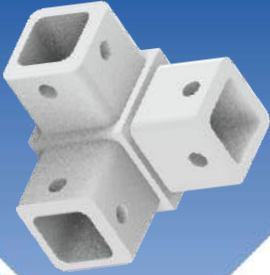


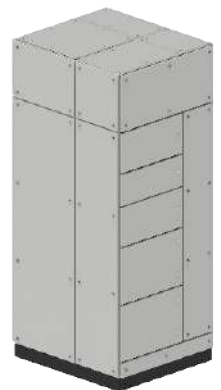
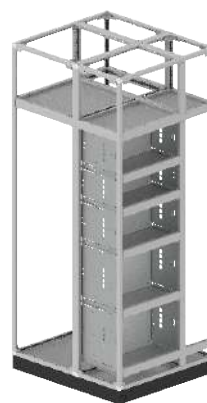
FASTER



FLEXIBLE



FAIR PRICED



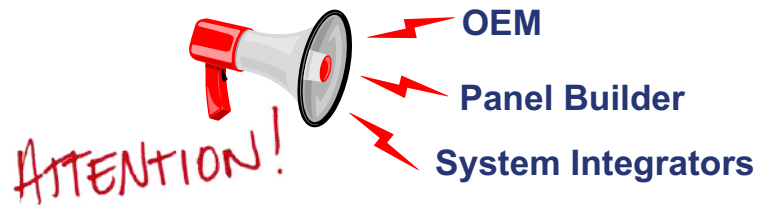
MODDIS

FORM 3 & 4 TYPE TESTED ENCLOSURES

STANDARDIZED

SYSTEMATIZED

SIMPLIFIED



MODDIS is extensively tested and verified to IEC 61439-1-2, Edition 3 standards for low voltage switchboards. All major brands of breakers, just fit perfectly into the MODUTEC modular switchboard enclosure system. It results from 35 years of innovative thinking, R&D and continuous testing at recognized test stations to global standards.

The growing demand in industrial power distribution, building & infrastructure are the important drivers increasing growth in the global electrical enclosure markets. World-wide the government of many countries has implemented stringent regulations regarding safety, compliance to IEC standards and world-class quality. To evangelize this trend and to enable any panel builder to build world-class panels in terms of quality, safety & technology, MODDIS leads in empowering: 'ON TIME DELIVERY', 'LEAD TIME REDUCTION' through 'SIMPLIFICATION'.

Unlike in the other modular models available abroad, with MODUTEC, the panel builder can shear (piece) the length of the frame bar or cross bar into smaller lengths (pieces) as required for use. This tremendously reduces the inventory, that needs to be carried, and work never gets constrained for want of a specific length of profile that may not be readily available in the stock => (peace of mind). This concept of "Piece – Pieces – Peace" is a Decisive Competitive Edge MODUTEC has.

These modular enclosures are available in different forms of construction, with a range of accessories and possibilities to address the need of every panel builder in a simple, systematized & standardized manner.

MODDIS modular enclosures are the most versatile switchboard enclosure systems at the best possible price. And, all the shipping sections of panels rest on a modular base frame which incorporates the possibility to join and design a free-standing line-up making it easy to transport section wise. **We also advise many more standardizations in our Partner Program to help simplify panel building.**



MODUTEC is committed to facilitating & scaling your panel board business with ease.

