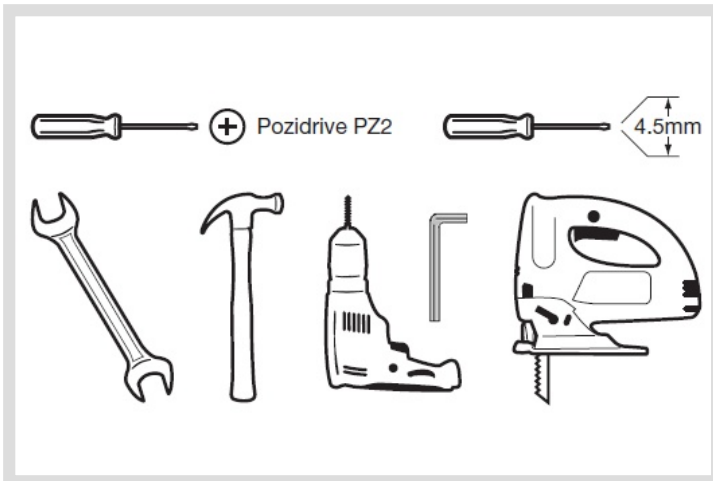


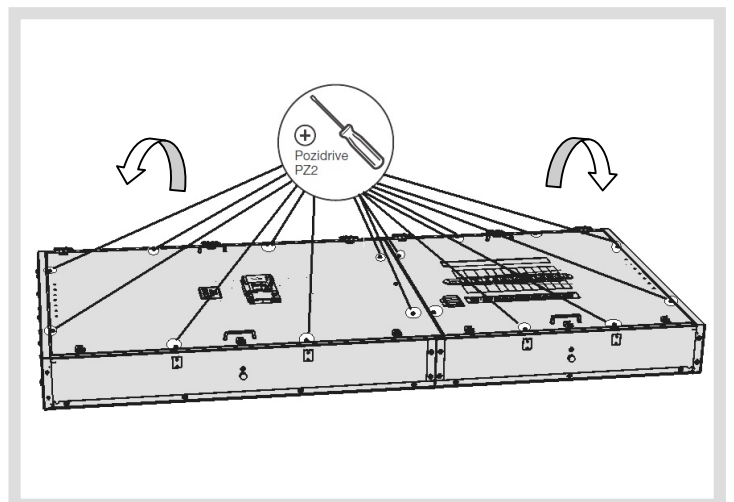
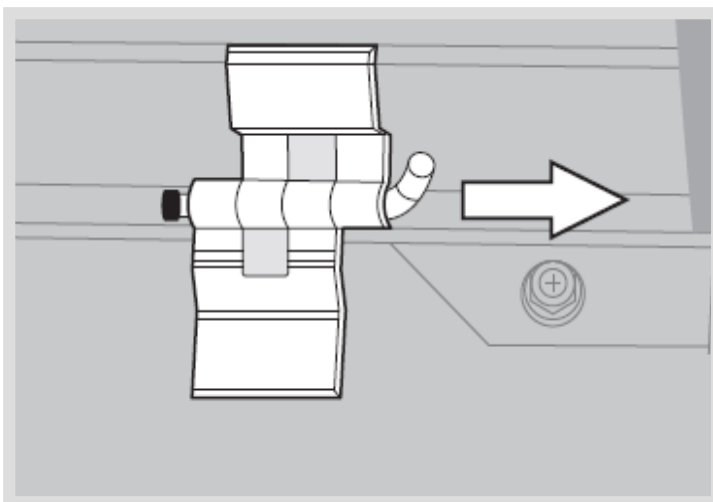
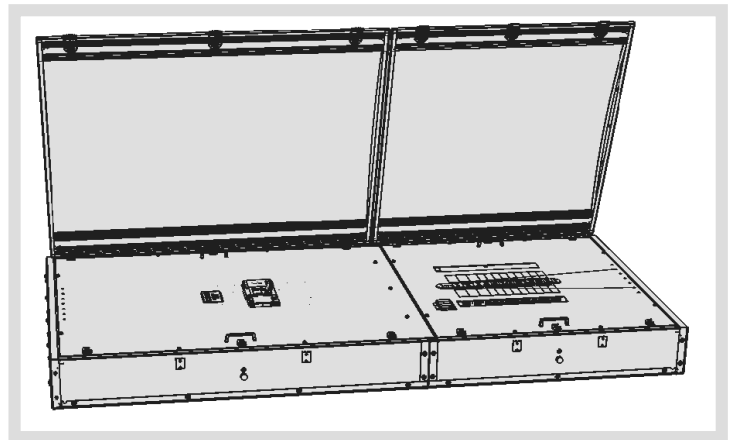
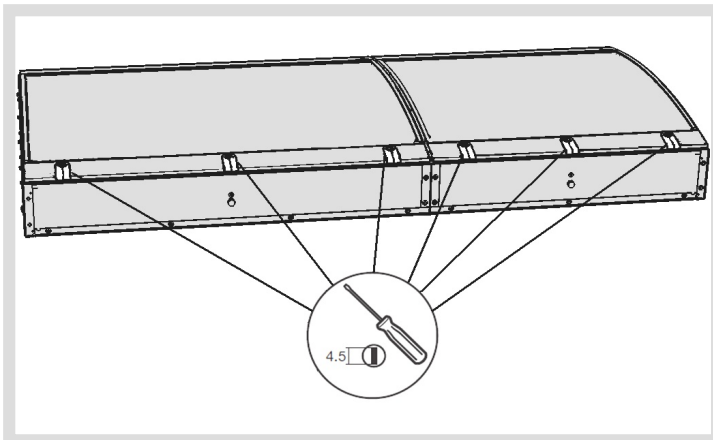
Invicta 3 - 800A MCCB Panelboard

