



**ELECTRICAL ENGINEERED SOLUTIONS**

— **ONBOARD PROGRAMME** —

PDC has a long history designing and manufacturing switchboard systems, ranging from complex 4000A switchboards to smaller residential units.

The team is comprised of specialist engineers who have developed a range of switchboards that will suit most mid-range applications. This range reduces the need for custom designing and quoting, reducing the wait time for customers.



PROVIDES ELECTRICAL SOLUTIONS  
SPECIALISED IN HIGH QUALITY DESIGN  
& MANUFACTURE OF LOW VOLTAGE  
ELECTRICAL DISTRIBUTION AND HIGH  
END LIGHTING SOLUTIONS



QUALIFIED TEAM OF  
EXPERIENCED ENGINEERS



COMMERCIAL AND INDUSTRIAL MARKET

**NEW ZEALAND  
OWNED AND  
OPERATED**



**PDC, CHRISTCHURCH**



**PDC, AUCKLAND**



SB16500



SB16536

**Empty Enclosures**

Code	Height (mm)	Width (mm)	Depth (mm)
SB16250	250	500	165
SB16500	500	500	165
SB16750	750	500	165
SB16000	1000	500	165

Complete with 2x aluminium gland plates and standard handle.

**3 Phase MCB Board**

Code	Description	Height (mm)	Width (mm)	Depth (mm)
SB16518	6TP - 18WAY	500	500	165
SB16524	8TP - 24WAY	500	500	165
SB16536	12TP - 36WAY	500	500	165
SB16736	12TP - 36WAY	750	500	165
SB16748	16TP - 48WAY	750	500	165
SB16760	20TP - 60WAY	750	500	165
SB16148	16TP - 48WAY	1000	500	165
SB16160	20TP - 60WAY	1000	500	165
SB16172	24TP - 72WAY	1000	500	165

Complete with pan assembly, cover plate, tunnel bar assembly, 2x aluminium gland plates and standard handle.

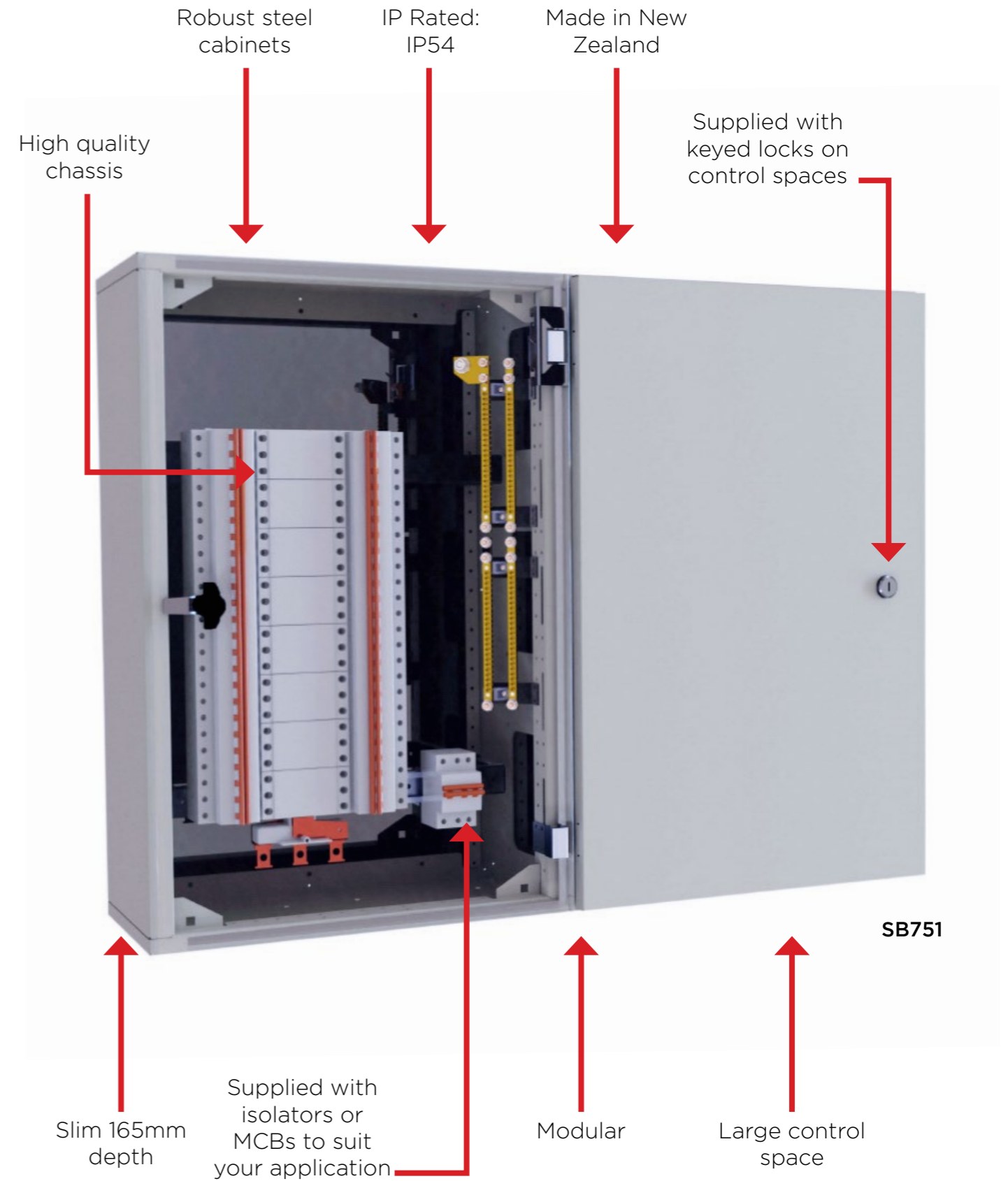


SB16554

DIN Rail MCB Board

Code	Description	Rows	Height (mm)	Width (mm)	Depth (mm)
SB16218	18 WAY	1	250	500	165
SB16554	54 WAY	3	500	500	165
SB16772	72 WAY	4	750	500	165
SB16108	108 WAY	6	1000	500	165

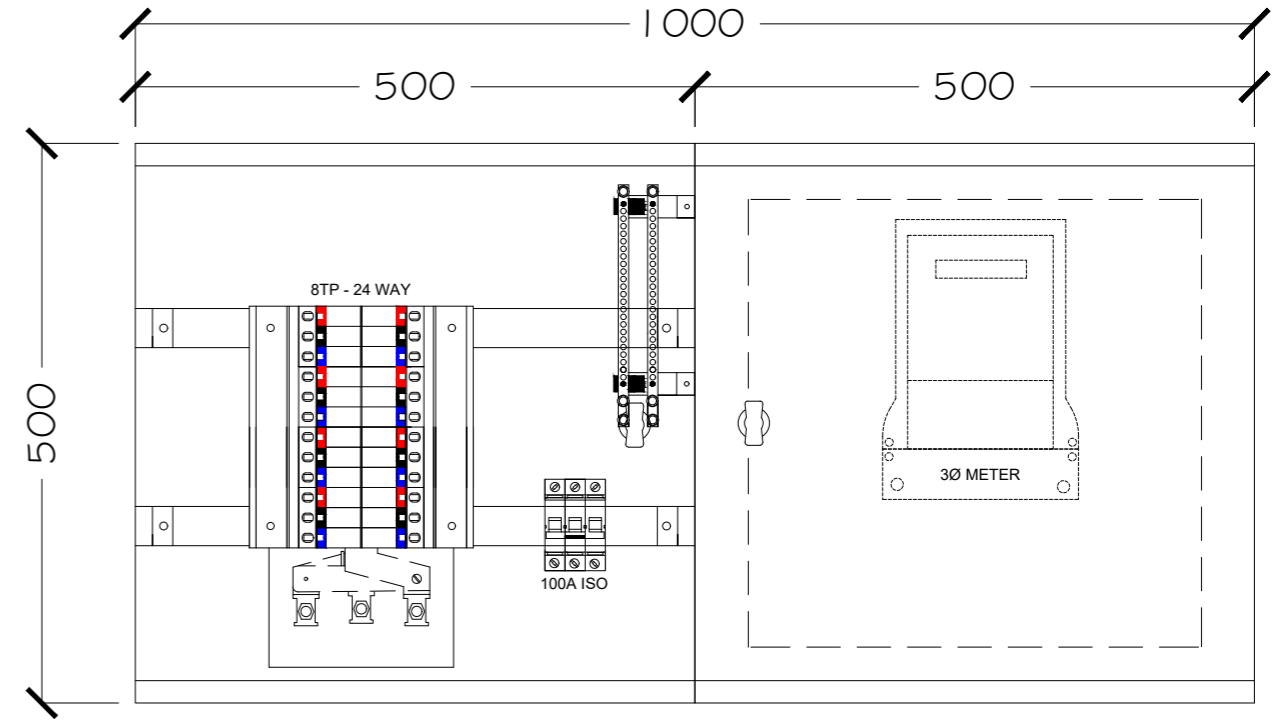
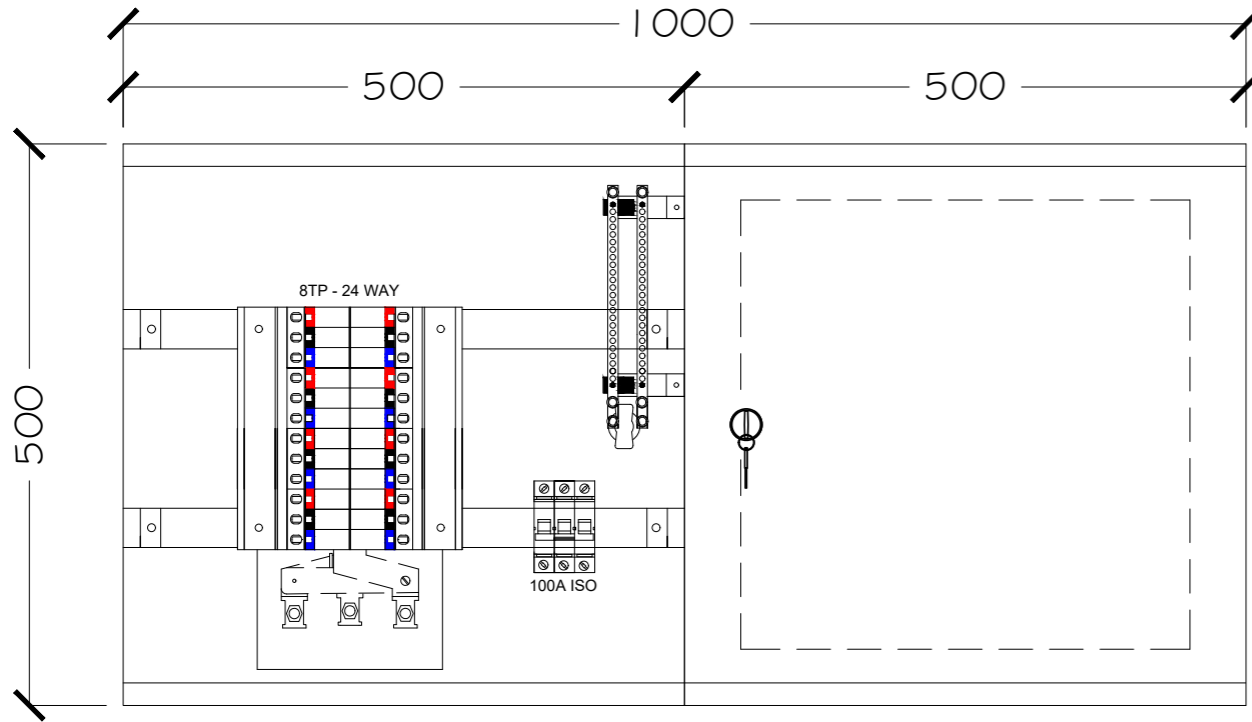
Complete with DIN rail, cover plate, a tunnel bar assembly and NL3 neutral units, 2x aluminium gland plates and a standard handle.