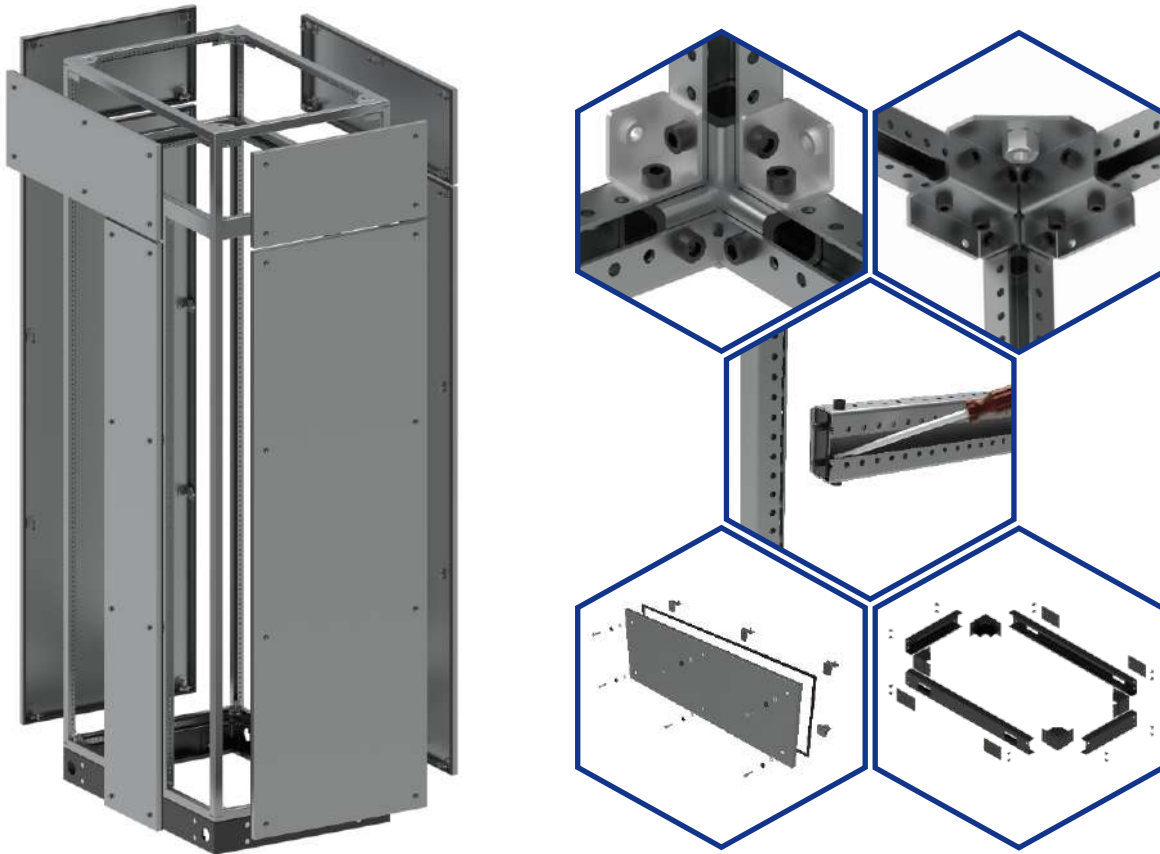


FASTER

SMARTER

SAFER

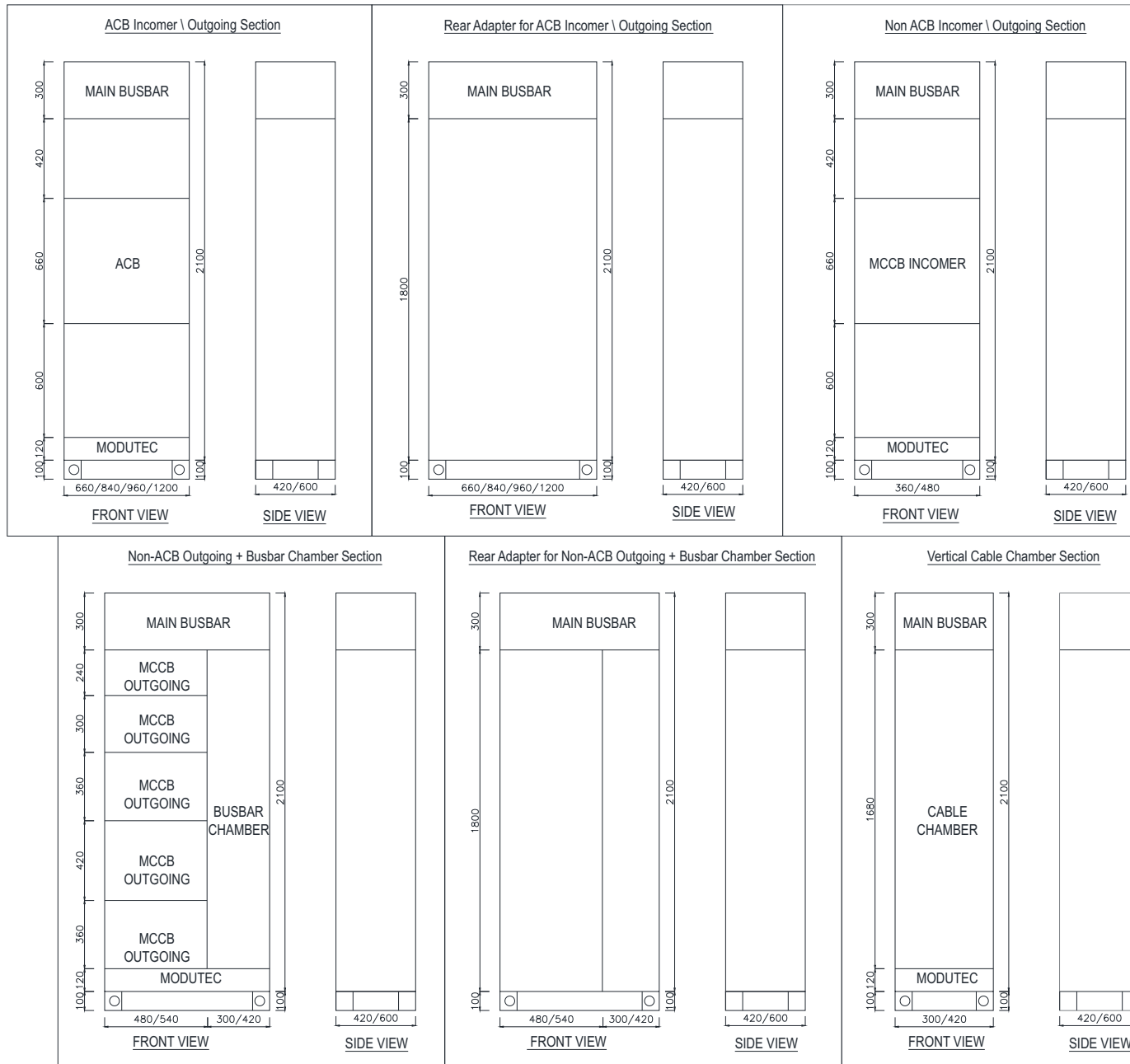
GREENER



Some of the salient features of MODDIS are as follows:

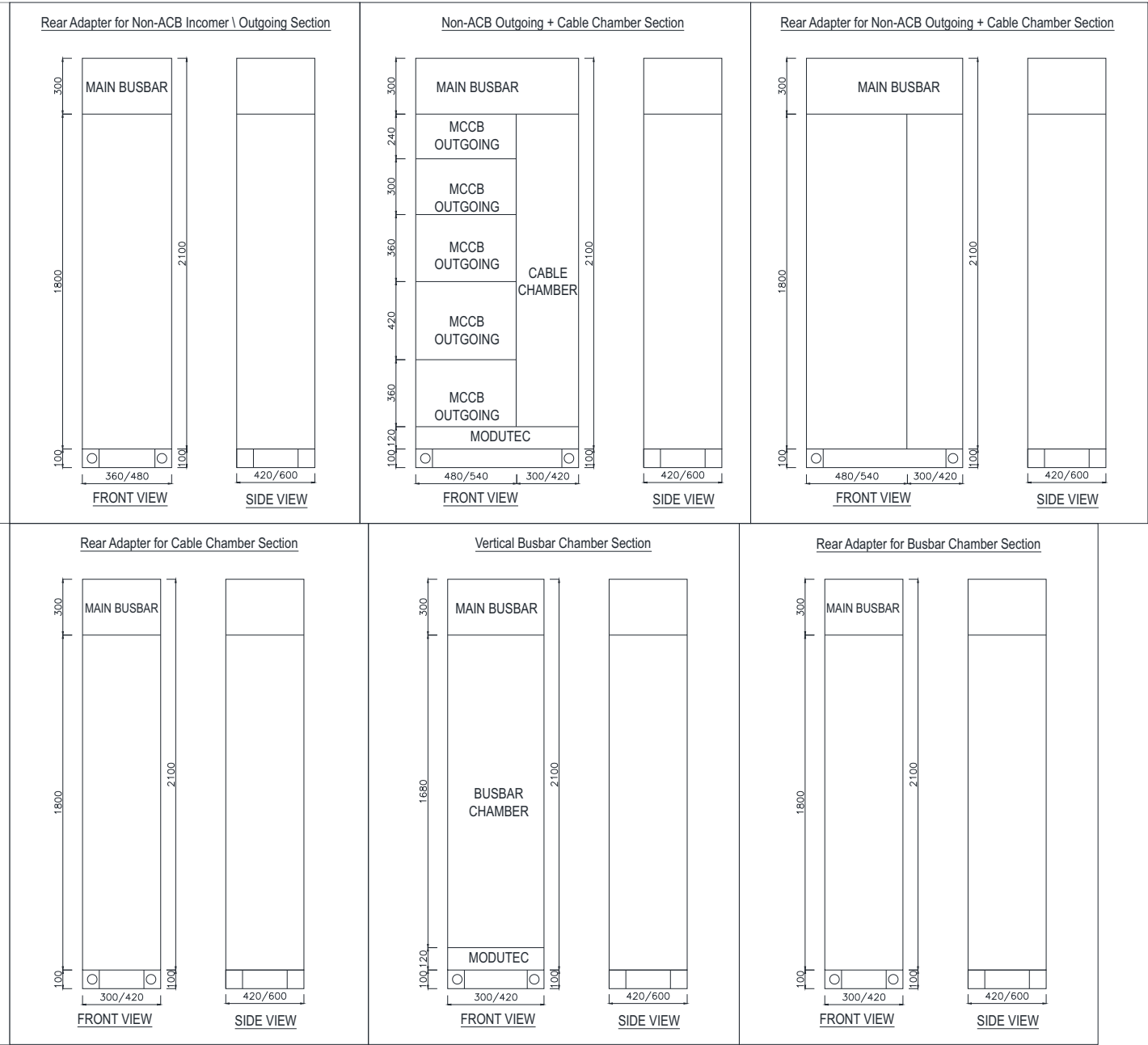
- Tested to IEC 61439-1 & 2 with ASTA, ERDA & CPRI Certifications for various Electrical switchgears.
- Type tested with 4000A Copper & 5000A Aluminium Busbars.
- Build to suit upto IP55, Form 4B Type 7 construction, 100 kA for 1 Sec Fault current ratings.
- Standardized W, H & D to limit your inventory carrying.
- Catalogued system for ease of identification.
- Very well illustrated assembly manuals & videos to support putting the panel together.
- Available in Pre-assembled or Flat Pack system to facilitate optimized freight cost & space to stock.
- Inventory carrying of the structural parts supports commencement of manufacturer on receiving of approved drawings.
- Flexible to change the design as per clients changing requirements at any time.
- Ease of shipment of parts over a long distance without damage due to flat pack.
- MODSIM software-driven tool helps to generate GA Drawings and Bill of Materials with pricing. Development drawings available for licensed users.
- Freedom to choose any electrical switchgear has Modutech is switchgear agnostic.
- Fairly priced in comparison with all IEC 61439 type tested branded options.