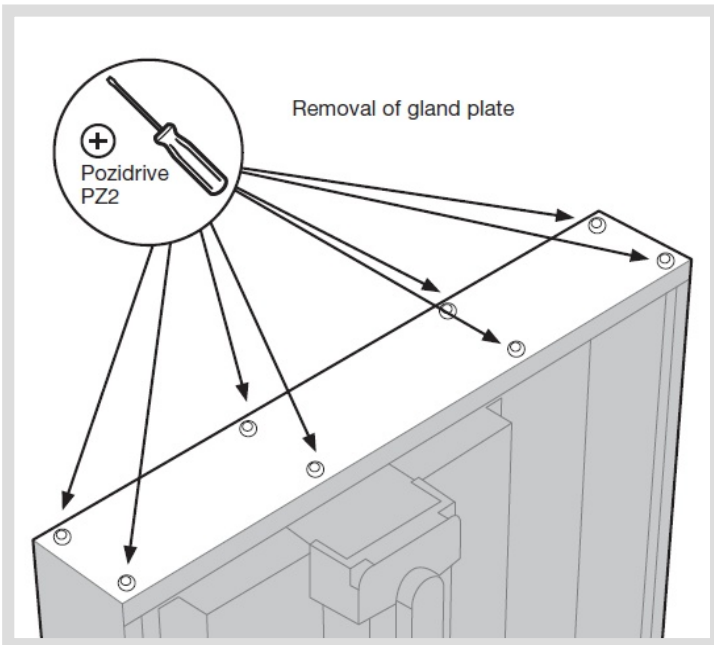
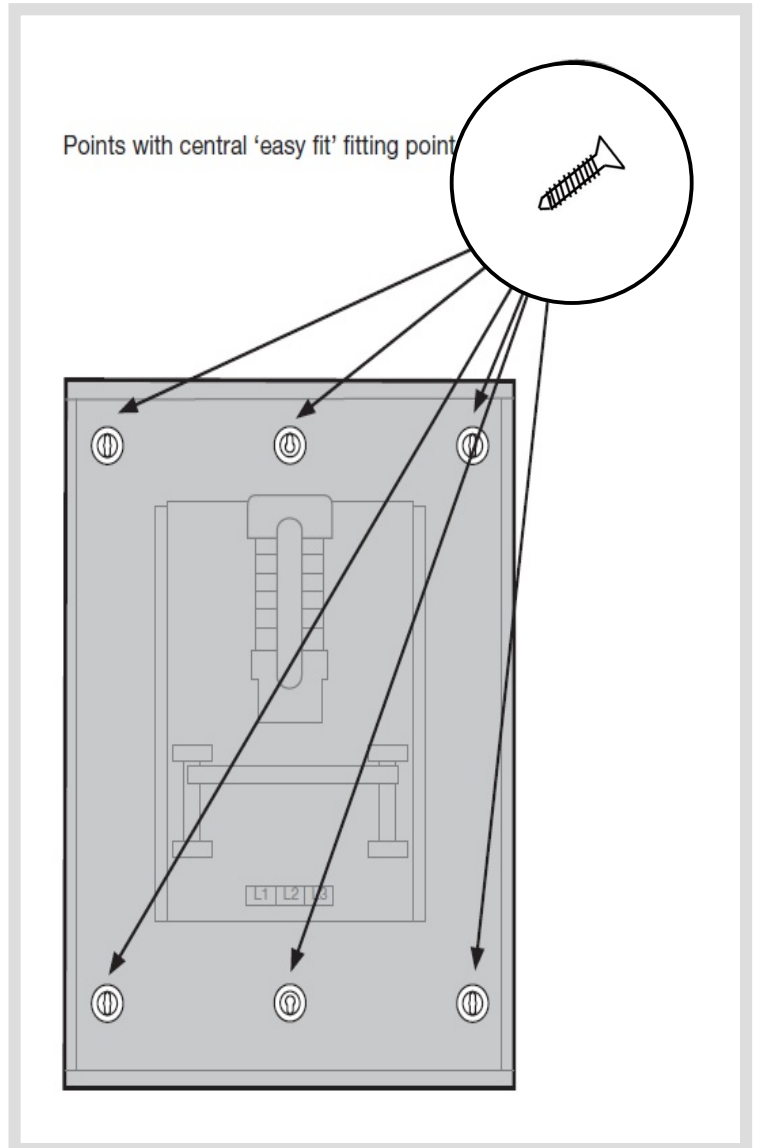
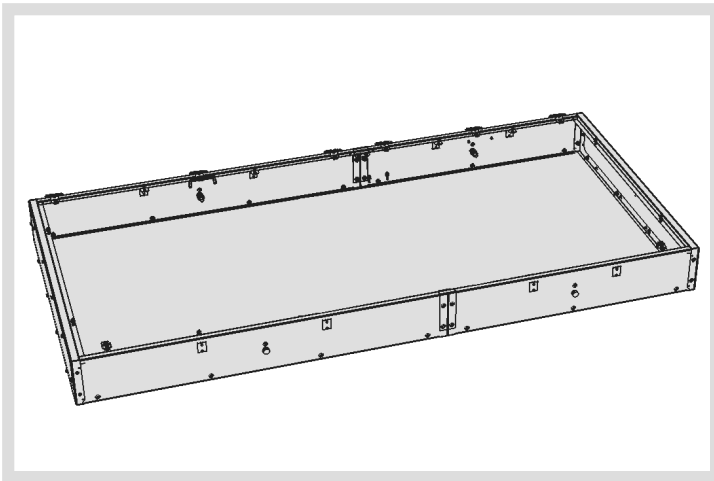
