

# Concept Panelboards

## Verified to AS/NZS 61439

An extensive and flexible range of panelboards to suit your various application needs

POWER DISTRIBUTION AND PROTECTION



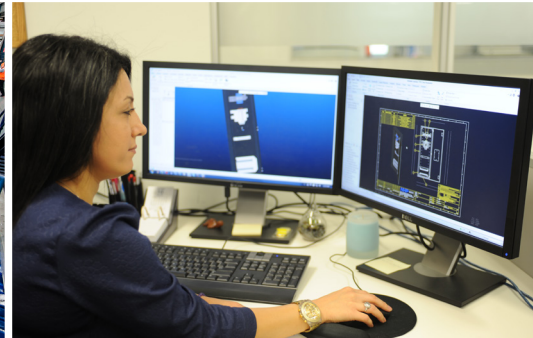
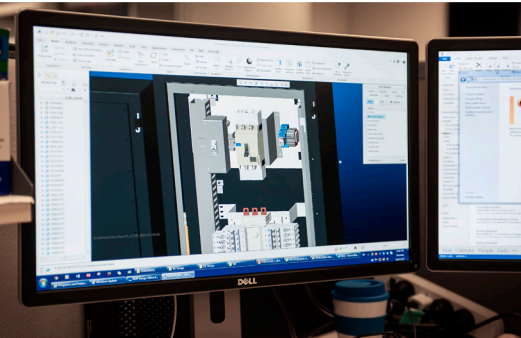
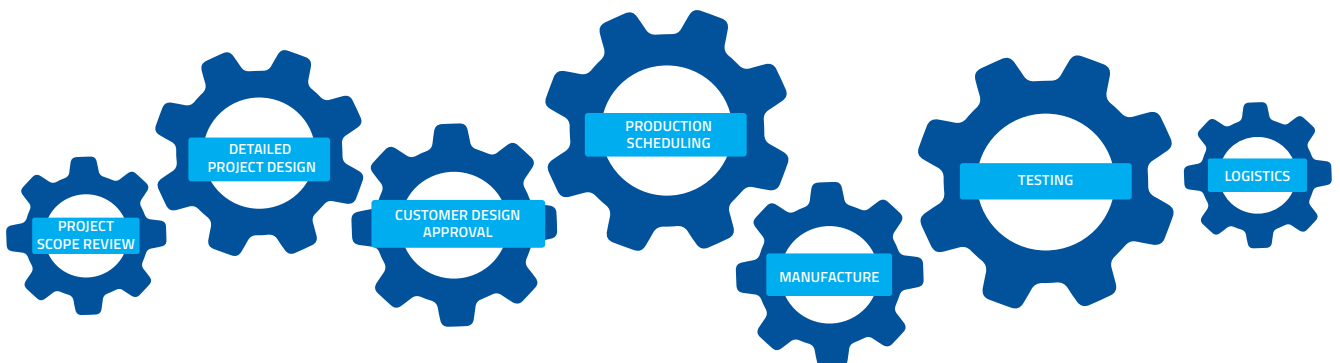
## NHP's Concept panelboard range

The Concept range has a panelboard model to suit just about all applications, from standard configuration to a unique design. NHP's new design tool Xpress ProDesigner (XPD) can turn around a specific request into custom design within minutes. XPD linked to NHP's National Manufacturing and Distribution Centre can successfully deliver a custom engineered solution from end to end.

- Personalised end-to-end manufacturing service with a dedicated project team
- Engineered solutions delivering quality, reliability and performance
- State of the art manufacturing facility operated by highly skilled personnel

NHP's National Manufacturing and Distribution Centre in Laverton, Victoria highlights NHP's commitment to local manufacturing and expertise. At this state of the art facility, our expert team brings together a range of manufacturing solutions under one roof, enabling us to provide you with what you want, when you want it.

With interactive tours of the National Manufacturing and Distribution Centre available, visitors are able to view and experience the cutting edge technology and quality product that is brought to life at the facility (note tours available by appointment only).



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### Concept One

#### The essential panelboard

9

The Concept One panelboard is the first in the Concept range offering core range of essential features. Concept One offers compact enclosure with a neutral finish to blend in.



### Concept Plus

#### The multipurpose panelboard

13

The Concept Plus panelboard is a multipurpose panelboard for general purpose applications offering a large range of features and options. Concept Plus offers IP42 rating with option IP52.



### Concept Premier

#### The premium panelboard

23

The Concept Premier panelboard is a premium panelboard offer all the feature of Concept Plus but also includes additional features such as IP66 rating, 3 point door locking and a stainless steel option. The increased depth between escutcheon and door allows load break handles and locking devices to be fitted.



### Concept Tough

#### The heavy duty panelboard

34

The Concept Tough panelboard range is constructed from fully welded 2mm mild steel or 316 marine grade stainless steel for those extra tough environments. Concept Tough has all the features of Concept Premier plus more, including increased depth, width and material thickness for extra strength.



### Concept accessories

A general range of accessories that suits Concept panelboards such as schedule cards, spare keys, touch up paint and earth and neutral bars

37

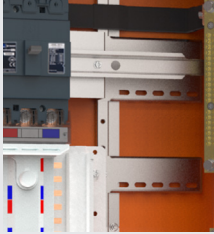


### Concept technical

Dimension diagrams including mounting dimensions

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## Top 10 reasons to use Concept Panelboards



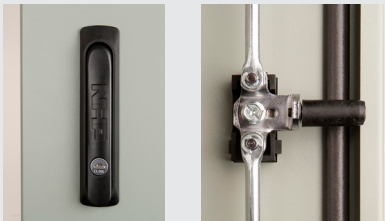
### 1. Cable management

- Support brackets with built in tie down points for better cable management
- Rolled edged to prevent damage to cables
- Plenty of wiring room
- Allows quicker and neater install



### 2. IP2X touch protection

- Helps prevent accidental contact with live conductors
- Fully shrouded connections between main switch and busbar chassis
- Encapsulated busbar style chassis with tee-off caps covering live tee-offs



### 3. Handle locking options

- Semi flush swing handle – increased vandal resistance, helps pre-vent being caught on when boards are mounted in hallways
- Different locking options CL001, 92268, pad lockable, non-locking, E-Key options, 8mm square. Simply remove and replace handle
- Stainless steel handle options
- Smoother closing action with use of 3 point roller cam
- No more scraping metal edges and potential paint damage



### 4. Inter changeable main switch

- Main switch can be retrofitted with either Concept isolator or Terasaki MCCB in the field
- Concept isolator offers excellent short circuit rating Icu 25kA
- Can be padlocked with captive accessory or non-captive accessory



### 5. Pad locked devices with door closed

- The door can now be closed with padlocked devices such as; a main isolator, main switch MCCB, load-break switches and MCBs
- Increased depth between door and escutcheon



### 6. Din knockouts

- Quickly add accessory items by knocking out built in knockout in the escutcheon
- No need to use pole fillers
- No more lost pole fillers



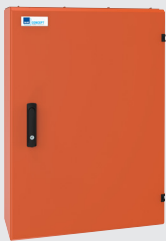
### 7. Hinged escutcheon

- In Concept Plus and Concept Premier, the escutcheon is hinged as standard
- Escutcheon is easily removed



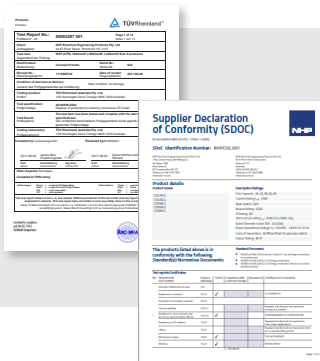
### 8. Tough paint finish

- New textured paint finish to hide damage that often occurs during handling and installation
- Helps prevent scuff marks and hides finger marks



### 9. New true modular system

- Height of boards are made to true modular system based on 216mm modules
- Allows different size boards to be joined or mounted side by side.



### 10. Supporting documentation

- Declarations of conformity to AS/NZS 61439
- Genuine IP ratings, 3rd party test reports, NATA accredited test station
- Piece of mind ratings

## Panelboard features

Series	Concept One COE	Concept Plus CPL	Concept Premier CPR	Concept Tough CTD
IP rating (option)	IP40	IP42 (IP52)	IP66	IP66
Width	530mm	600mm	600mm	800mm
Depth (including door)	153mm*	200mm*	240mm*	324mm*
Mild steel colours	Light grey RAL7035	N42 Storm grey X15 Orange	N42 Storm grey X15 Orange	X15 Orange
Stainless steel colours	-	-	X15 Orange natural (No4)	X15 Orange Natural (No4)
Material mild steel	1mm	1.6mm	1.6mm	2.0mm
316 Stainless steel	-	-	1.6mm	2.0mm
MCB type	MOD6/ DIN-T	DIN-T	DIN-T	DIN-T
MCB chassis type	Encapsulated	NC encapsulated GB- Isolation option	NC encapsulated GB-isolation option	NC encapsulated GB-isolation option
MCB chassis rating	250A	250A	250A, 400A	250A, 400A
MCB pole capacity	24-84	24-96	24-96	24-96
Spare horizontal DIN spaces	16	18	18	18
Isolator main switch	160A, 250A	160A, 250A	160A, 250A, 400A	160A, 250A, 400A
MCCB main switch	160A, 200A	160A, 200A	160A, 200A, 300A	160A, 200A, 300A
MCCB type (Terasaki)	-	-	160AF, 250AF	160AF, 250AF
MCCB chassis type	-	-	XEP, XAP	XEP, XAP
MCCB chassis rating	-	-	630A, 800A	630A
MCCB pole capacity	-	-	6-72	6-72
Door hinged	RH	RH	RH	RH
Escutcheon hinged	No	Standard	Standard	Standard
White escutcheon	Standard	Standard	Standard	Standard
Door handle	Semi flush swing handle	Semi flush swing handle	Semi flush swing handle	L handle
3 Point locking	-	Option	Standard	Standard
Door lock CL001	Standard	Standard	Standard	-
Door lock 92268 or 42886	Option	Option	Option	-
Door lock non-locking	Option	Option	Option	-
PWD lock "E-Lock"	Option	Option	Option	-
Pad lockable	Option	Option	Option	Standard
Special colours	Special order	Special order	Special order	Special order
Rainhood cover	-	-	Option	Standard
Plinth	-	Option	Option	Option
Flush mounting kit	Option	Option	Option	-
Wall mounting brackets	-	Option	Option	Standard
Removable gland-plates	Option	Standard	Standard	Standard
Gland-plates brass/aluminium	-	Option	Option	Aluminium standard
Pages	9-12	13-22	23-32	33-35

\*Excluding door handle

## Selection table

Series	Concept One COE	Concept Plus CPL	Concept Premier CPR	Concept Tough CTD
<b>MCB Chassis</b>				
<b>250A Chassis</b>				
No main-switch	Standard	Standard	Standard	Standard
Captive locking "LOCKDIN"	-	-	Option	Option
Extra row DIN rail 24W "X-Row"	-	Standard	Option	Option
Isolation chassis "GB"	-	Standard	Option	Option
Isolation chassis "GB" captive locking	-	-	Option	Option
Split chassis	-	Option	Option	Option
Single energy meter, Isolator 250A	-	Standard	Option	Option
Dual energy meter, Isolator 250A	-	Standard	Option	Option
Triple energy meter, isolator 250A	-	Option	Option	Option
<b>250A Chassis main-switch options</b>				
Concept Isolator 160A	Standard	Standard	Standard	Standard
Concept Isolator 250A	Standard	Standard	Standard	Standard
P250F TM MCCB 40-63A	Standard	Standard	Standard	Option
A250E TM MCCB 63-100A	Standard	Standard	Standard	Option
A250F TM MCCB 100-160A	Standard	Standard	Standard	Option
A250F TM MCCB 125-200A	Standard	Standard	Standard	Option
<b>400A Chassis</b>				
No main-switch	-	-	Option	Option
Hybrid chassis 27 & 18mm pitch	-	-	Standard	Option
<b>400A Chassis main switch options</b>				
Concept Isolator 160A	-	-	Option	Option
Concept Isolator 250A	-	-	Option	Option
Socomec Isolator 400A	-	-	Standard	Option
A250F TM MCCB 100-160A	-	-	Option	Option
A250F TM MCCB 125-200A	-	-	Option	Option
MCCB 250-400A	-	-	Option	Option
<b>MCCB Chassis</b>				
630A XEP Chassis, A160 (25mm pitch)	-	-	Option	Option
630A XAP Chassis P160 (30mm pitch)	-	-	Option	Option
<b>MCCB Chassis main switch options</b>				
Socomec Isolator 400A	-	-	Option	Option



# Safe, secure, compact, reliable

## Complete range of modular circuit breakers and accessories

DIN-T is a complete range of circuit protection devices and associated accessories from NHP.

