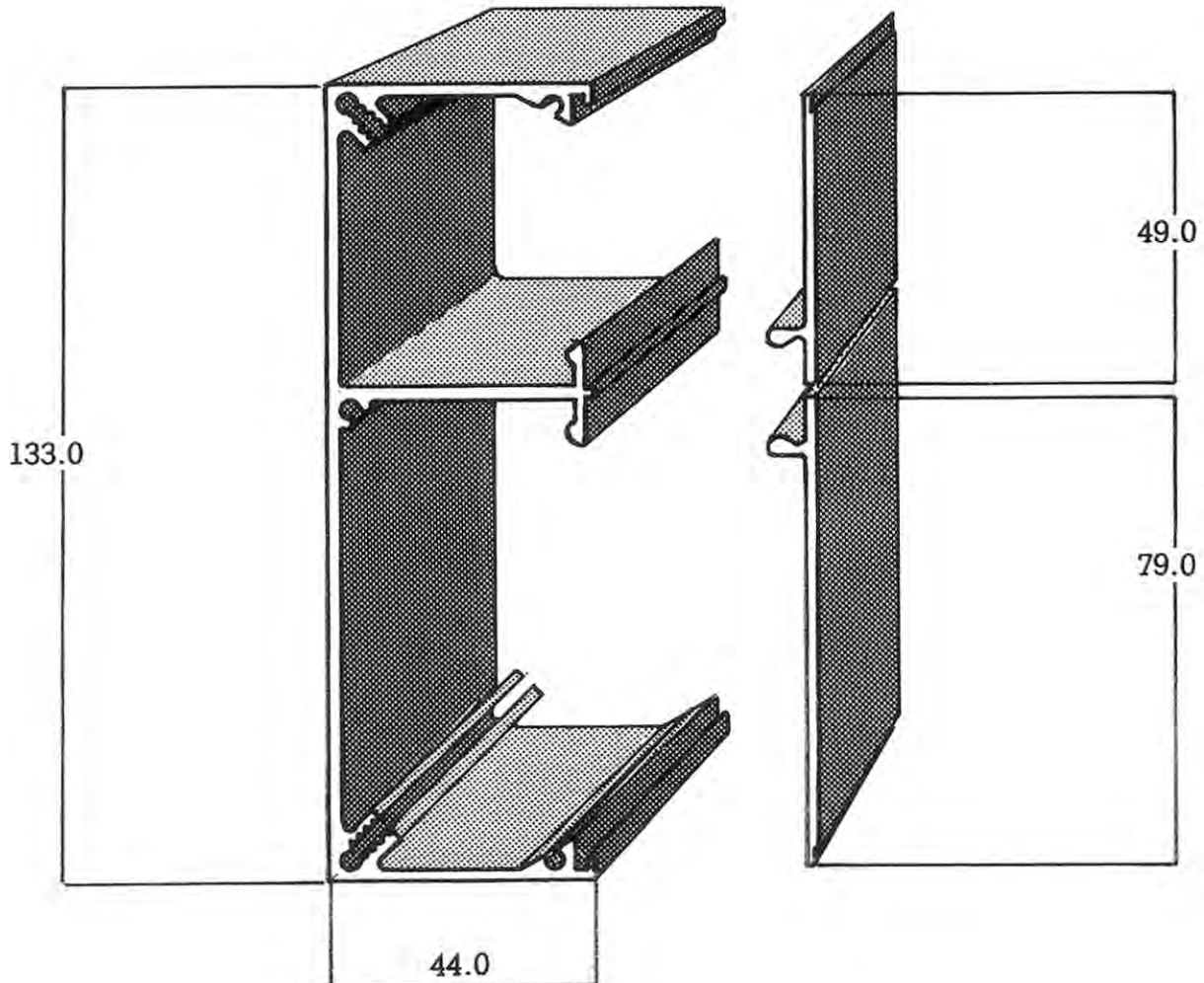
KSDI8/2 is a two channel duct with snap-fit lid to enable the lid section to be fitted without screw fixing.

**KSDI8/2**

**Ducting References:**

Ducting Channel Section	<b>KSDI8/2/I597</b>
Ducting Lid Section	<b>KSDI8/2/I593</b>
Length of Channel	5 metres
Length of Lid	3 metres

**TWIN CHANNEL POWER AND TELEPHONE**



Extruded Aluminium Section is designed for use as a Power and Lighting ducting with a snap-fit lid feature to enable the lid section to be fitted without screw fixing, saving labour costs.

The Channel Section may be mounted with either channel in the upper-most position to suit application.

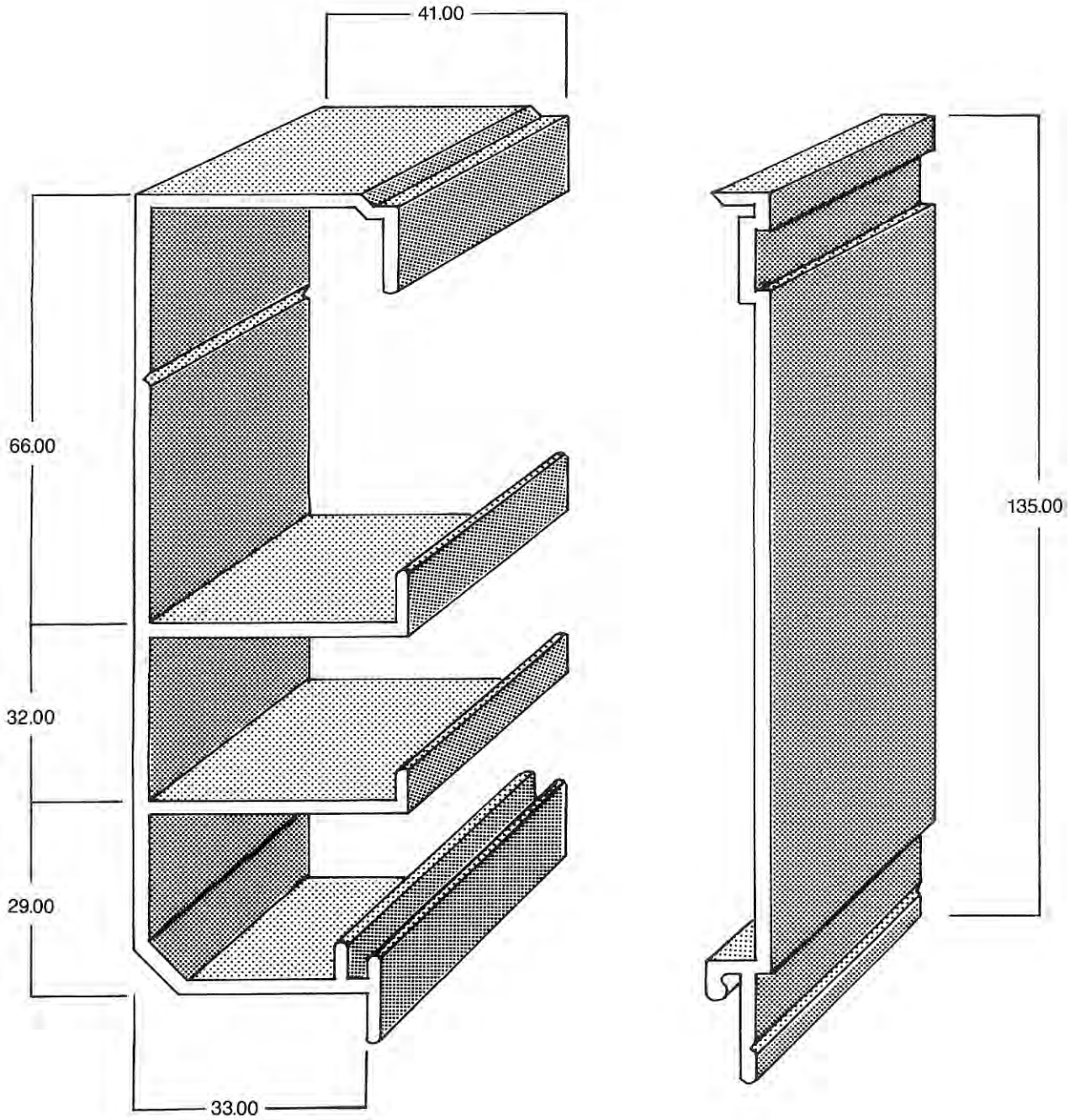
**KSD27**

Scale 1 : 1.25

**Ducting References:**

Ducting Lid Section	<b>KSD27/1600</b>
Ducting Lid Section	<b>KSD27/1854 (sm)</b>
Ducting Channel Section	<b>KSD27/1867 (lge)</b>
Ducting Jointing Fillets	<b>KSD27/17</b>
Ducting Jointing Pins	<b>KSD27/17P</b>
Ducting Internal Bends	<b>KSD27/1B</b>
Ducting External Bends	<b>KSD27/EB</b>