Standard Configurations



Note :

- ACB panel as per 4 sizes available.
- MCCB incomer for 2 frame sizes.
- Outgoing switchgear to 2 standard width's.
- Outgoing cable chamber to 2 standard width's.
- Outgoing busbar chamber to 2 standard width's.
- Marshalling stroke drive panel to single width with mounting plate.
- Side cover to 2 width's as per 2 depth's.
- Depth of panel can be 420mm / 600mm / 420+420 / 420+600 and so on..



MODDIS Standard Dimensions

SL No	Type of Section	Panel Height	Panel Width	Vertical Cable Chamber Width	Vertical Busbar Chamber Width	Panel Depth	IP 43	IP 54 / 55
1	ACB Incomer or Outgoing Section	2100	660	—	—	420	SS066210042A400	SS066210042A500
2			840	—	—		SS084210042A400	SS084210042A500
3			960	—	—		SS096210042A400	SS096210042A500
4			1200	—	—		SS120210042A400	SS120210042A500
5			660	—	—	600	SS066210060A400	SS066210060A500
6			840	—	—		SS084210060A400	SS084210060A500
7			960	—	—		SS096210060A400	SS096210060A500
8			1200	—	—		SS120210060A400	SS120210060A500
1A	Rear Adaptor For ACB Incomer or Outing Section	2100	660	—	—	420	SS066210042H400	SS066210042H500
2A			840	—	—		SS084210042H400	SS084210042H500
3A			960	—	—		SS096210042H400	SS096210042H500
4A			1200	—	—		SS120210042H400	SS120210042H500
5A			660	—	—	600	SS066210060H400	SS066210060H500
6A			840	—	—		SS084210060H400	SS084210060H500
7A			960	—	—		SS096210060H400	SS096210060H500
8A			1200	—	—		SS120210060H400	SS120210060H500
9	Non ACB Incomer or Outgoing Section	2100	360	—	—	420	SS036210042B400	SS036210042B500
10			480	—	—		SS048210042B400	SS048210042B500
11			360	—	—	600	SS036210060B400	SS036210060B500
12			480	—	—		SS048210060B400	SS048210060B500
9A	Rear Adapter For Non ACB Incomer or Outgoing Section	2100	360	—	—	420	SS036210042I400	SS036210042I500
10A			480	—	—		SS048210042I400	SS048210042I500
11A			360	—	—	600	SS036210060I400	SS036210060I500
12A			480	—	—		SS048210060I400	SS048210060I500

MODDIS Standard Dimensions

SL No	Type of Section	Panel Height	Panel Width	Vertical Cable Chamber Width	Vertical Busbar Chamber Width	Panel Depth	IP 43	IP 54 / 55
13	Non ACB Outgoing + Cable Chamber Section	2100	480	300	—	420	SS078210042C400	SS078210042C500
14			540	300	—		SS084210042C400	SS084210042C500
15			480	420	—		SS090210042C400	SS090210042C500
16			540	420	—		SS096210042C400	SS096210042C500
17			480	300	—	600	SS078210060C400	SS078210060C500
18			540	300	—		SS084210060C400	SS084210060C500
19			480	420	—		SS090210060C400	SS090210060C500
20			540	420	—		SS096210060C400	SS096210060C500
13A	Rear Adaptor For Non ACB Outgoing + Cable Chamber Section	2100	480	300	—	420	SS078210042J400	SS078210042J500
14A			540	300	—		SS084210042J400	SS084210042J500
15A			480	420	—		SS090210042J400	SS090210042J500
16A			540	420	—		SS096210042J400	SS096210042J500
17A			480	300	—	600	SS078210060J400	SS078210060J500
18A			540	300	—		SS084210060J400	SS084210060J500
19A			480	420	—		SS090210060J400	SS090210060J500
20A			540	420	—		SS096210060J400	SS096210060J500
21	Non ACB Outgoing + Busbar Chamber Section	2100	480	—	300	420	SS078210042D400	SS078210042D500
22			540	—	300		SS084210042D400	SS084210042D500
23			480	—	420		SS090210042D400	SS090210042D500
24			540	—	420		SS096210042D400	SS096210042D500
25			480	—	300	600	SS078210060D400	SS078210060D500
26			540	—	300		SS084210060D400	SS084210060D500
27			480	—	420		SS090210060D400	SS090210060D500
28			540	—	420		SS096210060D400	SS096210060D500