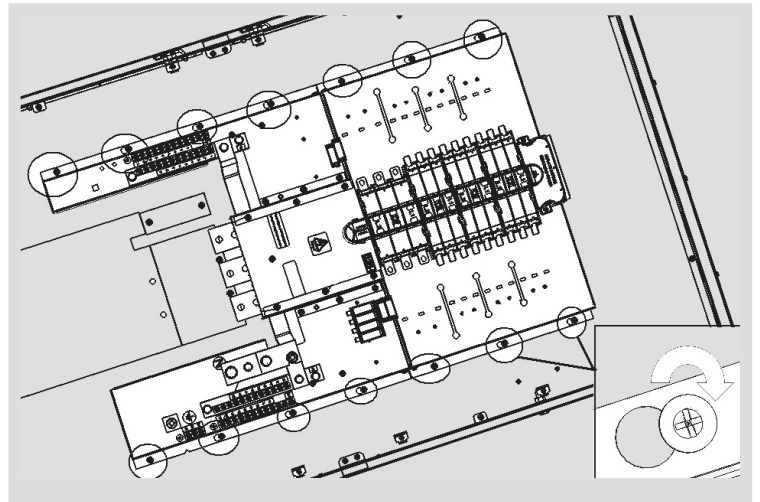
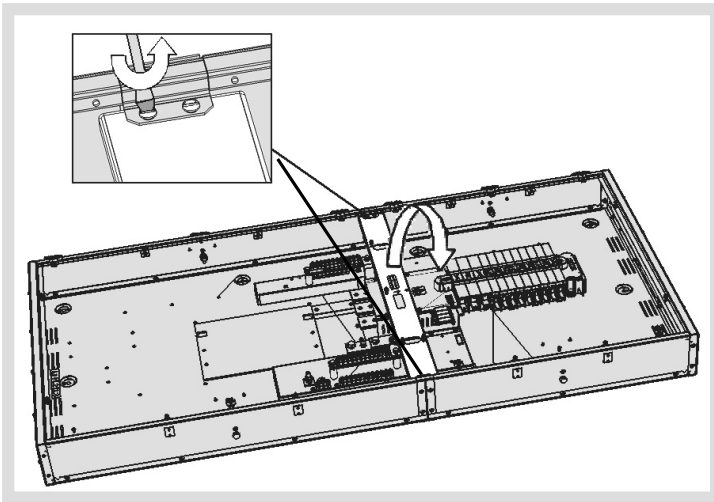