**3 CAVITY**



UA3C section is designed for use in commercial situations. The lid is attached with screws and a plastic infill covers the screw heads if required.

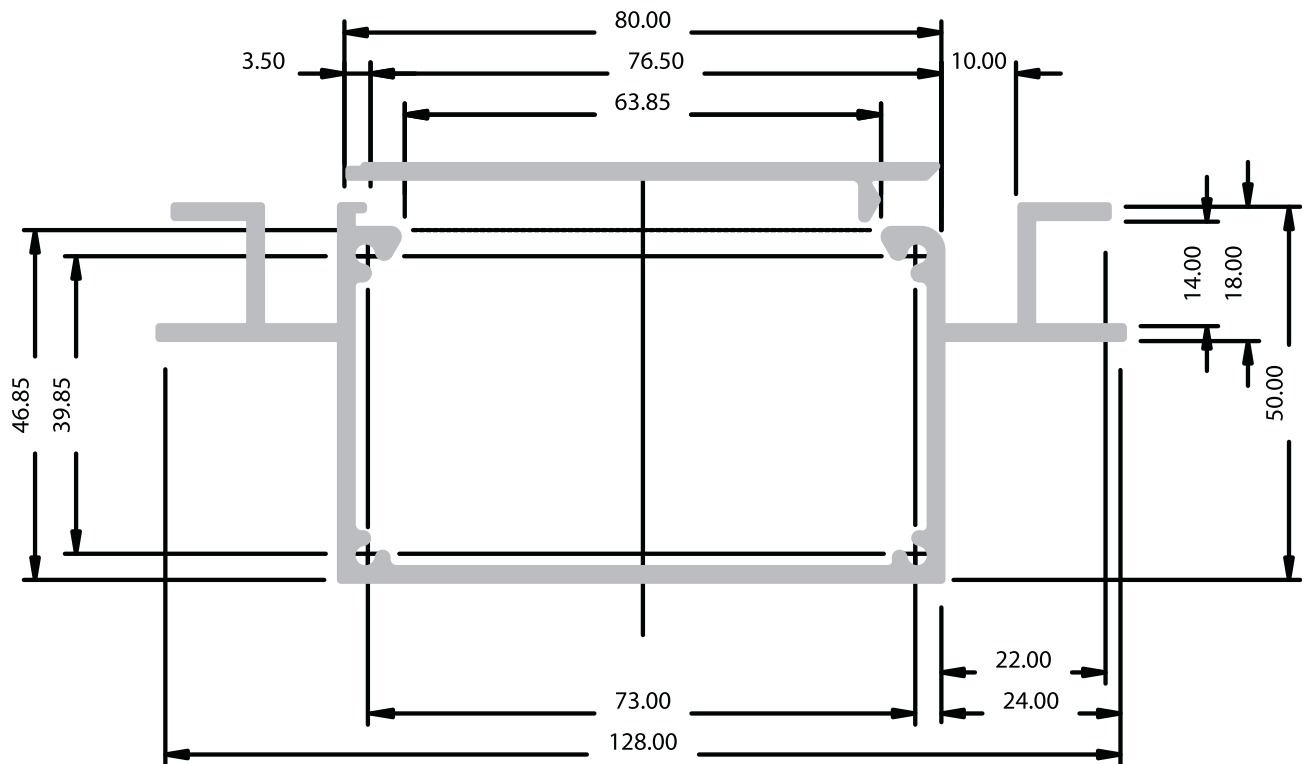
**UA3C**

**Ducting References:**

Ducting Channel Section	<b>UA1039</b>
Ducting Lid Section	<b>UA1037</b>
Length of Channel	5 metres
Length of Lid	3 metres



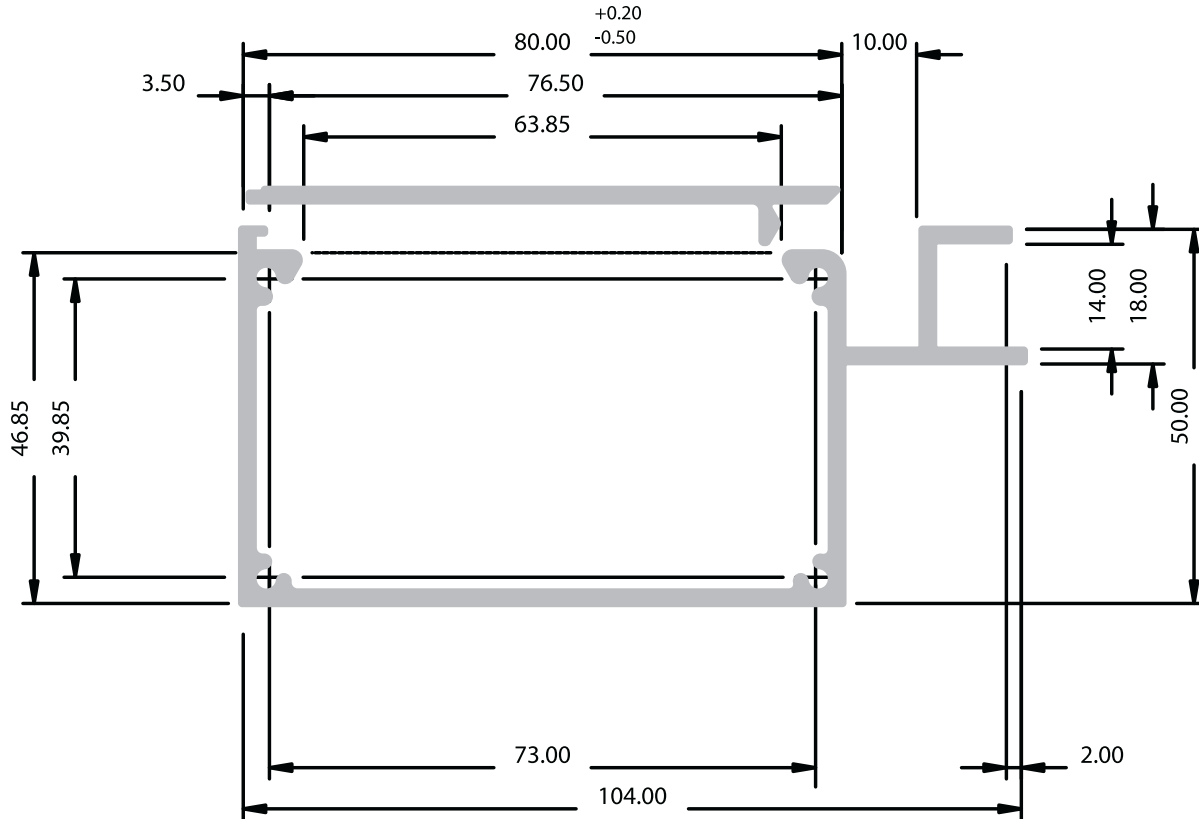
**80MM DUCT WITH DOUBLE GIB CHANNEL**



<b>UA5342 UA5346</b>	
<b>Ducting References:</b>	
Ducting Channel Section	<b>UA5342</b>
Ducting Lid Section	<b>UA5346</b>
Length of Channel	5 metres
Length of Lid	3 metres