The DIN-T range offers an extensive and flexible product that meets the needs of the ever-changing demands of switchboard design.

### NHP's Din-T range

- Miniature circuit breakers (MCBs)
  - 6kA, 10kA and 15kA
  - 1P, 2P, 3P and 4P
  - 0.5A-125A
- Residual current circuit breakers (RCBOs)
  - 6kA and 10kA
  - 1P, 2P, 3P and 3P+N
  - 10mA, 30mA, 100mA, 300mA
  - 6A-40A
- Residual current devices (RCCBs, RCDs)
  - 2P - 3P+N
  - 30mA, 100mA, 300mA
  - 40-80A
- Accessory devices
  - Shunt trip
  - Under voltage trip
  - Motor operators
  - Busbar combs
  - Pin terminal
  - Terminal shrouds
  - Lock off devices

When compared to traditional circuit breakers, the DIN-T range of devices under short circuit conditions have very quick operational times, typically 2mS, resulting in very low energy let-through values, minimising damage to downstream cables and devices and as a result increasing their operational life.



# Concept One

The essential panelboard - for MOD6 or DIN-T MCBs



## Concept One

### The essential panelboard for MOD6 or DIN-T MCBs



#### Domestic and commercial applications

- Neutral finish with RAL7035 light grey colour to blend into background for commercial applications.
- Gloss white lift off escutcheon that is independent from the door
- Knockouts in the escutcheon for up to 16 modules of extra DIN rail equipment
- 5 enclosure sizes 432mm-1296mm high
- Door hinged right-hand side
- Semi flush door swing handle with various door locking options
- Compact main-switch options 160A or 250A isolator or 100-200A MCCB
- Earth and neutral bar, circuit identification and schedule cards as standard
- Semi concealed door hinges



<b>Material type</b>	1.0 mm steel enclosure 1.0 mm steel escutcheon
<b>Finish</b>	Textured polyester powder coated
<b>Colour</b>	Enclosure – light grey (RAL7035) Escutcheon – bright white gloss
<b>Protection degree</b>	IP30 without door IP40 with door



<b>Busbar ratings</b>	Current rating 250A $I_{cw}$ 25kA 0.1s & 10kA 1.0s
<b>Neutral and earth bar</b>	Current rating 250A M8 stud top and bottom Spare 1x16mm <sup>2</sup> & 1x25mm <sup>2</sup> tunnels QTY 2 x 25mm <sup>2</sup> tunnels Balance 16mm <sup>2</sup> tunnels Tunnels 2 screw
<b>Main switch</b>	Isolator 160A Isolator 250A MCCB P250F (40-63A) MCCB A250E (63-100A) MCCB A250F (100-160A) MCCB A250F (125-200A)

## Concept One Panelboards



Pole capacity	Module size	Height (mm)	Catalogue no.
<b>No main switch</b>			
24	3	648	COE-24-LG
36	4	864	COE-36-LG
48	4	864	COE-48-LG
60	5	1080	COE-60-LG
84	6	1296	COE-84-LG

<b>160A main switch</b>			
24	3	648	COE-24M160-LG
36	4	864	COE-36M160-LG
48	4	864	COE-48M160-LG
60	5	1080	COE-60M160-LG
84	6	1296	COE-84M160-LG



<b>250A main switch</b>			
24	3	648	COE-24M250-LG
36	4	864	COE-36M250-LG
48	4	864	COE-48M250-LG
60	5	1080	COE-60M250-LG
84	6	1296	COE-84M250-LG

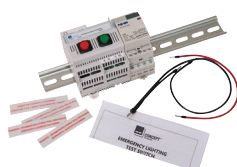
<b>160A main switch (MCCB adjustable 100-160A)</b>			
24	3	648	COE-24MCCB160-LG
36	4	864	COE-36MCCB160-LG
48	4	864	COE-48MCCB160-LG
60	5	1080	COE-60MCCB160-LG
84	6	1296	COE-84MCCB160-LG



<b>200A main switch (MCCB adjustable 125-200A)</b>			
24	3	648	COE-24MCCB200-LG
36	4	864	COE-36MCCB200-LG
48	4	864	COE-48MCCB200-LG
60	5	1080	COE-60MCCB200-LG
84	6	1296	COE-84MCCB200-LG

Width 530mm depth 153mm includes door (20mm) excluding door handle

## Concept One Accessories



### Accessory module-DIN cut-out

Pole capacity	Module size	Height (mm)	Catalogue no.
21	2	432	COEACC-21-LG
42	2	432	COEACC-42-LG
63	3	648	COEACC-63-LG

### Accessory module-Bank Escutcheon

-	2	432	COEACC-2ME-LG
-	3	648	COEACC-3ME-LG

Width 530mm depth 153mm includes door (20mm) excluding door handle

Description	Module size	Height (mm)	Catalogue no.
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### General accessories

White gear tray	2	395	COEGT-2M
White gear tray	3	611	COEGT-3M
Flush kit	3-6	648-1296	COEFK-xMLG

Description	Catalogue no.
Emergency lighting test kit push button	CELAELK1W
Emergency lighting test kit key switch	CELAELK2W
External light control kit on-off-auto1CH 2N/O 25A	CELEXTLKC
External light control kit on-off-auto1CH 2N/O 25A	CELEXTLK1
External light control kit on-off-auto 2CH 4N/O 25A	CELEXTLK2
Surge Kit 40KA MCB + surge type 2 + Loom	CELSURGEK1
Door swing handle CL001	CELHDSPPC
Door swing handle 92268	CELHDSPP9
Door swing handle padlockable	CELHDSPPP

### Main-switch kits

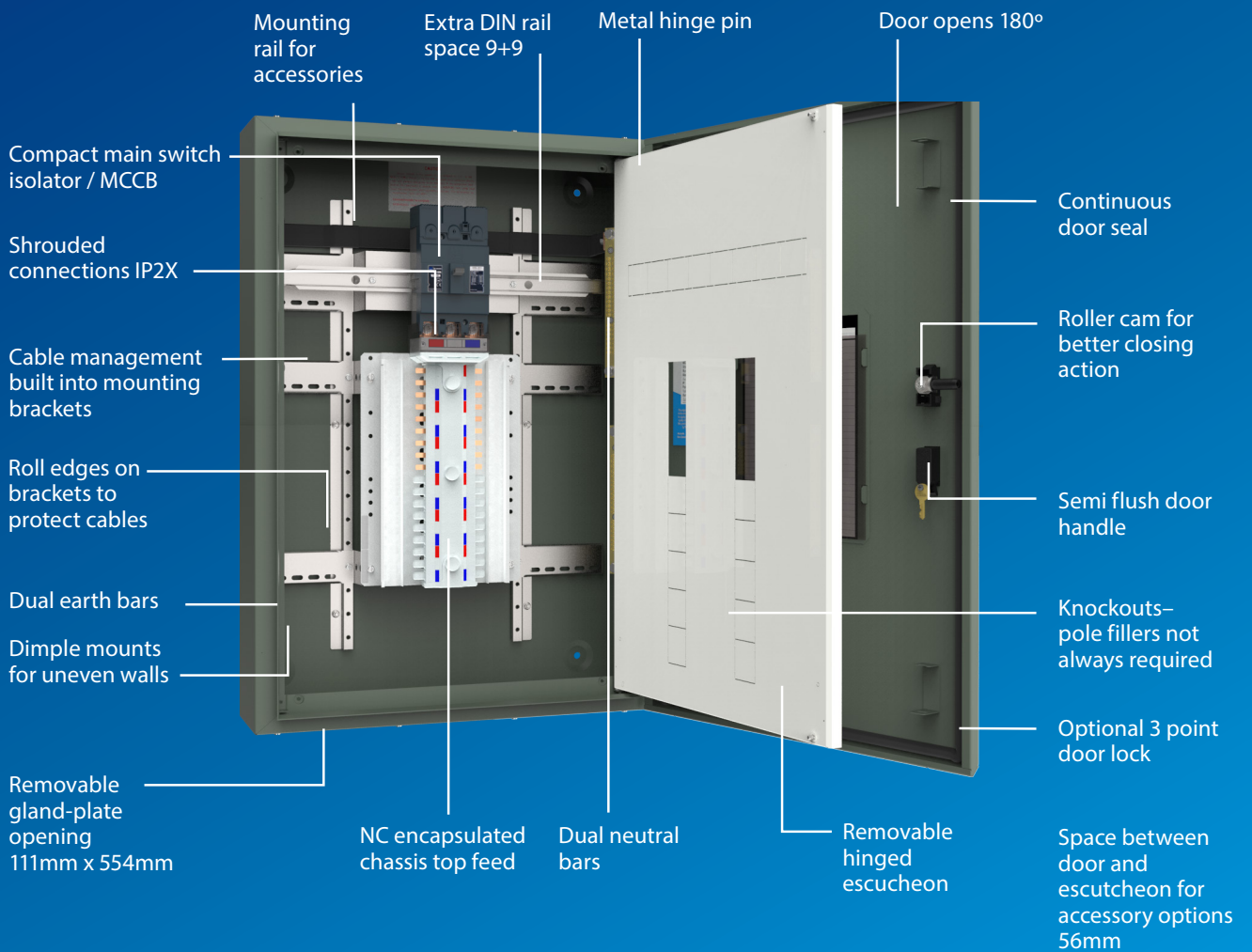
Concept Isolator switch kit 160A 3P	CEL3160MK
Concept Isolator switch kit 250A 3P	CEL3250MK
MCCB P250F main switch kit 3P (Adjustable 40-63A)	CELMCCB363
MCCB A250E main switch kit 3P (Adjustable 63-100A)	CELMCCB3100
MCCB A250F main switch kit 3P (Adjustable 100-160A)	CELMCCB3160
MCCB A250F main switch kit 3P (Adjustable 125-200A)	CELMCCB3200

### Gland-plates

Solid end cap	CECEECMSG
Open end cap	CECEECMSGA
Gland-plate to suit open end cap 1.6mm Steel	CECEGPMS1LG
Gland-plate to suit open end cap, 5mm PVC	CECEGPPV5

# Concept Plus

The multipurpose panelboard for DIN-T MCBs

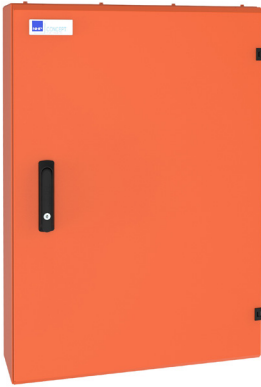


## Concept Plus

### The multipurpose panelboard for DIN-T MCBs

#### Commercial and industrial applications

- IP42 rating, optional kit for IP52 rating
- Grey or orange colour options
- 1.6mm fully welded construction
- Gloss white removeable hinged escutcheon that is independent from the door
- Knockouts in the escutcheon for up to 18 modules of extra DIN rail equipment
- 8 modular sizes cover the range from 24 - 96 pole (432mm-1944mm)
- Door hinged right-hand side
- Semi flush door swing handle with various door locking options
- Compact main-switch options 160A or 250A isolator or 100-200A MCCB
- Dual earth and neutral bars
- Earth and neutral bars, circuit identification and schedule cards included as standard
- Semi concealed door hinges



<b>Material type</b>	1.6mm steel enclosure 1.0/1.2mm steel escutcheon
<b>Finish</b>	Textured polyester powder coated
<b>Colour</b>	Enclosure – grey (N42 storm grey) Enclosure – orange (X15) Escutcheon– bright white gloss
<b>Protection degree</b>	IP30 without door IP42 with door (option IP52)
<b>Busbar ratings</b>	Current rating 250A NC 250A I <sub>cw</sub> 25kA 0.1s, 20kA 0.3s & 10kA 1.0s GB 250A I <sub>cw</sub> 25kA 0.1s & 10kA 1.0s
<b>Neutral and earth bar (up to 250A DBs)</b>	Current rating 250A M8 stud top and bottom Spare 1x16mm <sup>2</sup> & 1x25mm <sup>2</sup> tunnels QTY 2 x 25mm <sup>2</sup> tunnels Balance 16mm <sup>2</sup> tunnels Tunnels 2 screw
<b>Main switch</b>	Isolator 160A Isolator 250A MCCB P250F (40-63A) MCCB A250E (63-100A) MCCB A250F (100-160A) MCCB A250F (125-200A)

# Concept Plus

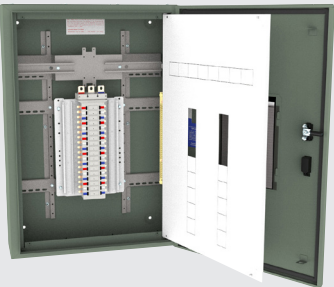
## Standard panelboard - CPL

NC 250A busbar chassis top feed 3P



## Isolation panelboard - CPLG

Isolation chassis GB 250A busbar chassis top feed 3P, busbar tee-off can be isolated prior to fitting or removing MCBs



## X-Row panelboard - CPLX

Extra row 24 poles of DIN at bottom of board for general DIN accessories



## Energy metering panelboard - CPLMS

Single energy meter monitoring total panelboard consumption



## Dual energy metering panelboard - CPLMD

Dual energy meter monitoring light and power circuits separately



## For more options, please contact NHP

- Compact Concept POWERBUS system
- Splits chassis for load shedding or metering
- Other main switch options
- Surge protection
- Emergency lighting control

CPL panelboards are available in either grey or orange options.

