

WEE SYSTEM



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WeesMOD - A Complete Versatile
Multi-User Profile Frame Structure

Price List

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- Busbar Mounting Bracket

- Door / Cover

- Accessories

Patented Parts

- WEESMOD Corners WM01
- WEESMOD Busbar Support WM004
- WEESMOD Hinges WSH2

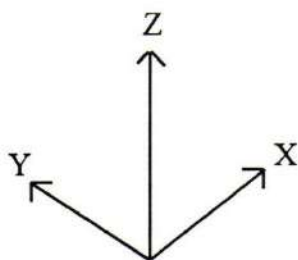
Application

- M .V. & L .V. switchboards
- Motor Control Centres (withdrawable and non- withdrawable)
- Generator Control Panels (eg. autosynchronising panel for parallel operations, automains failure, etc.)
- Power Factor correction system
- All kinds of distribution panels
- 19" equipment racks

MAIN STRUCTURE

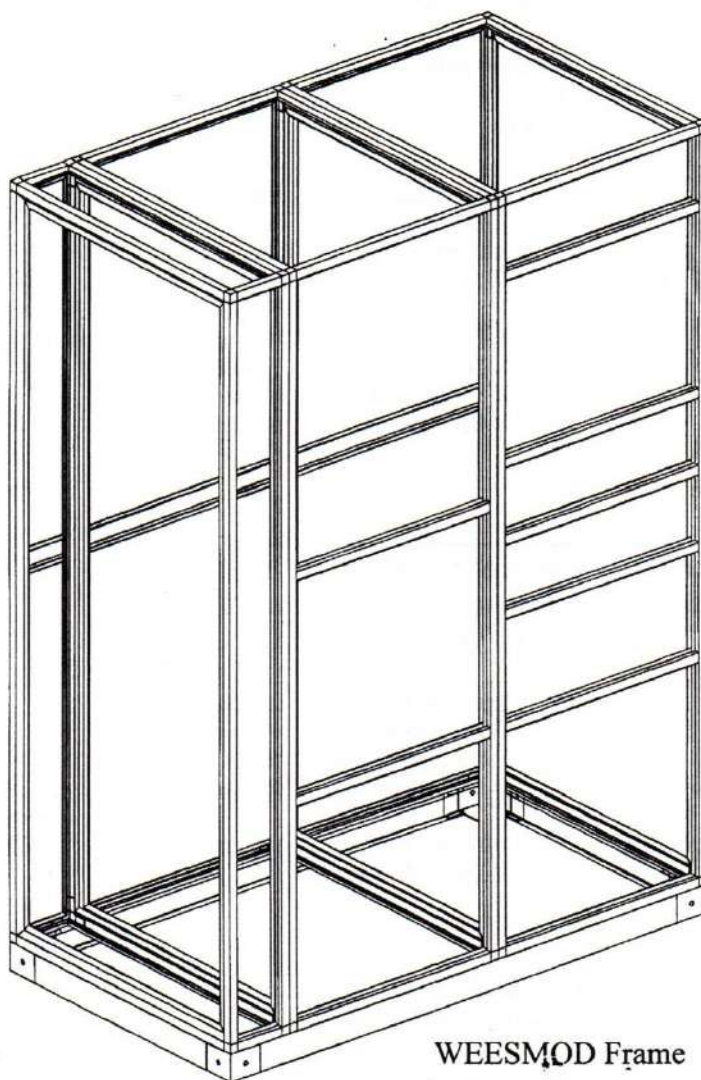
General

The structures are mainly fabricated from electrogalvanised steel sheets precision punched and formed according to design. Unlike usual conventional cubicle structures, the WEESMOD uses in its fabrication, machinery that is equipped with the latest technology for its parts formation. The strength of the WEESMOD cubicle lies in its corner parts (WM01). Here, special investment castings of stainless steel 304 can undertake the duty of holding the whole cubicle in its place sturdily. One of the main features of the WEESMOD cubicle is that it was designed with emphasis on aesthetic considerations. This is evident in the uniformity of flush mounted doors and well concealed heavy duty hinges that the system uses.



