

MODUTEC

Simplifying Panel Building



MANI GROUP OF COMPANIES



1983

MANI SALES (BANGALORE)

ELECTRICAL DISTRIBUTORS

mPowering Solutions – www.manisales.net

- LEGRAND
- ABB
- SOCOMEC
- ELECTRON



1990

LOAD CONTROLS I. P. L.

LV & MV SWITCHBOARD MFG

Powering your World – www.loadcontrols.net

- MV PARTNERS - SCHNEIDER
- PQ PARTNERS FOR TDK
- PANEL PARTNER - MODUTEC
- MFG MCC, PCC, BUS DUCTS.



2007

MODUTEC READY PANELS P.L.

MFG. MODULAR ENCLOSURES

Simplifying Panel Building – www.modutec.net

- IEC 61439 1&2 TT ENCLOSURES
- FORM 1 TO 4 DESIGNS
- MODSIM SOFTWARE
- CUSTOMISED ENCLOSURES



Mr Ramani Mani
Founder

PRODUCTS

Modular Electrical
Enclosure Systems
**Type Tested –
Flat Pack**

MODUTEC
Simplifying Panel Building



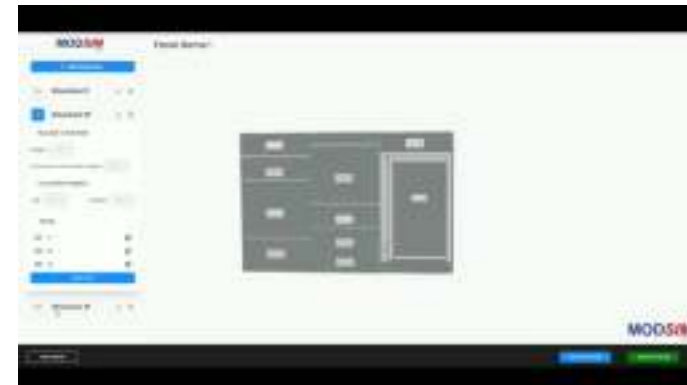
MODDIS

MODUTEC
Simplifying Panel Building



MODBAY

MODUTEC
Simplifying Panel Building



Backed by **MODSIM Software** for Estimation & Manufacturing

FASTER

- On-Time Delivery
- Lead Time Reduction

TRUST

- IEC 61439 1&2 Certified
- Reliable & Standardised

CHOICE

- Multiple Switchgear makes
- Design is flexible & versatile

PARTNER

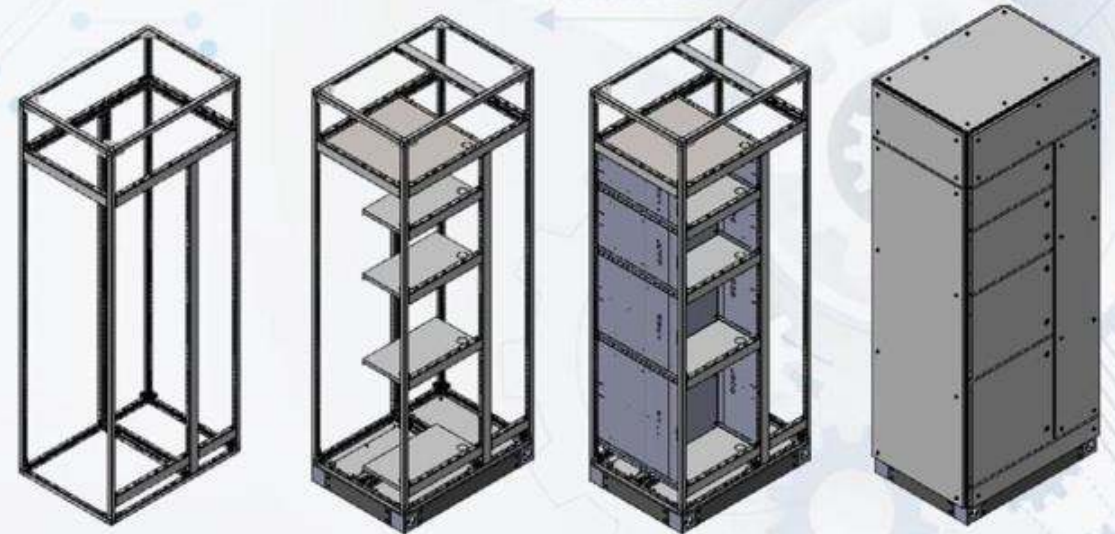
- More than 80 across India
- Declaration of Compliance