CPL panelboards can be fitted with 160A or 250A isolator main switch or 160A or 200A MCCB main switch.\*

\*Excludes metering CPLM panelboards

## Concept Plus Panelboards



Pole capacity	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
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### No main switch

24	3	648	CPL-24-G	CPL-24-O
36	4	864	CPL-36-G	CPL-36-O
48	4	864	CPL-48-G	CPL-48-O
60	5	1080	CPL-60-G	CPL-60-O
72	6	1296	CPL-72-G	CPL-72-O
84	6	1296	CPL-84-G	CPL-84-O
96	7	1512	CPL-96-G	CPL-96-O

### 160A main switch

24	3	648	CPL-24M160-G	CPL2-4M160-O
36	4	864	CPL-36M160-G	CPL-36M160-O
48	4	864	CPL-48M160-G	CPL-48M160-O
60	5	1080	CPL-60M160-G	CPL-60M160-O



### 250A main switch

24	3	648	CPL-24M250-G	CPL-24M250-O
36	4	864	CPL-36M250-G	CPL-36M250-O
48	4	864	CPL-48M250-G	CPL-48M250-O
60	5	1080	CPL-60M250-G	CPL-60M250-O
72	6	1296	CPL-72M250-G	CPL-72M250-O
84	6	1296	CPL-84M250-G	CPL-84M250-O
96	7	1512	CPL-96M250-G	CPL-96M250-O

### 160A main switch (MCCB adjustable 100-160A)

24	3	648	CPL-24MCCB160-G	CPL-24MCCB160-O
36	4	864	CPL-36MCCB160-G	CPL-36MCCB160-O
48	4	864	CPL-48MCCB160-G	CPL-48MCCB160-O
60	5	1080	CPL-60MCCB160-G	CPL-60MCCB160-O
72	6	1296	CPL-72MCCB160-G	CPL-72MCCB160-O
84	6	1296	CPL-84MCCB160-G	CPL-84MCCB160-O
96	7	1512	CPL-96MCCB160-G	CPL-96MCCB160-O

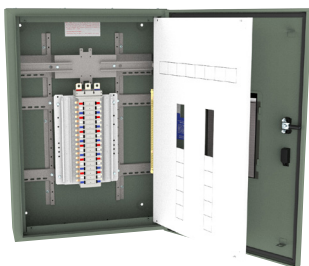
### 200A main switch (MCCB adjustable 125-200A)

24	3	648	CPL-24MCCB200-G	CPL-24MCCB200-O
36	4	864	CPL-36MCCB200-G	CPL-36MCCB200-O
48	4	864	CPL-48MCCB200-G	CPL-48MCCB200-O
60	5	1080	CPL-60MCCB200-G	CPL-60MCCB200-O
72	6	1296	CPL-72MCCB200-G	CPL-72MCCB200-O
84	6	1296	CPL-84MCCB200-G	CPL-84MCCB200-O
96	7	1512	CPL-96MCCB200-G	CPL-96MCCB200-O





## Concept Plus isolation chassis



GB chassis with busbar tee-offs that can be isolated prior to fitting or removal of MCB.  
For more details, please see section on GB chassis.

### No main switch

Pole capacity	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
24	3	648	CPLG-24-G	CPLG-24-O
36	4	864	CPLG-36-G	CPLG-36-O
48	4	864	CPLG-48-G	CPLG-48-O
60	5	1080	CPLG-60-G	CPLG-60-O
72	6	1296	CPLG-72-G	CPLG-72-O
84	6	1296	CPLG-84-G	CPLG-84-O
96	7	1512	CPLG-96-G	CPLG-96-O

## Concept Plus X-ROW



Extra row of DIN rail below chassis, able to fit extra 24 poles of DIN accessories

### No main switch

Pole capacity	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
30	4	864	CPLX-30-G	CPLX-30-O
48	5	1080	CPLX-48-G	CPLX-48-O
72	7	1512	CPLX-72-G	CPLX-72-O
96	8	1728	CPLX-96-G	CPLX-96-O

Width 600mm depth 200mm includes door (20mm) excluding door handle

## Concept Plus energy metering panelboard



### Single energy meter

- NABERS ready
- Monitors total panelboard consumption
- Energy meter EM270
- Single metering option
- Modbus RTU (serial)
- 2 x Pulse output

### 250A main switch

Pole capacity	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
24	4	864	CPLMS-24-M250-G	CPLMS-24-M250-O
36	4	864	CPLMS-36-M250-G	CPLMS-36-M250-O
48	5	1080	CPLMS-48-M250-G	CPLMS-48-M250-O
60	6	1296	CPLMS-60-M250-G	CPLMS-60-M250-O
72	6	1296	CPLMS-72-M250-G	CPLMS-72-M250-O
84	7	1512	CPLMS-84-M250-G	CPLMS-84-M250-O
96	7	1512	CPLMS-96-M250-G	CPLMS-96-M250-O

Width 600mm depth 200mm includes door (20mm) excluding door handle



## Dual energy meter

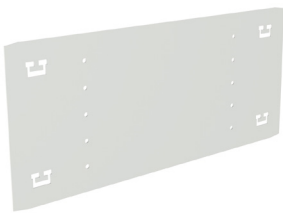
- NABERS ready
- One energy meter that monitor light and power consumption separately
- Energy meter EM270
- Dual metering option
- Modbus RTU (serial)
- 2 x Pulse output

### 250A main switch

Total pole capacity	Pole top	Pole bottom	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
24	12	12	4	864	CPLMD-1212-M250-G	CPLMD-1212-M250-O
36	12	24	5	1080	CPLMD-1224-M250-G	CPLMD-1224-M250-O
36	18	18	5	1080	CPLMD-1818-M250-G	CPLMD-1818-M250-O
48	18	30	5	1080	CPLMD-1830-M250-G	CPLMD-1830-M250-O
48	24	24	5	1080	CPLMD-2424-M250-G	CPLMD-2424-M250-O
60	18	42	6	1296	CPLMD-1842-M250-G	CPLMD-1842-M250-O
60	30	30	6	1296	CPLMD-3030-M250-G	CPLMD-3030-M250-O
72	24	48	7	1512	CPLMD-2448-M250-G	CPLMD-2448-M250-O
72	36	36	7	1512	CPLMD-3636-M250-G	CPLMD-3636-M250-O
84	30	54	7	1512	CPLMD-3054-M250-G	CPLMD-3054-M250-O
84	42	42	7	1512	CPLMD-4242-M250-G	CPLMD-4242-M250-O
96	36	60	8	1728	CPLMD-3660-M250-G	CPLMD-3660-M250-O
96	48	48	8	1728	CPLMD-4848-M250-G	CPLMD-4848-M250-O

Width 600mm depth 200mm includes door (20mm) excluding door handle

## Concept Plus accessory modules



Pole capacity	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
<b>DIN cut-out</b>				
24	2	432	CPLACC-24-G	CPLACC-24-O
48	2	432	CPLACC-48-G	CPLACC-48-O
72	3	648	CPLACC-72-G	CPLACC-72-O

<b>With-out escutcheon</b>				
-	2	432	CPLACC-2M-G	CPLACC-2M-O
-	3	648	CPLACC-3M-G	CPLACC-3M-O

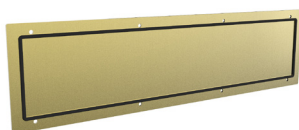
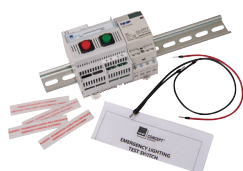
<b>With blank escutcheon</b>				
-	2	432	CPLACC-2ME-G	CPLACC-2ME-O
-	3	648	CPLACC-3ME-G	CPLACC-3ME-O
-	4	864	CPLACC-4ME-G	CPLACC-4ME-O
-	5	1080	CPLACC-5ME-G	CPLACC-5ME-O
-	6	1296	CPLACC-6ME-G	CPLACC-6ME-O
-	7	1512	CPLACC-7ME-G	CPLACC-7ME-O
-	8	1728	CPLACC-8ME-G	CPLACC-8ME-O
-	9	1944	CPLACC-9ME-G	CPLACC-9ME-O

<b>Gear trays</b>			
Description	Module size	Height (mm)	Catalogue no.
White gear tray	0.5	71	CELAGMS05
White gear tray	1	179	CELAGMS1
White gear tray	2	395	CELAGMS2
White gear tray	3	611	CELAGMS3

<b>E/N KITS to suit accessory modules</b>		
Description	Catalogue no. Single EN bars	Catalogue no. Dual EN bars
24way 250A earth and neutral kit	CELEN24	CELEN24D
36way 250A earth and neutral kit	CELEN36	CELEN36D
48way 250A earth and neutral kit	CELEN48	CELEN48D
60way 250A earth and neutral kit	CELEN60	CELEN60D
72way 250A earth and neutral kit	CELEN72	CELEN72D
84way 250A earth and neutral kit	CELEN84	CELEN84D
96way 250A earth and neutral kit	CELEN96	CELEN96D

<b>Accessories</b>	
Description	Catalogue no.
Top mullion plate	CELAMMS
Segregation barrier aluminum 2mm	CPLASBAL2

## Concept Plus accessories



Description	Catalogue no.
<b>Main-switch kits</b>	
Concept Isolator switch kit 160A 3P	CEL3160MK
Concept Isolator switch kit 250A 3P	CEL3250MK
MCCB P250F main switch kit 3P (Adjustable 40-63A)	CELMCCB363
MCCB A250E main switch kit 3P (Adjustable 63-100A)	CELMCCB3100
MCCB S160NJ main switch kit 3P-NC (Adjustable 100-160A)	CELMCCB3160
MCCB S250NJ main switch kit 3P-NC (Adjustable 160-200A)	CELMCCB3200
<b>General accessories</b>	
IP52 kit	CPLEIP52M*
Emergency lighting test kit push button	CELAELK1W
Emergency lighting test kit key switch	CELAELK2W
External light control kit on-off-auto 1CH 2N/O 25A	CELEXTLKC
External light control kit on-off-auto 1CH 2N/O 25A	CELEXTLK1
External light control kit on-off-auto 2CH 2N/O 25A	CELEXTLK2
Surge kit 40KA MCB + surge type 2 + loom	CELSURGEK1
Safety service mechanical separation kit 1P	CELASED1
Safety service mechanical separation kit 2P	CELASED2
Safety service mechanical separation kit 3P	CELASED3
Wall mounting kit black	CELABGBBK
7mm deep schedule card holder	CELACMSA4
Door hinge reversal kit (RH to LH)	CELAKDHR
<b>Gland plates</b>	
Steel 1.6mm grey	CPLEGPMS1SG
Steel 1.6mm orange	CPLEGPMS1OR
Aluminium 3mm	CPLEGPAL3
Bakelite 5mm	CPLEGPBK5
Brass 3mm	CPLEGPBR3
Gasket	CPLEGGF
<b>Door handles</b>	
Door swing handle CL001	CELHDSPSC
Door swing handle 92268	CELHDSPS9
Door swing handle padlockable	CELHDSPPP
Door swing handle E-Key "PWD"	CELHDSPBE
Door swing handle non lockable	CELHDSZNKIT
Door swing handle 7mm square	CELHDSZQ7KIT
Door handle cam roller - three point	CELHCRP21C60
Door handle cam roller - single point	CELHCRP21A60