System Reference

For easy reference, all the WEESMOD parts have dimensions based on multiples of 200 mm for horizontal 'X', depth 'Y' and height 'Z'. **For example**, if a cubicle measurements are 800 mm wide, 800 mm in depth and 2000 mm high, it would have an X4 Y4 Z10.



WEESMOD Frame

Strength and Durability

In addition to the WM01 corners, special busbar support system design, coupled with rugged hinges and locks further enable the WEESMOD cubicles to withstand higher fault levels in compliance with BS5486 Part 1 (1986) and IEC 439 (1985) and a short time current capacity of 50 kA for 3 seconds and 80 kA for 1 second. WEESMOD components have been certified, tested and approved by ASTA of the United Kingdom. WEESMOD busbar systems are superior to other systems in the fact that it operates in a temperature of 110 degrees C, thus allowing the busbars to carry higher current of the same dimension.

Being flexible in design, WEESMOD components can be manufactured to meet all classes of protection in accordance with Protection Classification BS 5490 (1977) and IEC 529 (1970).

WeesMod

MAIN STRUCTURE

Frame

WEESMOD frames are fabricated from 2 mm electrogalvanised steel sheets specially sheared and bend to a specific profile to suit its complement corner joints (WM0 1).

Horizontal X-Direction Structure (X_)

Identification : X followed by the module no which is a multiple of 200 mm.

Feature : Square mounting holes for cage nut insertions used for mounting top cover (TC_ _ _ - _ _) and baseframe (BASXY_ 9).

Part No.	Description	Length
X20	X-Dir Structure	400 mm
X25	X-Dir Structure	500 mm
X30	X-Dir Structure	600 mm
X35	X-Dir Structure	700 mm
X40	X-Dir Structure	800 mm
X45	X-Dir Structure	900 mm
X50	X-Dir Structure	1000 mm

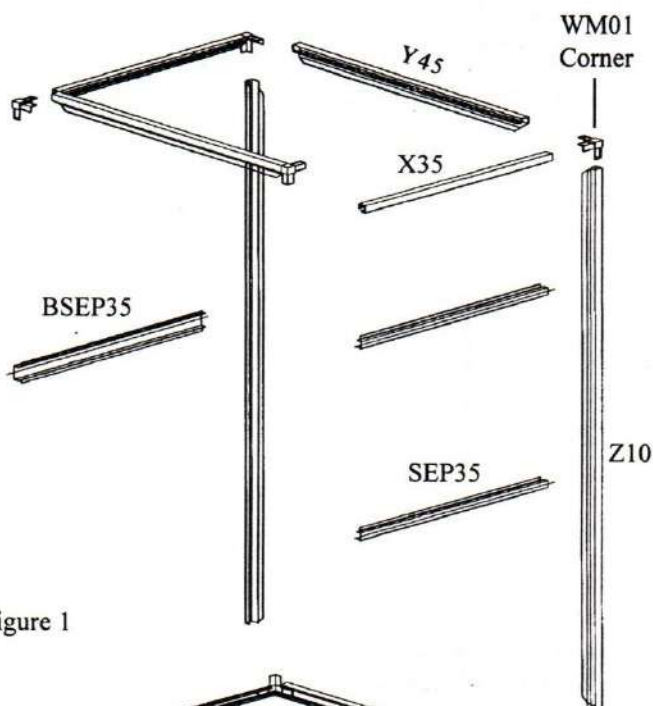


Figure 1

Depth Y-Direction Structure (Y_)

Identification : Y followed by the module no which is a multiple of 200 mm.

Part No.	Description	Length
Y30	Y-Dir Structure	600 mm
Y35	Y-Dir Structure	700 mm
Y40	Y-Dir Structure	800 mm
Y50	Y-Dir Structure	1000 mm
Y60	Y-Dir Structure	1200 mm

Height Z-Direction Structure (Z_)

Identification : Z followed by the module no which is a multiple of 200 mm.