MODDIS Standard Dimensions

SL No	Type of Section	Panel Height	Panel Width	Vertical Cable Chamber Width	Vertical Busbar Chamber Width	Panel Depth	IP 43	IP 54 / 55
21A	Rear Adaptor for Non ACB Outgoing + Busbar Chamber Section	2100	480	—	300	420	SS078210042K400	SS078210042K500
22A			540	—	300		SS084210042K400	SS084210042K500
23A			480	—	420		SS090210042K400	SS090210042K500
24A			540	—	420		SS096210042K400	SS096210042K500
25A			480	—	300	600	SS078210060K400	SS078210060K500
26A			540	—	300		SS084210060K400	SS084210060K500
27A			480	—	420		SS090210060K400	SS090210060K500
28A			540	—	420		SS096210060K400	SS096210060K500
29	Vertical Cable Chamber Section	2100	—	300	—	420	SS030210042E400	SS030210042E500
30			—	420	—		SS042210042E400	SS042210042E500
31			—	300	—	600	SS030210060E400	SS030210060E500
32			—	420	—		SS042210060E400	SS042210060E500
29A	Rear Adaptor for Cable Chamber Section		—	300	—	420	SS030210042L400	SS030210042L500
30A			—	420	—		SS030210042L400	SS030210042L500
31A			—	300	—	600	SS042210042L400	SS042210042L500
32A			—	420	—		SS030210060L400	SS030210060L500
33	Vertical Busbar Chamber Section	2100	—	—	300	420	SS030210042F400	SS030210042F500
34			—	—	420		SS042210042F400	SS042210042F500
35			—	—	300	600	SS030210060F400	SS030210060F500
36			—	—	420		SS042210060F400	SS042210060F500
33A	Rear Adaptor for Busbar Chamber Section (Busbar supports here, if required will be extra)		—	—	300	420	SS030210042M400	SS030210042M500
34A			—	—	420		SS042210042M400	SS042210042M500
35A			—	—	300	600	SS030210060M400	SS030210060M500
36A			—	—	420		SS042210060M400	SS042210060M500

MODDIS Standard Dimensions

SL No	Type of Section	Panel Height	Panel Width	Vertical Cable Chamber Width	Vertical Busbar Chamber Width	Panel Depth	IP 43	IP 54 / 55
37	Marshaling / Drive Panel Section	2100	660	—	—	420	SS066210042G400	SS066210042G500
38			660	—	—	600	SS066210060G400	SS066210060G500
37A	Rear Adaptor Marshaling / Drive Panel Section	2100	660	—	—	420	SS066210042N400	SS066210042N500
38A			660	—	—	600	SS066210060N400	SS066210060N500
39	Side Cover	2100	—	—	—	420	SS000210042O400	SS000210042O500
40			—	—	—	600	SS000210060O400	SS000210060O500
41	Baying Kit	2100	—	—	—	—	SSBYK210000PXXX	SSBYK210000PXXX
42	Coupling Sheet	2100	—	—	—	420	SS000210042QXXX	SS000210042QXXX
43			—	—	—	600	SS000210060QXXX	SS000210060QXXX
44	Rear Cover	2100	300	—	—	—	SS030210000RXXX	SS030210000RXXX
45			360	—	—	—	SS036210000RXXX	SS036210000RXXX
46			420	—	—	—	SS042210000RXXX	SS042210000RXXX
47			480	—	—	—	SS048210000RXXX	SS048210000RXXX
48			540	—	—	—	SS054210000RXXX	SS054210000RXXX
49			660	—	—	—	SS066210000RXXX	SS066210000RXXX
50			840	—	—	—	SS084210000RXXX	SS084210000RXXX
51			960	—	—	—	SS096210000RXXX	SS096210000RXXX
52			1200	—	—	—	SS120210000RXXX	SS120210000RXXX

Note :

- The above dimensions have been optimized for maximizing productivity with minimal stock.
- Customized dimensions in multiples of 60mm preferably in X,Y,Z axis can be facilitated.
- The panel depths shown above can be either 420mm / 600mm / 600+420mm / 600+600 mm and so on as per specific site requirement.
- IP 43 panels have top plate and IP 54 top door on top of the panel to meet the respective IP clause.