**80MM DUCT WITH GIB CHANNEL**



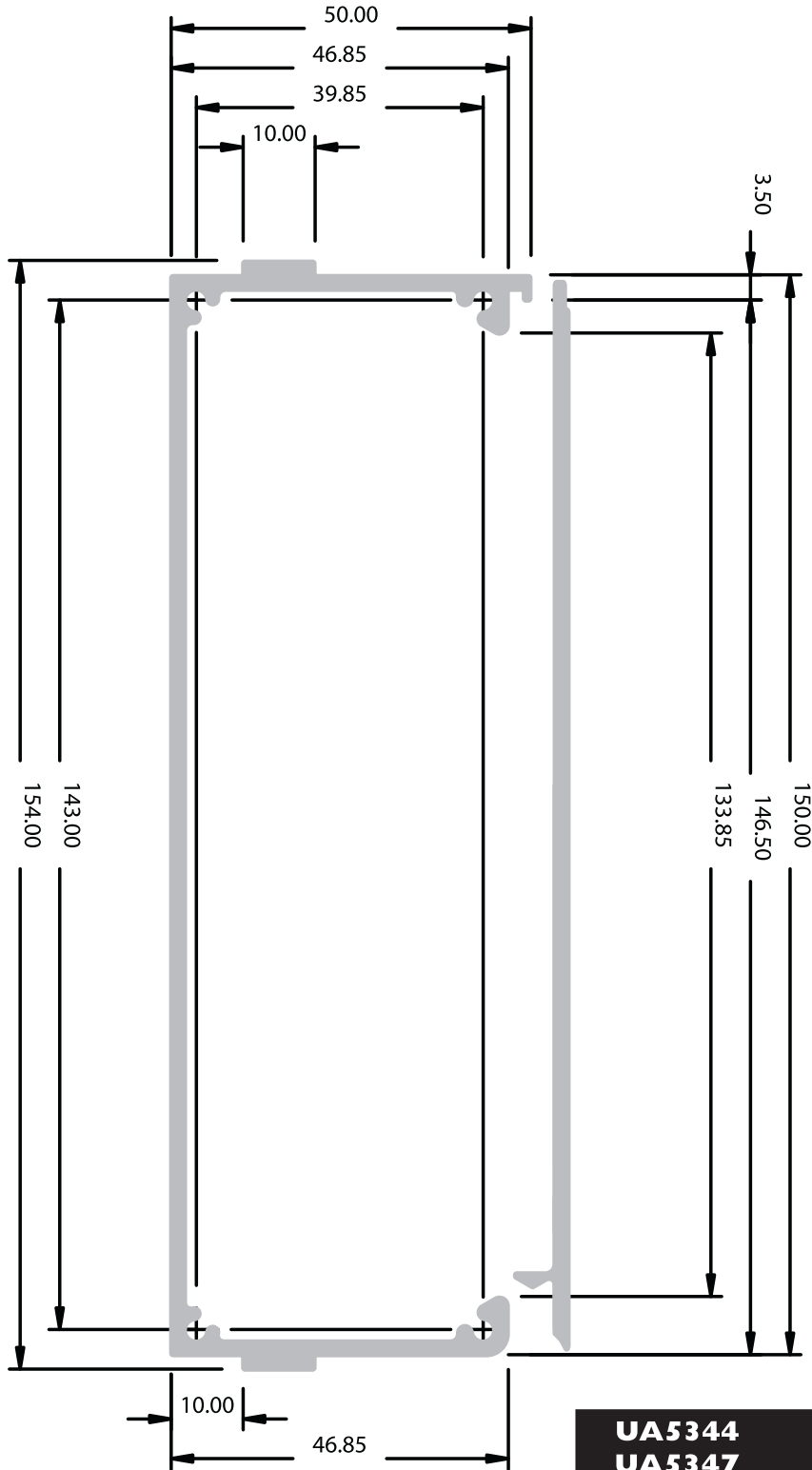
**UA5343  
UA5346**

**Ducting References:**

Ducting Channel Section	<b>UA5343</b>
Ducting Lid Section	<b>UA5346</b>
Length of Channel	5 metres
Length of Lid	3 metres

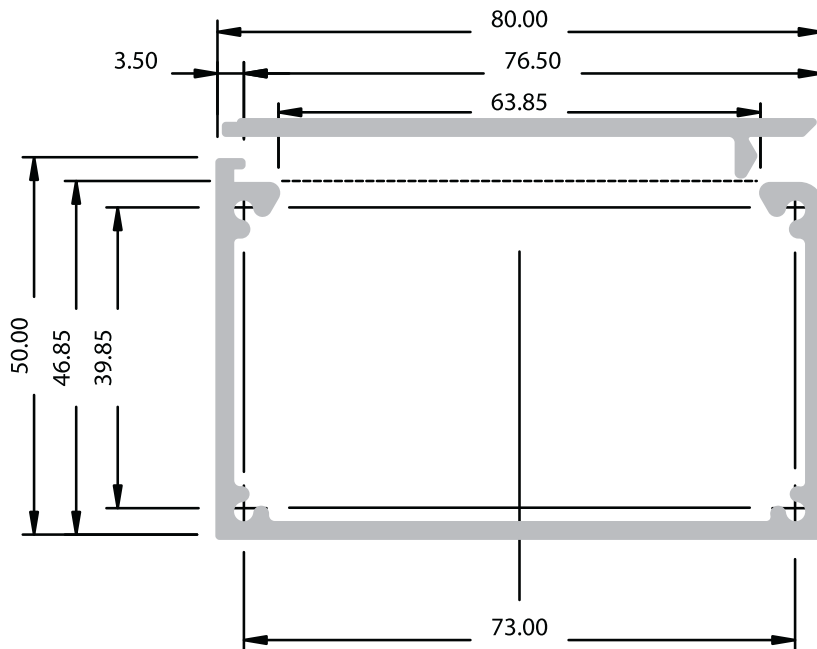


**I 50MM DUCT**



<b>UA5344</b>	
<b>UA5347</b>	
<b>Ducting References:</b>	
Ducting Channel Section	<b>UA5344</b>
Ducting Lid Section	<b>UA5347</b>
Length of Channel	5 metres
Length of Lid	3 metres

80MM DUCT



**UA5345**  
**UA5346**

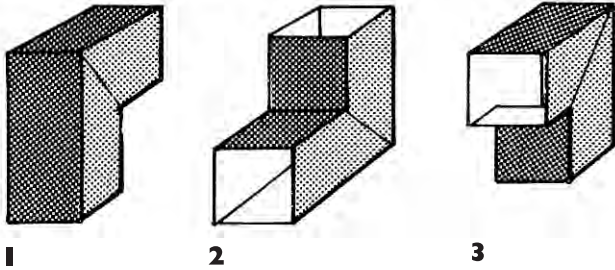
**Ducting References:**

Ducting Channel Section	<b>UA5345</b>
Ducting Lid Section	<b>UA5346</b>
Length of Channel	5 metres
Length of Lid	3 metres