Feature : Round and square holes for cage nut insertions (used for all types of mounting eg.hinges(WSH2) mounting brackets (ZCP_ _ _) and busbar support brackets (BS_ _ 9)

Part No.	Description	Length
Z090	Z-Dir Structure	1800 mm
Z100	Z-Dir Structure	2000 mm
Z110	Z-Dir Structure	2200 mm

Separators X-Direction Structure

The WEESMOD separators are categorised in two types. These are either front separators (SEP_ 9 or back separators (BSEP_ 9. When installed the front separators acts as a physical division between compartments. As for the back separators, they act as mounting brackets for the back covers. Both separators are made from 2.0 mm electro-galvanised steel sheets, pre-punched with holes and studs for immediate assembly.

Part No.	Part No.	Description	Length
SEP20	BSEP20	X-Dir Structure	400mm
SEP25	BSEP25	X-Dir Structure	500mm
SEP30	BSEP30	X-Dir Structure	600mm
SEP35	BSEP35	X-Dir Structure	700mm
SEP40	BSEP40	X-Dir Structure	800mm
SEP45	BSEP45	X-Dir Structure	900mm
SEP50	BSEP50	X-Dir Structure	1000mm

MAIN STRUCTURE

Corners WMO1

Corner joints are made of stainless steel grade 304. Included in them are eight 5 mm countersunk screw threads of which only six are to be used. One of the special considerations in its design is for its versatility. Its usage position in the cubicle may be interchanged (top to bottom, left to right). In addition to the 5 mm holes, two more 8 mm thread holes are provided for mounting baseframes or topcovers. For smaller cubicles, these hole positions may be fitted with eye-bolts for lifting purposes.

Part No.	Description	Figure
WMO1	Corner	2

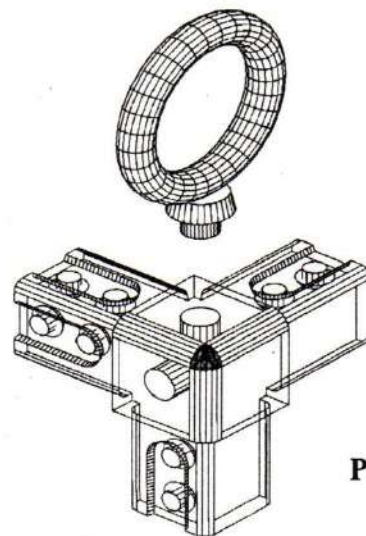


Figure 2

Patented

Base Frame

General

The construction of the base frame is made up of two very basic structures. The first is a prefabricated corner of 2.5 mm thickness (BASC). The second is the adjoining pieces which are fabricated in such a manner so as to sleeve the protrusions of the corner mentioned.

Base Frame Corner (BASC)

The WEESMOD base frame corner has threaded hole positions of 18 mm to enable future easy lifting where hoist brackets (BASCL) are attached. The standard height of the base frame is 75 mm.

Part No.	Description	Figure
BASC	Base Frame Corner	3
BASCL	Base Lifting Brack	4

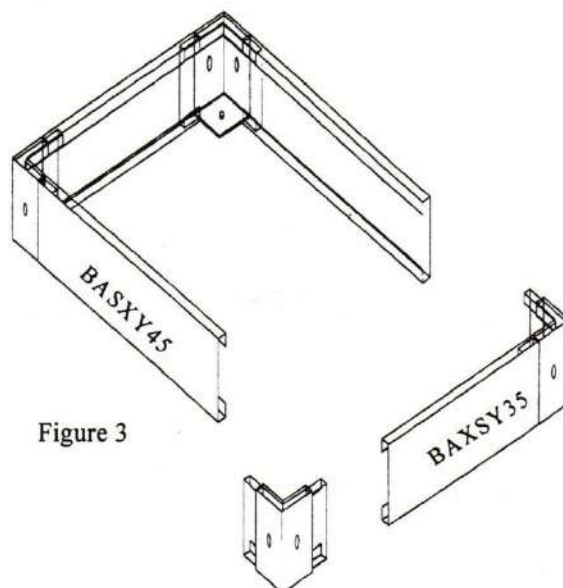


Figure 3

Base Frame Adjoining Parts(BASXY_)

The WEESMOD base frame adjoining parts are interchangeable from front to side and side to back. The thickness of the material used is 2.5 mm. They are built similarly to the standard height of 75 mm.