\*MCBs on chassis sold separately

This switchboard is ideal for small commercial and retail applications. The generous sized chassis cabinet allows for easy installation. This board comes with a 100A isolator and needs overload protection supplied from fuses or an MCCB.

Used for small commercial and retail applications, this switchboard has plenty of install space. It comes with a 100A isolator and needs overload protection supplied from fuses or an MCCB. This switchboard is wired for a three phase meter, and comes with a clear cover for the meter panel.



**SB501**

Dimensions	Chassis	Isolator	Additional
500H x 1000W x 165D	24 way pan assembly	100A	Control Space 500H x 500W

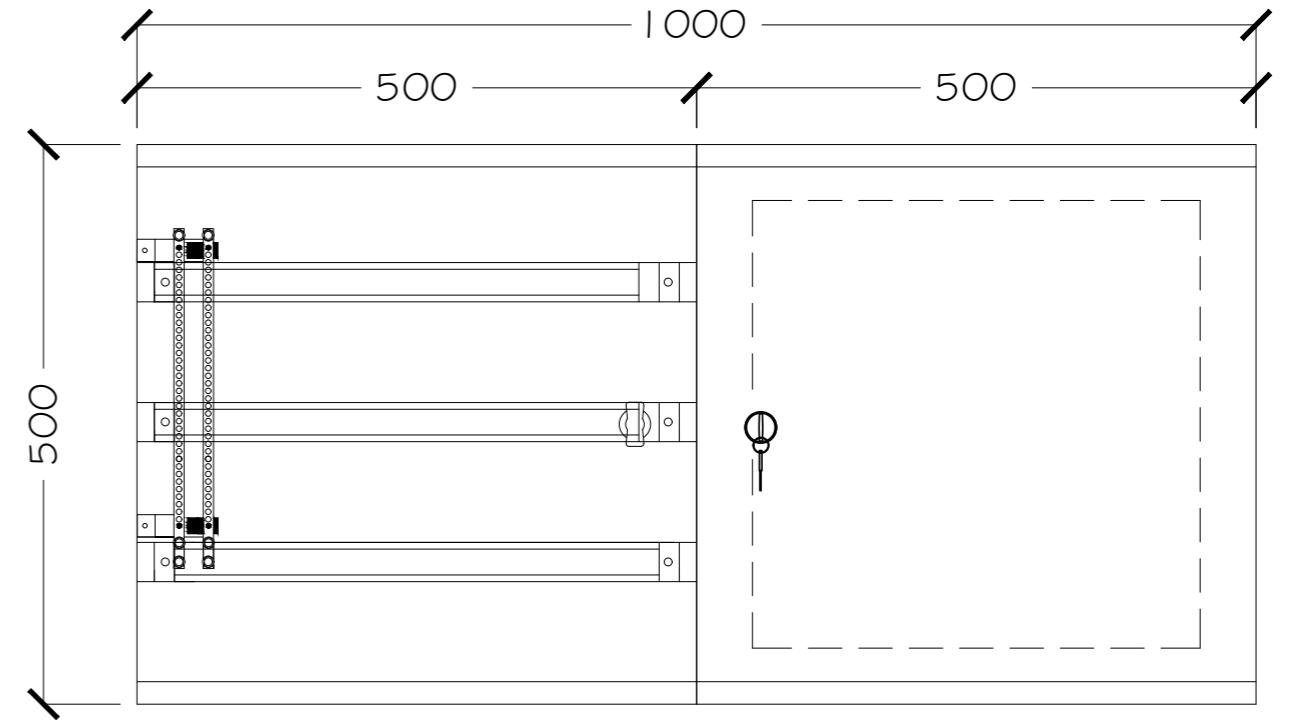
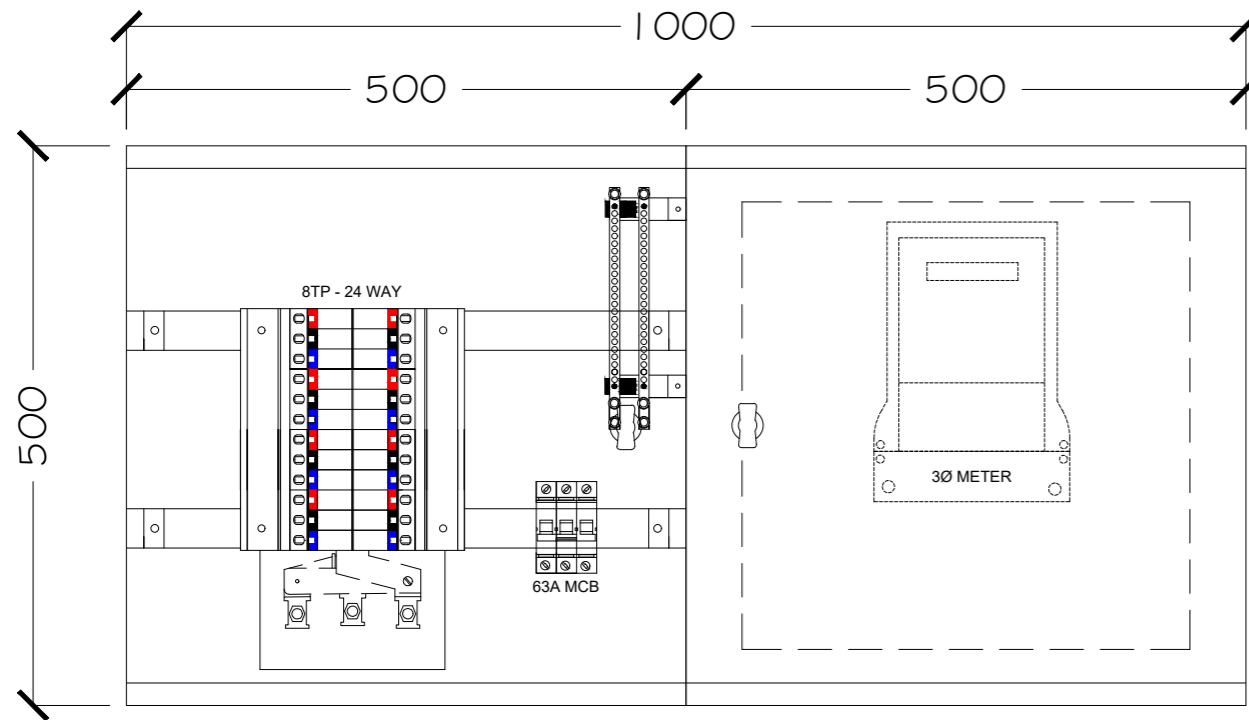
**SB502**

Dimensions	Chassis	Isolator	Additional
500H x 1000W x 165D	24 way pan assembly	100A	Meter Space 500H x 500W

Similar to the SB502, this switchboard is ideal for small commercial and retail installs. This board comes with a 63A MCB for applications where the premises don't have overload protection from fuses or an MCCB. This switchboard is wired for a three phase meter, and comes with a clear cover for the meter panel.

This switchboard is ideal for small commercial and retail applications. It allows for a lot of control space for applications where you require more room. This board comes complete with three DIN rails for RCBOs or other DIN mount gear and a 36 way 100A earth and neutral bar.

See accessories page for available control kits.



**SB502B**

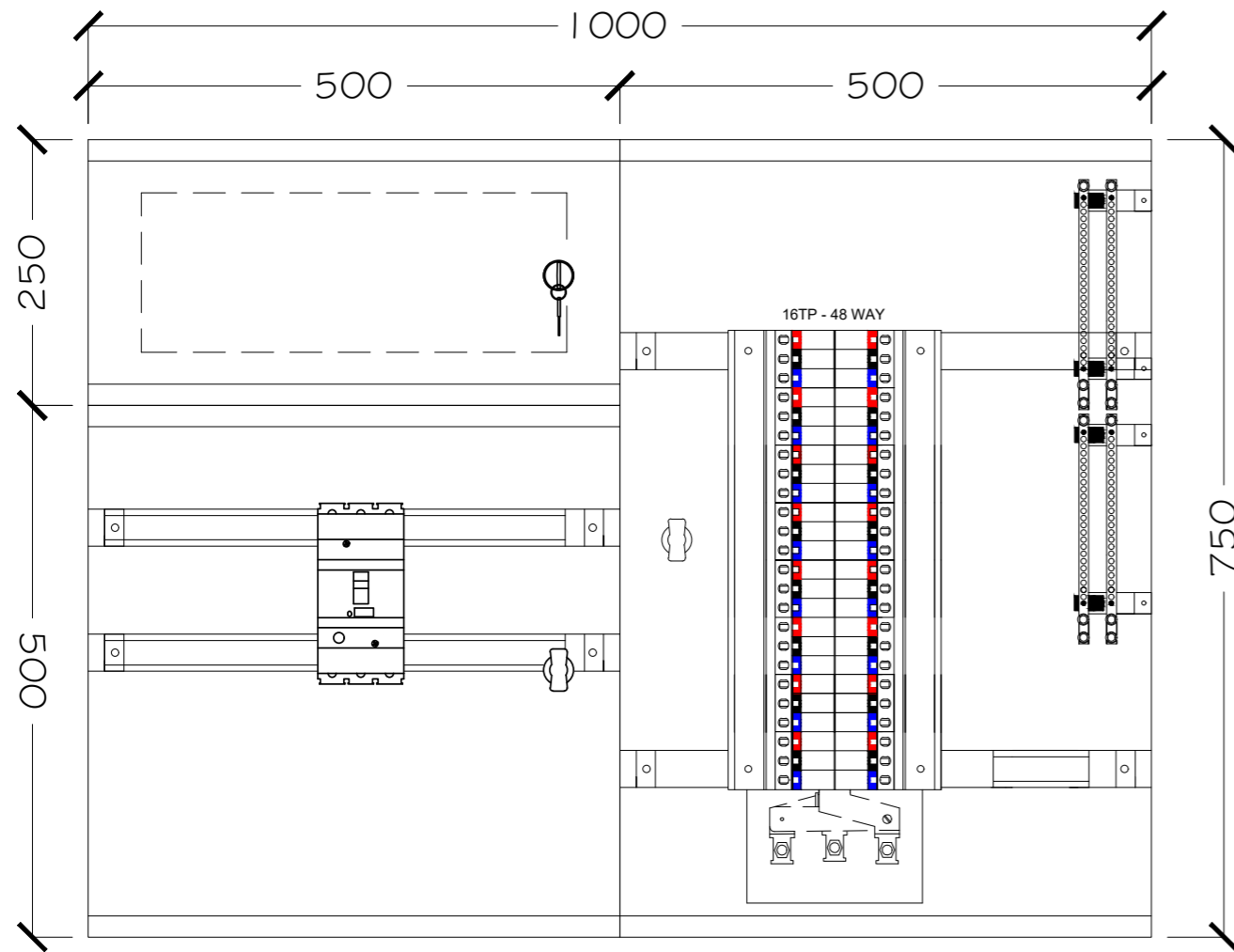
Dimensions	Chassis	MCB	Additional
500H x 1000W x 165D	24 way pan assembly	63A	Meter Space 500H x 500W

**SB503**

Dimensions	Din Rail	Additional
500H x 1000W x 165D	54 way	Control Space 500H x 500W

This switchboard is ideal for small to medium commercial and retail applications which may need some control wiring. The 160A MCCB allows for overload protection when the premises has no overload protection from fuses or an MCCB.