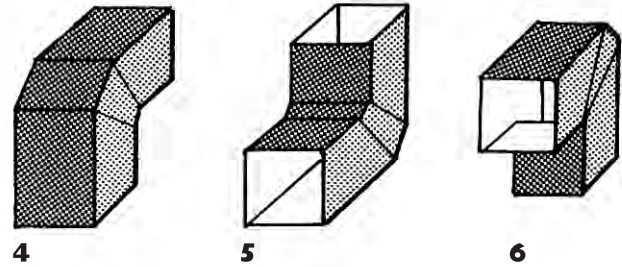


**BENDS, TEES AND OFFSETS**

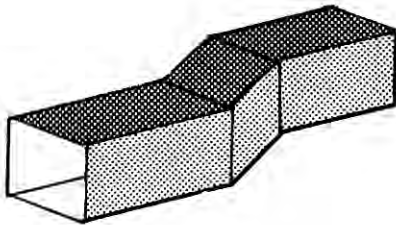
**BENDS 90° VERTICAL**



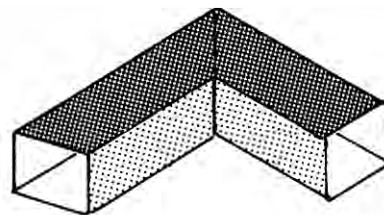
**BENDS 90° VERTICAL WITH RADIUS**



**7 HORIZONTAL OFFSET BEND**

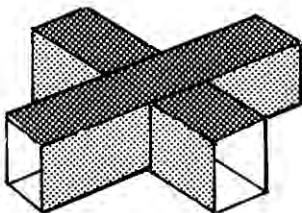


**HORIZONTAL BEND**

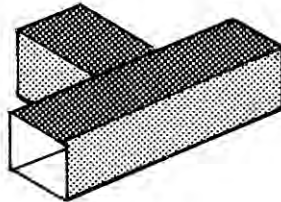


**12 VERTICAL OFFSET BEND**

**4 X TEE**



**3 X TEE**

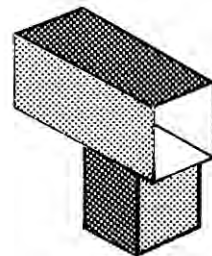


Details Not to Scale

**9**

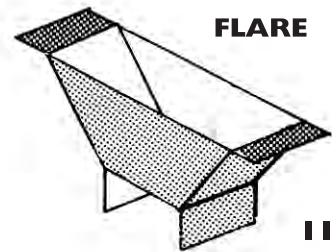
**10**

**OFFSET TEE**



**13**

**FLARE**



**11**

Bends, Tees and Offsets as detailed are typical and can be varied to suit requirements.

Bend types 1, 2 and 3 are direct 90° bends, whereas types 4, 5 and 6 have a radius which is sometimes necessary to ease the strain on cabling.

Vertical Offset 7 as shown is typical and can also be varied to suit particular applications. This also applies to the horizontal bend No. 8 and Tees Nos 9, 10 and 13.

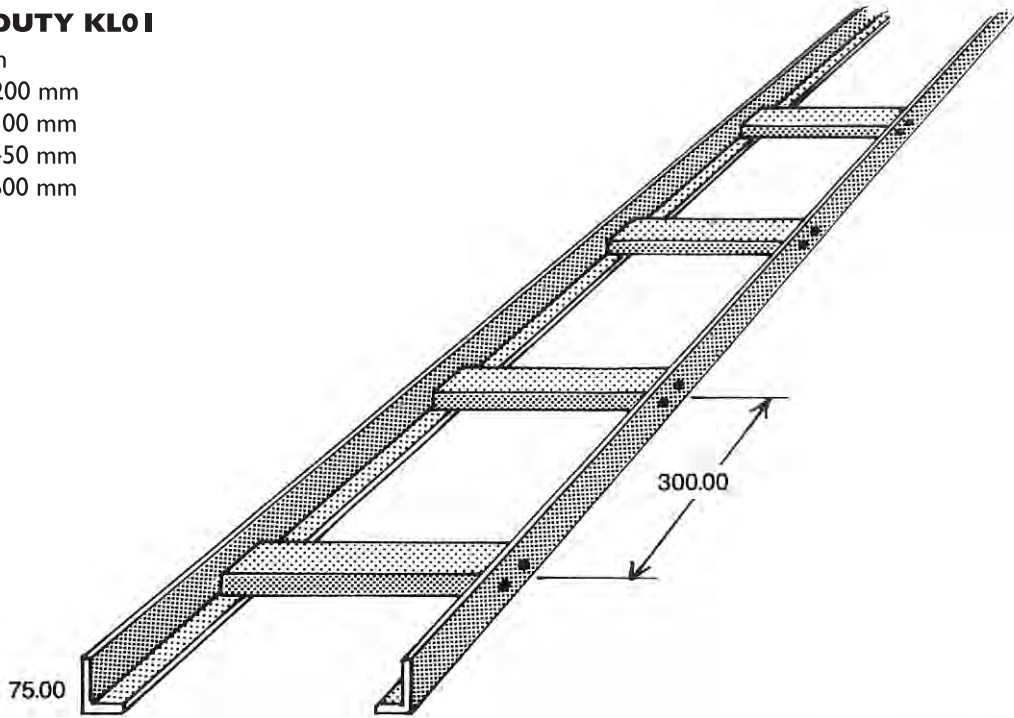
There are other various requirements for installing ducting and these are manufactured from details supplied for such purposes by the Consulting Engineer or Electrical Contractor to ourselves.

Dark shading indicates lid section

KABEL LADDER is lightweight and corrosion resistant.  
Powder coating is available in a full range of colours.