The Part that Makes the Whole

MODUTEC Cross Bar:

A four bend profile that provides for the internal forms of construction as well. It adds to the strength of the Switchboard, as the weight of the Switchgear, Bus Bars etc are taken by this frame that gets built, not the walls as in conventional welded designs. These are available in 2400mm length pieces or in smaller sizes starting from 180mm.

MODUTEC Hinged Doors:

These come with a double bending on all 4 edges. This adds significantly to the strength, aesthetics & IP clause protection with polyurethane foam gaskets to boot. They are provided with concealed hinges and door locks as required.

MODUTEC Partition Plate :

These are used to segregate the different compartments width-wise, height-wise, and depth wise. These are used to form barriers, separate live parts from contact with humans and provide for construction forms as per IEC 61439 as required for the given application.

MODUTEC Fixed Type Compartment:

These are useful in building Form 3 & 4 types of construction and their sub forms as per IEC 61439 standard. The beauty of this system is that if for a reason, two compartments would need to be merged into one or vice versa to accommodate a changed project requirement, this can be easily achieved.





MODUTEC Bolted Covers:

The bolted cover has double bending on all 4 edges. The IP clause protection is achieved by using polyurethane foam gasket and sealing arrangement for fasteners.

MODUTEC Frame Bar:

A three-bend profile that's punched and pierced so as to make the assembly of the switchboard quick, while being flexible, adaptable and versatile. The pierced holes are at a pitch of 30mm which renders the system to make Switchboards in multiples of 30mm in the X, Y & Z axis. These are available in 2400mm length pieces or in smaller sizes starting from 180mm.

MODUTEC Plinth Profiles:

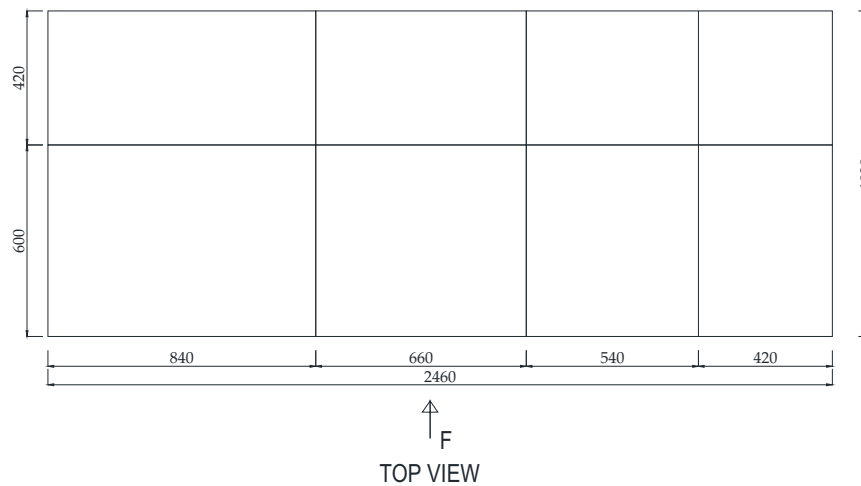
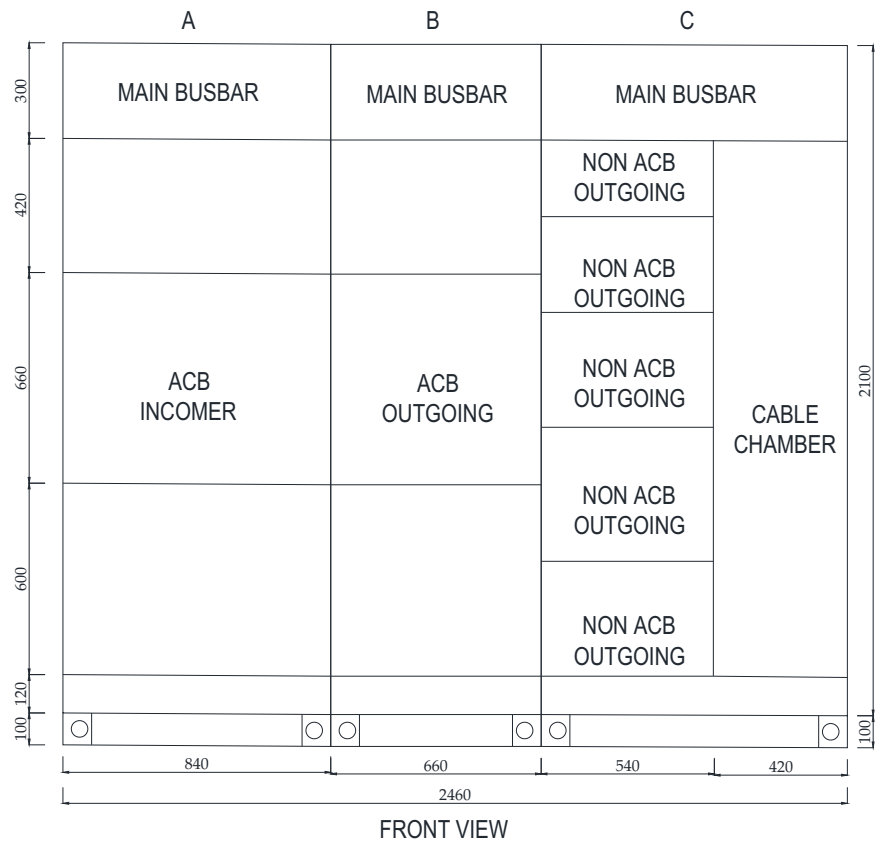
These are made out of 3mm steel and available in heights of 100mm or 200mm. For a given depth respective profile sizes are bolted together to form the base of the panel. The Plinth profiles are powder coated to black matt finish.