\* Insert module size, e.g. CPLEIP52M4 for 4 module

## Concept Plus accessories



### Flush mounting Kit

Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
2	432	CELAFK-2-SG	CELAFK-2-OR
3	648	CELAFK-3-SG	CELAFK-3-OR
4	864	CELAFK-4-SG	CELAFK-4-OR
5	1080	CELAFK-5-SG	CELAFK-5-OR
6	1296	CELAFK-6-SG	CELAFK-6-OR
7	1512	CELAFK-7-SG	CELAFK-7-OR
8	1728	CELAFK-8-SG	CELAFK-8-OR
9	1944	CELAFK-9-SG	CELAFK-9-OR

### Plinth

Description	Catalogue no.
Plinth single 75mm hot dipped gal	CPLAP-S-GAL
Plinth double 75mm hot dipped gal	CPLAP-D-GAL
Plinth triple 75mm hot dipped gal	CPLAP-T-GAL

### Escutcheons labels

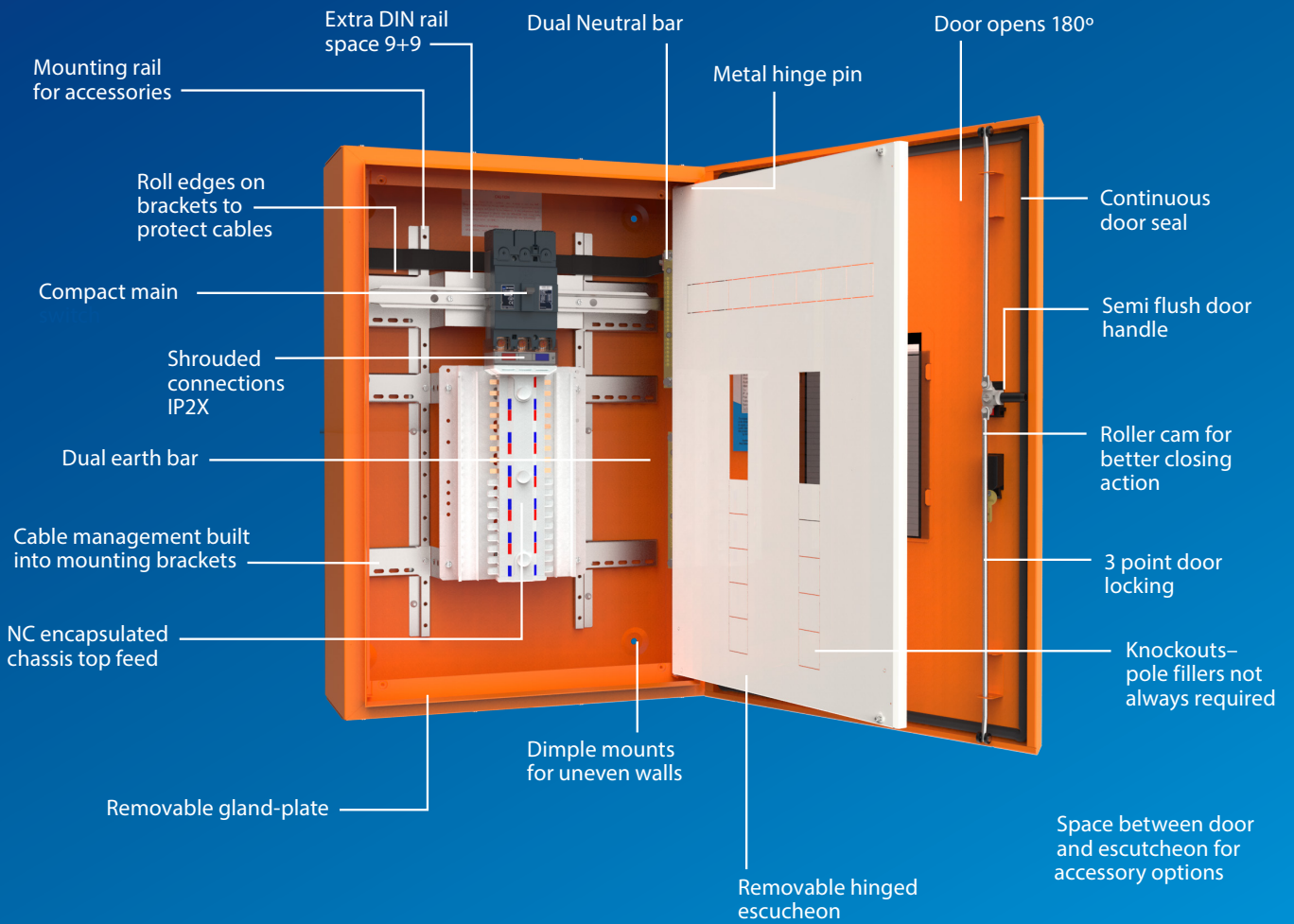
Description	Catalogue no.
DIN 1-48 way (18mm pitch)	LABLEG148D
DIN 49-96 way (18mm pitch)	LABLEG4996D
DIN 97-144 way (18mm pitch)	390.00007
DIN 1-24 way (27mm pitch)	390.00006

### Locking rods

Locking rod to suit 3M 648mm	CELDLR3MS
Locking rod to suit 4M 864mm	CELDLR4MS
Locking rod to suit 5M 1080mm	CELDLR5MS
Locking rod to suit 6M 1296mm	CELDLR6MS
Locking rod to suit 7M 1512mm	CELDLR7MS
Locking rod to suit 8M 1728mm	CELDLR8MS
Locking rod to suit 9M 1944mm	CELDLR9MS

# Concept Premier

The premium panelboard for DIN-T MCB and MCCB



## Concept Premier

### The premium panelboard for DIN-T MCB and MCCB



#### Commercial and industrial applications

- IP66 rating
- Grey or orange colour options in mild steel
- Orange or natural finish in stainless steel
- 1.6mm fully welded construction
- Gloss white removable hinged escutcheon that is independent from the door
- Knockouts in the escutcheon for up to 18 modules of extra DIN rail equipment
- 8 modular sizes cover the range from 24 - 96 pole (432mm-1944mm)
- Door hinged right-hand side
- Semi flush door swing handle with various door locking options
- Compact main-switch options 160A or 250A isolator or 100-200A MCCB
- Earth and neutral bars, circuit identification and schedule cards included as standard
- Dual earth / neutral bars
- Semi concealed door hinges



**Material type** 1.6mm Steel enclosure  
1.0 / 1.2mm steel escutcheon

**Finish** Textured polyester powder coated

**Colour** Enclosure – Grey (N42 storm grey)  
Enclosure – Orange (X15)  
Escutcheon – Bright White gloss

**Protection degree** IP30 without door  
IP66 with door

**Busbar ratings** Current Rating 250A (option 400A)  
NC 250A  $I_{cw}$  25kA 0.1s 20kA 0.3s & 10kA 1.0s  
NC 400A  $I_{cw}$  30kA 0.1s, 25kA 0.3s  
GB 250A  $I_{cw}$  25kA 0.1s & 10kA 1.0s

**Neutral and earth bar (up to 250A DBs)** Current rating 250A  
M8 stud top and bottom  
Spare 1x16mm<sup>2</sup> & 1x25mm<sup>2</sup> tunnels  
QTY 2 x 25mm<sup>2</sup> tunnels  
Balance 16mm<sup>2</sup> tunnels  
Tunnels 2 screw

**Main switch** Isolator 160A  
Isolator 250A  
MCCB P250F (40-63A)  
MCCB A250E (63-100A)  
MCCB A250F (100-160A)  
MCCB A250F (125-200A)





## Concept Premier

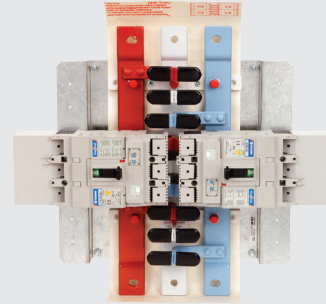
### Standard panelboard - CPR

NC 250A busbar chassis top feed 3P



### MCCB panelboard\*

MCCB chassis busbar chassis suits Terasaki MCCBs



### Isolation chassis panelboard\*

Isolation chassis GB 250A busbar chassis top feed 3P, busbar tee-off can be isolated prior to fitting or removing MCB captive locking mechanism option



### 400A Panelboard- CPRH

NC 400A busbar chassis with VLB 400A main isolator.



### Captive locking panelboard LOCKDIN\*

Escutcheon cut-out suitable for MCB captive locking system "LOCKDIN"



### For other options contact NHP

- Compact Concept POWERBUS system
- Single sided MCCB chassis options
- Hybrid chassis suits 80-125A MCBs and 0.5-63A MCBs
- Surge protection
- Emergency lighting control

CPR panelboards are available in either grey, orange, orange stainless steel or natural stainless steel options.

CPR panelboards can be fitted with 160A or 250A isolator main switch or 160A or 200A MCCB main switch.\*\*

\*Made to order - please contact NHP

\*\*Excludes MCCB chassis panelboards

## Concept Premier Panelboards



Pole capacity	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
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### No main switch

24	3	648	CPR-24-G	CPR-24-O
36	4	864	CPR-36-G	CPR-36-O
48	4	864	CPR-48-G	CPR-48-O
60	5	1080	CPR-60-G	CPR-60-O
72	6	1296	CPR-72-G	CPR-72-O
84	6	1296	CPR-84-G	CPR-84-O
96	7	1512	CPR-96-G	CPR-96-O

### 160A main switch

24	3	648	CPR-24M160-G	CPR-24M160-O
36	4	864	CPR-36M160-G	CPR-36M160-O
48	4	864	CPR-48M160-G	CPR-48M160-O
60	5	1080	CPR-60M160-G	CPR-60M160-O



### 250A main switch

24	3	648	CPR-24M250-G	CPR-24M250-O
36	4	864	CPR-36M250-G	CPR-36M250-O
48	4	864	CPR-48M250-G	CPR-48M250-O
60	5	1080	CPR-60M250-G	CPR-60M250-O
72	6	1296	CPR-72M250-G	CPR-72M250-O
84	6	1296	CPR-84M250-G	CPR-84M250-O
96	7	1512	CPR-96M250-G	CPR-96M250-O



Poles	27mm poles	18mm poles	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
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### 400A VLB main switch

24	-	24	4	864	CPRH24M400G	CPRH24M400O
48	-	48	5	1080	CPRH48M400G	CPRH48M400O
72	-	72	6	1296	CPRH72M400G	CPRH72M400O
96	-	96	7	1512	CPRH96M400G	CPRH96M400O
18	6	12	4	864	CPRH612M400G	CPRH612M400O
42	6	36	5	1080	CPRH636M400G	CPRH636M400O
42	12	30	5	1080	CPRH1230M400G	CPRH1230M400O
72	12	60	7	1512	CPRH1260M400G	CPRH1260M400O

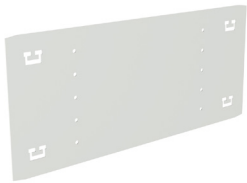
Width 600mm depth 240mm includes door (20mm) excluding door handle



Pole capacity	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
<b>160A main switch (MCCB adjustable 100-160A)</b>				
24	3	648	CPR-24MCCB160-G	CPR-24MCCB160-O
36	4	864	CPR-36MCCB160-G	CPR-36MCCB160-O
48	4	864	CPR-48MCCB160-G	CPR-48MCCB160-O
60	5	1080	CPR-60MCCB160-G	CPR-60MCCB160-O
72	6	1296	CPR-72MCCB160-G	CPR-72MCCB160-O
84	6	1296	CPR-84MCCB160-G	CPR-84MCCB160-O
96	7	1512	CPR-96MCCB160-G	CPR-96MCCB160-O
<b>200A main switch (MCCB adjustable 160-200A)</b>				
24	3	648	CPR-24MCCB200-G	CPR-24MCCB200-O
36	4	864	CPR-36MCCB200-G	CPR-36MCCB200-O
48	4	864	CPR-48MCCB200-G	CPR-48MCCB200-O
60	5	1080	CPR-60MCCB200-G	CPR-60MCCB200-O
72	6	1296	CPR-72MCCB200-G	CPR-72MCCB200-O
84	6	1296	CPR-84MCCB200-G	CPR-84MCCB200-O
96	7	1512	CPR-96MCCB200-G	CPR-96MCCB200-O