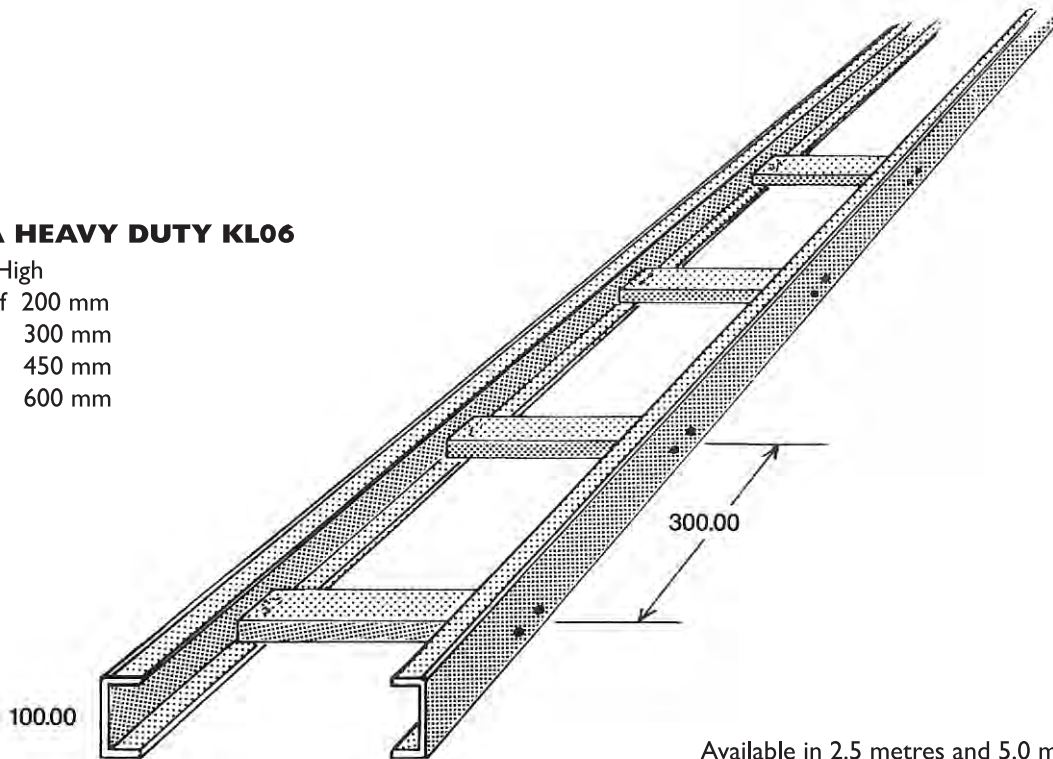
## HEAVY DUTY KL01

75 mm High  
Widths of 200 mm  
300 mm  
450 mm  
600 mm

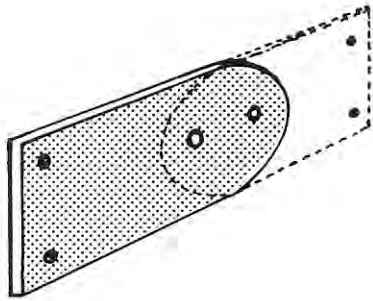


## EXTRA HEAVY DUTY KL06

100 mm High  
Widths of 200 mm  
300 mm  
450 mm  
600 mm



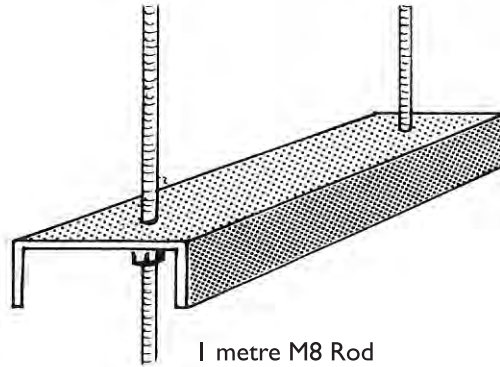
Available in 2.5 metres and 5.0 metres



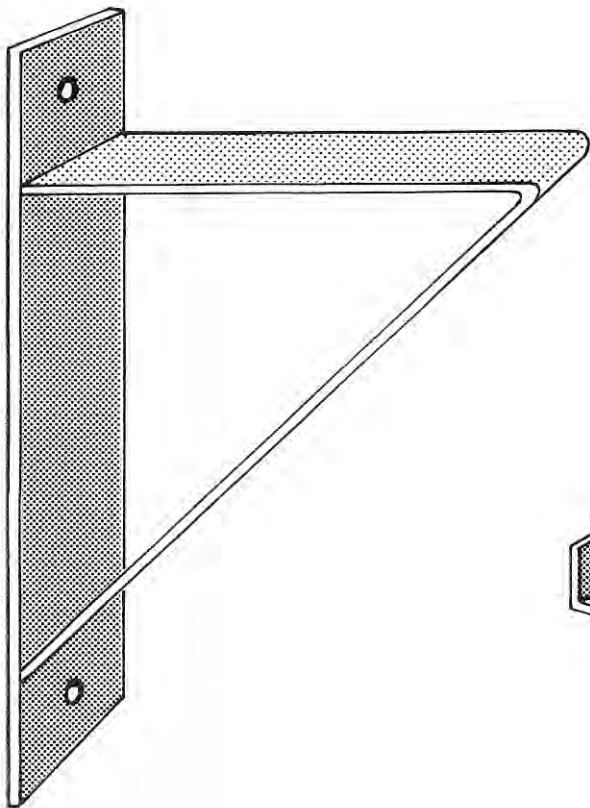