See accessories page for available control kits.

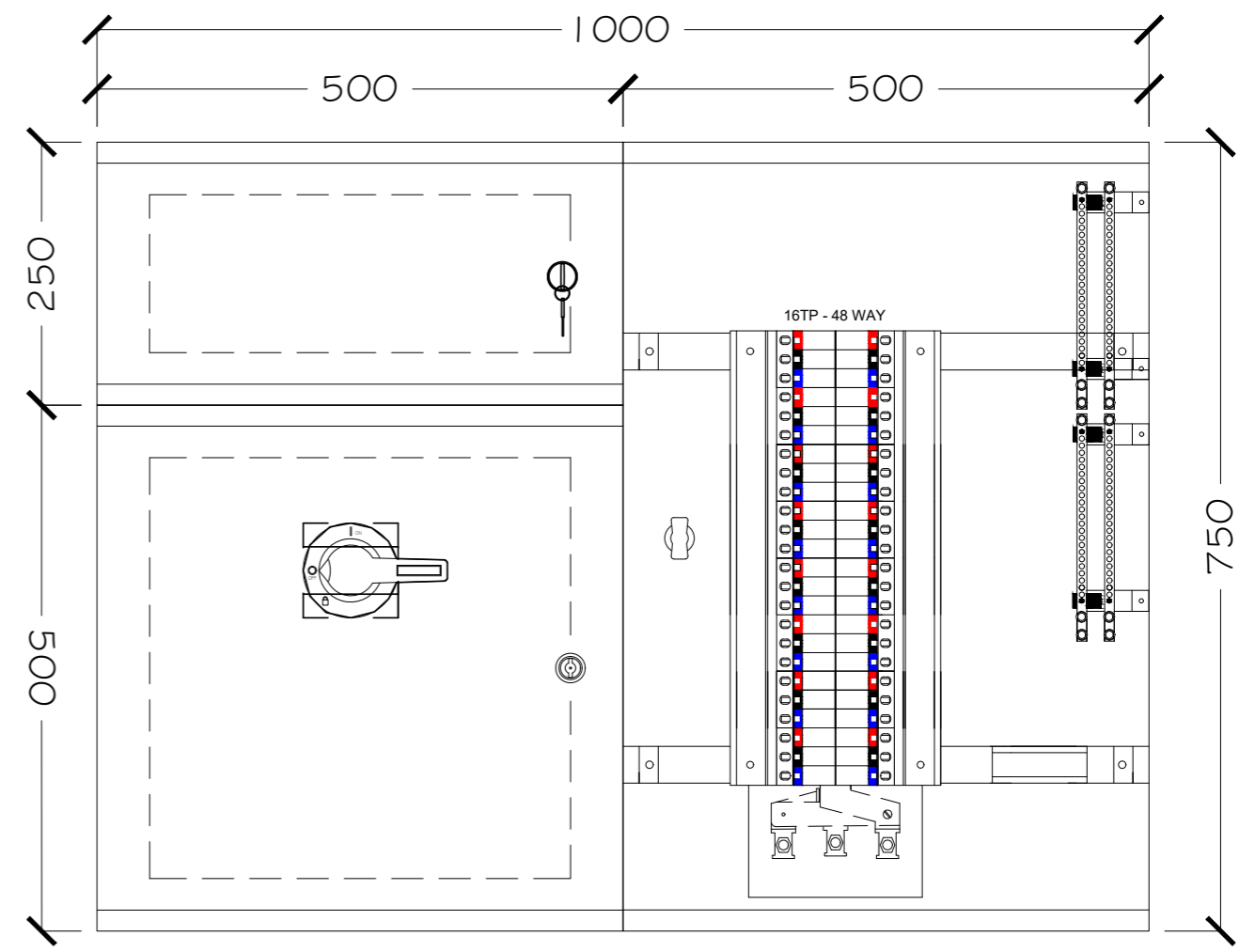


**SB752**

Dimensions	Chassis	MCCB	Additional
750H x 1000W x 165D	48 way pan assembly	160A	Control Space 250H x 500W

This switchboard is ideal for small to medium commercial and retail applications which may need some control wiring. It comes complete with a 48 way chassis, space for control wiring and a 200A isolator.

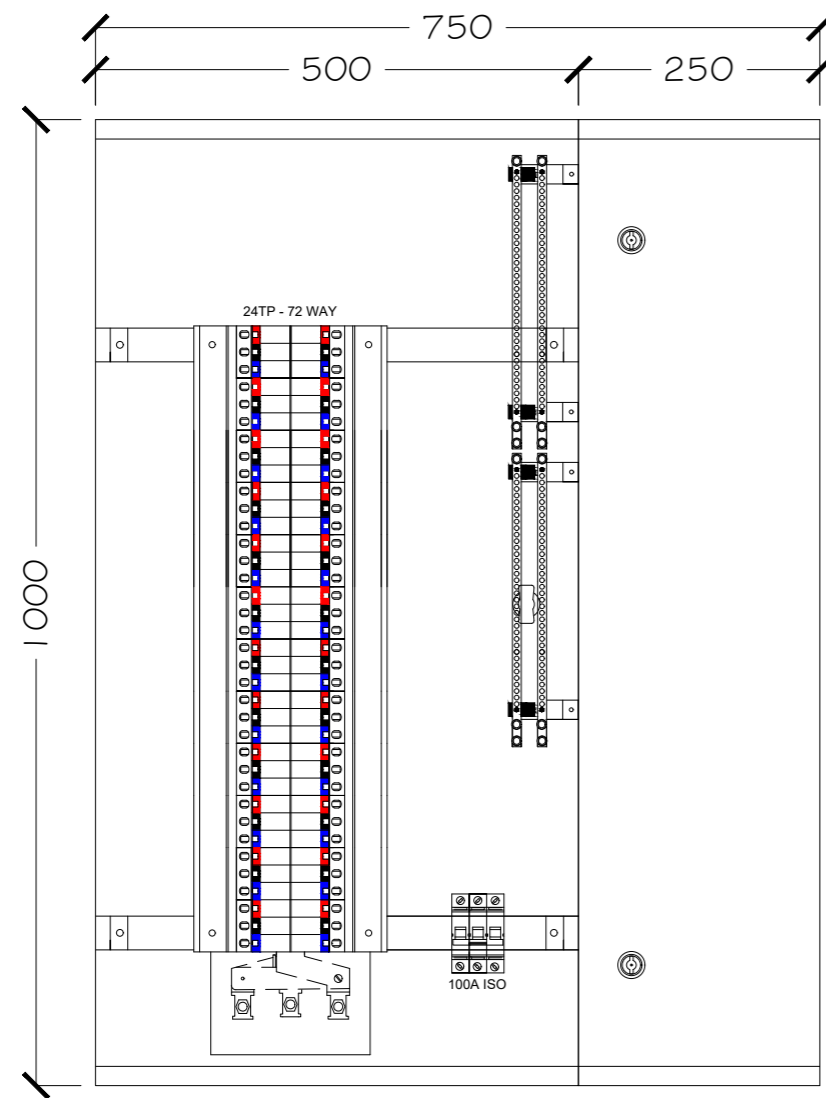
See accessories page for available control kits.



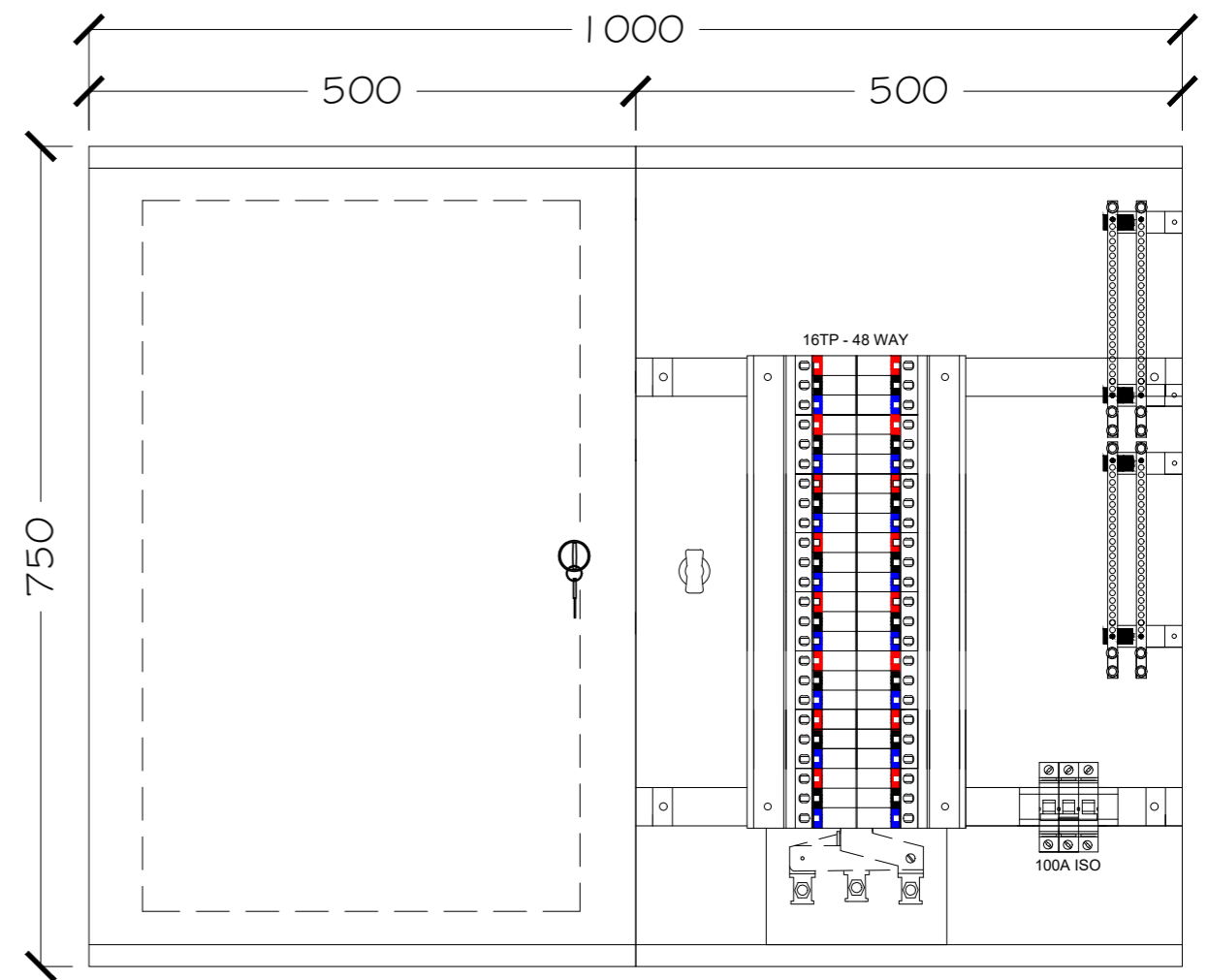
**SB753**

Dimensions	Chassis	Isolator	Additional
750H x 1000W x 165D	48 way pan assembly	200A	Control Space 250H x 500W

This switchboard is suitable for small to medium commercial and retail applications. The duct space is great for speeding up install time and for tailing down larger incoming cables. This board comes with a 100A isolator and needs overload protection supplied from fuses or an MCCB.