Width 600mm depth 240mm includes door (20mm) excluding door handle

## Concept Premier accessory modules



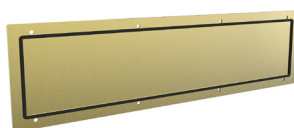
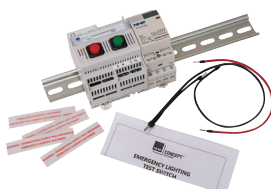
Pole capacity	Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
<b>DIN cut-out</b>				
24	2	432	CPRACC-24-G	CPRACC-24-O
48	2	432	CPRACC-48-G	CPRACC-48-O
72	3	648	CPRACC-72-G	CPRACC-72-O
<b>Without escutcheon</b>				
-	2	432	CPRACC-2M-G	CPRACC-2M-O
-	3	648	CPRACC-3M-G	CPRACC-3M-O
<b>With Blank escutcheon</b>				
-	2	432	CPRACC-2ME-G	CPRACC-2ME-O
-	3	648	CPRACC-3ME-G	CPRACC-3ME-O
-	4	864	CPRACC-4ME-G	CPRACC-4ME-O
-	5	1080	CPRACC-5ME-G	CPRACC-5ME-O
-	6	1296	CPRACC-6ME-G	CPRACC-6ME-O
-	7	1512	CPRACC-7ME-G	CPRACC-7ME-O
-	8	1728	CPRACC-8ME-G	CPRACC-8ME-O
-	9	1944	CPRACC-9ME-G	CPRACC-9ME-O

Width 600mm depth 240mm includes door (20mm) excluding door handle

Description	Modules size	Height (mm)	Catalogue no.
<b>Gear trays</b>			
White gear tray	0.5	71	CELAGMS05
White gear tray	1	179	CELAGMS1
White gear tray	2	395	CELAGMS2
White gear tray	3	611	CELAGMS3

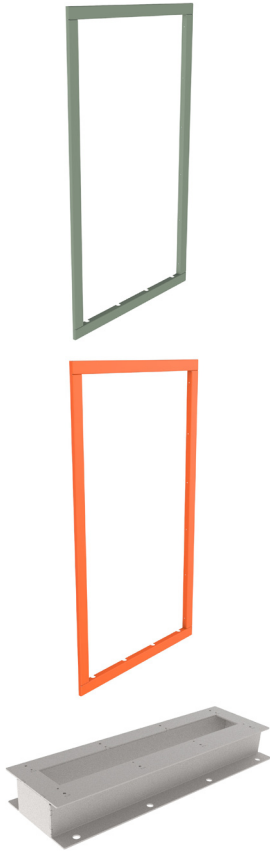
Description	Catalogue no. Single EN bars	Catalogue no. Dual EN bars
<b>E/N KITS to suit accessory modules</b>		
24way 250A earth and neutral kit	CELEN24	CELEN24D
36way 250A earth and neutral kit	CELEN36	CELEN36D
48way 250A earth and neutral kit	CELEN48	CELEN48D
60way 250A earth and neutral kit	CELEN60	CELEN60D
72way 250A earth and neutral kit	CELEN72	CELEN72D
84way 250A earth and neutral kit	CELEN84	CELEN84D
96way 250A earth and neutral kit	CELEN96	CELEN96D
<b>Accessories</b>		
Top mullion plate	CELAMMS	CELAMMSD
Segregation barrier aluminum 2mm	CPRASBAL2	CPRASBAL2D

## Concept Premier accessories



Description	Catalogue no.
<b>Main-switch kits</b>	
Concept isolator switch kit 160A 3P	CEL3160MK
Concept isolator switch kit 250A 3P	CEL3250MK
MCCB P250F main switch kit 3P (adjustable 40-63A)	CELMCCB363
MCCB A250E main switch kit 3P (adjustable 63-100A)	CELMCCB3100
MCCB S160NJ main switch kit 3P- NC (adjustable 100-160A)	CELMCCB3160
MCCB S250NJ main switch kit 3P- NC (adjustable 160-200A)	CELMCCB3200
<b>General accessories</b>	
Emergency lighting test kit push button	CELAELK1W
Emergency lighting test kit key switch	CELAELK2W
External light control kit on-off-auto 1CH 2N/O 25A	CELEXTLKC
External light control kit on-off-auto 1CH 2N/O 25A	CELEXTLK1
External light control kit on-off-auto 2CH 4N/O 25A	CELEXTLK2
Surge kit 40kA MCB + surge type 2 + loom	CELSURGEK1
Safety service mechanical separation kit 1P	CELASED1
Safety service mechanical separation kit 2P	CELASED2
Safety service mechanical separation kit 3P	CELASED3
Wall mounting kit black	CELABGBBK
IP66 mounting sealing kit	CPPIP66
7mm deep schedule card holder	CELACMSA4
Door hinge reversal kit (RH to LH)	CELAKDHR
<b>Gland plates</b>	
Steel 2.0mm grey	CPREGPMS2SG
Steel 2.0mm orange	CPREGPMS2OR
Aluminium 3mm	CPREGPAL3
Aluminium 6mm	CPREGPAL6
Bakealite 5mm	CPREGPBK5
Brass 3mm	CPREGPBR3
Gasket	CPREGGF
<b>Door handles</b>	
Door swing handle IP66 CL001	CELHDSZSC
Door swing handle IP66 92268	CELHDSZS9
Door swing handle IP66 padlockable	CELHDSZPP
Door swing handle IP66 E-Key "PWD"	CELHDSZBE
Door swing handle IP66 non lockable	CELHDSZNKIT
Door swing handle IP66 7mm square	CELHDSZQ7KIT
Door handle cam roller - three point	CELHCRP21C60

## Concept Premier accessories



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35	36
37	38
39	40
41	42
43	44
45	46
47	48

Module size	Height (mm)	Catalogue no. grey	Catalogue no. orange
<b>Flush mounting kit</b>			
2	432	CELAFK-2-SG	CELAFK-2-OR
3	648	CELAFK-3-SG	CELAFK-3-OR
4	864	CELAFK-4-SG	CELAFK-4-OR
5	1080	CELAFK-5-SG	CELAFK-5-OR
6	1296	CELAFK-6-SG	CELAFK-6-OR
7	1512	CELAFK-7-SG	CELAFK-7-OR
8	1728	CELAFK-8-SG	CELAFK-8-OR
9	1944	CELAFK-9-SG	CELAFK-9-OR

<b>Rainhood (when installed outdoors in weather)</b>			
Single 75mm		CPRAR-S-SG	CPRAR-S-OR
Double 75mm		CPRAR-D-SG	CPRAR-D-OR
Triple 75mm		CPRAR-T-SG	CPRAR-T-OR

<b>Plinth</b>			
Single 75mm hot dipped gal			CPRAP-S-GAL
Double 75mm hot dipped gal			CPRAP-D-GAL
Triple 75mm hot dipped gal			CPRAP-T-GAL

Description	Catalogue no.
<b>Escutcheon labels</b>	
DIN 1-48 way (18mm pitch)	LABLEG148D
DIN 49-96 way (18mm pitch)	LABLEG4996D
DIN 97-144 way (18mm pitch)	390.00007
DIN 1-24 way (27mm pitch)	390.00006

<b>Locking rods</b>	
Locking rod to suit 3M 648mm	CELDLR3MS
Locking rod to suit 4M 864mm	CELDLR4MS
Locking rod to suit 5M 1080mm	CELDLR5MS
Locking rod to suit 6M 1296mm	CELDLR6MS
Locking rod to suit 7M 1512mm	CELDLR7MS
Locking rod to suit 8M 1728mm	CELDLR8MS
Locking rod to suit 9M 1944mm	CELDLR9MS

## Concept Premier stainless steel panelboards

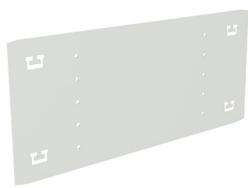


Pole capacity	Module size	Height (mm)	Catalogue no. orange	Catalogue no. natural
<b>No main switch</b>				
24	3	648	CPR-24-SSO	CPR-24-SS
36	4	864	CPR-36-SSO	CPR-36-SS
48	4	864	CPR-48-SSO	CPR-48-SS
60	5	1080	CPR-60-SSO	CPR-60-SS
72	6	1296	CPR-72-SSO	CPR-72-SS
84	6	1296	CPR-84-SSO	CPR-84-SS
96	7	1512	CPR-96-SSO	CPR-96-SS

Width 600mm depth 240mm includes door (20mm) excluding door handle



## Concept Premier stainless steel accessory modules



Pole capacity	Module size	Height (mm)	Catalogue no. orange	Catalogue no. natural
<b>DIN cut-out</b>				
24	2	432	CPRACC-24-SSO	CPRACC-24-SS
48	2	432	CPRACC-48-SSO	CPRACC-48-SS
72	3	648	CPRACC-72-SSO	CPRACC-72-SS

<b>With-out escutcheon</b>				
-	2	432	CPRACC-2M-SSO	CPRACC-2M-SS
-	3	648	CPRACC-3M-SSO	CPRACC-3M-SS

<b>With Blank escutcheon</b>				
-	2	432	CPRACC-2ME-SSO	CPRACC-2ME-SS
-	3	648	CPRACC-3ME-SSO	CPRACC-3ME-SS
-	4	864	CPRACC-4ME-SSO	CPRACC-4ME-SS
-	5	1080	CPRACC-5ME-SSO	CPRACC-5ME-SS
-	6	1296	CPRACC-6ME-SSO	CPRACC-6ME-SS
-	7	1512	CPRACC-7ME-SSO	CPRACC-7ME-SS
-	8	1728	CPRACC-8ME-SSO	CPRACC-8ME-SS
-	9	1944	CPRACC-9ME-SSO	CPRACC-9ME-SS

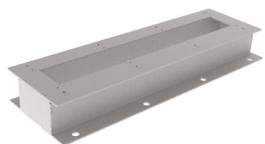
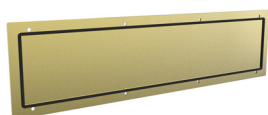
Width 600mm depth 240mm includes door (20mm) excluding door handle

Description	Module size	Height (mm)	Catalogue no.
<b>Gear trays</b>			
White gear tray	0.5	71	CELAGMS05
White gear tray	1	179	CELAGMS1
White gear tray	2	395	CELAGMS2
White gear tray	3	611	CELAGMS3

Description	Catalogue no. Single EN bars	Catalogue no. Dual EN bars
<b>E/N KITS to suit accessory modules</b>		
24way 250A earth and neutral kit	CELEN24	CELEN24D
36way 250A earth and neutral kit	CELEN36	CELEN36D
48way 250A earth and neutral kit	CELEN48	CELEN48D
60way 250A earth and neutral kit	CELEN60	CELEN60D
72way 250A earth and neutral kit	CELEN72	CELEN72D
84way 250A earth and neutral kit	CELEN84	CELEN84D
96way 250A earth and neutral kit	CELEN96	CELEN96D
<b>Accessories</b>		
Top mullion plate	CELAMMS	CELAMMSD
Segregation barrier aluminum 2mm	CPRASBAL2	CPRASBAL2D