SOFTWARE

- Transparent estimation
- Aids manufacturing too



BENEFIT



MODUTECH
Simplifying Panel Building

40%

EXPORT

OUR GLOBAL SPREAD

MODUTEC
Simplifying Panel Building



-  AUSTRALIA
-  NEW ZEALAND
-  SOUTH EAST ASIA
-  MIDDLE EAST & AFRICA
-  INDIA
-  EUROPE

Highest Number of Type Testing Done on an Enclosure of Indian Origin!



MODUTEC

Simplifying Panel Building



Intertek
ASTA CERTIFICATE
of Verification

Laboratory Ref. No.: L560W021801

APPARATUS: 2000A, 415V/50Hz
 Contactor with vertical busbar
 incoming MCCB

DESIGNATION: 415V SWITCH

VENDOR: LG Electronics
 2nd Stage, India

TESTED BY: Electrical Test
 DEKRA Road, India

DATES OF TESTS: 10th January 2019

The apparatus, constructed in accordance with the certificate has been subjected to the following tests:

IEC 61439-1:
 Verification of:

- 1) Strength of materials and parts
- 2) Degree of protection
- 3) Clearance
- 4) Creepage distances
- 5) Protection against electric shock

The results are shown in the report in accordance with the certificate. The results are also available in the report in accordance with the certificate.

This certificate applies only to the apparatus in the same or other designations as those specified in the report no. 4000281 01-ENC, dated 10/01/2019.

TEST CERTIFICATE

Issued to: LG ELECTRIC CO., LTD.
 Cheongju Plant 2
 Wollyong-ro 40011
 Chungcheongbuk-do
 South Korea

For the product: Low voltage switchgear

Trade name: LG ELECTRIC - EM

Type/Model: 1000A Modular Pole

Ratings: I_{cu} 1000 A (at 50 °C)
 8000, max. 8000
 I_{cs} 50 kA - 3 s (main)
 I_{cs} 50 kA - 1 s (standby)
 I_{cs} 50 kA @ 415 V IIR
 For more details see

Manufactured by: LG ELECTRIC CO., LTD.
 RMC Manufacturing Unit
 Yelshanki, Bengaluru
 Karnataka, India - 56

Subject: Design verification

Requirements: IEC 61439-2:2010, 1
 Clause 10.2, 10.3

Remarks: This Test Certificate is granted on account of the results in report no. 4000281 01-ENC, dated 10/01/2019.

ASTA TYPE CERTIFICATE

VERIFICATION OF TEST

Project No: G104557666 **Certificate No:** ASTA-TYPE-000889

Applicant: Modutec Ready Panels Private Limited,
 No.4, K Ashwath Industrial Layout, Uttari Road, Off Kanakapura Road,
 Eggalpur, Bengaluru - 560116, Karnataka, India.

Apparatus: 4000A, 415V/75kVAr (I_{cu}=I_{cs})/I_{cs} 50kA, IP43, extendable on both sides, power
 switchgear and controlgear (PSC) assembly incorporating a three phase and neutral,
 vertical and horizontal busbar system, with one incoming ACB unit, two outgoing ACB
 units, three outgoing MCCB units, one DOL starter and a protective circuit. U_e
 U_e=230V auxiliary circuit not connected to main circuit.