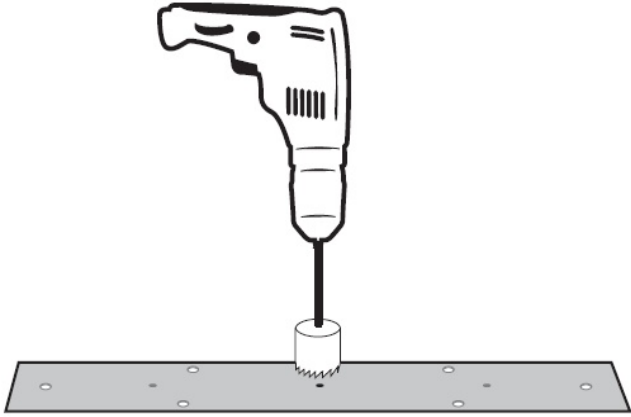
Attention!

This product must be disassembled before mounting on the wall. Remove doors, covers and busbar pan assembly. Base is a two person fit. When the base is secured to the wall, refit the busbar pan assembly and other components when required.

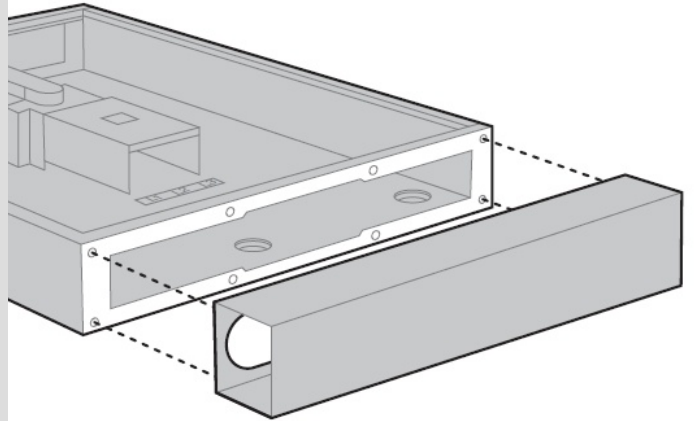
Base weight: 37kg to 42kg
Busbar pan assembly weight: 22kg to 36kg
Total weight (including doors): 80kg to 120kg







Drill centre mark provided when fitting SWA or conduit



Remove gland plate when fitting trunking

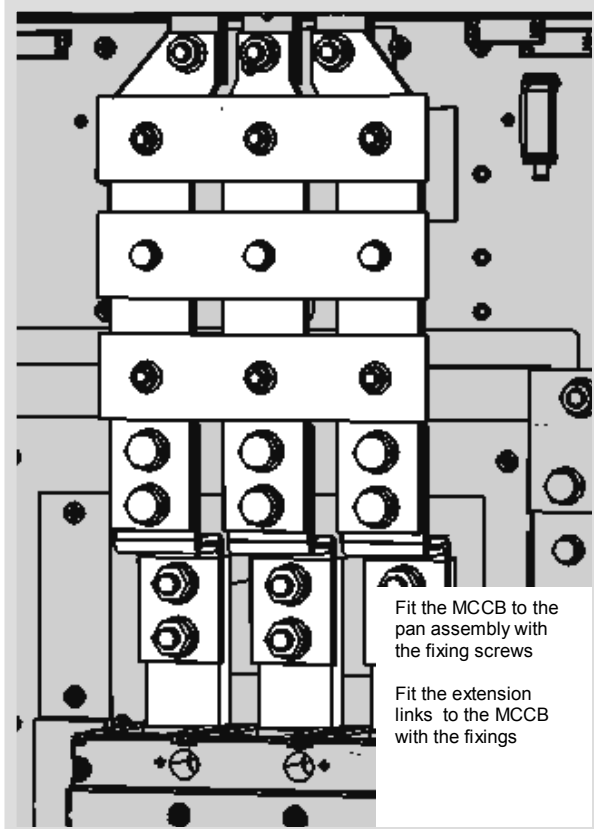
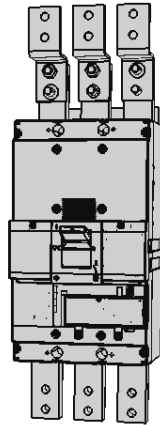
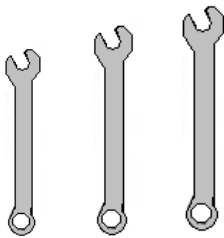
JHF8 3 Pole 800A MCCB incomer kit

800A Incomer kits contain:

- 3 x Phase extension links
- 3 x spreader links
- 6 x Phase link Allen fixing bolts and washers (M10)
- 4 x Long fixing screws
- 1 x MCCB
- 3 x M8 120mm Lug
- Terminal covers

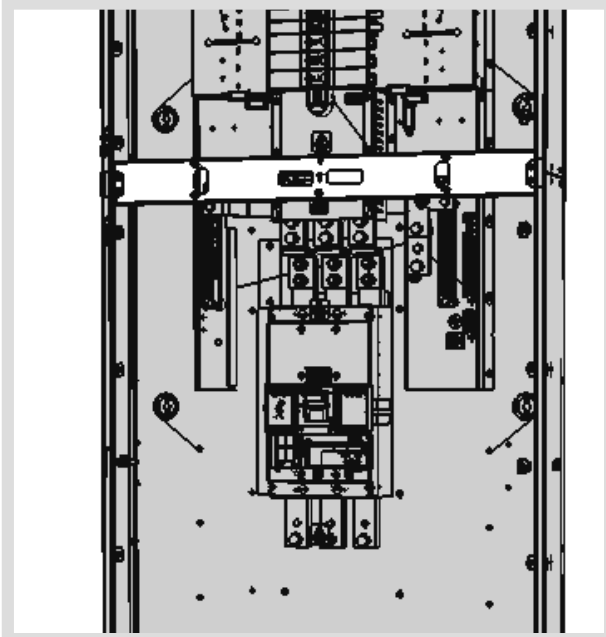
Ensure terminal shrouds are removed before fitting.

