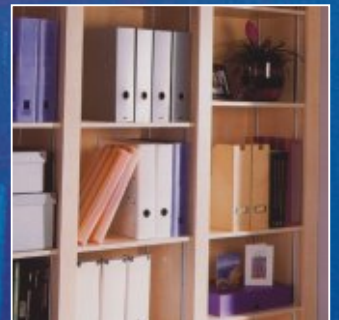




COOKE BROTHERS

# Shelf Support Systems



# Shelf Support Systems

Four different styles of bookcase strip and five shelf support stud designs combine to create an extremely versatile shelving system.



Simplicity of installation and the ease with which shelf heights and the quantity of shelves per bay can be adjusted make this system a very popular solution to shelving problems, suitable for everyone from DIY enthusiasts, shopfitters, to joinery companies and furniture manufacturers. Ideal for small projects such as improving storage facilities in the home, right up to main library and chain store multiple bay shelving installations.

## Standard Lengths

The standard stock length is 1829mm (6ft). Special lengths can be produced to order for volumes in excess of 300 metres. Contact Cooke Brothers main sales for further information on prices and lead times for special lengths.

## Finishes

<b>Base material</b>	Steel Self-Colour	Aluminium Self-Colour	Brass Self-Colour	Stainless Self-Colour
<b>Applied finishes</b>	Brass	Zinc	Bronze	Chrome
	Brushed nickel	Satin anodised	Gold anodised	Bronze anodised
<b>Coloured finishes</b> Available to special order	White (HW01)	Grey (R7035)	Black (R9005)	Yellow (R1021)
	Green (R6005)	Brown (R8017)	Blue (R5010)	Red (R3003)
	Lt. silver (S25)	Dk. silver (S48)	Mid. bronze (B59)	Mid. gold (G79)

## Dimensional Information:

$\nabla$ mm = thickness    $\blacktriangleright$ mm $\blacktriangleleft$  = width    $\nabla$  = overall height (mm)    $\text{⊗}$  = slot centres (mm)   = rebate A<sub>1</sub> x A<sub>2</sub> (mm)   = rebate B<sub>1</sub> x B<sub>2</sub> (mm)  
 = section depth (mm)    $\text{⌀}$ mm $\text{⌀}$  = fixing centres

## Product selection

- Step 1. Select the most suitable shelf support system to meet your needs from the four main options.
- Step 2. Use the Product Selector on the chosen shelving strip product page to identify the basic product, plus the finish required.
- Step 3. From the same page select from the shelf stud options, matching the finish as closely as possible.
- Step 4. Turn to the later pages to select accessories such as shelf buffers, rebate cutters, or fasteners.
- Step 5. Contact Cooke Brothers Sales by phone, fax, e-mail or post to confirm order details and total order price.

# Flat Bookcase Strip 7470



Traditional bookcase strip design for flush fitting by inserting into a pre-machined stepped groove. Standard stepped cutters are available to simplify the preparation process. The preferred choice of craftsmen. The design has the advantage of allowing the shelves to fit flush to the inside faces of the shelving bay.

## Support studs

The flat bookcase strip (7470) is capable of taking two different styles of shelf support studs. The single slot fixing flat studs (7471), or the much higher load bearing two slot fixing double flat studs (7475).



Flat Stud (7471)



Double Flat Stud (7475)



Shelf strip photograph is shown at actual size

### Product Details

Code	Thickness ↓ ▲	Width ▶ w ◀	Overall length ↓ ▲	Slot centres Ⓞ	Rebate A 	Rebate B 	Fixing centres ⊕ mm ⊕	Fasteners required
7470	2	19.1	1829	19.1	19.1 x 2	9.5 x 6	114.3	16 x No4

Code	Thickness ↓ ▲	Width ▶ w ◀	Support points
7471	2	19	1
7475	1.6 x 2	19	2

### Product Selector

Code	Material - Finish			
3 7470	12 1829 01	Steel - Brass	13 1829 01	Steel - Bronze
	31 1829 01	Brass - Self colour	35 1829 01	Brass - Chrome
	41 1829 01	Alum. - Self colour	47 1829 10	Alum. - Satin anod.
3 7471	12 01	Steel - Brass	13 01	Steel - Bronze
	31 01	Brass - Self colour	15 01	Steel - Chrome
	51 01	Stainless St. - Self colour	16 01	Steel - Zinc
3 7475	12 01	Steel - Brass	13 01	Steel - Bronze
			16 01	Steel - Zinc

Example order: 20 off 3 7470 13 1829 01. Flat shelving strip. Base metal steel, bronze finish. (Standard 6ft 1829mm long)  
100 off 3 7475 13 01. Double flat studs. Base metal steel, bronze finish.