Manufactured By: Modutec Ready Panels Private Limited,
 No.4, K Ashwath Industrial Layout, Uttari Road, Off Kanakapura Road,
 Eggalpur, Bengaluru - 560116, Karnataka, India.

Tested By: ERDA, Electrical Research and Development Association, Vadodra-390010, India
 CPRI, Central Power Research Institute, Bengaluru-560086, India
 Intertek India Private Limited, Mumbai-400022, India

Test Report No: CPRI/RSC/2170332, CPRI/RSC/2170375, WD-7122-085406, G104557666-MUM-
 001, WD-2122-00207

Designation: PSC panel

IEC 61439-1 and 2: Edition 3.0 2010-05 and 2010-07 and BS EN 61439-2: 2011

Verifications with reference to the tests listed in Annex D of IEC 61439-1: 2010 and 3.0 2010-05

1: Strength of material and parts	6/7/8: No verification by testing required
2: Degree of protection of enclosures	9: Dielectric properties
3: Clearance	10: Temperature (the limits)
4: Creepage distances	11: Short-circuit withstood strength
5: Protection against electric shock and	12: Electromagnetic compatibility (EMC)

CERTIFICATE

DEKRA

1) U_e 415 V, I_{cu} 1000 A, max. U_{imp} 12 kV
 one incoming unit,
 two outgoing units

2) 3 phase VCB Panel

3) 3 phase VCB Panel

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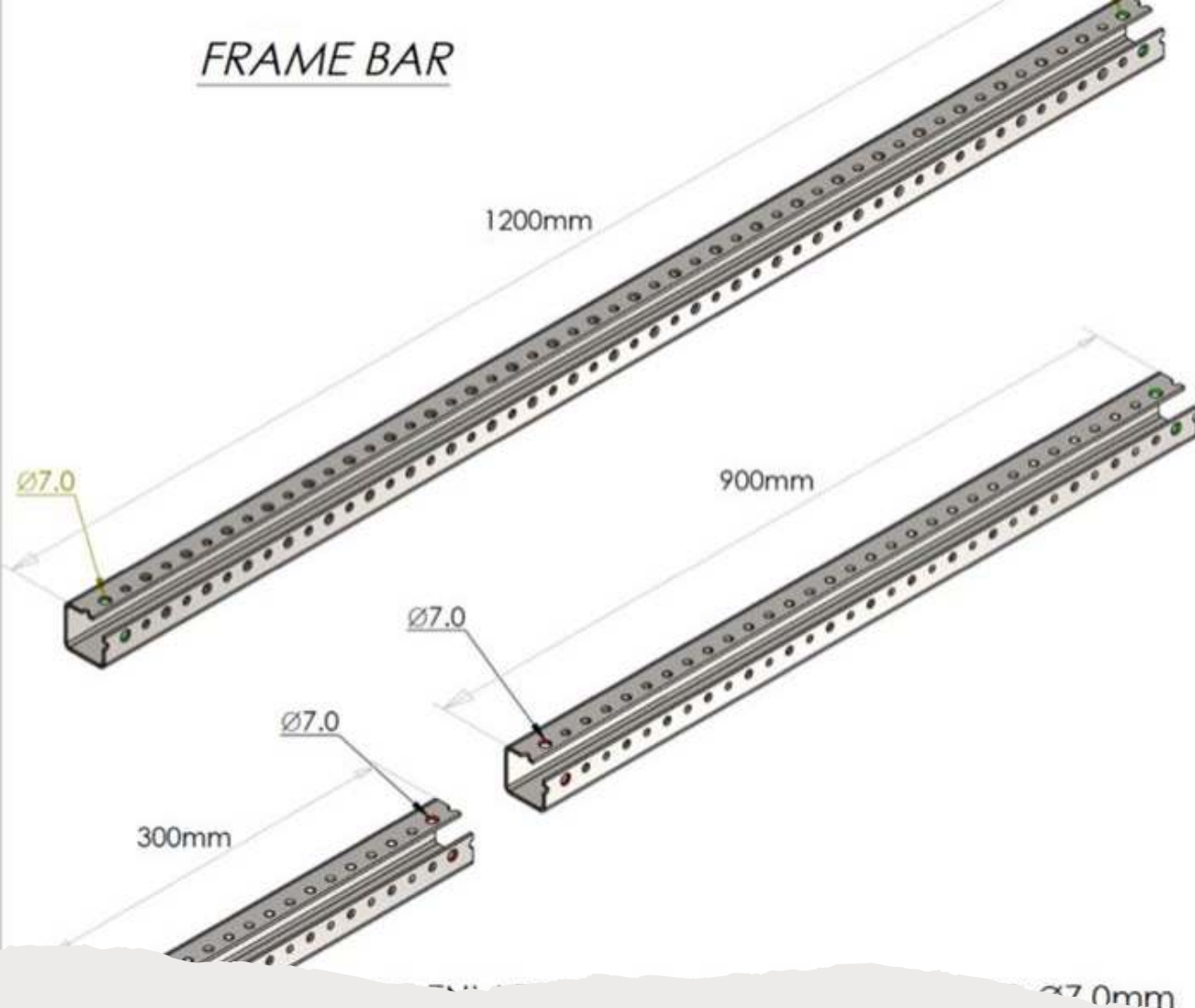
648) 3 phase VCB Panel