12 mm, 17mm & 19 mm
AF



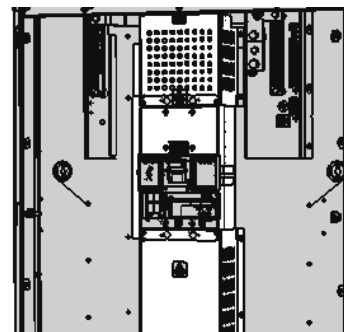
Fit the MCCB to the pan assembly with the fixing screws

Fit the extension links to the MCCB with the fixings



Connect the extension links to the busbar with the 3 x M10 coach bolts. Hand tighten at this stage.
Now tighten the MCCB fixing screws to secure the MCCB to the pan assembly.

Once the MCCB is in place tighten all M12 to **45-65Nm**
Fit the terminal shrouds



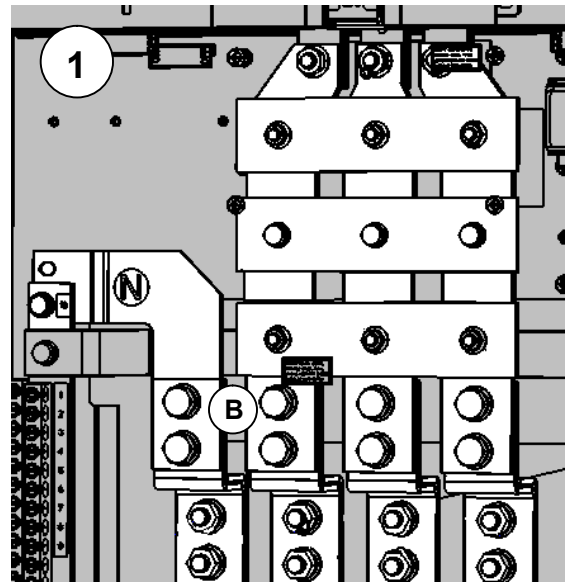
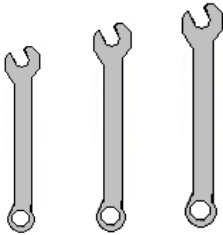
JHF8 4 Pole 800A MCCB incomer kit

800A 4 pole incomer kits contain:

- 3 x Line extension, 1 x neutral assembly
- 4 x Long fixing screws
- 1 x MCCB
- Terminal covers

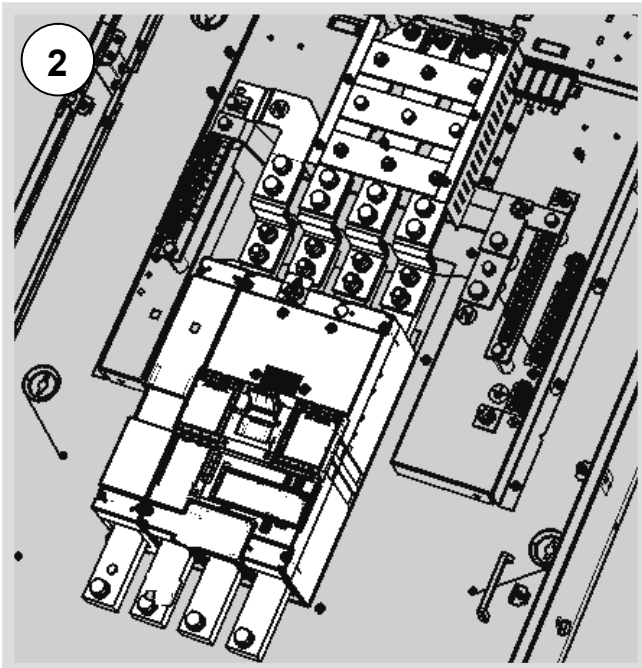
Ensure terminal shrouds are removed before fitting.

13 mm, 17mm & 19 mm
A/F



Fit the MCCB to the pan assembly with the fixing screws

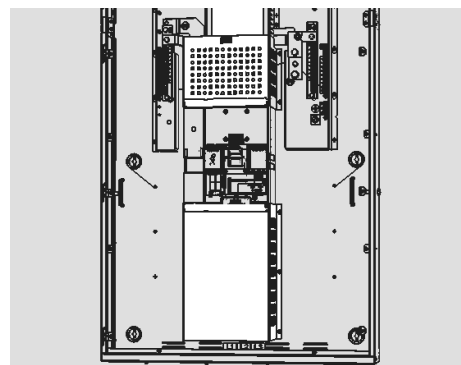
Fit the extension links to the MCCB with the fixings