# Shelf Support Systems

## Raised Bookcase Strip 7472



Commonly called "Top Hat" section because of its raised centre section, this strip is specifically designed for surface fitting. Its low profile and fewer fixing holes per length make it an attractive and lower cost alternative to the traditional inlaid strip design. The wide flanges also allow other fitting methods such as spot welding to be utilised, making the design suitable for installation within steel cabinets.

Note: When using surface mounted raised bookcase strip, shelves must be a minimum of 7mm shorter overall than the internal width of the cabinet.

### Support studs

The raised bookcase strip (7472) is capable of taking two different styles of shelf support studs. The raised studs (7473), or the double raised studs (7474).

Note: When the (7473) single stud is used, wooden shelves can be secured in place by adding fixing screws to the underside of each shelf. The most suitable screws for this are the No.6 round head or No.4 countersunk head screws.



Raised Stud (7473)




Double Raised Stud (7474)



Shelf strip photograph is shown at actual size

### Product Details

Code	Thickness ▼ T ▲	Width ► w ◀	Overall length ▼ L ▲	Slot centres C/C	Section depth 	Fixing centres ⌀ mm ⌀	Fasteners required
7472	1	24	1829	12.7	3.4	152.4	12 x No4

Code	Thickness ▼ T ▲	Width ► w ◀	Support points
7473	2	20	1
7474	1.6 x 2	20	2

### Product Selector

Code	Material - Finish			
3 7472	12 1829 01	Steel - Brass	13 1829 01	Steel - Bronze
	31 1829 01	Brass - Self colour	35 1829 01	Brass - Chrome
	41 1829 01	Alum. - Self colour	47 1829 10	Alum. - Satin anod.
	15 1829 01	Steel - Chrome	38 1829 01	Brass - Polished
	47 1829 11	Alum. - Bronze anod.	47 1829 12	Alum. - Gold anod.
3 7473	12 01	Steel - Brass	13 01	Steel - Bronze
	16 01	Steel - Zinc		
3 7474	12 01	Steel - Brass	13 01	Steel - Bronze
	16 01	Steel - Zinc		

Example order: 50 off 3 7472 12 1829 01. Raised shelving strip. Base metal steel, brass plated finish. (Standard 6ft 1829mm long).  
300 off 3 7473 12 01. Raised studs. Base metal steel, brass plated finish.

# Universal Bookcase Strip 7476



Commonly called "M" section because of its distinctive profile, this design has the advantage that it can be inlaid or surface fitted. A popular installation technique is to surface fit the strip, and then add tiles or décor panels up to the maximum of 5mm thickness to complete the transformation from surface fitted to inlaid design. Regularly used by shopfitters and bookcase manufacturers because of its versatility and higher rigidity compared to the raised strip design.

Note: When using surface mounted Universal bookcase strip, shelves must be a minimum of 11mm shorter overall than the internal width of the cabinet.

## Support studs

The universal bookcase strip (7476) is capable of taking two different styles of shelf support studs. The single slot fixing flat studs (7471), or the much higher load bearing two slot fixing double flat studs (7475).