This switchboard comes with an extra-large control space and a 48 way chassis. It comes with a 100A isolator and needs overload protection from fuses or an MCCB. This board is ideal for your small to medium sized commercial and retail installs.



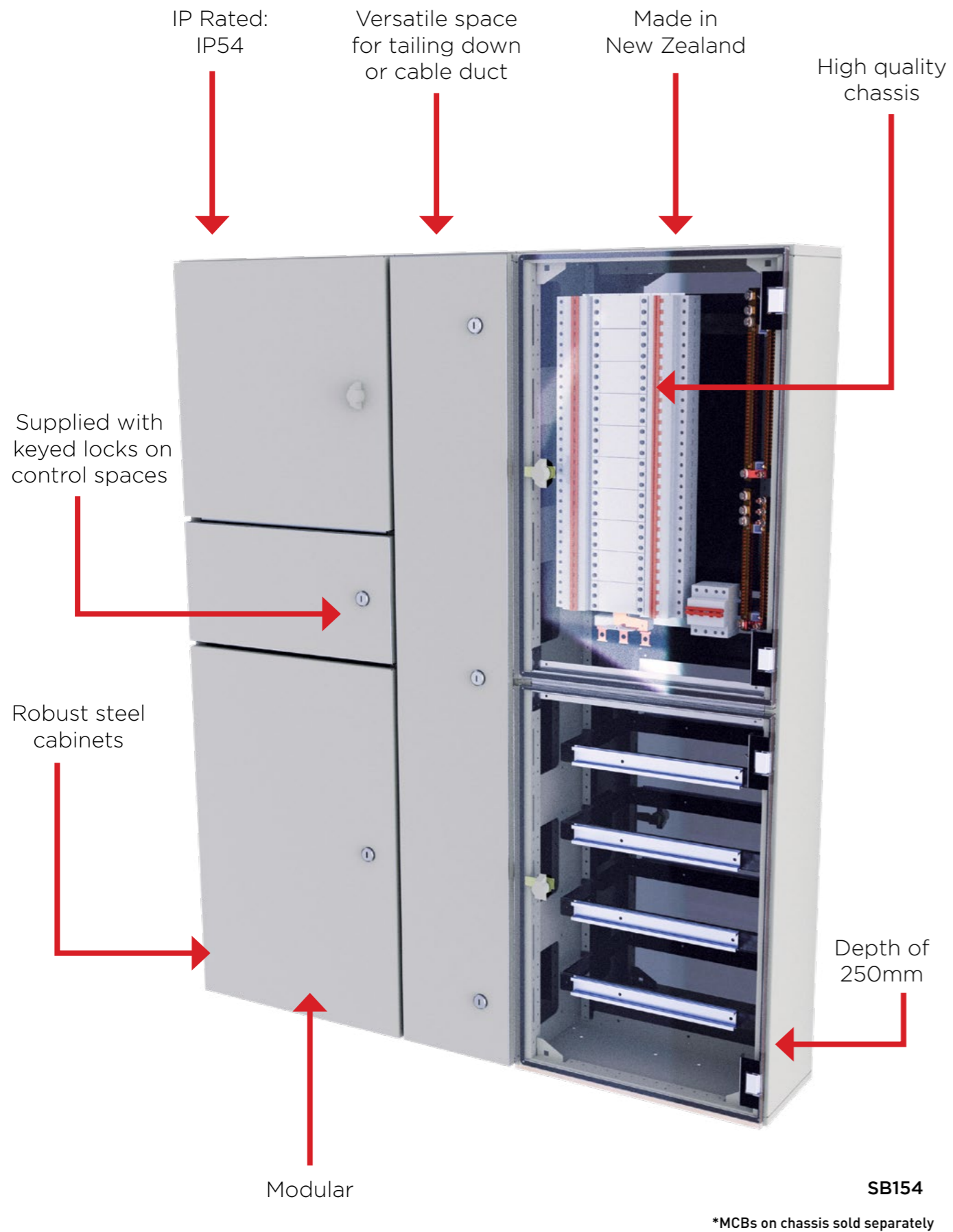
**SB101**

Dimensions	Chassis	Isolator	Additional
1000H x 750W x 165D	72 way pan assembly	100A	Duct 1000H x 250W

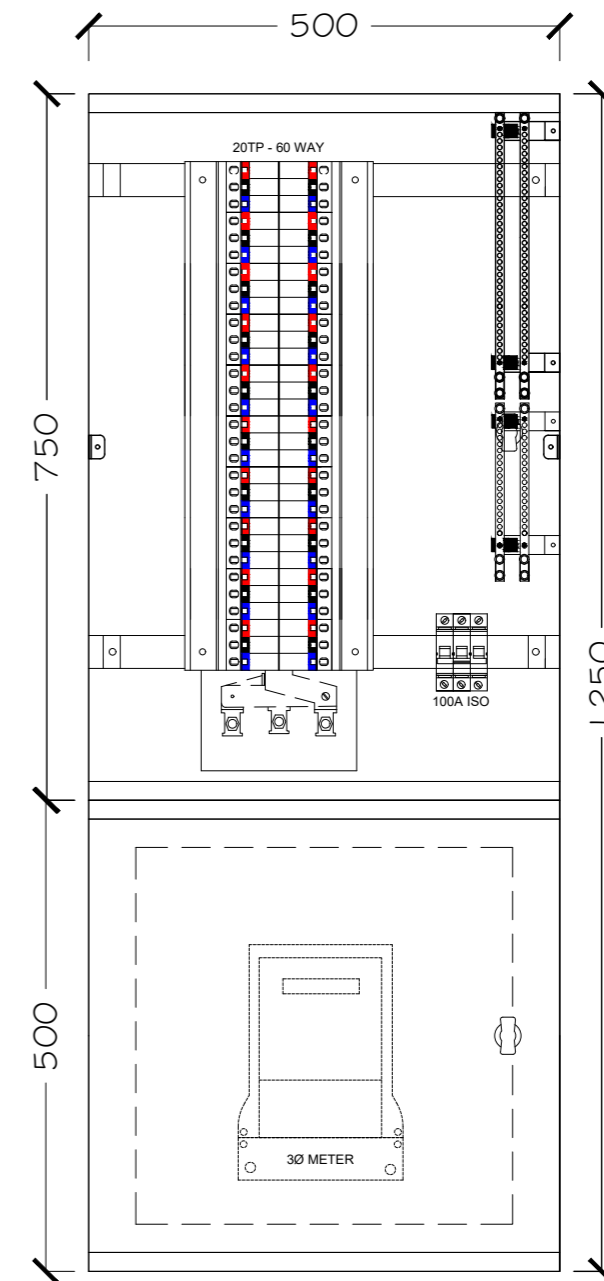
**SB751**

Dimensions	Chassis	Isolator	Additional
750H x 1000W x 165D	48 way pan assembly	100A	Control Space 750H x 500W





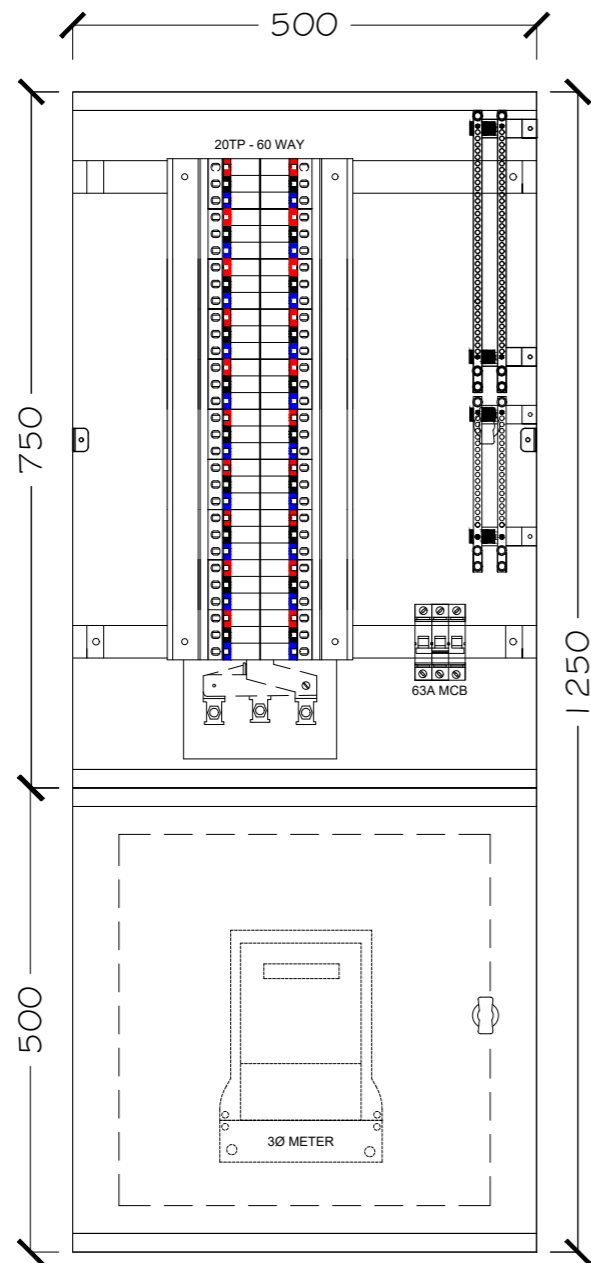
This switchboard is designed for small to medium retail and commercial premises. It has a chassis position that allows for TPS cables to exit from the top of the board. It comes with a 100A isolator and needs overload protection supplied from fuses or an MCCB. It is prewired for a three phase meter, and comes with a clear cover for the meter panel.



SB121			
Dimensions	Chassis	Isolator	Additional
1250H x 500W x 250D	60 way pan assembly	100A	Meter Space 500H x 500W

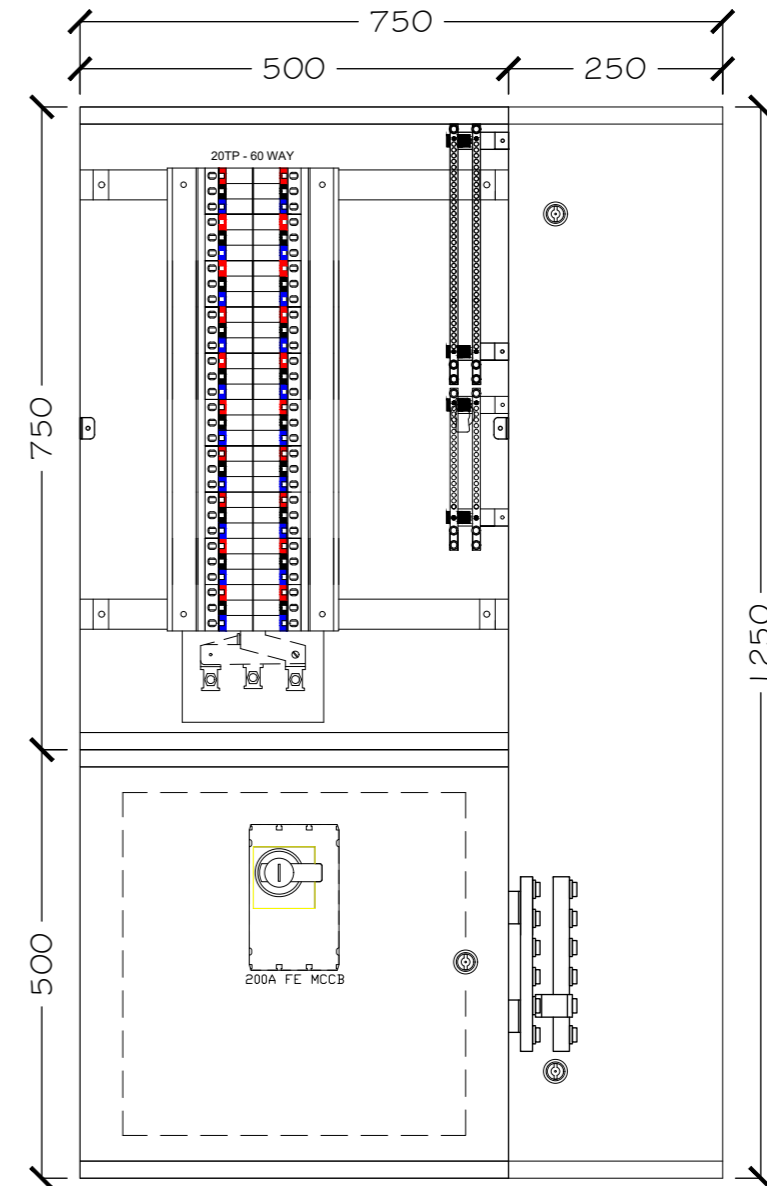
This switchboard is identical to the SB121 but has a 63A MCB for premises that don't have overload protection from fuses or an MCCB. It is also prewired for a three phase meter, and comes with a clear cover for the meter panel.