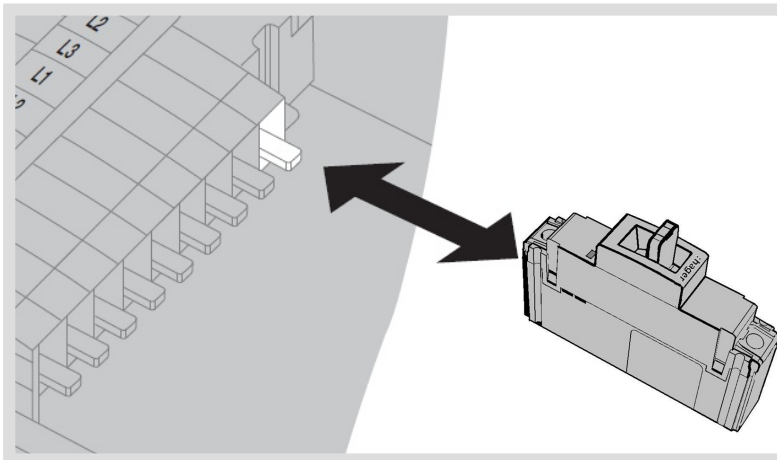
Connect the extension links to the busbar with the 3 x M12 coach bolts the M8 coach bolts. Hand tighten at this stage.

Now tighten the MCCB fixing screws to secure the MCCB to the pan assembly.

Once the MCCB is in place tighten all M12 to **45-65Nm**. Tighten all **M8** connections to **13Nm**. Fit the terminal shrouds



Only equipment and arrangements specified in Hager's technical documentation / catalogue shall be used.



Fitting Single Pole x160 frame MCCBs

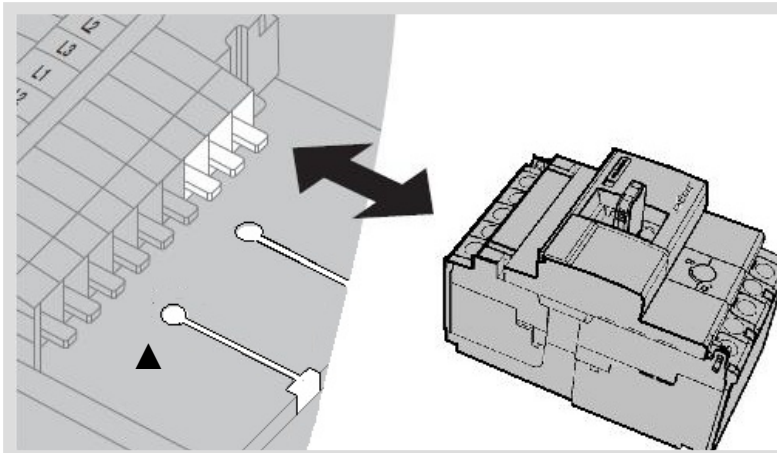
Single pole MCCB contains:

- 2 x Fixing bolts
- 2 x Spring washers
- 2 x Single fixing plates
- 2 x Double fixing plates

Mount the MCCB on to the busbar finger with the red trip button facing inwards. Fix the device to the pan assembly using the fixings provided

See single pole instructions for more information

Tighten electrical connections to 6.6Nm



Fitting Three Pole x160 frame MCCBs

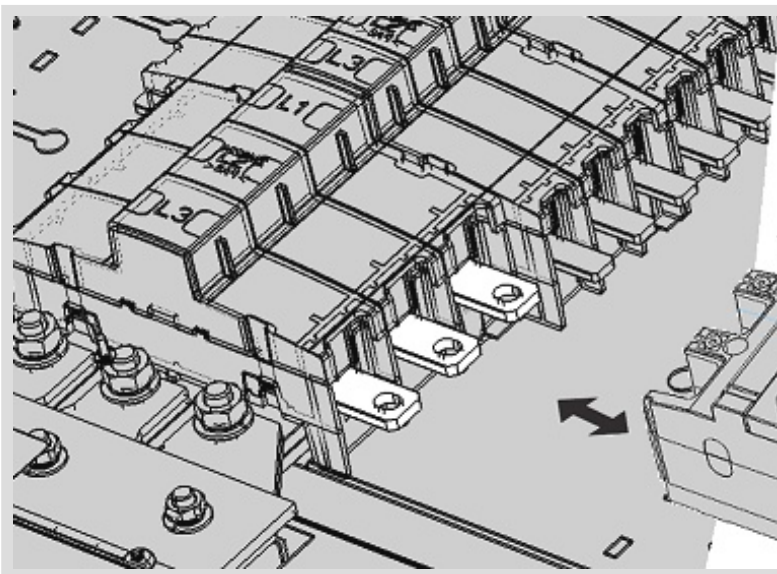
Three pole MCCB contains:

- 2 x Fixing bolts
- 2 x Spring washers
- 2 x Flat washers

Mount the MCCB on to the busbar finger with the red trip button facing inwards. Fix the device to the pan assembly using the fixings provided.