## Concept Premier stainless steel accessories

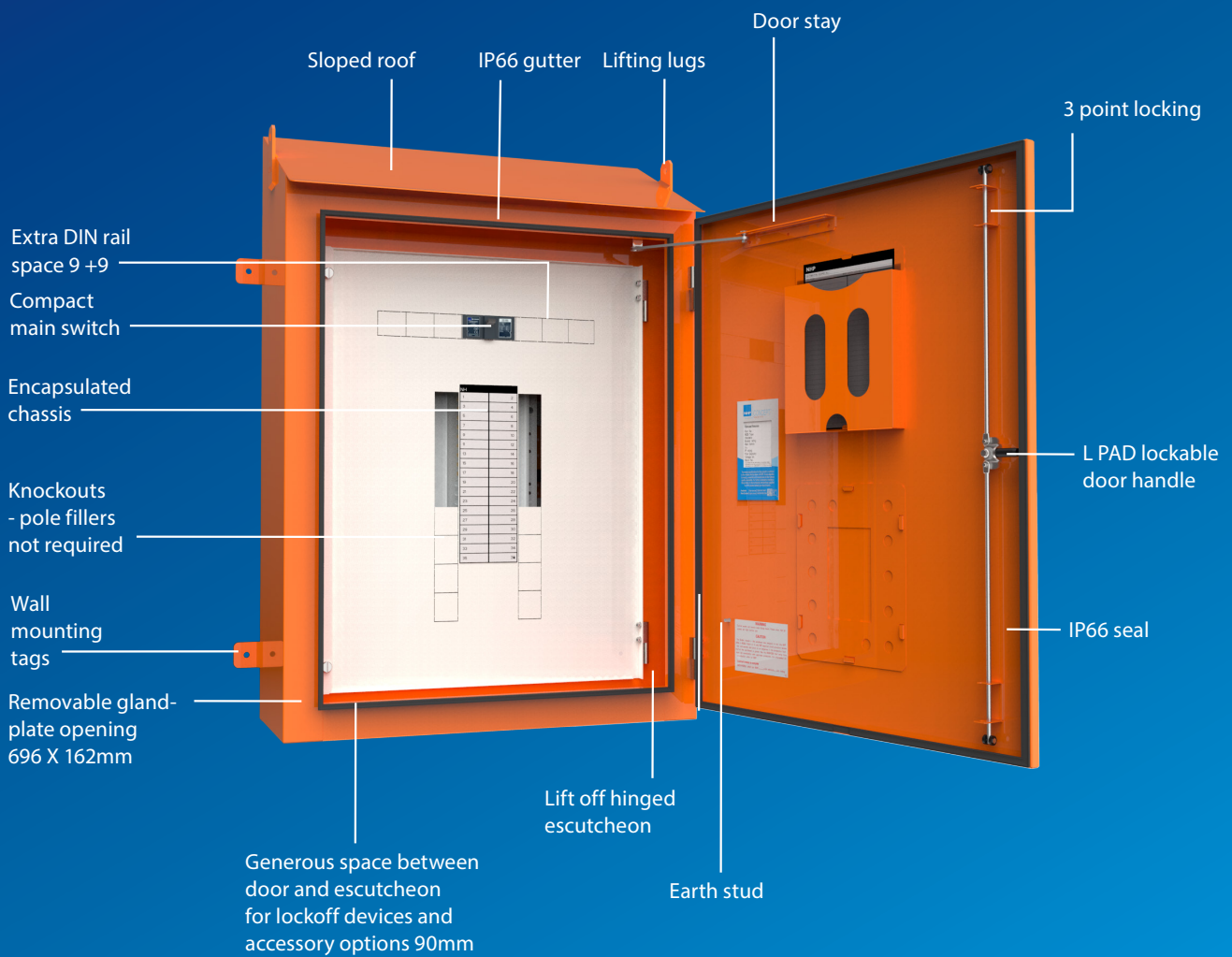


Description	Catalogue no.	
<b>Main switch kits</b>		
Concept Isolator switch kit 160A 3P	CEL3160MK	
Concept Isolator switch kit 250A 3P	CEL3250MK	
MCCB P250F main switch kit 3P (Adjustable 40-63A)	CELMCCB363	
MCCB A250E main switch kit 3P (Adjustable 63-100A)	CELMCCB3100	
MCCB A250F main switch kit 3P- NC (Adjustable 100-160A)	CELMCCB3160	
MCCB A250F main switch kit 3P-NC (Adjustable 125-200A)	CELMCCB3200	
<b>Gland plates</b>		
Aluminium 3mm	CPREGPAL3	
Aluminium 6mm	CPREGPAL6	
Bakelite 5mm	CPREGPBK5	
Brass 3mm	CPREGPBR3	
Stainless steel 2mm	CPREGPSS211	
Stainless steel orange 2mm	CPREGPSSO211	
Gasket	CPREGGF	
<b>Door handles</b>		
Door swing handle SS IP66 CL001	CELHDSSSC	
Door swing handle SS IP66 92268	CELHDSSS9	
Door swing handle SS IP66 padlockable	CELHDSSPP	
Door swing handle SS IP66 E-key "pwd"	CELHDSSBE	
Door swing handle SS IP66 non lockable	CELHDSSNKIT	
Door handle cam roller	CELHCRP21C60	
Description	Catalogue no. Orange	Catalogue no. natural
<b>Plinth</b>		
Single 75mm 316 s/steel	CPRAP-S-SSO	CPRAP-S-SS
Double 75mm 316 s/steel	CPRAP-D-SSO	CPRAP-D-SS
Triple 75mm 316 S/Steel	CPRAP-T-SSO	CPRAP-T-SS
<b>Rainhood (when installed outdoors in weather)</b>		
Single 316 s/steel	CPRAR-S-SSO	CPRAR-S-SS
Double 316 s/steel	CPRAR-D-SSO	CPRAR-D-SS
Triple 316 s/steel	CPRAR-T-SSO	CPRAR-T-SS
<b>General</b>		
Wall mounting kit S/Steel	CELABSS11	



## Concept Tough

The heavy duty panelboard for DIN-T MCB and MCCB



## Concept Tough



### The heavy duty panelboard for DIN-T MCB and MCCB

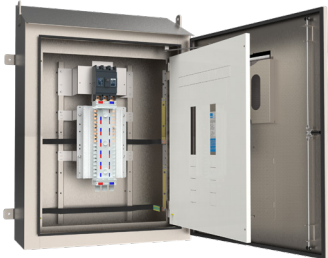
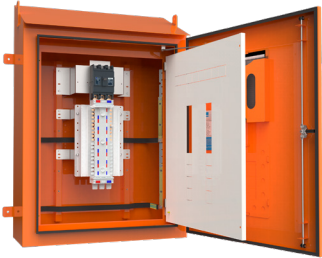
#### Commercial and industrial applications

- IP66 rating
- 2mm fully welded construction
- Available in stainless or mild steel construction
- Gloss white lift-off hinged escutcheon that is independent from the door
- Generous depth between door and escutcheon allow wide range lock-off devices
- Knockouts in the escutcheon for up to 18 modules of extra DIN rail equipment
- 4 modular sizes cover the range from 24 - 96 pole (500mm - 2000mm)
- Door hinged right-hand side
- Pad lockable semi flush door swing handle
- Large gland plates to allow for incoming/outgoing cables
- Compact 250A main-switch
- Mount up to a CA 6-420 contactor behind the escutcheon
- Earth and neutral bar, circuit identification and schedule cards as standard
- Dual earth / neutral bars
- Semi concealed door hinges
- Available in stainless or mild steel construction

<b>Material type</b>	2.0mm steel 1.6mm escutcheon
<b>Finish</b>	Textured polyester powder coated (mild steel version)
<b>Colour</b>	Enclosure – orange (X15) Escutcheon – bright white gloss
<b>Protection degree</b>	IP30 without door IP66 with door
<b>Busbar ratings</b>	Current rating 250A NC 250A $I_{cw}$ 25kA 0.1s, 20kA 0.3s & 10kA 1.0s
<b>Neutral and earth bar</b>	Current rating 250A M8 stud top and bottom Spare 1x16mm <sup>2</sup> & 1x25mm <sup>2</sup> tunnels QTY 2 x 25mm <sup>2</sup> tunnels Balance 16mm <sup>2</sup> tunnels Tunnels 2 screw
<b>Main switch</b>	Isolator 250A



## Concept Tough pole capacity and dimensions



### Suits DIN-T applications (Concept Tough)

Pole capacity	Box size	Height	Catalogue no. mild steel Orange	Catalogue no. stainless steel orange
18	Size 2	1000	<b>CTD180</b>	<b>CTD18SSO</b>
24	Size 2	1000	<b>CTD240</b>	<b>CTD24SSO</b>
36	Size 2	1000	<b>CTD360</b>	<b>CTD36SSO</b>
48	Size 2	1000	<b>CTD480</b>	<b>CTD48SSO</b>
60	Size 3	1500	<b>CTD600</b>	<b>CTD60SSO</b>
72	Size 3	1500	<b>CTD720</b>	<b>CTD72SSO</b>
84	Size 3	1500	<b>CTD840</b>	<b>CTD84SSO</b>
96	Size 3	1500	<b>CTD960</b>	<b>CTD96SSO</b>

Width = 800mm Depth = 324mm includes door = 20mm excluding door handle

### Notes:

- If a larger isolator is required, an increase in box size may be required.
- If stainless steel is required, replace the "O" in the above Cat. No. with "SS".

### DIN cut-out



Pole capacity STD DIN	Pole capacity Lockdin	Height (mm)	Catalogue no. orange
-	0	500	<b>CTACCO</b>
3	21	500	<b>CTACC24HO</b>
24	0	500	<b>CTACC24O</b>

# Concept accessories

NHP		
CUSTOMER BOARD NO.		
FED FROM	MAIN EARTH LOCATED AT	
1		2
3		4
5		6
7		8
9		10
11		12
13		14
15		16
17		18
19		20
21		22
23		24
25		26
27		28
29		30
31		32
33		34
35		36
37		38
39		40
41		42
43		44
45		46
47		48
49		50
51		52
53		54
55		56
57		58
59		60



MAIN SWITCH	MAIN ISOLATOR	ISOLATOR
IN THE CASE OF AN EMERGENCY SWITCH TO OFF	240/415V AC LIGHT & POWER	Prospective Fault level at Switchboard In
POWER MAIN ISOLATOR LIGHT	MAIN ISOLATOR	SERVER
POWER MAIN SWITCH HOT WATER	MAIN SWITCH	ALARM
POWER HOT WATER	DO NOT TURN OFF	SUB BOARD
POWER BYPASS SWITCH	ENERGY METER	TIME SWITCH
POWER OFF PEAK SWITCH	PROTECTED POWER	CEILING FAN
POWER SURGE PROTECTION	PROTECTED POWER	SHW WASHER
POWER 240V AC LIGHT	PROTECTED LIGHT	TOWEL RACK
POWER 240V AC POWER	PROTECTED LIGHT	SPA
LIGHT SECURITY LIGHTING	GARDEN LIGHTS	POOL
LIGHT SECURITY LIGHTING	GARDEN LIGHTS	PUMP
LIGHT EXTERNAL LIGHTING	FLOOD LIGHTS	BYPASS
LIGHT 240/415V AC LIGHT	SURGE PROTECTION	HOT PLATES
LIGHT 240/415V AC POWER	AR CONDITIONER	HEAT BANK
LIGHT 240V AC LIGHT & POWER	AR CONDITIONER	DRAWING
LIGHT 415V AC LIGHT & POWER	AR CONDITIONER	WORKSHOP
BYPASS SWITCH	EARTH LEAKAGE CIRCUIT BREAKER	EARTH LEAKAGE CIRCUIT BREAKER
		OFF PEAK SWITCH
		PROTECTED NEUTRAL



## Concept accessories

DISTRIBUTION BOARD NO.		MAIN EARTH LOCATED AT:	
FEED FROM:			
1			
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11			
12			
13			
14			
15			
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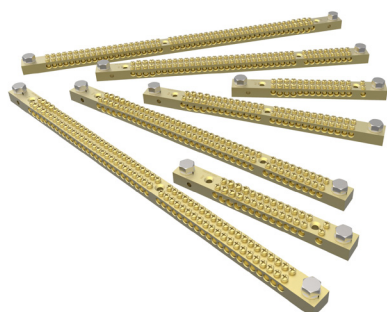
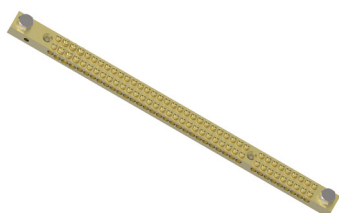
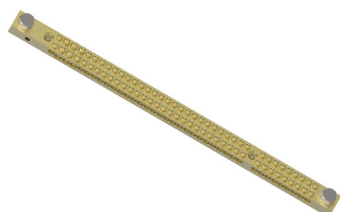
MAIN SWITCH	MAIN ISOLATOR	ISOLATOR	
BY THE CARE OF THE REFERENCED PARTS	240/415V AC LIGHT & POWER	Prospective Fault level at Switchboard for	
W	240/415V AC LIGHT & POWER		
POWER	MAIN ISOLATOR LIGHT	MAIN ISOLATOR	SERVER
POWER	MAIN ISOLATOR LIGHT	MAIN ISOLATOR	SERVER
POWER	MAIN SWITCH HOT WATER	MAN SWITCH	ALARM
POWER	HOT WATER	DO NOT TURN OFF	SUB BOARD
POWER	BYPASS SWITCH	ENERGY METER	TIME SWITCH
POWER	OFF PEAK SWITCH	PROTECTED POWER	TIME SWITCH
POWER	SURGE PROTECTION	PROTECTED LIGHT	DISH WASHER
POWER	240V AC LIGHT	PROTECTED LIGHT	TOWEL RACK
POWER	240V AC POWER	PROTECTED LIGHT	SPA
LIGHT	SECURITY LIGHTING	GARDEN LIGHTS	POOL
LIGHT	SECURITY LIGHTING	GARDEN LIGHTS	PUMP
LIGHT	EXTERNAL LIGHTING	FLOOD LIGHTS	BYPASS
LIGHT	EXTERNAL LIGHTING	FLOOD LIGHTS	HOT PLATES
LIGHT	240/415V AC LIGHT	SURGE PROTECTION	HOT PLATES
LIGHT	240/415V AC POWER	AIR CONDITIONER	TEST BENCH
LIGHT	240V AC LIGHT & POWER	AIR CONDITIONER	GARAGE
BYPASS	215V AC LIGHT & POWER	EARTH LEAKAGE	WORKSHOP
SWITCH	CIRCUIT BREAKER	CIRCUIT BREAKER	OFF PEAK SWITCH
			PROTECTED NEUTRAL