649) 3 phase VCB Panel

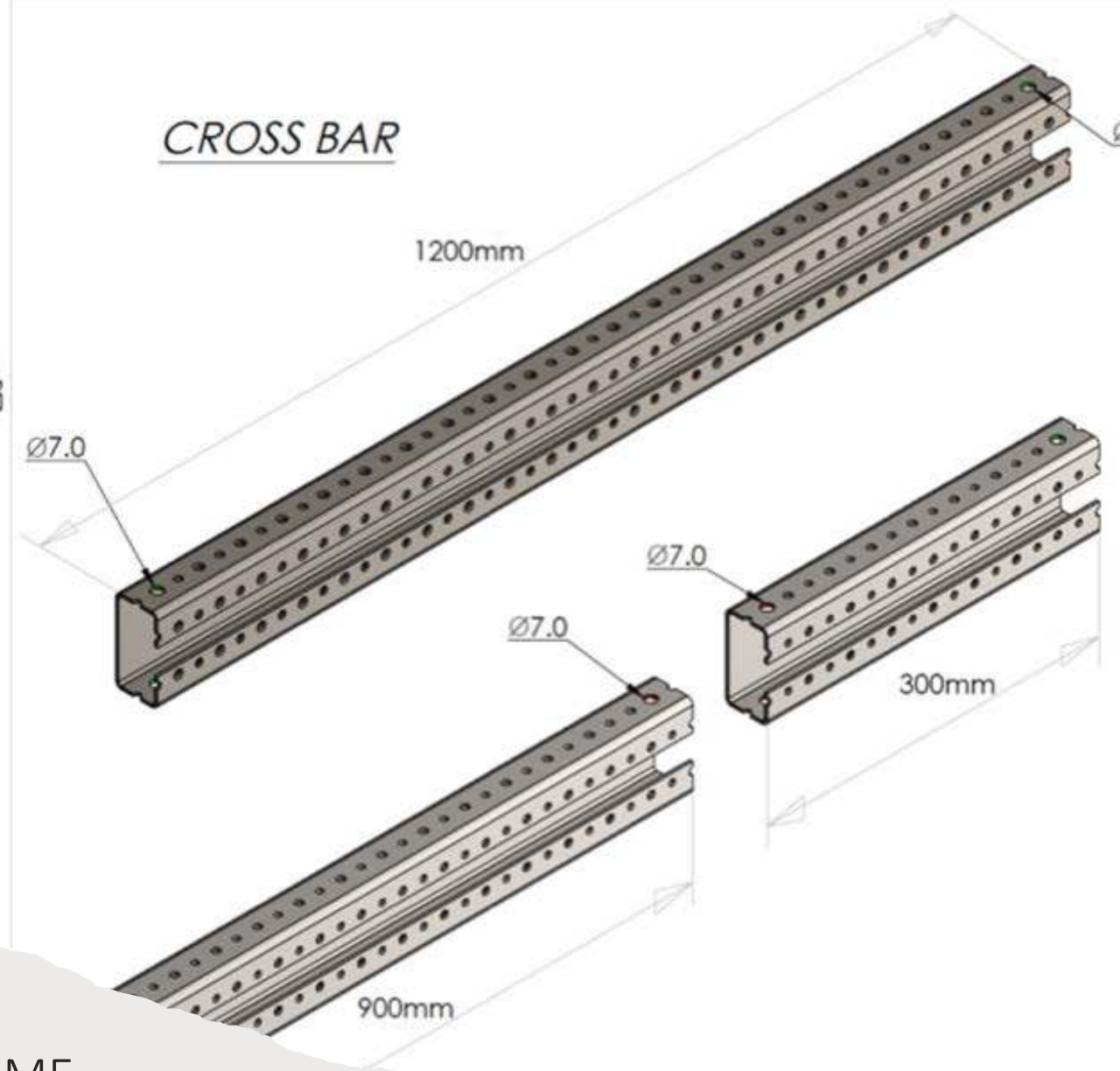
650) 3 phase VCB Panel

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FRAME BAR



CROSS BAR



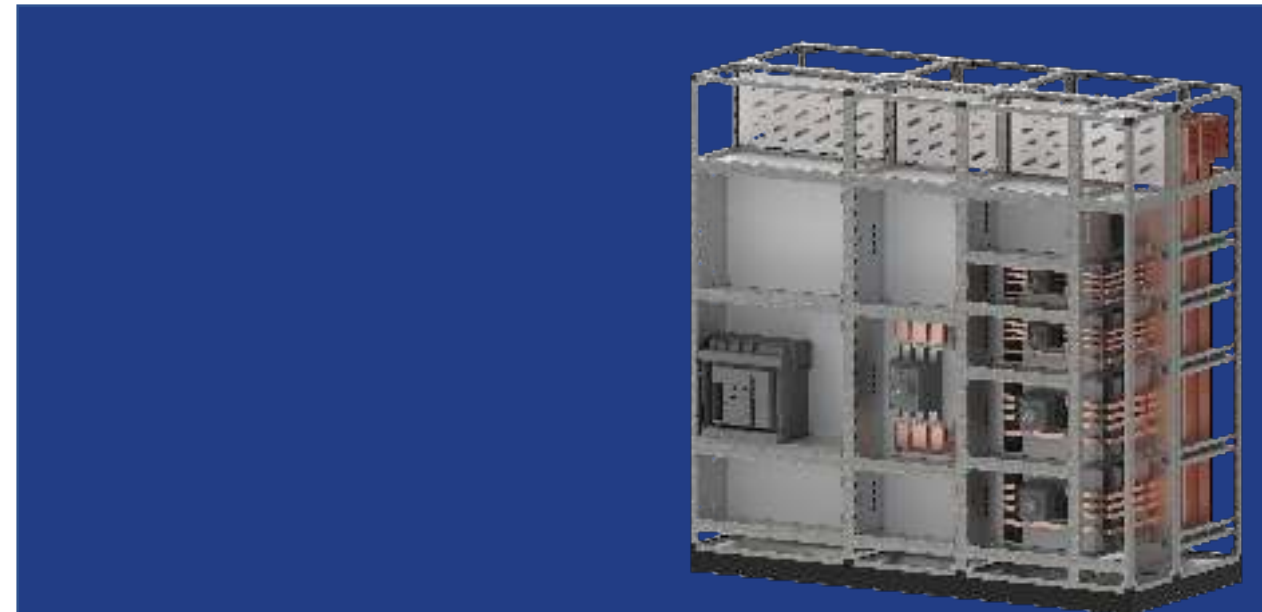
JUST TWO PROFILES THAT BUILD THE SKELETAL FRAME OF MODUTEC – MODDIS MODULAR ENCLOSURES

MODUTEC
Simplifying Panel Building

HOLES $\varnothing 5.45\text{mm}$ TO $\varnothing 7.0$
OR CHANNEL.