Part No.	Length	Part No.	Length
BASXY20	400 mm	BASXY75	1500 mm
BASXY25	500 mm	BASXY80	1600 mm
BASXY30	600 mm	BASXY85	1700 mm
BASXY35	700 mm	BASXY90	1800 mm
BASXY40	800 mm	BASXY95	1900 mm
BASXY45	900 mm	BASXY100	2000 mm
BASXY50	1000 mm	BASXY105	2100 mm
BASXY55	1100 mm	BASXY110	2200 mm
BASXY60	1200 mm	BASXY115	2300 mm
BASXY65	1300 mm	BASXY120	2400 mm
BASXY70	1400 mm		

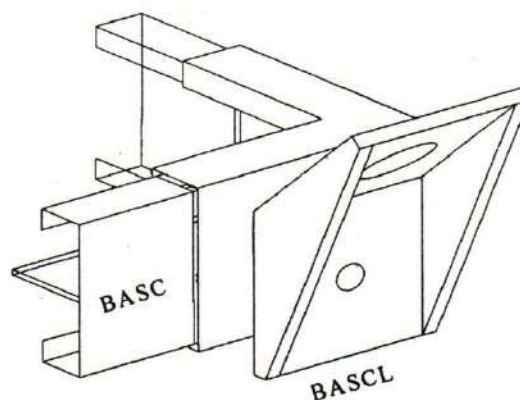
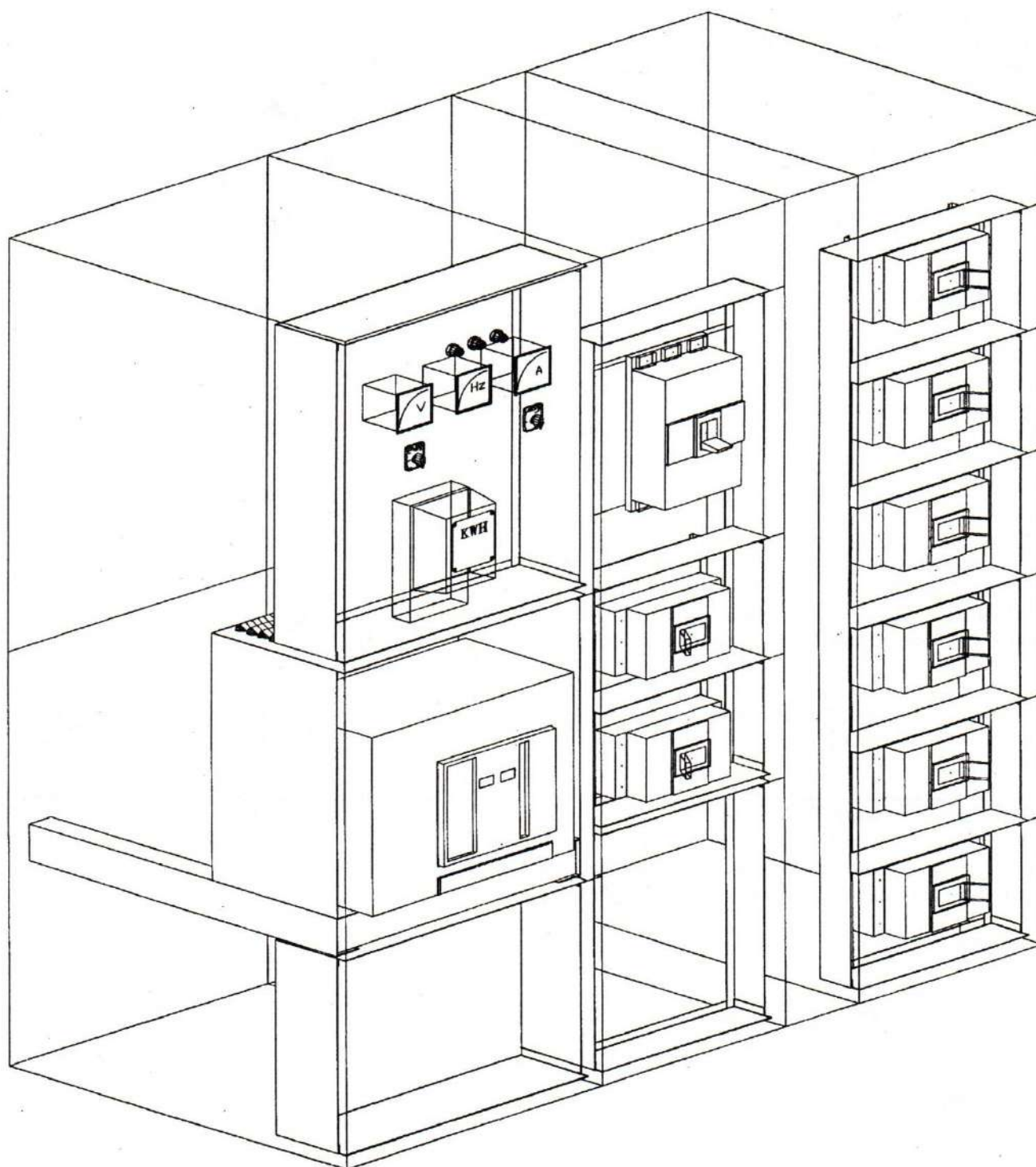