Use the Auxiliary/Shunt trip accessory channel (▲) to dress cables from these accessories

See three pole instructions for more information
Tighten electrical connections to 6.6Nm



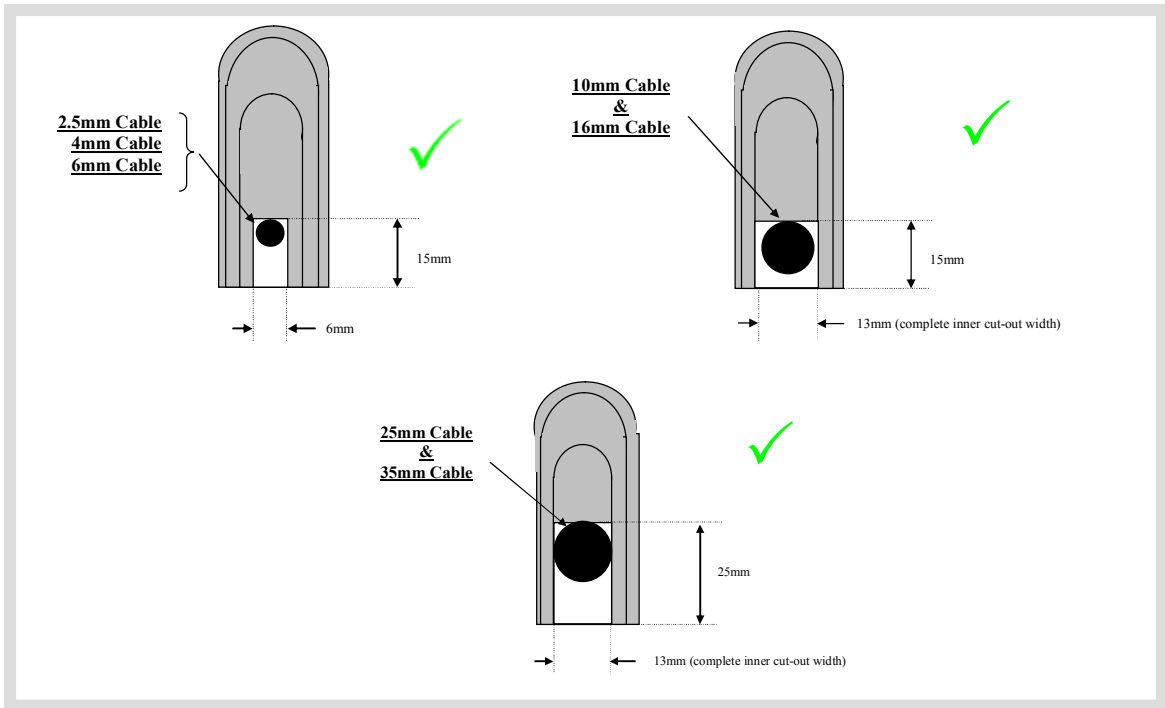
Fitting Three Pole x2500 frame MCCBs

Mount the MCCB on to the busbar finger with the red trip button facing inwards. Fix the device to the pan assembly using the fixings provided.

See three pole instructions for more information
Tighten electrical connections to 6.6Nm

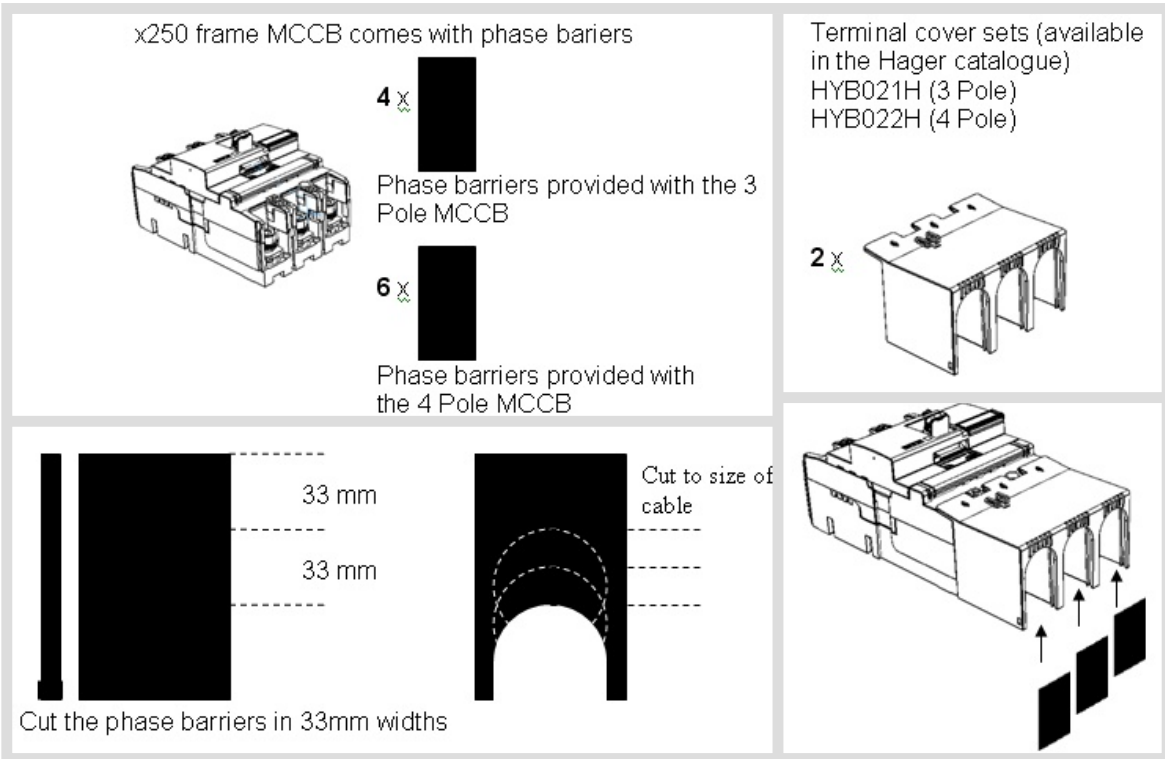
Achieving Form 3b type 2 on x160 frame MCCB outgoing