Description	Catalogue no.
<b>General</b>	
Door A4 schedule card	CPSCHEDULECARD
Door sticker set A4	LBLPWBKACC
Door schedule card holder clear sheet A4	CELACPA4
Door schedule card holder 7mm pocket A4 white	CELACMSA4
Pole fillers (12 poles)	DTPF12
Spare key CL001	KEYCL001
Spare key 92268	KEY92268
Escutcheon numbering 1-48	LABLEG148D
Escutcheon numbering 49-96	LABLEG4996D
Chassis mount DIN isolator 100A 1P to remotely feed DINT10H	DINTMS1001
Chassis mount DIN isolator 100A 3P to remotely feed DINT10H	DINTMS1003
Chassis mount DIN through terminal 100A 1P to remotely feed DINT10H	DINTT100A
Neutral bar support	CELSNM517
Neutral bar strap CPL	CPLBSNC
Neutral bar strap CPR	CPRBSNC
Escutcheon screw	FXSM5TX10HD12Z
Ducting support	CELSU
Neutral extension bar 250A	CELBECB4
Neutral bar side connection tag 250A	CELBTC1CC
Neutral bar side connection tag 400A	CELBTG1CC
<b>Touch up paint</b>	
Storm grey N42	392.35554
X15 orange	392.35555
Bright white	392.35553
Light grey RAL7035	BFT7035
<b>Connection kits (includes spacer/tag &amp; shrouds)</b>	
NC chassis to MCCB 160/250 direct with spacers TF/BF 3P	CELNCK3D
GB chassis to MCCB 160/250 direct with spacers TF/BF 3P	CELBCK3D
NC chassis to MCCB 160/250 tag connect TF/BF 3P*	NCK3250
NC chassis to VLB 250 tag connect TF/BF 3P*	NCK3250VLB
NC chassis to VLB 400 tag connect TF/BF 3P*	NCK3400VLB
<b>Connection kits (includes supports, tags &amp; shrouds)*</b>	
Concept Plus NC chassis to VLB 250A TF/BF 3P	CPLNCK3250VLB
Concept Plus NC chassis to VLB 400A TF/BF 3P	CPLNCK3400VLB
Concept Premier NC chassis to VLB 250A TF/BF 3P	CPRNCK3250VLB
Concept Premier NC chassis to VLB 400A TF/BF 3P	CPRNCK3400VLB

\*Factory fitted

## Concept accessories



Description	Catalogue no.
<b>Earth and neutral bars</b>	
E/N Bar 250A 12 way 2 screw 1-12	CELBNC-12A2
E/N Bar 250A 24 way 2 screw 1-24	CELBNC-24-A2
E/N Bar 250A 36 way 2 screw 1-36	CELBNC-36-A2
E/N Bar 250A 48 way 2 screw 1-48	CELBNC-48-A2
E/N Bar 250A 60 way 2 screw 1-60	CELBNC-60-A2
E/N Bar 250A 72 way 2 screw 1-72	CELBNC-72-A2
E/N Bar 250A 84 way 2 screw 1-84	CELBNC-84-A2
E/N Bar 250A 96 way 2 screw 1-96	CELBNC-96-A2
E/N Bar 400A 12 way 2 screw 1-12	CELBNG-12-A2
E/N Bar 400A 24 way 2 screw 1-24	CELBNG-24-A2
E/N Bar 400A 36 way 2 screw 1-36	CELBNG-36-A2
E/N Bar 400A 48 way 2 screw 1-48	CELBNG-48-A2
E/N Bar 400A 60 way 2 screw 1-60	CELBNG-60-A2
E/N Bar 400A 72 way 2 screw 1-72	CELBNG-72-A2
E/N Bar 400A 84 way 2 screw 1-84	CELBNG-84-A2
E/N Bar 400A 96 way 2 screw 1-96	CELBNG-96-A2

Description	Catalogue no. odd no.	Catalogue no. even no.
<b>Earth and neutral bars</b>		
E/N bar 250A 12 way 2 screw 1-24	CELBNC-12-C2	CELBNC-12-B2
E/N bar 250A 18 way 2 screw 1-36	CELBNC-18-C2	CELBNC-18-B2
E/N bar 250A 24 way 2 screw 1-48	CELBNC-24-C2	CELBNC-24-B2
E/N bar 250A 30 way 2 screw 1-60	CELBNC-30-C2	CELBNC-30-B2
E/N bar 250A 36 way 2 screw 1-72	CELBNC-36-C2	CELBNC-36-B2
E/N bar 250A 42 way 2 screw 1-84	CELBNC-42-C2	CELBNC-42-B2
E/N bar 250A 48 way 2 screw 1-96	CELBNC-48-C2	CELBNC-48-B2
E/N bar 400A 12 way 2 screw 1-24	CELBNG-12-C2	CELBNG-12-B2
E/N bar 400A 18 way 2 screw 1-36	CELBNG-18-C2	CELBNG-18-B2
E/N bar 400A 24 way 2 screw 1-48	CELBNG-24-C2	CELBNG-24-B2
E/N bar 400A 30 way 2 screw 1-60	CELBNG-30-C2	CELBNG-30-B2
E/N bar 400A 36 way 2 screw 1-72	CELBNG-36-C2	CELBNG-36-B2
E/N bar 400A 42 way 2 screw 1-84	CELBNG-42-C2	CELBNG-42-B2
E/N bar 400A 48 way 2 screw 1-96	CELBNG-48-C2	CELBNG-48-B2

## Concept Busbar chassis



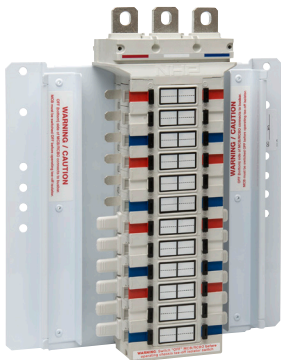
### NC chassis

- Current ratings 250A, 400A
- NC - 250A 25kA 0.1S
- NC - 400A 30kA 0.1S
- Full encapsulated chassis
- Tee-offs 50% capped

#### NC chassis - top feed

Pole capacity	Catalogue no. 250A	Catalogue no. 400A
24way 3Pole	NC2-2418-3TF	NC4-2418-3TF
36way 3Pole	NC2-3618-3TF	NC4-3618-3TF
48way 3Pole	NC2-4818-3TF	NC4-4818-3TF
60way 3Pole	NC2-6018-3TF	NC4-6018-3TF
72way 3Pole	NC2-7218-3TF	NC4-7218-3TF
84way 3Pole	NC2-8418-3TF	NC4-8418-3TF
96way 3Pole	NC2-9618-3TF	NC4-9618-3TF

Pole capacity	Catalogue no.
Tee-off cap 18mm	NC250TOPC
Tee-off cap 27mm	NC250HTOPC
Tee-off cap 18mm (400A)	NC400TOPC
Tee-off cap 27mm (400A)	NC400HTOPC
Busbar cap	NCBBC



### GB isolation chassis

- Current ratings 250A
- NC - 250A 25kA 0.1S
- Full encapsulated chassis
- Colour coded isolation switch per tee-off
- Mechanical interlock
- Tee-offs 50% capped

#### GB chassis - top feed

Pole capacity	Catalogue no. 250A
24way 3Pole	GB2-2418-3TF
36way 3Pole	GB2-3618-3TF
48way 3Pole	GB2-4818-3TF
60way 3Pole	GB2-6018-3TF
72way 3Pole	GB2-7218-3TF
84way 3Pole	GB2-8418-3TF
96way 3Pole	GB2-9618-3TF

#### General accessories

Pole capacity	Catalogue no.
Tee-off cap	GBTOC
Toggle joining bar 3P	GBTB3
DIN through terminal 100A	DINTT100A



## Concept escutcheons

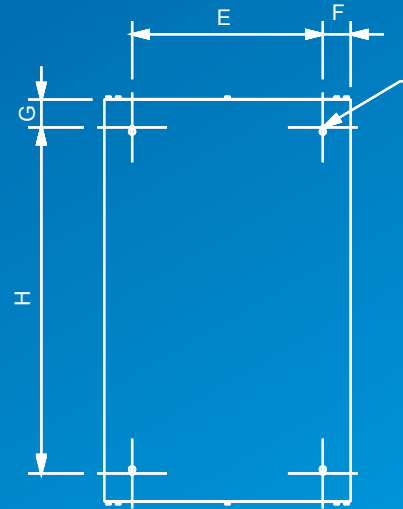
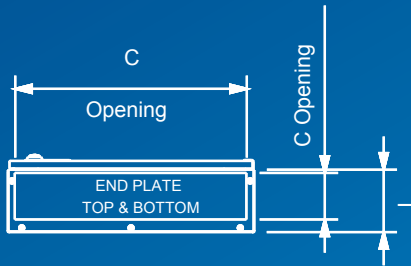
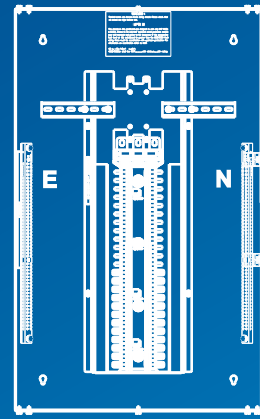
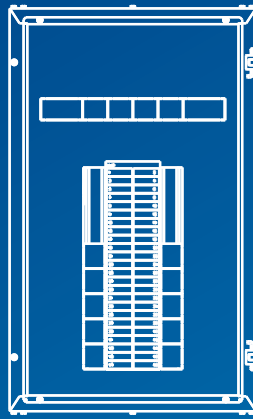
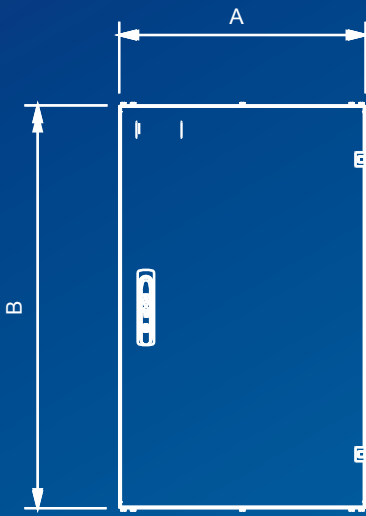
Description	Catalogue no.
<b>Escutcheons - to suit stockboards (comes complete with hinge and fastening screws)</b>	
Escutcheon 24 way 3M-648mm white	CELES3D24AP
Escutcheon 36/48 way 4M-864mm white	CELES4D48AP
Escutcheon 60 way 5M-1080mm white	CELES5D60AP
Escutcheon 72/84 way 6M-1296mm white	CELES6D84AP
Escutcheon 96 way 7M-1512mm white	CELES7D96AP
<b>Escutcheons - horizontal cut-out (comes complete with hinge and fastening screws)</b>	
Escutcheon 24 way 1 row 24 ways 2M-432mm white	CELES224ACCAP
Escutcheon 48 way 2 rows 24 ways 2M-432mm white	CELES248ACCAP
Escutcheon 72 way 3 rows 24 ways 3M-648mm white	CELES372ACCAP
<b>Escutcheons - blank (comes complete with hinge and fastening screws)</b>	
Escutcheon blank 1M-216mm white	CELES1NAP
Escutcheon blank 2M-432mm white	CELES2NAP
Escutcheon blank 3M-648mm white	CELES3NAP
Escutcheon blank 4M-864mm white	CELES4NAP
Escutcheon blank 5M-1080mm white	CELES5NAP
Escutcheon blank 6M-1296mm white	CELES6NAP
Escutcheon blank 7M-1512mm white	CELES7NAP
Escutcheon blank 8M-1728mm white	CELES8NAP
Escutcheon blank 9M-1944mm white	CELES9NAP
<b>Escutcheons - LOCKDIN (comes complete with hinge and fastening screws)</b>	
Escutcheon 24 way LOCKDIN 3M-648mm white	CELES3D24LAP
Escutcheon 36/48 way LOCKDIN 4M-864mm white	CELES4D48LAP
Escutcheon 60/72 way LOCKDIN 5M-1080mm white	CELES5D60LAP
Escutcheon 84 way LOCKDIN 6M-1296mm white	CELES6D84LAP
Escutcheon 96 way LOCKDIN 7M-1512mm white	CELES7D96LAP
<b>Escutcheons - X-row (comes complete with hinge and fastening screws)</b>	
Escutcheon X-ROW 30 way 4M-864mm white	CELES4D30H1AP
Escutcheon X-ROW 48 way 5M-1080mm white	CELES5D48H1AP
Escutcheon X-ROW 72 way 7M-1512mm white	CELES7D72H1AP
Escutcheon X-ROW 96 way 8M-1728mm white	CELES8D96H1AP