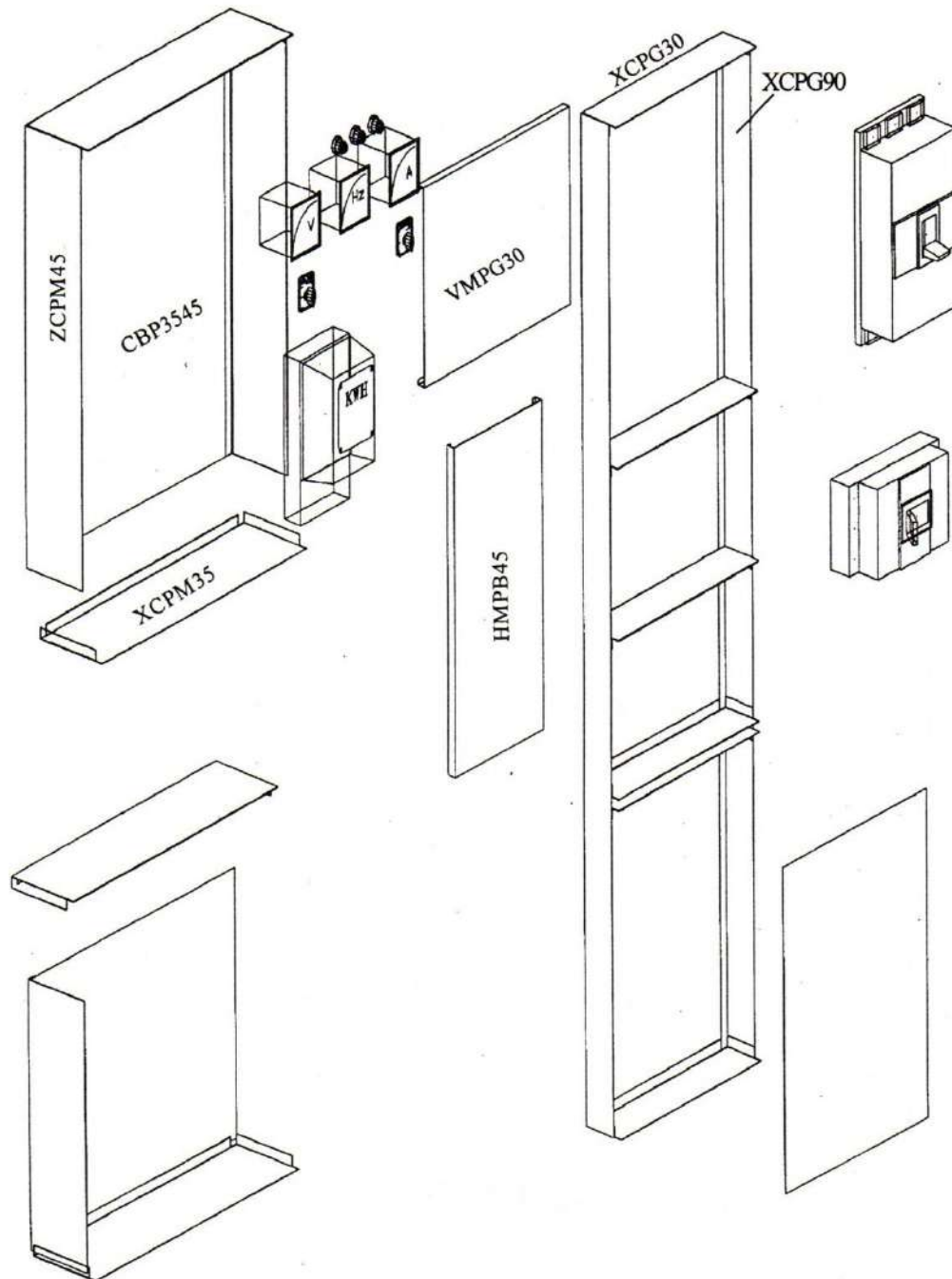
Figure 4 **WeesMod**

INTERNAL MOUNTING BRACKET



Typical Internal Bracket Arrangement

INTERNAL MOUNTING BRACKET



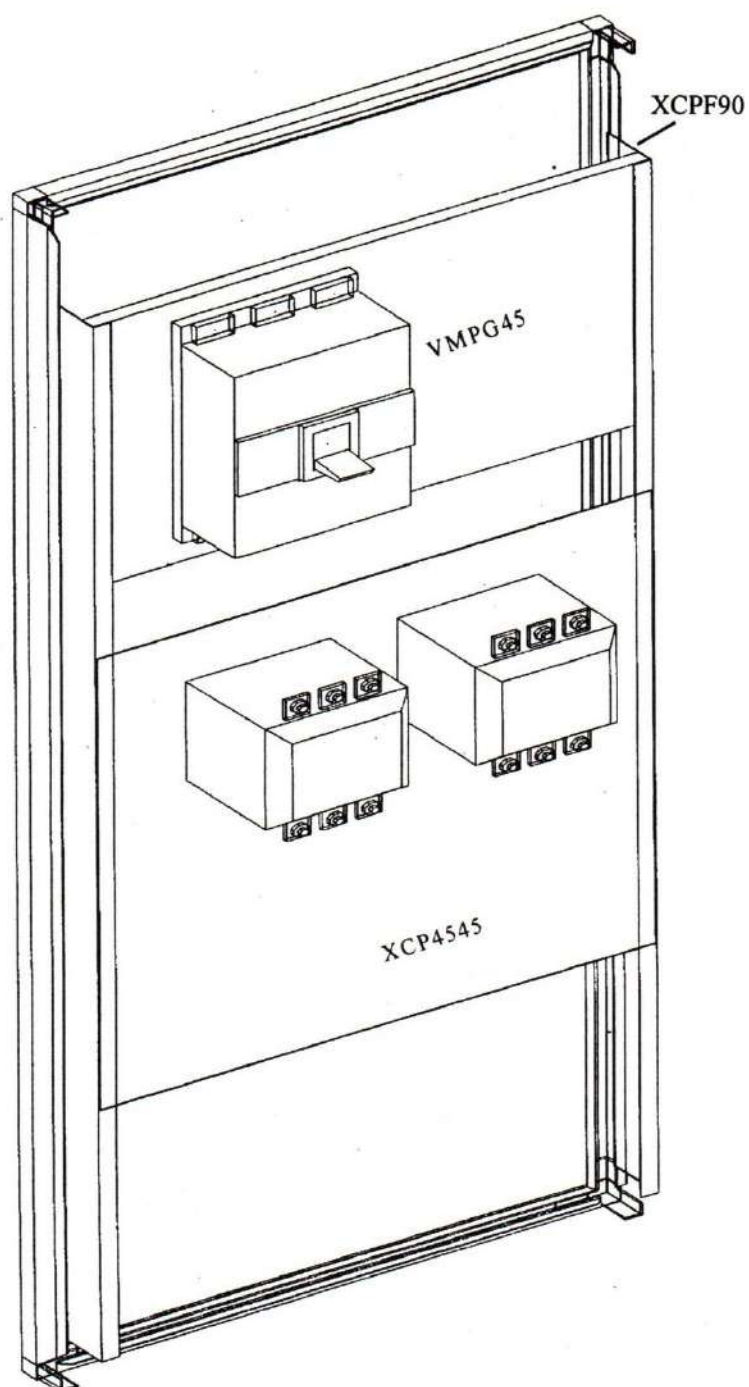
Internal Bracket General

Internal brackets can serve in various ways as in compartments, MCCB mounting plates, and component mounting plate etc. They come in four principal groups.

- | | |
|---------------------------------|--|
| 1. XCP i ii ii | X-direction mounting plate |
| 2. ZCP i ii ii | Z-direction mounting plate |
| 3. CBP i ii ii ii | Compartment Base Plate |