Flat Stud (7471)



Double Flat Stud (7475)



Shelf strip photograph is shown at actual size

### Product Details

Code	Thickness ↓ ↑	Width ▶ w ◀	Overall length ↓ ↑	Slot centres 	Section depth 	Rebate 	Fixing centres ⊕ mm ⊕	Fasteners required
<b>7476</b>	1	19.6	1829	19.1	5.3	5 x 20	114.3	16 x No4

Code	Thickness ↓ ↑	Width ▶ w ◀	Support points
<b>7471</b>	2	19	1
<b>7475</b>	1.6 x 2	19	2

### Product Selector

Code	Material - Finish			
<b>3 7476</b>	<b>12 1829 01</b> Steel - Brass	<b>13 1829 01</b> Steel - Bronze	<b>15 1829 01</b> Steel - Chrome	<b>16 1829 01</b> Steel - Zinc
	<b>31 1829 01</b> Brass - Self colour	<b>38 1829 01</b> Brass - Polished	<b>41 1829 01</b> Alum. - Self colour	<b>47 1829 10</b> Alum. - Satin anod.
	<b>47 1829 11</b> Alum. - Bronze anod.	<b>51 1829 01</b> Stainless St. - Self colour		
<b>3 7471</b>	<b>12 01</b> Steel - Brass	<b>13 01</b> Steel - Bronze	<b>15 01</b> Steel - Chrome	<b>16 01</b> Steel - Zinc
	<b>31 01</b> Brass - Self colour	<b>51 01</b> Stainless St. - Self colour		
<b>3 7475</b>	<b>12 01</b> Steel - Brass	<b>13 01</b> Steel - Bronze	<b>16 01</b> Steel - Zinc	

Example order: 40 off 3 7476 47 1829 10. Universal shelving strip. Base metal aluminium, satin anodised finish. (Standard 6ft 1829mm long).  
200 off 3 7471 16 01. Flat studs. Base metal steel, zinc plated finish.

# Shelf Support Systems

## "U" Section Bookcase Strip 7480



The "U" section shelving strip combines the strength of the Flat bookcase strip with the versatility of the raised section designs.

At 14mm overall width, it is the narrowest of the four styles, and yet its 2mm material thickness makes it one of the strongest. The "U" channel shape allows it to be surface fitted, let in flush, or have tiles or décor panels butted up to it. A 6mm rebate or décor panel thickness would allow the strip to be fitted flush, but greater depths are not a problem as shelving studs are within the overall width of the strip.

Note: When using surface mounted "U" section bookcase strip, shelves must be a minimum of 12mm shorter overall than the internal width of the cabinet.

### Support studs

The "U" section bookcase strip (7480) takes the "U" section double studs (7485). This stud is designed to compliment the slim design of the "U" section strip.



### "U" Section Double Stud (7485)



#### Product Details

Code	Thickness ▼ T ▲	Width ▶ w ◀	Overall length ▼ L ▲	Slot centres C-C	Section depth 	Fixing centres ◊mm◊	Fasteners required
7480	2	14	1829	19.1	6	114.3	16 x No4

Code	Thickness ▼ T ▲	Width ▶ w ◀	Support points
7485	1.6 x 2	14	2

#### Product Selector

Code	Material - Finish							
3 7480	12 1829 01	Steel - Brass	13 1829 01	Steel - Bronze	15 1829 01	Steel - Chrome	16 1829 01	Steel - Zinc
	31 1829 01	Brass - Self colour	35 1829 01	Brass - Chrome	38 1829 01	Brass - Polished		
	41 1829 01	Alum. - Self colour	47 1829 10	Alum. - Satin anod.	47 1829 11	Alum. - Bronze anod.	47 1829 12	Alum. - Gold anod.
3 7485	12 01	Steel - Brass	13 01	Steel - Bronze	16 01	Steel - Zinc		

Example order: 60 off 3 7480 16 1829 01. 'U' section shelving strip. Base metal steel, zinc plated finish (Standard 6ft 1829mm long)  
400 off 3 7485 16 01. 'U' section double studs. Base metal steel, zinc plated finish.

# Shelf Buffers



For use with the single fixing studs (7471 & 7473) are the black rubber buffers (7477). The moulded stem fits securely into the centre of each stud. With the 'double' studs, use the clear, self-adhesive moulded buffers (7478) designed to be used where glass shelves are fitted or where extra cushioning is required. The adhesive buffers can also be used with the single fixing studs.

## Rubber Buffer (7477)

When fitting glass shelves, or where extra cushioning is required, a shelf buffer fitted on to the top of each shelf support stud must be used. Two types are available. Black rubber buffers for use with the 7471 and 7473 single studs only. The moulded stem fits securely into the centre of each stud.



