

All 'MD' range of boards are made from High-density polyethylene (HDPE).

The 10mm thick 300-Grade High Density Polyethylen, offers good impact resistance, chemical resistance and high rigidity.

<p>0.96 g/cm³</p> <p>Density of 0.96 g/cm³</p>	<p>Impact strength of 10 kJ/m²</p>	<p>Less than 0.01% moisture absorption</p>
<p>Service temperature from -25to +50°C</p>	<p>1014Ω</p> <p>Greater than 1014Ω surface resistance</p>	<p>IP44</p> <p>IP44 Rated</p>

All boards are manufactured with adequate lifting points either handles or forklift pockets.

Sizes 1 to 4 have manufactured lifting handles within the board. Sizes 5 to 6 have stainless steel crash frames complete with forklift pockets.

Connection options, plug n play through either:

- > Cee form connectors
- > Power safe connectors
- > All MD Boards are stackable

Built & designed to the following legislation:

- > Built and Manufactured to IP44 standard.
- > IP44 means that it is protected against solid objects that are bigger than 1mm.
- > And water splashing from all directions.

IDE have 6 different 'standard' size boards*

Size 1: Dimensions 300mm (height) x 550mm (width) x 495mm (depth). Lifting: 1 person lift. Note: "Your logo here" on the front panel.

Size 2: Dimensions 450mm (height) x 550mm (width) x 495mm (depth). Lifting: 1 person lift.

Size 3: Dimensions 600mm (height) x 550mm (width) x 495mm (depth). Lifting: 2 person lift.

Size 4: Dimensions 750mm (height) x 550mm (width) x 495mm (depth). Lifting: 2 person lift.

Size 5: Dimensions 1092mm (height) x 612mm (width) x 495mm (depth). Lifting: Forklift.

Size 6: Dimensions 1392mm (height) x 612mm (width) x 495mm (depth). Lifting: Forklift.

All front & back plates can be manufactured to customer specification dependant on space. Sockets and back plates are recessed fully to protect during transit. Full width rail support bars for all switch gear.

* images shown not to scale

IDE testing procedure



Visual Inspection

- > Check cables (Sizing/Damage/Colour)
- > Ensure barriers and shrouds are fitted
- > Windows correctly fitted
- > Clearance's (copper laminations)
- > Terminations
- > Electrical connections
- > Earth bar
- > Check protective devices and switch gear to BOM
- > Sockets
- > Check all steel enclosures have pad lock cowls fitted on e.g. SDs in crash frames



Testing

- > Check all termination tightness
- > Prove the test equipment
- > Continuity of all conductors including protective earth
- > Insulation resistance between all conductors to all conductors @ 500V DC
- > Flash test@ 2.5KV if required
- > Connect M3PPI before live test



Testing

- > Fit all covers and shrouds LIVE TEST - No unauthorised access during live testing
- > Test the test equipment on a known source
- > Polarity
- > Phase sequence
- > Led illumination
- > Function test – test buttons/e-stop/MF meters/climate control
- > RCD trip time test
- > Re-test the test equipment on a known source



Final Testing

- > All Warning Labels are fitted and correct (continuity of label placement across IDE fleet)
- > All drawings and data sheets are correct and attached
- > Test certification signed off and attached
- > All relevant keys to be attached (ELR/Panel/AMF)
- > Next inspection is by our customer so make sure all is correct

Certificate of Conformity

BS EN 60309-1:1999+A2:2012

Plugs, socket-outlets and couplers for industrial purposes. General requirements

BS EN 60309-2:1999+A2:2012

Plugs, socket-outlets and couplers for industrial purposes. Dimensional interchangeability requirements for pin and contact-tube accessories

BS EN 61439-2,3,4,5,7:2012

Low-voltage switchgear and control gear assemblies. Particular requirements for low-voltage switchgear and control gear assemblies intended to be installed in places where unskilled persons have access to their use. Distribution boards

BS EN 60529:1992+A2:2013

Specification for degrees of protection provided by enclosures (IP code)

BS EN 60947-1:2007+A2:2014

Low-voltage switchgear and control gear. General Rules

BS EN 60947-2:2017

Low-voltage switchgear and control gear. Circuit-breakers

EN 60947-7-1:2009

Low-voltage switchgear and control gear. Ancillary equipment. Terminal blocks for copper conductors

EN 61009-1:2004

Residual current operated circuit-breakers with integral over current protection for household and similar uses (RCBO's). General rules

BS 7671:2018

Requirements for electrical installations. IEE Wiring Regulations. Seventeenth edition

BS 7909:2011

Code of practice for temporary electrical systems for entertainment and related purposes

BS 7375:2010

Distribution Of Electricity On Construction And Demolition Sites-Code Of Practice