TECHNICAL DATA

- **Enclosure Material:**
 - Frame and Crossbars: 2 MM Thick Aluzinc
 - Doors & Covers: 1.6mm Thick Galvanised Steel
 - Internals: 1.2 mm Thick Aluzinc
- **Colour:** Light grey, RAL 7035 minimum 80µm
- **Supply systems:** TN-C, TN-S, TN-C-S, TT and IT
- **Internal separation:** FORM 1, 2a, 2b, 3a, 3b, 4a, 4b and type 1-7
- **Electro-magnetic compatibility:** Yes.
- **Rated current:** Up to 5000 Amps
- **Dielectric properties:** Up to 2.2 kV
- **Rated short-time withstand current:** Up to 100 kA
- **Rated peak withstand current:** Up to 220 kA
- **Rated voltage, insulation:** 1000 V AC
- **Rated operational voltage:** Up to 1000 V, 50 Hz
- **Degree of protection:** Up to IP55
- **Surface treatment:** Class C3



ADVANTAGES OF USING MODUTEC ENCLOSURES

- **IEC 61439 Compliance:** Modutec's Enclosures are designed based on IEC / AS NZS 61439 standards.
- **Switchgear Agnostic:** Modutec Enclosures are switchgear agnostic, allowing you to choose switchgear that suits your needs.
- **Flexibility:** Modutec Enclosures offer unmatched flexibility, making it possible to accommodate last-minute design changes.
- **Faster Project Execution:** Modutec enclosures follow the Skeleton First and Skin Next Approach, saving you time and reducing lead times.
- **Fair-Priced Solutions:** Our offerings are competitively priced, offering substantial cost savings compared to equivalent competition.
- **Flat-pack System:** Shipped in Flat-pack System drastically reducing Shipment costs



MODBAY

Form II Modular, Flat pack & Bayable Enclosures.

- **Automation Enclosure solutions** that are free standing, bayable with unequalled space optimisation!
- **Single & Double Door;** plain or with glass single & double front & above all its flat pack!
- **A range of accessories** available with customisation & modification options and also colour combinations!

MODUTECH
Simplifying Panel Building



ACCESSORIES



MODSIM



MODUTECH
Simplifying Panel Building

Software for Estimation (Mechanical & Electrical) and Manufacturing.