MODUTEC Tripod:

This is an aluminum alloy, pressure die cast and helps form the corners of the Switchboard shipping sections. It also aids in the earthing continuity of the Panel line up.

Reference GA

Say, you have a requirement as below and you want to arrive at part codes to be ordered, here is how you do it.

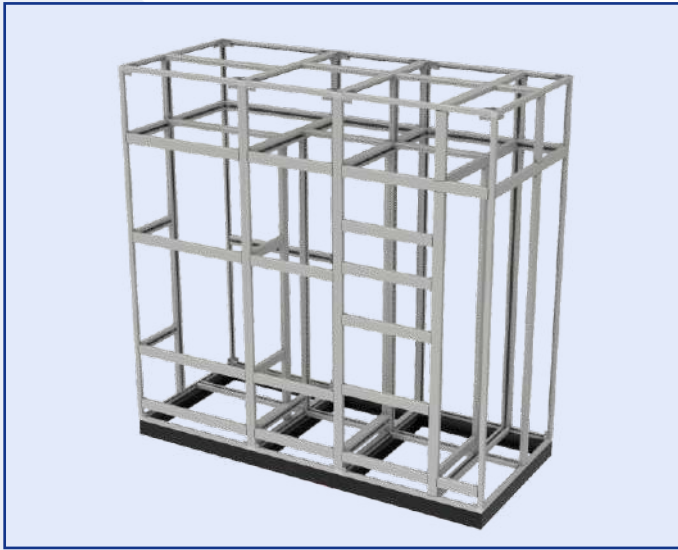


Note :

End to end width will be 2460+25+25mm for bolted doors for either end adding to 2510 mm.

How to Order

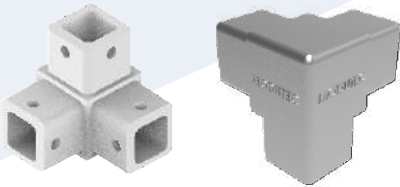
Panel IP	IP 55		
Panel Dimension	2460W x 2100H x 1020D(600+420)		
Column Number	Part Code	Description	Qty
A	SS084210060A500	ACB Incomer or Outgoing Section	1
A	SS084210042H500	Rear adaptor for ACB Incomer or outgoing section	1
A	SS084210000RXXX	Rear cover	1
A	SS000210042QXXX	Coupling Sheet	1
A	SSBYK210000PXXX	Baying Kit	1
B	SS066210060A500	ACB Incomer or outgoing section	1
B	SS066210042H500	Rear adaptor for ACB Incomer or outgoing section	1
B	SS066210000RXXX	Rear cover	1
B	SS000210042QXXX	Coupling Sheet	1
B	SSBYK210000PXXX	Baying Kit	1
C	SS096210060C500	Non ACB Outgoing + Cable Chamber Section	1
C	SS096210042J500	Rear adaptor for non ACB Outgoing + Cable Chamber Section	1
C	SS042210000RXXX	Rear cover	1
C	SS054210000RXXX	Rear cover	1
Side Cover	SS000210060O500	Side Cover	1
Side Cover	SS000210042O500	Side Cover	1