## Self Adhesive Buffer (7478)

Clear, self-adhesive moulded buffers designed to be used with double studs where glass shelves are fitted or extra cushioning is required. These buffers can also be used with 7471 and 7473 instead of moulded buffers.



### Product Details

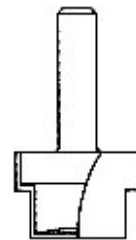
Code	Stem thickness ▼ ▲	Width ▶ w ◀	Depth ▼ ▲
7477	4.5	12	4
7478	-	12.7	3.5

### Product Selector

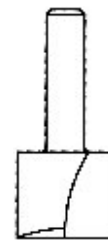
Code	Material - Finish
3 7477	Black rubber - Self colour
3 7478	Clear urethane - Clear

# Rebate Cutters

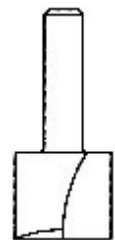
Three rebate cutters, specially matched to the shelving strips are available. A stepped groove is always required when installing the (7470) flat bookcase strip, for which the (7470-99) stepped cutter is specifically designed to be used. Both the Universal "M" section and the "U" section can be surface mounted or rebated into a surface, for which rebate cutters 7476-99 and 7480-99 are available.



(7470 -99)  
stepped cutter



(7476 -99)  
"M" section cutter



(7480 -99)  
"U" section cutter

### Product Details

Code	Variations	Outer width ◀ w ▶	Inner width ▶ w ◀	Depth ▼ ▲	Stem ┌┐ └└
7470	Stepped cutter for flat strip	19.1	9.5	6	6.3
7476	"M" section cutter	20	-	25	6.3
7480	"U" section cutter	14	-	25	6.3

### Product Selector

Code	Material
3 7470-99	Hardened high speed steel
3 7476-99	Hardened high speed steel
3 7480-99	Hardened high speed steel

Example order: 400 off 3 7477. Black rubber buffers.  
1 off 3 7470-99. Rebate cutter for flat shelving strip.

# Shelf Support Systems

## Fastenings Selection

Cooke Brothers now offer a range of quality fasteners to compliment our full range of Shelving Strip. Fasteners are available in all material types as laid out below, a full range of finishes are also available to give the installation the finishing touch.

### Product Selector

Code	Description	Base Metal	Dimensions		Finishes
			Size	Length	
3 7497	Countersunk Woodscrew	Mild Steel	No4 (M3 x 16)	16mm	01 Self Colour 02 Brass Plated 03 Bronze Plated 06 Zinc Plated
3 7498	Countersunk Woodscrew	Brass	No4	16mm	01 Self Colour
3 7499	Countersunk Woodscrew	Stainless Steel	No4	16mm	01 Self Colour

Example order: 1000 off 3 7497 06. 1000 off No4 X 16 Mild Steel Zinc Plated Woodscrews

## Shelving system installation recommendations

Four bookcase strips are inlaid or surface fitted onto the inside end faces of each shelving bay. Additional strips can be fitted to the back face of the shelving bay, reducing the risk of shelves sagging from heavy loads or long shelf spans.

All shelving strips should be fitted from a common level starting point at the base of the shelving unit, with the embossed PHOENIX logo at the same end of each strip.

The use of shelving buffers will not only protect glass shelves from point loading but also assist should any warping of wooden shelves or slight misalignment of shelving strips be present.

Owing to variations in shelving and cabinet materials it is recommended that a shelf at the base of the cabinet is test loaded to the maximum anticipated loading per shelf before putting loads on the higher shelves.

For the safety of all users please ensure that the shelving unit is secure from falling forward when in use, and that individual shelves are not used for climbing upon to reach items high up as shelves are not restrained from sliding forwards. For additional security the shelving unit should be secured to the floor or wall, and individual wooden shelves can be secured in place from the underside using additional fastenings fitted through the 4mm diameter holes in the single studs.



## Cooke Brothers Limited Phoenix range of shelf support systems.

Cooke Brothers Limited was first established in Birmingham in 1872, producing cabinet fittings with the familiar PHOENIX logo. The PHOENIX range of shelving strips and studs are manufactured on the latest automated production equipment ensuring consistency and accuracy. All dimensions are for reference only for further technical support and information on manufacturing tolerances please contact our technical sales department.