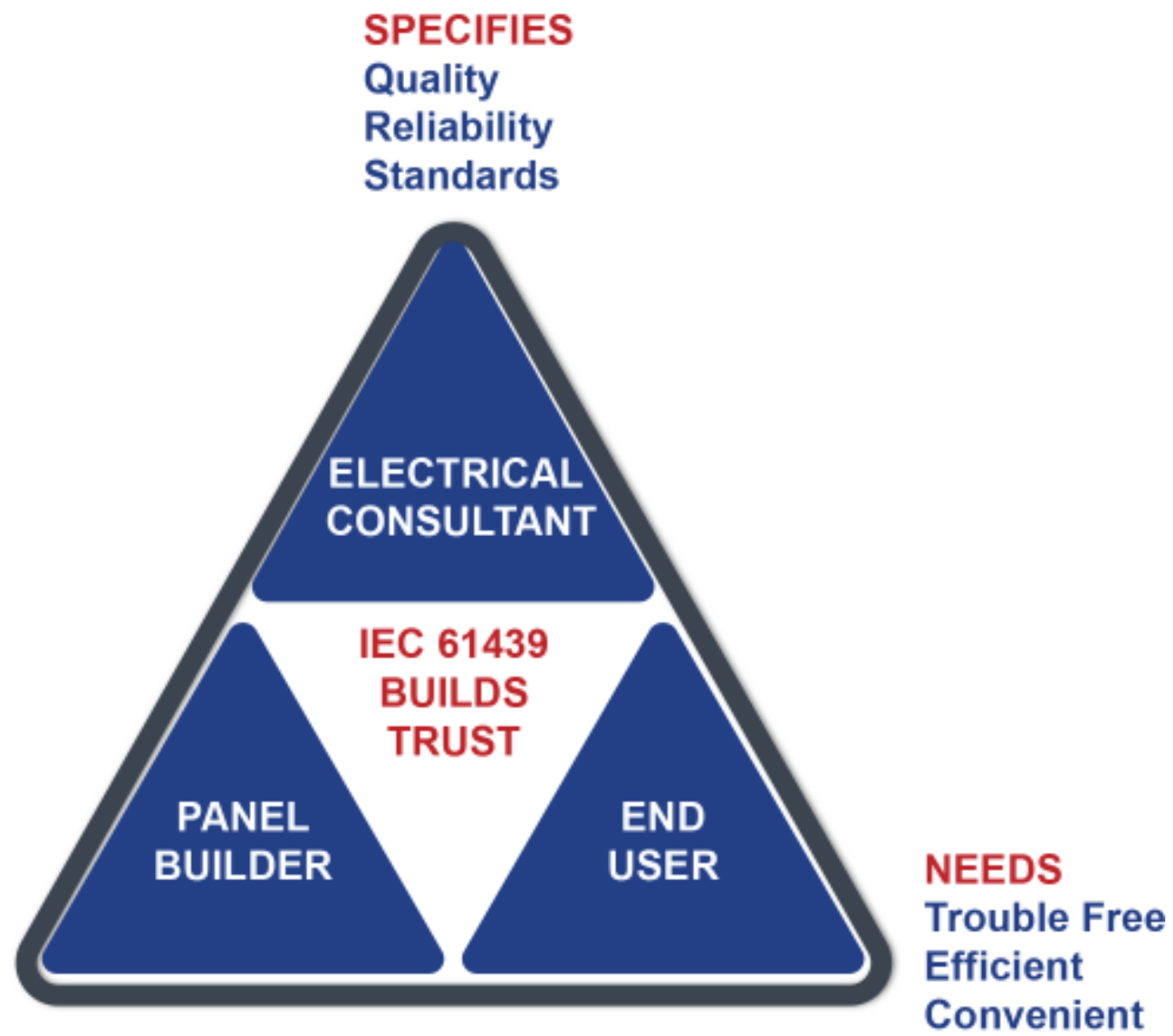
- ❑ **MODSIM** for mechanical estimation guides enclosure drawing to complete BOM with Catalog numbers!
- ❑ **MODSIM Plus** for Electro-Mechanical adds electrical BOM too for different switchgear & components!
- ❑ **MODSIM Pro** for Manufacturing gives development drawings per mechanical catalog number!

CALLING ELECTRICAL CONSULTANTS

IEC 61439 1&2 ensures switchboard standard Compliance for peace of mind.



MODUTECH
Simplifying Panel Building



MODUTEC

Simplifying Panel Building

OUR OFFICE TEAM WORKING TO MAKE
YOUR SWITCHBOARD SOLUTIONS
FASTER, SMARTER AND GREENER!



62,000 SFT OF INTELLIGENT INFRASTRUCTURE MANUFACTURING MODULAR ENCLOSURES

MODUTEC
Simplifying Panel Building



MODUTEC INFRASTRUCTURE

Simply Intelligent & Integrated

MODUTEC



Order to Design to PPC



CNC Fabrication



9 Tank Pre-Treatment & Powder Coating



Inward Inspection & Stocking



Assembly, Packing & Dispatch

MODUTEC

Simplifying Panel Building



TAKING THE MODULAR CONCEPT WORLDWIDE



THANKS

Partner for Progress!

CONTACT US

To Learn More About Our Products.



sales@modutec.net



modutec.net