## Concept escutcheons

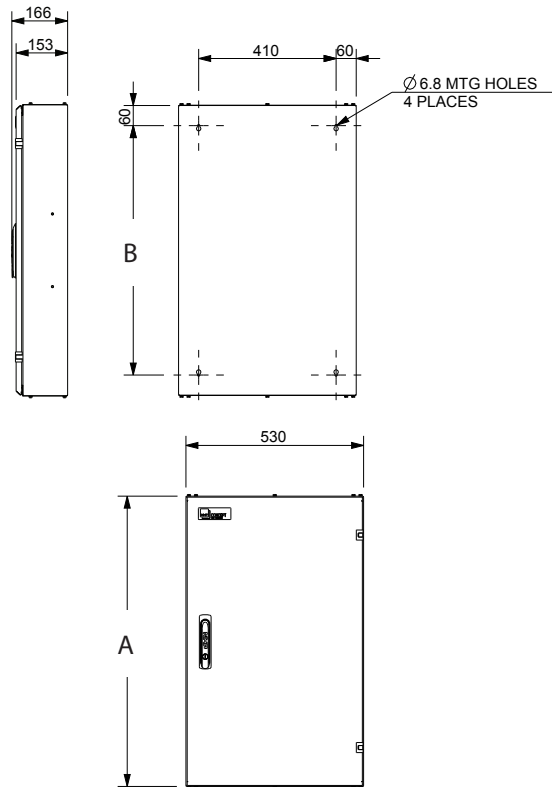
Description	Catalogue no.
<b>Escutcheons - Concept Premier GB locking (comes complete with hinge and fastening screws)</b>	
Escutcheon 12 way GB lockout mechanism 3M-648mm white	<b>CELES3G12LAP</b>
Escutcheon 24 way GB lockout mechanism 3M-648mm white	<b>CELES3G24LAP</b>
Escutcheon 36 way GB lockout mechanism 4M-864mm white	<b>CELES4G36LAP</b>
Escutcheon 48 way GB lockout mechanism 4M-864mm white	<b>CELES4G48LAP</b>
Escutcheon 60 way GB lockout mechanism 5M-1080mm white	<b>CELES5G60LAP</b>
Escutcheon 72 way GB lockout mechanism 6M-1296mm white	<b>CELES6G72LAP</b>
Escutcheon 84 way GB lockout mechanism 6M-1296mm white	<b>CELES6G84LAP</b>
Escutcheon 96 way GB lockout mechanism 7M-1512mm white	<b>CELES7G96LAP</b>

*All escutcheons are white and come complete with hinges and fasteners*

# Concept technical



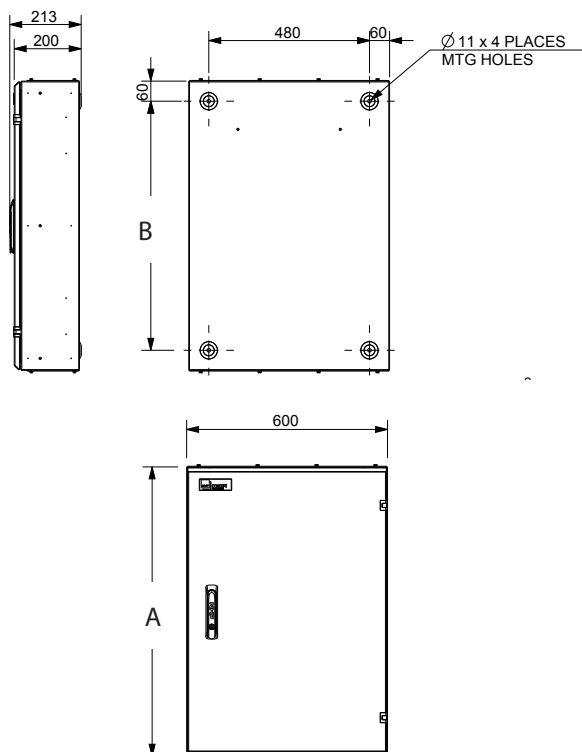
## Concept One



Mounting dimensions

Module size	A	B
2	432mm	312mm
3	648mm	528mm
4	864mm	744mm
5	1080mm	960mm
6	1296mm	1176mm

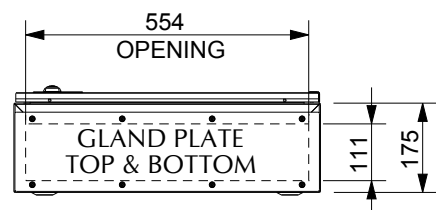
## Concept Plus



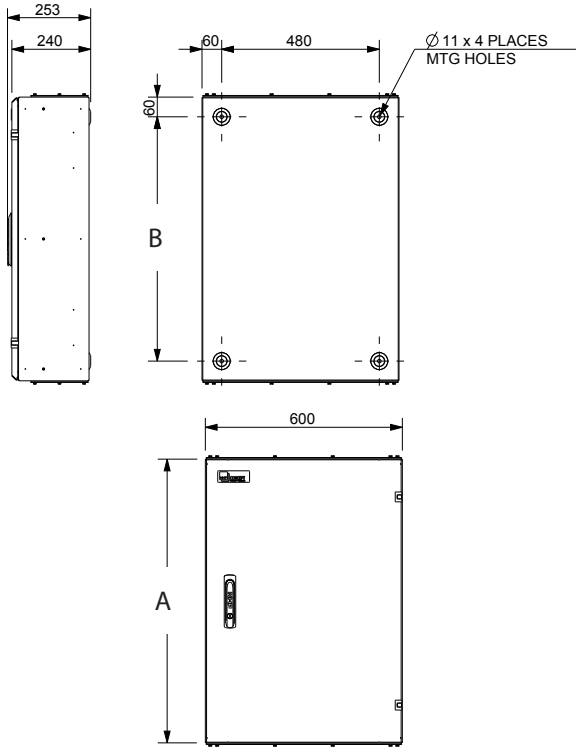
Mounting dimensions

Module size	A	B
2	432mm	312mm
3	648mm	528mm
4	864mm	744mm
5	1080mm	960mm
6	1296mm	1176mm
7	1512mm	1392mm
8	1728mm	1608mm
9	1944mm	1824mm

Plan view



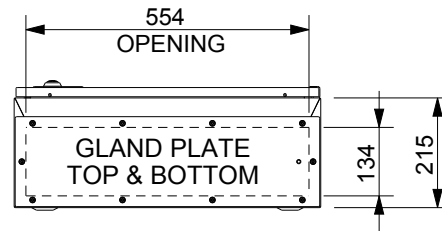
## Concept Premier



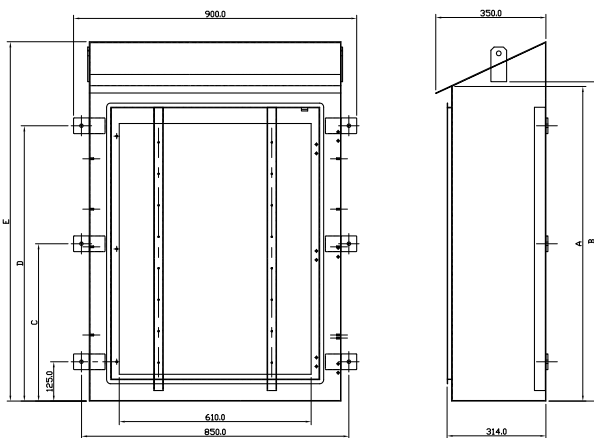
### Mounting dimensions

Module size	A	B
2	432mm	312mm
3	648mm	528mm
4	864mm	744mm
5	1080mm	960mm
6	1296mm	1176mm
7	1512mm	1392mm
8	1728mm	1608mm
9	1944mm	1824mm

### Plan view



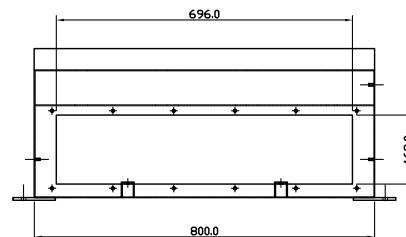
## Concept Tough

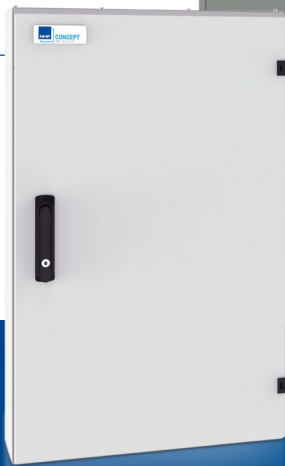
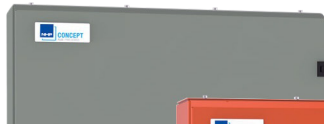


### Mounting dimensions

Box size	A	B	C	D	E
Size 2	1000	1015	-	750	750
Size 3	1500	1515	750	1375	750
Size 4	2000	2015	1000	1875	2142

### Plan view





# PANELBOARDS and AS/NZS 61439

## Ensuring compliance to latest standards

NHP catalogued Concept Panelboards have been verified to both AS/NZS 61439.2 and AS/NZS 61439.3.

The Concept Panelboards are marked to AS/NZS 61439.3 unless it falls outside the scope of this standard. AS/NZS 61439.3. Distribution Panelboards are intended to be operated by ordinary persons (DBO), so have additional requirements over and above of AS/NZS 61439.2.

### Is my Panelboard compliant?

NHP Concept Panelboards are compliant which can be identified by the required fields that must be durably marked on the panelboard and by supporting documentation such as Supplier Declarations of Conformity SDoCs as well as documenting other required characteristics.

### What to look for on the panelboard

The assembly should be marked in a durable manner (not simple paper label) and be visible and legible when installed and in operation.

#### Required markings AS/NZS 61439.2 (items 1-4)

- 1) Manufacturer's name
- 2) Identification number
- 3) Means of identifying date of manufacture
- 4) 61439 standard that it is built to (i.e. Part 2 or 3)

#### Required markings AS/NZS 61439.3 (items 1-6)

- 5) Rated current of DBO  $I_{nA}$
- 6) IP rating if greater than IP 2XC

**NHP CONCEPT**

**Concept One**

- 1 Part No: **COE24LG**
- 2 MCB Type: **NHP MOD6/DIN-T**
- 4 Standard: **AS/NZS 61439-3**
- Busbar rating: **250A**
- Main Switch:
- 5  $I_{nA}$ : **250A**
- 6 IP Rating: **IP40**
- Pole Capacity: **24way**
- Voltage  $U_n$ : **240/415V AC 50Hz**
- 3 Batch No: **20/05/2020**

This switchboard has been manufactured to the assemblies' standard AS/NZS 61439.3 but also meets the requirements for a higher level of form of internal separation as per AS/NZS 61439.2.

**Supplier Declaration of Conformity (SDOC)**

SDOC Identification Number: NHPDCE.002

**Supplier Declaration of Conformity (SDOC)**

SDOC Identification Number: NHPDCE.002

Signature: *[Signature]*

# Customised manufactured solutions that add value



Our National Manufacturing and Distribution Centre in Laverton, Victoria highlights NHP's commitment and expertise in local manufacturing. At this state-of-the-art facility, our expert team brings together a range of manufacturing services under one roof, enabling us to provide our customers with the service they require to meet their varied objectives.

NHP is dedicated to providing an end-to-end manufacturing service that brings together a range of value-add services extending far beyond the assembly itself. These services instill confidence across the lifespan of a project and ultimately enables customers to increase their efficiencies as well as lower the total cost to manufacture through a reduction in the build and commissioning time.

## Value-add services:

- Consulting
- Design
- Processes and production
- Project management
- Engineering
- Quality and compliance

## Key manufacturing solution groups:

- Power Distribution
- Energy Management
- Motor Control and Automation
- Hazardous Environments

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