Using HYA021H Terminal cover: Outgoing Devices x160 Frame only (125A)
 Cut Out Dimensions are shown below to achieve IPXXB (Form 3b type 2)



Achieving Form 3b type 2 on x250 frame MCCB outgoing

Using HYA021H Terminal cover: Outgoing Devices x250 Frame (250A)
 Cut Out Dimensions for the insert are shown below to achieve IPXXB (Form 3b type 2)



Service Conditions

Hager distribution boards must only be fitted with Hager Equipment and arrangements specified in Hager Technical documents and catalogues

Indoor Use only

Pollution degree: 3

Forms of separation: Form 3b when outgoing shrouds are fitted. A competent person must always complete a risk assessment and appropriate test to confirm that, the un-shrouded neutral within the Panelboard is not a hazardous live part. In particular, The Electricity at Work Regulations 1989 including any amendments must be complied with.

Maximum Current (I_{nA})
JHF8*** 800A 415V a.c. 50Hz

Range of outgoing devices (I_{nc})
MCCB x160 frame 16 – 125A
MCCB x250 frame 100 – 250A

Main busbar (I_{cw})
JHF8*** 35kA for 1 sec / 73.5 kA Pk

Main Neutral conductor (I_{cw})
JHF8*** 24kA for 1 sec / 50.4 kA Pk

Main protective conductor (I_{cc})
JHF8*** 25kA conditional / 52.5 kA Pk

MCCB BS EN 60947-2

Outgoing device Conditional rating (I_{cc})

X160 Frame MCCB 25kA/ 52.5 kA Pk conditional
X250 Frame MCCB 40kA/84kA Pk conditional

IP3X with door closed

IP2XC with door open and compliment of outgoing devices and blanks fitted.

Suitable for Fixed connection (F) Forms of Internal Separation 3b

No. of Main Circuits	Diversity/ Loading factor
2 & 3	0.9
4 & 5	0.8
6 to 9 inclusive	0.7
10 and above	0.6

Warranty

This distribution board is offered with a 24 month warranty against defective material or manufacture. If a warranty claim is necessary, please call the technical support number given at the bottom of the page and we will be pleased to help.

JHF8 Incomer kits

JHF883BM 800A 3P MCCB INCOMER KIT
JHF884BM 800A 4P MCCB INCOMER KIT

Accessories

JF003BP	3P BLANKING PLATE 250A FRAME
JN001BP	1P BLANKING PLATE 125A FRAME
JF801E	SMALL DIN RAIL BOX, PLAIN DOOR
JF801EG	SMALL DIN RAIL BOX GLAZED DOOR
JF803BA	MULTI FUNCT DIGITAL METER PACK
JF803E	LARGE DIN RAIL BOX, PLAIN DOOR
JF803EG	LARGE DIN RAIL BOX, GLAZED DOOR
JF805DK	DOOR KIT FOR SMALL SPREADER BOX
JF805E	SMALL SPREADER BOX (NO DOOR)
JF806DK	DOOR KIT FOR LARGE SPREADER BOX
JF806E	LARGE SPREADER BOX (NO DOOR)
JFPLATE	SPARE ENDPLATE

Performance Characteristics

Panelboard to BS EN 61439 -2 2011

Ui 690V a.c. 50Hz

Ue 415V a.c. 50Hz

Uimp 6kV

Rated frequency 50Hz

Suitable earthing system TNC-S, TN-S and TT
(Subject to compliance with the relevant regulations in the current edition of BS 7671)

Panel board circuit designation chart

D.B No:	Voltage:	Supplied From:
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Supply cable mm:	Incoming Isolator:	Ze:	P.S.C.
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CIR	AMPS	TYPE	CABLE MM	C.P.C MM	LOCATION DESCRIPTION

Hager Ltd.
Hortonwood 50
Telford
Shropshire
TF1 7FT

National Sales Hotline 01952 675612
National Tech Support helpline 01952 675689

ZD0744 issue 1