See accessories page for available control kits.



This switchboard is designed for small to medium commercial and retail applications. It allows for easy installation with plenty of cabinet space surrounding the 60 way chassis. There is ample duct space, great for speeding up install time and for tailing down larger incoming cables. The large MCCB can handle lugs up to 25mm wide and has a 160A to 200A overload range.

See accessories page for available control kits.



SB121B

Dimensions	Chassis	MCB	Additional
1250H x 500W x 250D	60 way pan assembly	63A	Meter Space 500H x 500W

SB122

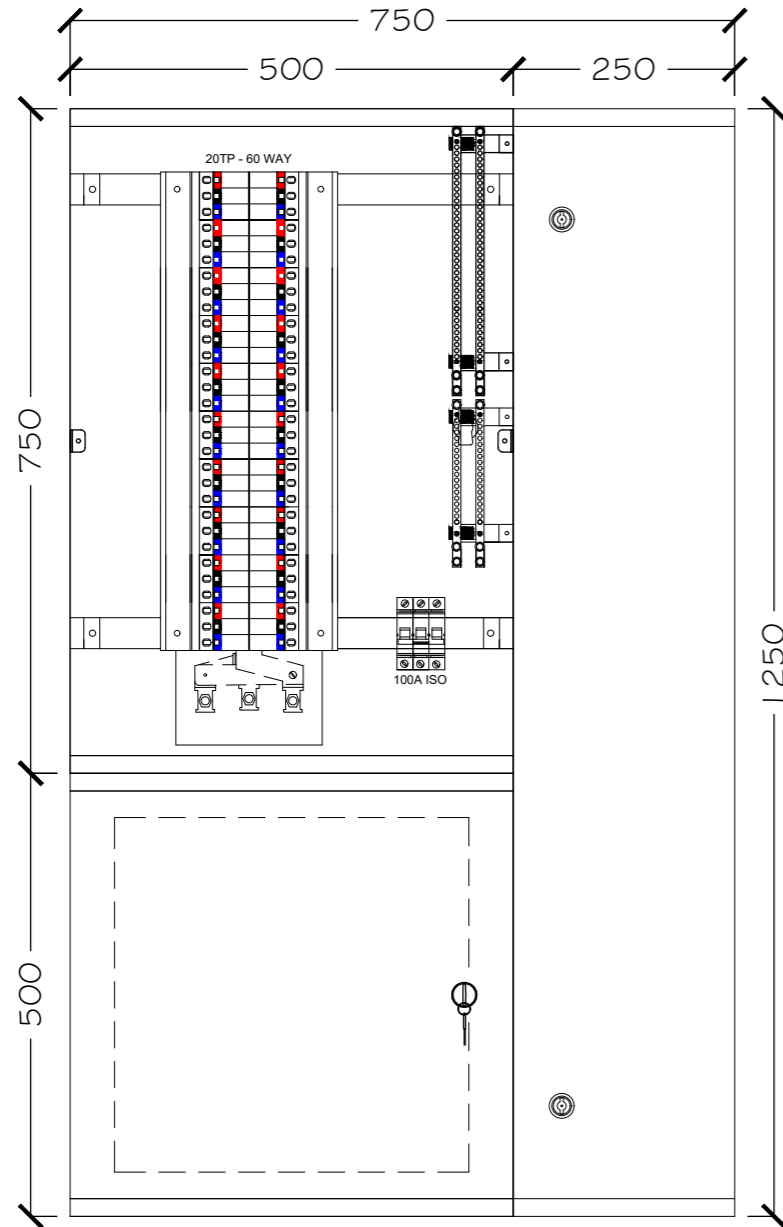
Dimensions	Chassis	MCCB	Additional
1250H x 750W x 250D	60 way pan assembly	200A	Duct 1250H x 250W

# SB123

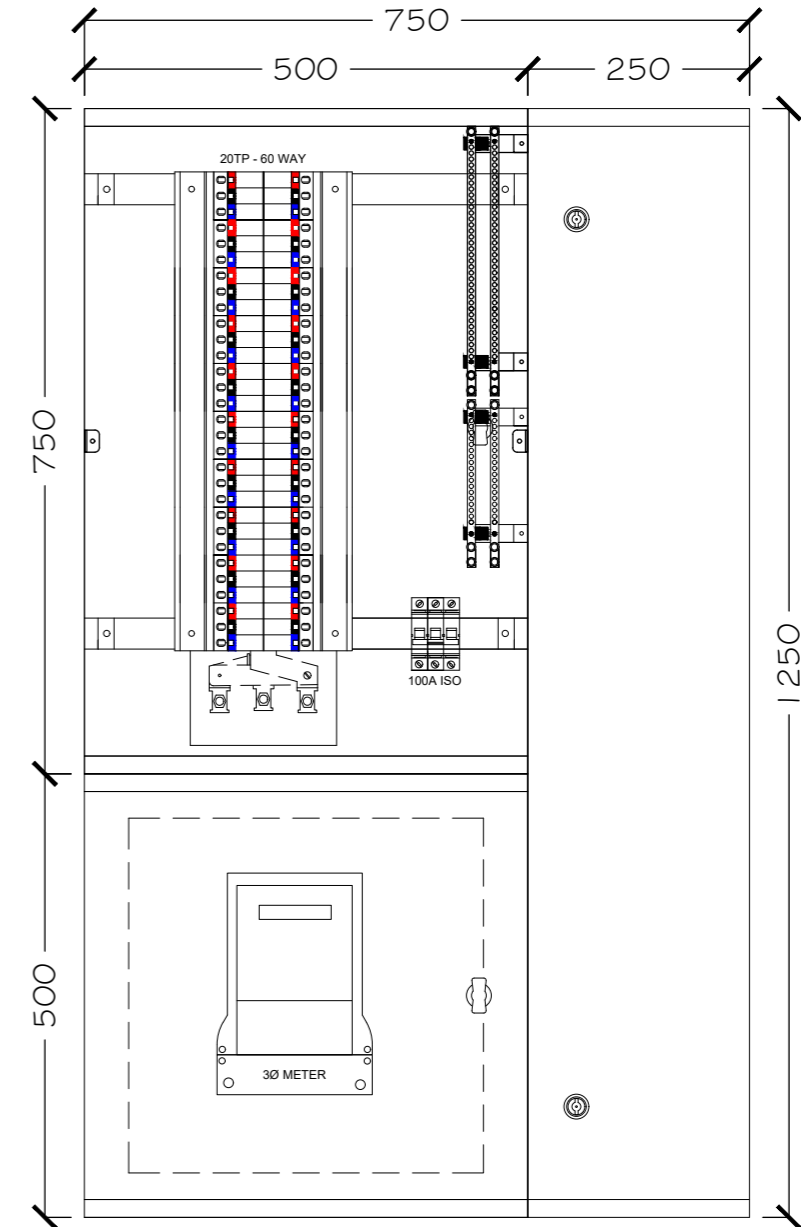
# SB124

This switchboard is designed for small commercial premises. The duct space is great for speeding up install time and for tailing down larger incoming cables. It comes with a generous 500x500mm space for control wiring.

See accessories page available control kits.



This switchboard is designed for small to medium retail and commercial premises. It has a chassis position that allows for TPS cables to exit from the top of the board. It comes with a 100A isolator and needs overload protection supplied from fuses or an MCCB. The duct space is great for speeding up install time and for tailing down larger incoming cables, and it comes prewired for a three phase meter. It also comes with a clear cover for the meter panel.



## SB123

Dimensions	Chassis	Isolator	Additional
1250H x 750W x 250D	60 way pan assembly	100A	Control Space 500H x 500W Duct 1250H x 250W

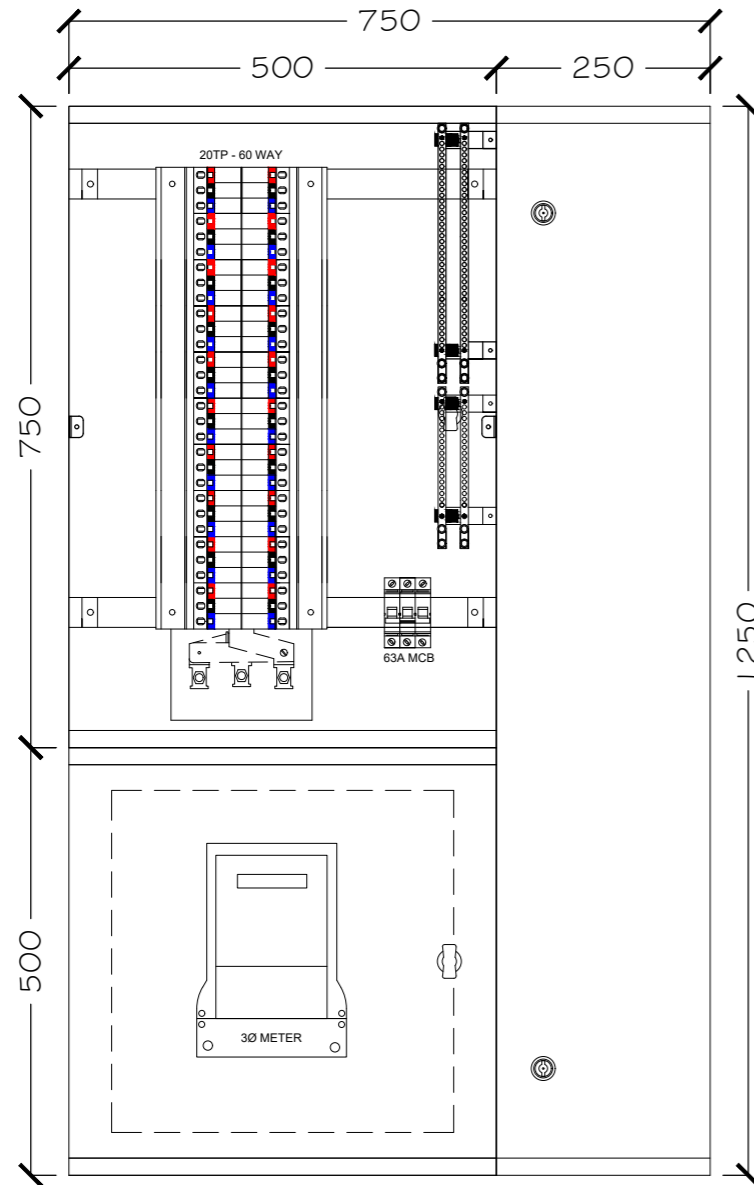
## SB124

Dimensions	Chassis	Isolator	Additional
1250H x 750W x 250D	60 way pan assembly	100A	Meter Space 500H x 500W Duct 1250H x 250W

# SB124B

This board is identical to the SB124 but has a 63A MCB for premises that don't have overload protection from fuses or MCCB. It comes prewired for a three phase meter, and comes with a clear cover for the meter panel.