**HINGE PLATE**

For Vertical Bend

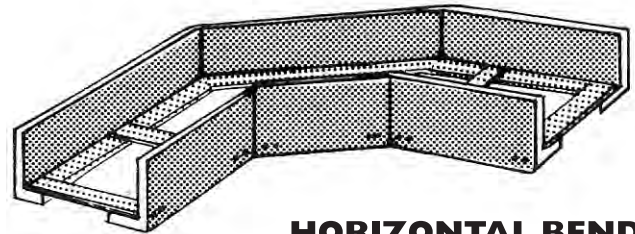
**TOP SUPPORT BAR**



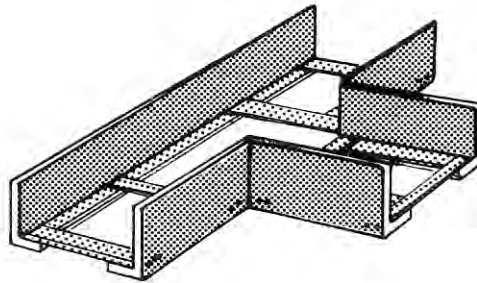
1 metre M8 Rod



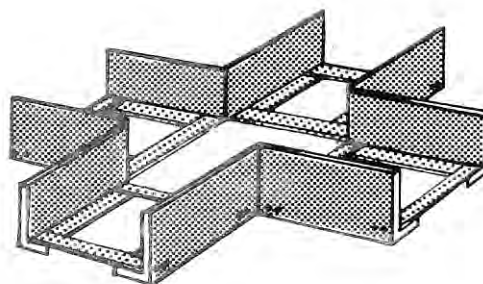
**SIDE SUPPORT BAR**



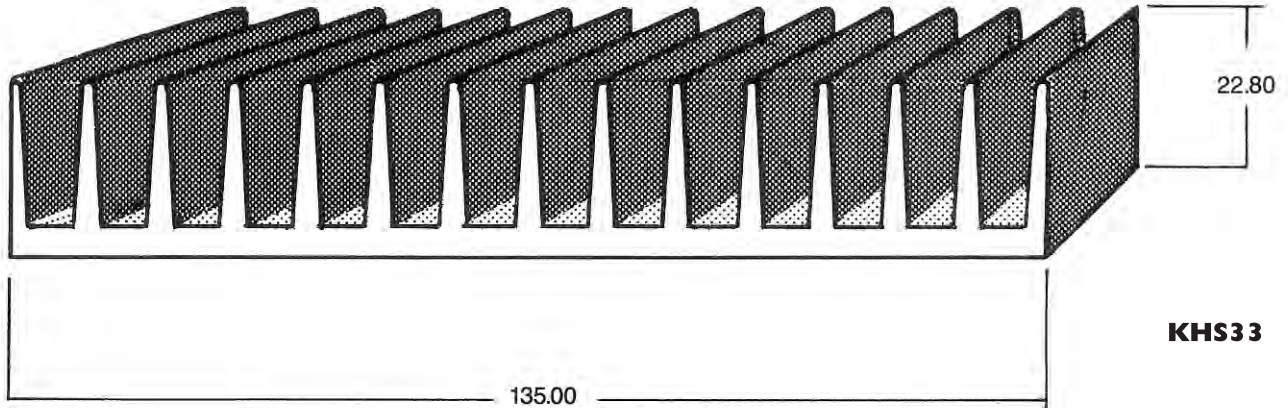
**HORIZONTAL BEND**



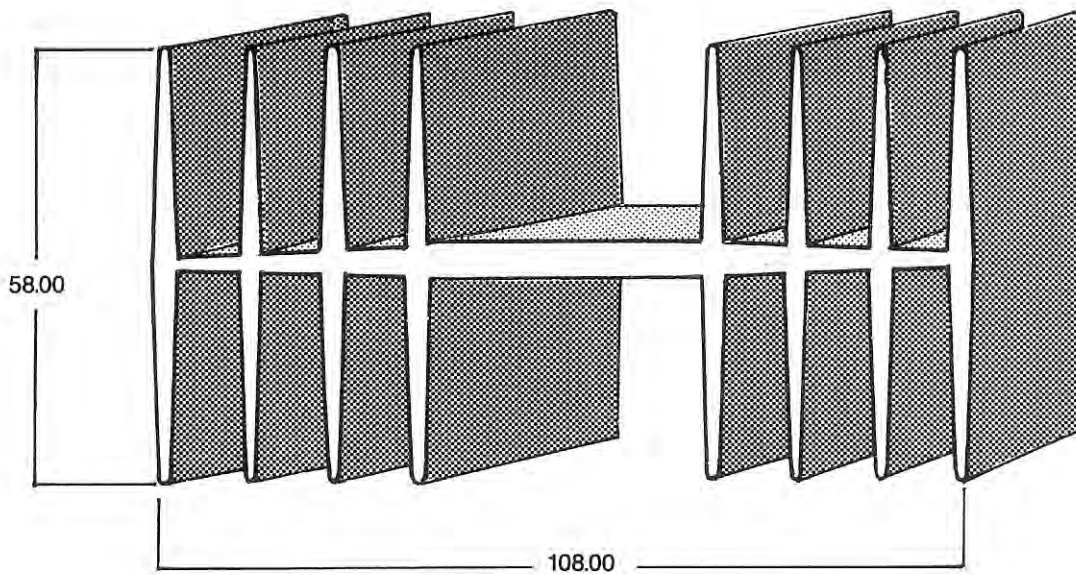
**"T" JUNCTION**



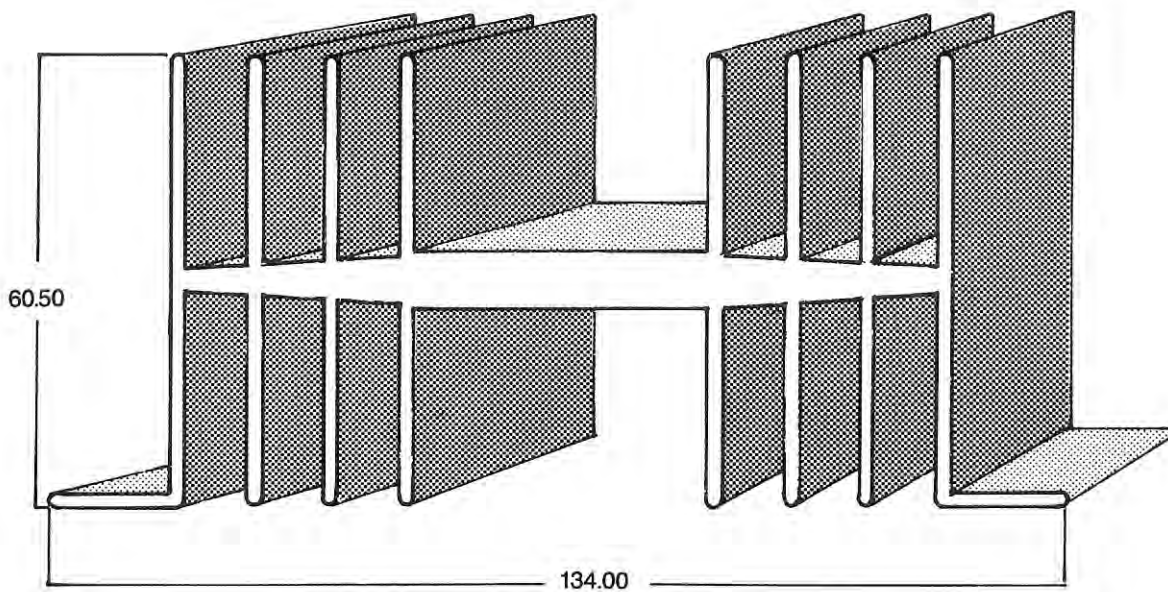