Structure Assembly



Structure Assembly with Bus Bars



Tripod



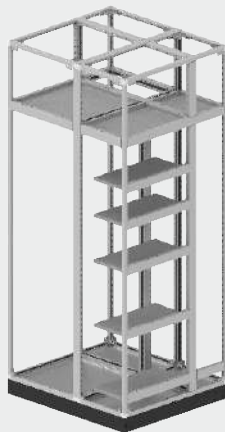
Frame Bar



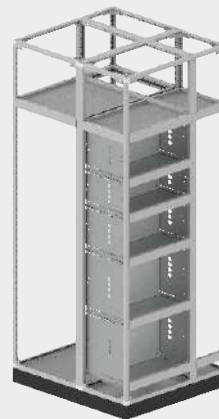
Cross Bar



Stage 1



Stage 2



Stage 3



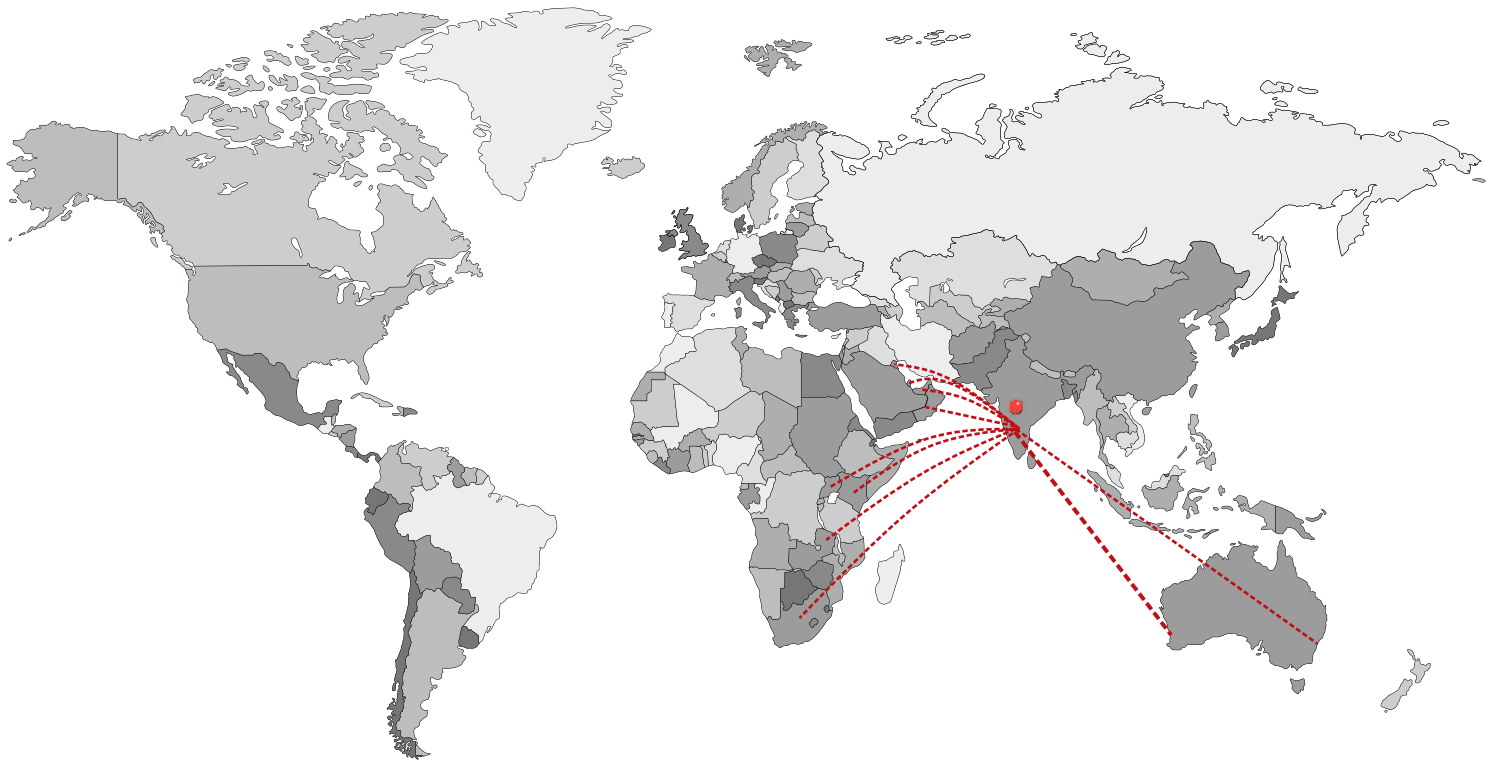
Stage 4

Technical Specifications for Modutec Enclosures

Description	Material	Thickness
Frame Bar	AluZn	2 MM
Cross Bar	AluZn	2 MM
Hinged Door	CRCA with PC	1.6 / 2 MM
Bolted Cover	CRCA with PC	1.6 / 2 MM
Gland Plate	CRCA with PC	3 MM
Side Separation Plate	GI	1.2 MM
Feeder Separation Plate	GI	1.2 MM
Coupling Sheet	GI	1.2 MM
Busbar Chamber Separation Plate	GI	1.2 MM
Top Cover / Bottom Cover	CRCA with PC	1.6 MM
Mounting Plate	GI	2 MM
Cable Ladder	GI	2 MM
Plinth	CRCA / ISMC with PC	3 MM CRCA / 75 / 100 ISMC
Busbar Support Fixing Channel	GI	2 MM
Busbar Insulators	SMC	
Busbar Insulator Support	GI	2 MM
With Modular Accessories	CRCA with ZINC Blue Passivation Plating	

Note :

The above specifications are indicative and are subjective to change without notice.



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