See accessories page for available control kits.



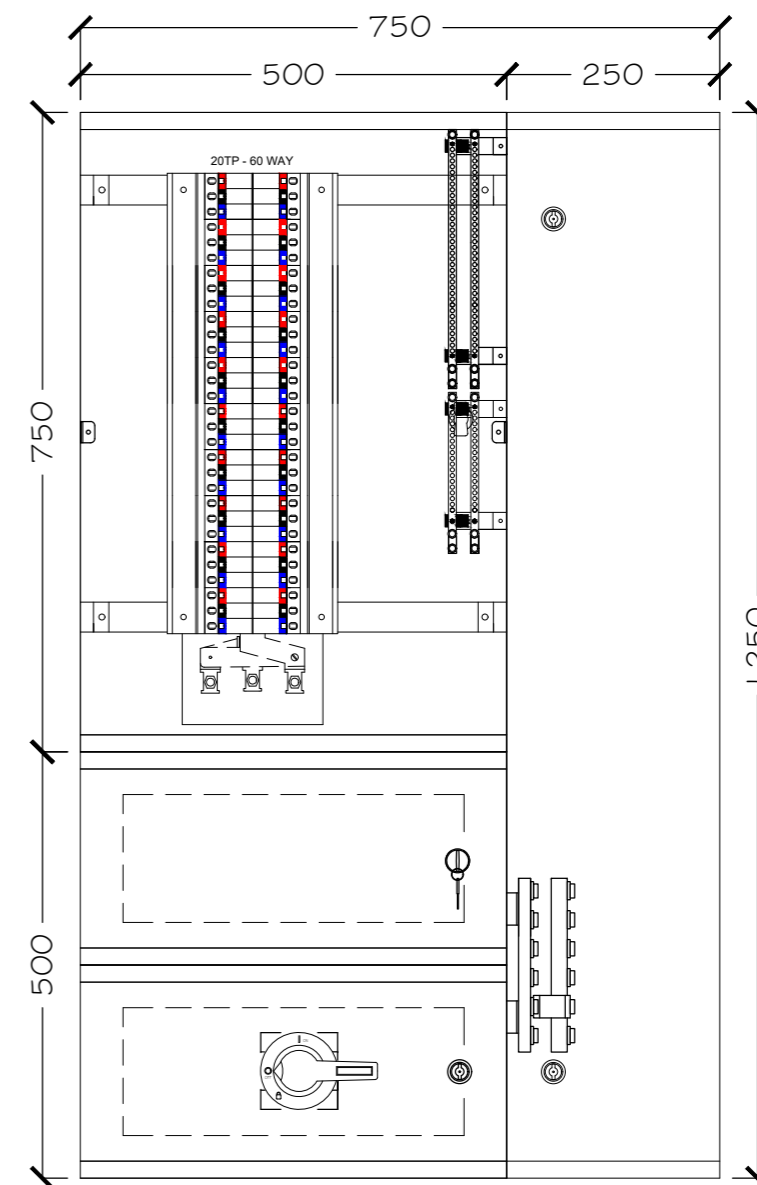
## SB124B

Dimensions	Chassis	MCB	Additional
1250H x 750W x 250D	60 way pan assembly	63A	Duct 1250H x 250W Meter Space 500H x 500W

# SB125

This switchboard is ideal for small to medium commercial and retail applications. The duct space is great for speeding up install time and tailing down larger incoming cables and also comes with space for controls. This board will need to be fed from fuses or an MCCB for overload protection. It comes complete with a load break switch with 200A max current rating and 20mm wide lugs can be fitted.

See accessories page for available control kits.



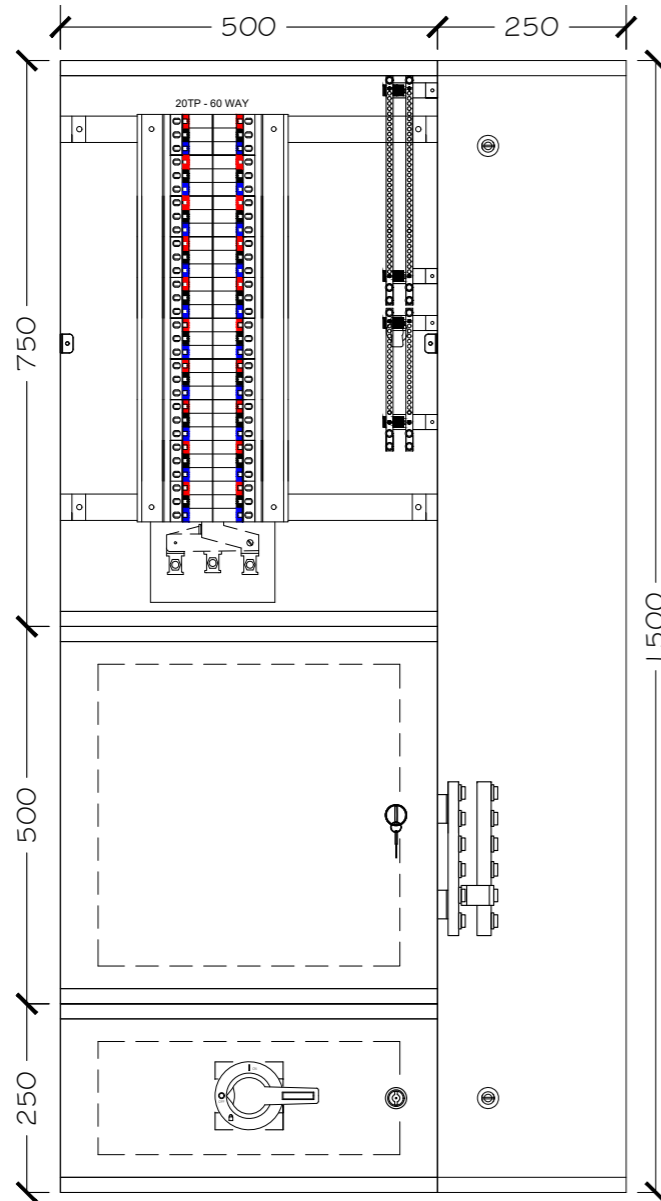
## SB125

Dimensions	Chassis	Isolator	Additional
1250H x 750W x 250D	60 way pan assembly	200A	Control Space 250H x 500W Duct 1250H x 250W

# SB151

This switchboard is ideal when you need more space for control wiring, with a generous 500x500mm lockable cabinet. The duct space is great for speeding up install time and tailing down larger incoming cables and also comes with space for controls. It comes complete with a load break switch with 200A max current rating and 20mm wide lugs can be fitted.

See accessories page for available control kits.



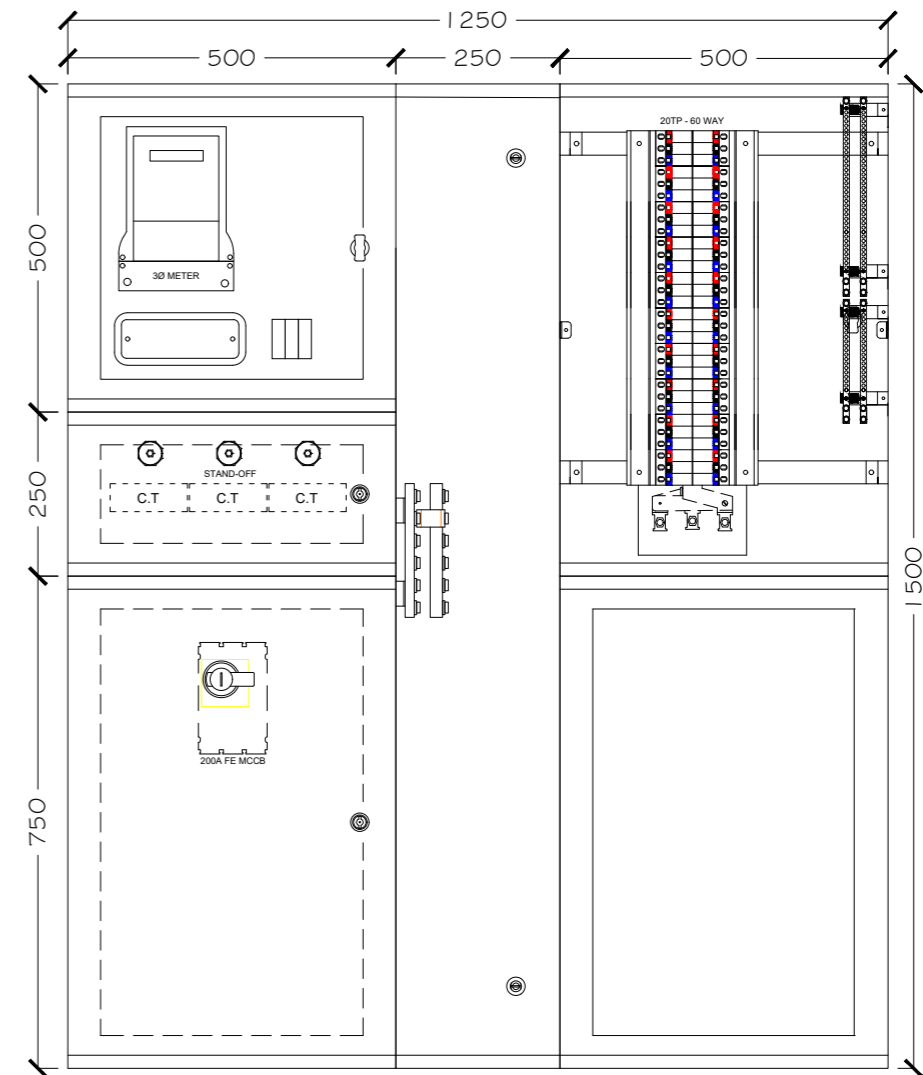
## SB151

Dimensions	Chassis	Isolator	Additional
1500H x 750W x 250D	60 way pan assembly	200A	Control Space 500H x 500W Duct 1250H x 250W

# SB152

This switchboard is ideal for medium to large commercial or retail premises, such as cafes, a small school, or small office/retail spaces. There is ample space for exiting the TPS cable from either the top or bottom of the board. This switchboard comes complete with a compliant CT chamber with sealable stud. The large MCCB can handle lugs up to 25mm wide and has a 160A to 200A overload range. It also comes with a clear cover for the meter panel.

See accessories page for available control kits.