**4 WAY JUNCTION**



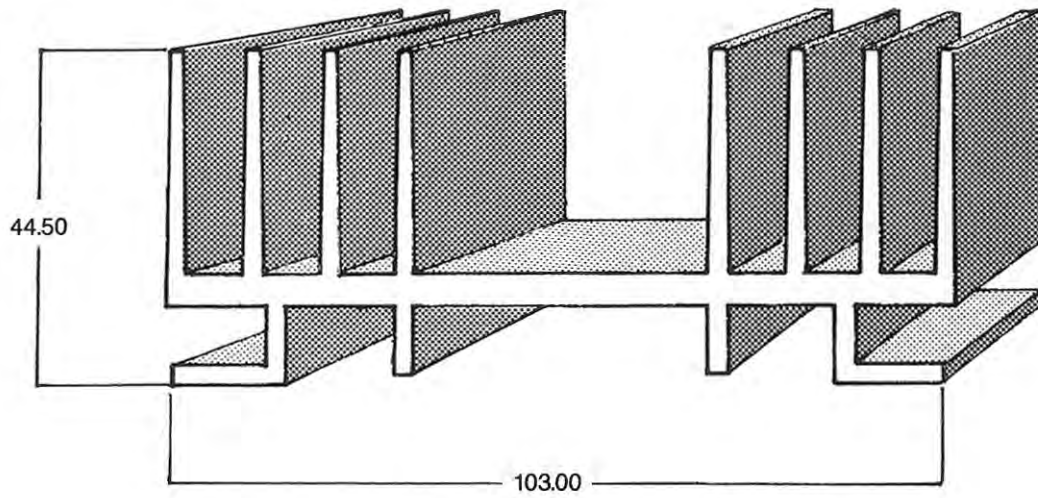
**KHS33**



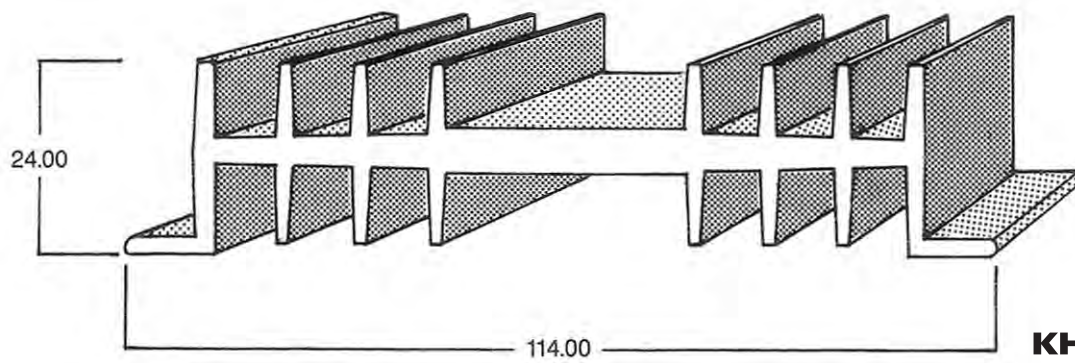
**KHS36**



**KHS37**

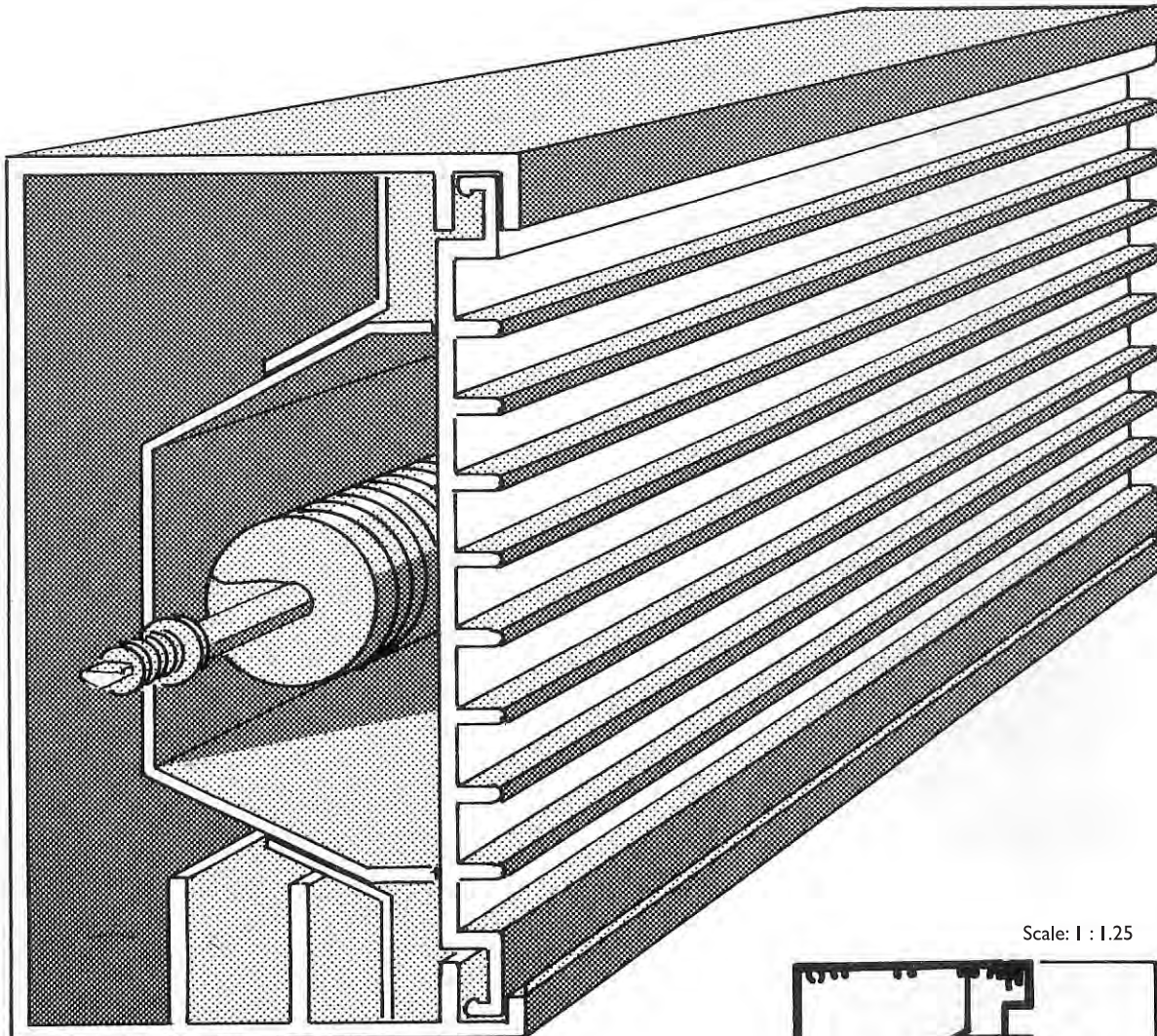


**KHS38**



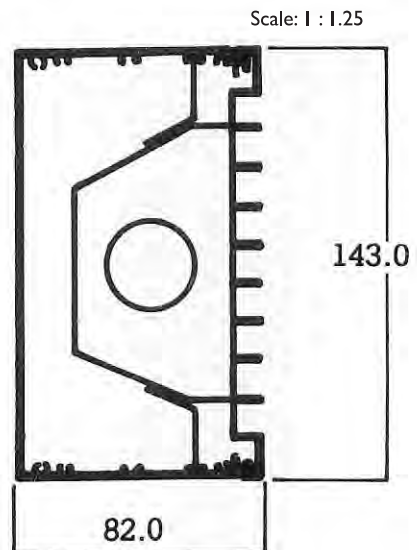
**KHS39**

**KEH35**



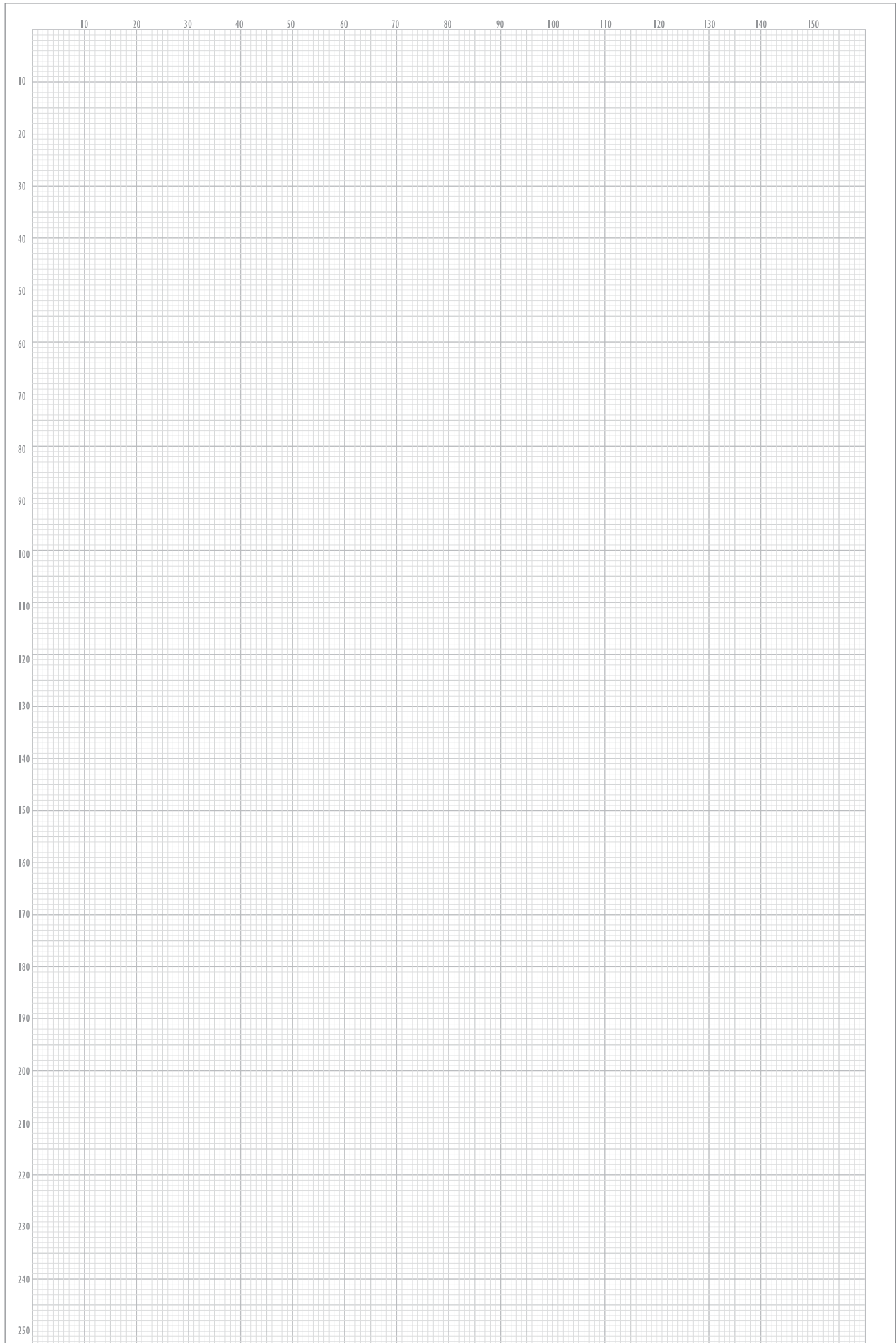
Available in a wide range of wattages and lengths.