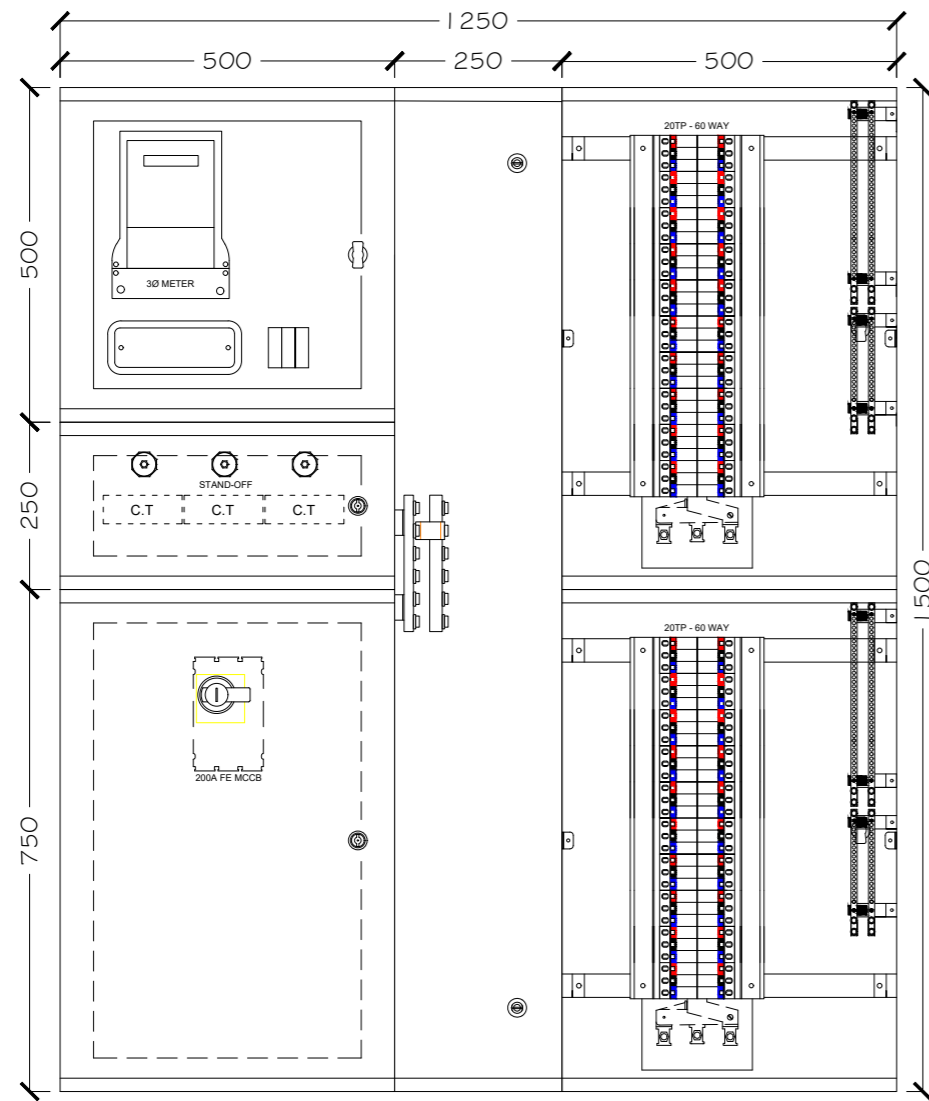
## SB152

Dimensions	Chassis	MCCB	Additional
1500H x 1250W x 250D	60 way pan assembly	200A	CT Chamber 250H x 500W Duct 1500H x 250W Control Space 750H x 500W Meter Space 500H x 500W

# SB153

This switchboard is similar to SB152, but allows for plenty of subcircuits with two 60 way pan assemblies. This switchboard comes complete with a compliant CT chamber with sealable stud. The large MCCB can handle lugs up to 25mm wide and has a 160A to 200A overload range. It also comes with a clear cover for the meter panel.

See accessories page for available control kits.



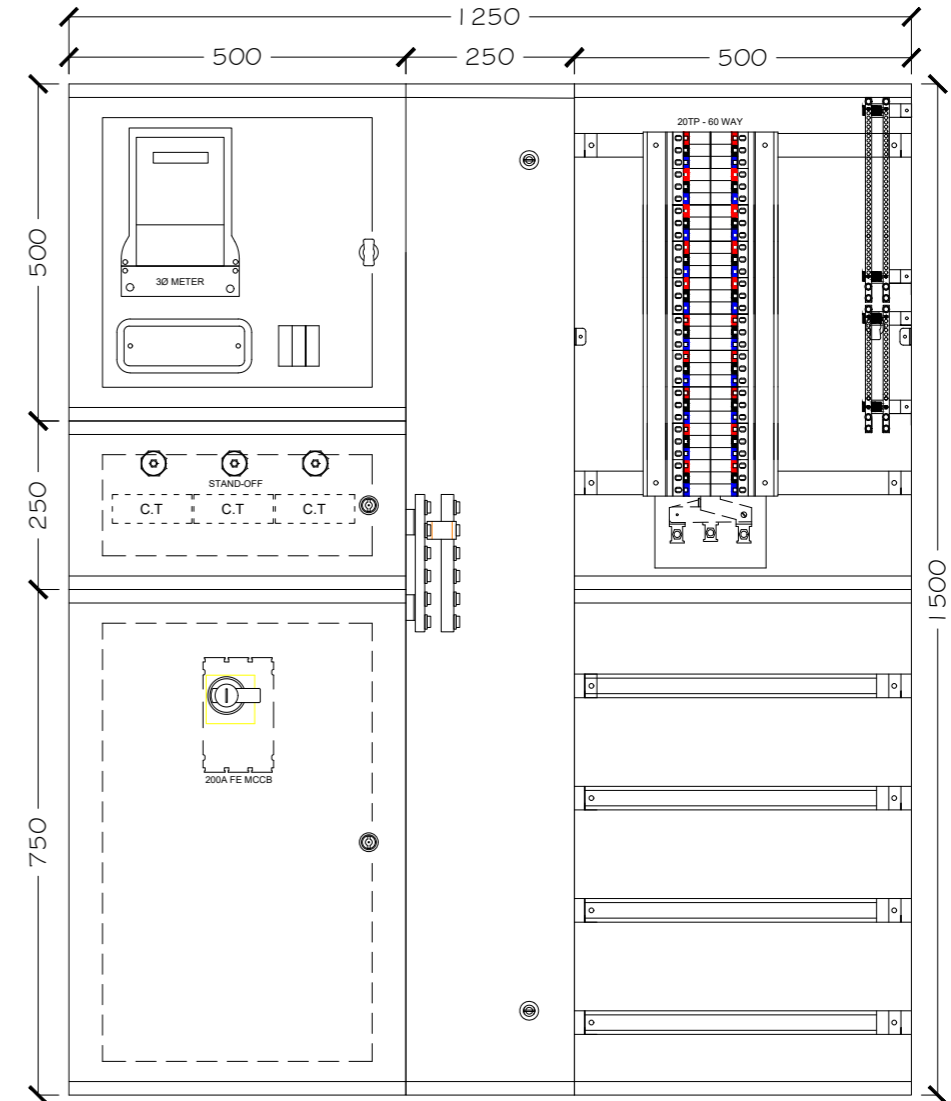
## SB153

Dimensions	Chassis	MCCB	Gear Tray	Additional
1500H x 750W x 250D	2 x 60 way pan assembly	200A	750H x 500W	CT Chamber 250H x 500W Duct 1500H x 250W Meter Space 500H x 500W

# SB154

This switchboard is ideal for medium to large commercial sites. With 72 ways of DIN rail space, there is plenty of space for RCDs and lighting controls like C-Bus or other DIN mounted control gear. This switchboard comes complete with a compliant CT chamber with sealable stud. The large MCCB can handle lugs up to 25mm wide and has a 160A to 200A overload range. It also comes with a clear cover for the meter panel.

See accessories page for available control kits.

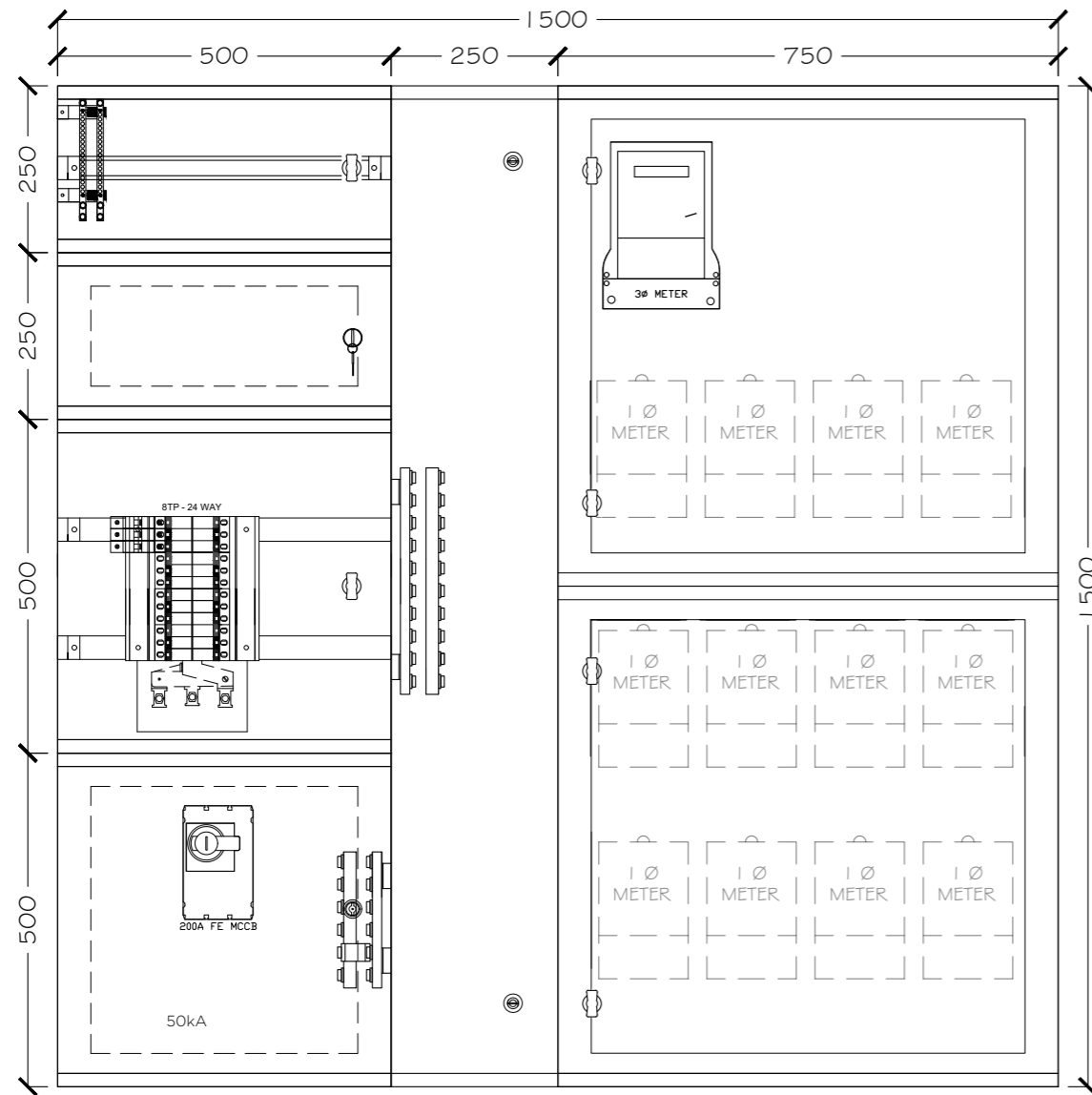


## SB154

Dimensions	Chassis	MCCB	Additional
1500H x 1250W x 250D	60 way pan assembly	200A	72 ways of DIN Rail Space CT Chamber 250H x 500W Duct Space 1500H x 250W Meter Space 500H x 500W

This switchboard is designed to accommodate apartments or retail premises. This board can be wired up to 12 single phase meters or 7 three phase meters and comes with a prewired three phase landlord meter. This switchboard comes with clear covers for the meter panels.

See accessories page for available control kits and meter wiring kit.

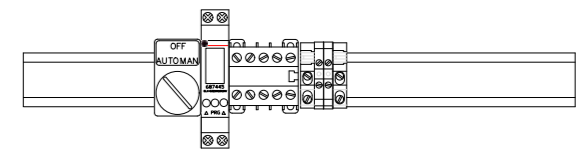
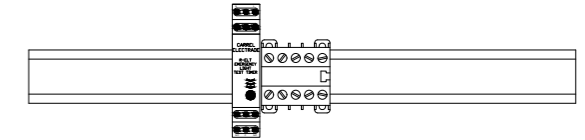


**SB155**

Dimensions	Chassis	MCCB	Additional
1500H x 1500W x 250D	24 way pan assembly	200A	18 ways of DIN Rail Space Duct Space 1500H x 250W Control Space 250H x 500W

**Lighting Kit**

Code	Description	Control
SBELTK	Emergency lighting kit comes on DIN rail for easy installation into control space, fed with power from an MCB. The test button is built into the unit.	Up to 4 circuits switched
SBEXTK	Exterior lighting kit comes on DIN rail for easy installation into control space. It comes with a 7 day timer, termination for daylight sensor and manual bypass.	Up to 4 circuits switched



**Wiring Kits**

Code	Description	Comes with
SBCTK	Comes with all that you need to connect current transformers in your Onboard Programme switchboard. Compliant to Wells CT wiring standards.	3 x S1 2.5mm red white blue cables 2m 3 x S2 2.5mm red white blue cables 2m 3 x 6.0mm red white blue cables 2m Supplied with standard CT wiring diagram.
SBMK	Ideal for connecting meters in your SB155 switchboard. One kit is able to wire three single phase meters or one three phase meter.	1x 10mm red cable 2.5m* 1x 10mm white cable 2.5m* 1x 10mm blue cable 2.5m* 3x loose ferrules *Ferrule on one end, other end unferruled. **1P or 3P MCB (up to 63A) to be purchased separately

\*Both Lighting and Wiring kits come prewired ready for circuit connection and a wiring diagram.

## Tunnel Bar Assemblies

Code	Ways	Amps	Maximum Cable Size	Stud Size
MB50700	12 Way	100A	16mm <sup>2</sup>	M6
MB50701	18 Way	100A	16mm <sup>2</sup>	M6
MB50702	24 Way	100A	16mm <sup>2</sup>	M6
MB50703	36 Way	100A	16mm <sup>2</sup>	M6
MB50725	24 Way	200A	50mm <sup>2</sup>	M8
MB50726	36 Way	200A	50mm <sup>2</sup>	M8
MB50727	48 Way	200A	50mm <sup>2</sup>	M8
MB50728	60 Way	200A	50mm <sup>2</sup>	M8



## Stud Bar

Code	Ways	Amps	Maximum Cable Size
SB062025	6 Way	200A	90mm
SB102025	10 Way	200A	90mm
SB064025	6 Way	400A	90mm
SB104025	10 Way	400A	90mm



## Blanks

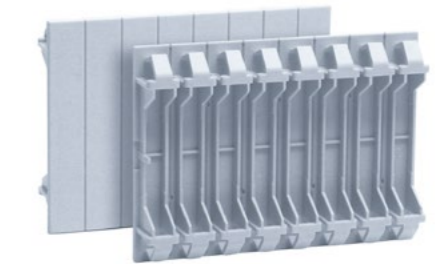
Code	Description	Lengths	Colour
828056	Blanking Strip	1 Meter	White
610142	Modular Blanks	1 Strip = 4 Way	White



828056

## Brackets

Code	Description
SBBRMP00	Masking Panel Bracket
SBBRWM00	Wall Mount Bracket
SBBRL000	"L" Brackets



610142



SBBRMP00

## Handles

Code	Description
MB50601	Lever Key Lock
MB50602	3mm Bit Lock
MB50604	Lever Handle
MB50605	Key Lock



MB50601



MB50605



**Combination Chassis/DIN Masking Panels**

Code	Dimensions (mm)	Material	To Suit (Chassis)	To Suit (DIN)
SBCC7550	750H x 500W	PVC	60 Way	36 Way
SBCC1050	1000H x 500W	PVC	72 Way	36 Way



**DIN Rail Masking Panels**

Code	Dimensions (mm)	Material	To Suit (DIN)
SBDC2550	250H x 500W	PVC	36 Way
SBDC5050	500H x 500W	PVC	108 Way
SBDC7550	750H x 500W	PVC	144 Way
SBDC1050	1000H x 500W	PVC	216 Way



**Offset Chassis Masking Panels**

Code	Dimensions (mm)	Material	To Suit (Chassis)
SBOC5050	500H x 500W	PVC	36 Way
SBOC5075	500H x 750W	PVC	36 Way
SBOC7550	750H x 500W	PVC	60 Way
SBOC7575	750H x 750W	PVC	60 Way
SBOC1050	1000H x 500W	PVC	72 Way
SBOC1075	1000H x 750W	PVC	72 Way



**Plain Masking Panels**

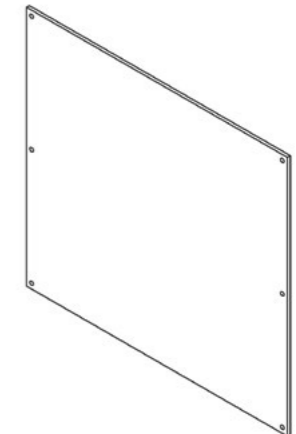
Code	Dimensions (mm)	Material
SBPC2550	250H x 500W	PVC
SBPC5050	500H x 500W	PVC
SBPC7550	750H x 500W	PVC
SBPC1050	1000H x 500W	PVC



**Gear Trays**

Code	Dimensions (mm)	Material
SBGT2550	250H x 500W	Pertinax
SBGT5025	500H x 250W	Pertinax
SBGT5050	500H x 500W	Pertinax
SBGT7550	750H x 500W	Pertinax
SBGT7575	750H x 750W	Pertinax
SBGT1050	1000H x 500W	Pertinax

\*Available to order in other sizes, please contact customer services for information.



**Clear Panels**

Code	Dimensions (mm)	Material
SBCP1050	1000H x 500W	Polycarbonate
SBCP1075	1000H x 750W	Polycarbonate
SBCP2550	250H x 500W	Polycarbonate
SBCP2575	250H x 750W	Polycarbonate
SBCP5050	500H x 500W	Polycarbonate
SBCP5075	500H x 750W	Polycarbonate
SBCP7550	750H x 500W	Polycarbonate
SBCP7575	750H x 750W	Polycarbonate

## Forme Series Custom Solutions

PDC operates two switchboard building workshops; Auckland and Christchurch. If your project needs a bespoke switchboard or changes to our standard premade switchboard range, our in-house team can quote and build any solution you may need.

Please complete the pages that follow to help ensure your quote is turned around within 48 hours. Once your information is complete, please scan and send these pages to [sales@pdc.co.nz](mailto:sales@pdc.co.nz)





**ELECTRICAL ENGINEERED SOLUTIONS**

**Customer Details**

Contact Name: \_\_\_\_\_ Company: \_\_\_\_\_

---

Project: \_\_\_\_\_

---

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

---

End user/Contractor: \_\_\_\_\_ Phone: \_\_\_\_\_

---

**Main Details (Please Circle Applicable Option)**

IP rating:

Mains cable entry point:

Incoming Mains Cable Size:

Main isolator model rating (up to 630A):

Main isolator extended handle:

Plinth required:

Enclosure maximum Height/Width: (mm) (250mm increment)

Surge diverter:

Add empty cabinet/space:

Chassis quantity: (Please provide DB schedule for each chassis)

List MCB requirements here:

Revenue metering:

<b>IP54</b>		<b>Above IP54</b>	
<b>Top</b>		<b>Bottom</b>	
<b>Under 50mm<sup>2</sup></b>	<b>95mm<sup>2</sup></b>	<b>120mm<sup>2</sup></b>	<b>Over 240mm<sup>2</sup></b>
<b>Load Break</b>	<b>Amp?</b>	<b>MCCB</b>	<b>Amp?</b>
<b>YES</b>		<b>NO</b>	
<b>YES</b>		<b>NO</b>	
<b>Height</b>		<b>Width</b>	
<b>YES</b>		<b>NO</b>	
<b>YES</b>	<b>SIZE?</b>	<b>Height</b>	<b>Width</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>YES</b>		<b>NO</b>	

**Additional Information**

Emergency lighting:

Lighting controls:

Cable zone/duct required:

Would you like a call from our technical team?

Please state any special requirements: e.g. labels, controls, check metering, KA rating.

<b>YES</b>	<b>NO</b>
<b>YES</b>	<b>NO</b>
<b>YES</b>	<b>NO</b>
<b>YES</b>	<b>NO</b>



**ELECTRICAL ENGINEERED SOLUTIONS**

If you have a specific layout or other requirements, please provide a sketch and details on these pages.



**Head Office  
Christchurch**

PO Box 9022  
388 - 396 Tuam Street  
Christchurch 8011  
P +64 3 335 0366  
F +64 3 335 0980  
E sales@pdc.co.nz

**Auckland**

PO Box 12 249, Penrose  
9 Levene Place, Mt  
Wellington, Auckland 1060  
P +64 9 525 6051  
F +64 9 525 5799  
www.pdc.co.nz

## CIRCUIT CHART

CIRCUIT NUMBER	CURRENT RATING	DESCRIPTION	CIRCUIT NUMBER	CURRENT RATING	DESCRIPTION
R1			R2		
W1			W2		
B1			B2		
R3			R4		
W3			W4		
B3			B4		
R5			R6		
W5			W6		
B5			B6		
R7			R8		
W7			W8		
B7			B8		
R9			R10		
W9			W10		
B9			B10		
R11			R12		
W11			W12		
B11			B12		
R13			R14		
W13			W14		
B13			B14		
R15			R16		
W15			W16		
B15			B16		
R17			R18		
W17			W18		
B17			B18		
R19			R20		
W19			W20		
B19			B20		
R21			R22		
W21			W22		
B21			B22		
R23			R24		
W23			W24		
B23			B24		

This brochure is intended as a guide. All drawings are indicative only, may not be to scale, and are subject to change without notice. All switchboards should be installed by New Zealand Registered Electricians. PDC disclaims any damages or costs incurred from incorrectly installed switchboards.

## **CHRISTCHURCH**

PO BOX 9022  
Tower Junction  
Christchurch 8149

388-396 Tuam Street  
Phillipstown  
Christchurch 8011  
New Zealand  
P (+64) 3 335 0366  
F (+64) 3 335 0980  
E [sales@pdc.co.nz](mailto:sales@pdc.co.nz)

**[pdc.co.nz](http://pdc.co.nz)**

## **AUCKLAND**

PO BOX 12 249  
Penrose  
Auckland 1061

9 Levene Place  
Mount Wellington  
Auckland 1060  
New Zealand  
P (+64) 9 526 7881  
F (+64) 9 525 5799  
E [sales@pdc.co.nz](mailto:sales@pdc.co.nz)