80mm slots  
opening for grill

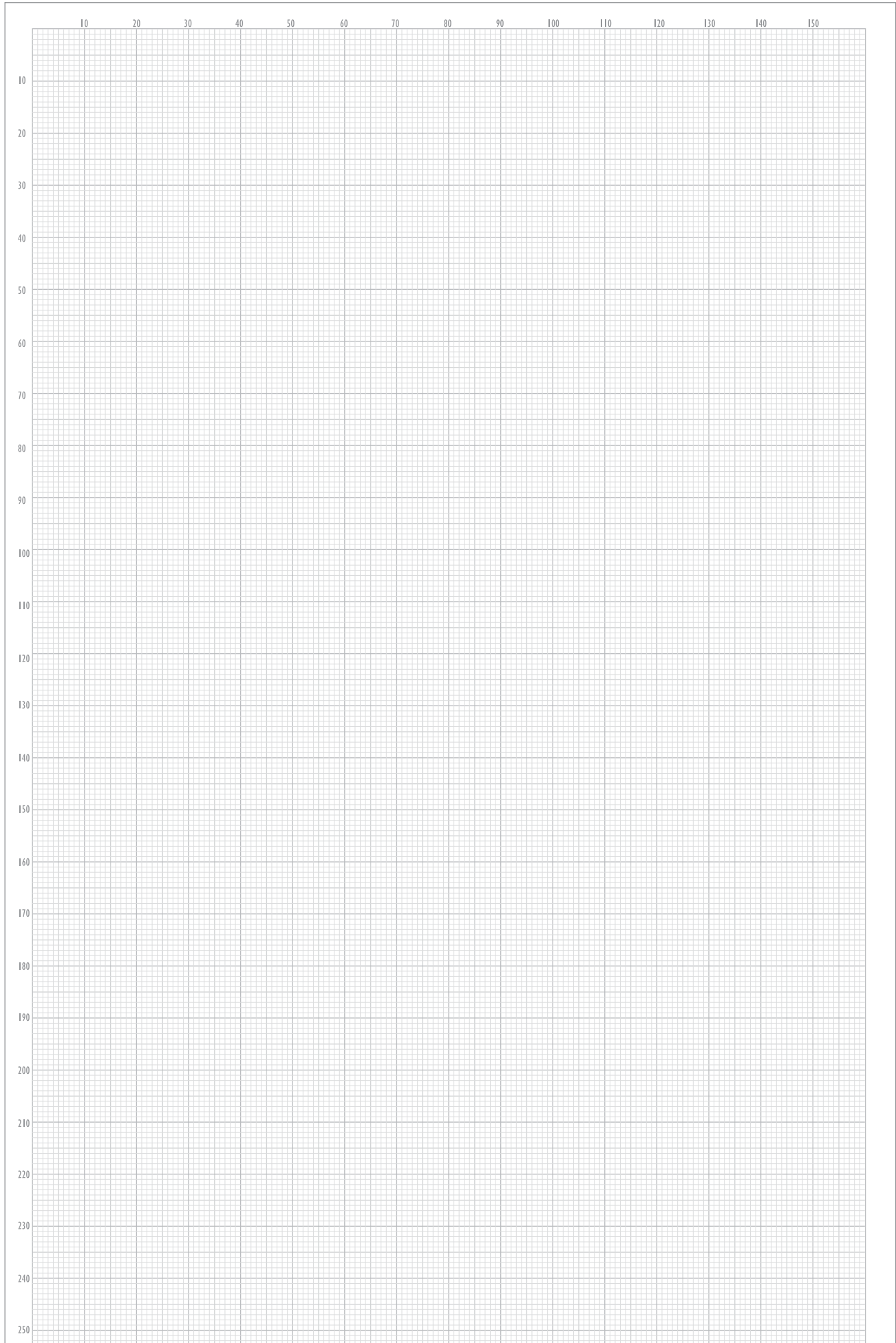




# PLANNING GRID AND NOTES



# PLANNING GRID AND NOTES



# CORROSION CHART



CHEMICAL	COLD	WARM	HOT	CHEMICAL	COLD	WARM	HOT
Acetone	R	R	R	Hydrogen Sulphide Wet	R	R	R
Aluminium Chloride Solution	NR	NR	NR	Lactic Acid 10%	R	F	NR
Anhydrous Aluminium Chloride	R	R	R	Lead Acetate 5%	NR	NR	NR
Aluminium Sulphate	R	R	R	Magnesium Hydroxide	NR	NR	NR
Ammonium Chloride 10%	F	F	NR	Magnesium Chloride 1%	R	F	NR
Ammonium Hydroxide	F	F	F	Magnesium Nitrate 5%	R	-	-
Ammonium Phosphate	F	F	NR	Nickel Chloride	NR	NR	NR
Ammonium Sulphate	F	-	-	Nitric Acid 15%	R	F	F
Ammonium Thiocyanate	R	R	R	Oleic Acid	R	R	F
Amyl Acetate	R	-	-	Oxalic Acid 10%	R	F	NR
Amyl Alcohol	R	R	R	Phenol CP	R	F	R
Arsenic Acid	F	F	F	Phosphoric Acid 50%	NR	NR	NR
Barium Chloride	F	F	NR	Potassium Bromide 100%	R	F	NR
Barium Sulphate	R	R	R	Potassium Carbonate 100%	F	F	-
Barium Sulphide	NR	NR	NR	Potassium Chloride 5%	R	R	R
Benzene	R	R	R	Potassium Hydroxide 50%	NR	NR	NR
Benzoic Acid	F	F	NR	Potassium Dichromate	R	R	R
Boric Acid	R	R	F	Potassium Nitrate 50%	R	R	R
Bromine Liquid or Vapour	NR	NR	NR	Potassium Sulphate 5%	R	R	R
Butyl Acetate	R	R	R	Propyl Alcohol	R	R	R
Butyl Alcohol	R	R	R	Sodium Acetate 20%	R	F	F
Butyric Acid	F	F	F	Sodium Bisulphite 10%	R	F	F
Calcium Chloride	F	F	NR	Sodium Borate	R	F	F
Calcium Hydroxide	R	-	-	Sodium Carbonate 18%	R	F	F
Calcium Hypochlorite 2-3	F	-	-	Sodium Chloride 5%	R	R	R
Calcium Sulphate	R	-	-	Sodium Hydroxide 20%	NR	NR	NR
Carbon Monoxide Gas	R	R	R	Sodium Hypochlorite 5%	R	F	F
Carbon Tetrachloride	F	F	NR	Sodium Nitrate 100%	R	R	R
Chloroform Dry	NR	NR	NR	Sodium Nitrite 100%	R	R	R
Chloroform Solution	R	NR	NR	Sodium Sulphate 100%	R	R	F
Chromic Acid 10% CP	R	R	-	Sodium Thiosulphate	R	R	R
Citric Acid	F	F	F	Sulphur Dioxide	R	R	R
Copper Cyanide	NR	NR	NR	Sulphuric Acid 5%	F	F	-
Copper Sulphate 5%	NR	NR	NR	Sulphuric Acid 10%	F	F	-
Ethyl Alcohol	R	R	R	Sulphuric Acid 50%	NR	NR	-
Ethylene Glycol	R	R	F	Sulphuric Acid 75-98%	NR	NR	-
Ferric Chloride	NR	NR	NR	Sulphuric Acid 98-100%	R	F	-
Ferrous Sulphate 10%	R	NR	NR	Tannic Acid 10% & 50%	R	R	R
Formaldehyde 37%	R	-	-	Tartaric Acid 10% & 50%	F	F	F
Formic Acid 10%	NR	NR	NR	Vinegar	F	F	F
Gallic Acid 5%	R	R	R	Zinc Chloride 5% & 20%	F	NR	NR
Hydrochloric Acid 25%	NR	NR	NR	Zinc Nitrate	F	F	NR
Hydrofluoric Acid 10%	NR	NR	NR	Zinc Sulphate	R	F	NR
Hydrogen Peroxide 30%	R	R	R				

The corrosion data given in this table is for general comparison only.

The presence of contaminants in chemical environments can greatly affect the corrosion rate of any metal.

Ullrich Aluminium can offer technical advice on any applications and is able to carry out environmental corrosivity evaluations of actual site conditions in order to determine the suitability of aluminium in any application if necessary.

R	= Recommended	Cold	= 10-30°C
F	= May be used in some conditions	Warm	= 55-75°C
NR	= Not Recommended	Hot	= 95-100°C
-	= Information not available		



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**Map key:**  
 + MANUFACTURING  
 ● SALES & DISTRIBUTION  
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