| 4. HMP i ii ii ii & VMP i ii ii | Horizontal & Vertical Mounting Bracket |

For compartments, the following parts are to be used.

INTERNAL MOUNTING BRACKET



See typical example for front access motor control centre .

INTERNAL MOUNTING BRACKET

ACB Enclosure & ACB Supporting Bracket

The WEESMOD system has catered for special heavy duty equipment such as Air Circuit Breakers with its special design brackets and enclosures.

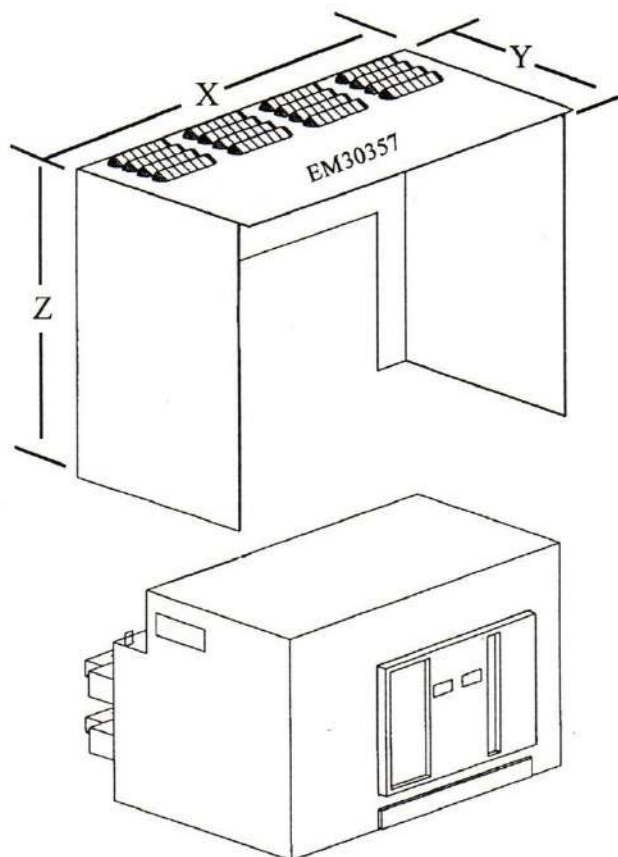
ACB Enclosures are specially tailored to various popular brands in the market, in addition to providing a shelter for the device against unwanted falling particle. These ACB enclosures has taken into consideration in its design, the arc chute distance properties. See typical example Fig.

Enclosure Merlin Gerin Fix & Draw-Out ACB (3/4 Poles)

Parts No.	Description	Dimension (XYZ)
EM 30357	BEM8-32F ACB encl.	700/290/600
EM 30451	BEM40F ACB encl.	900/290/600
EM 35352	BEM8-32D ACB encl.	700/367/700
EM 40502	BEM40D ACB encl.	1000/367/800
EM 40602	BEM50D ACB encl.	1200/367/800

Enclosure Terasaki Fix & Draw-Out ACB (3/4 Poles)

Parts No.	Description	Dimension (XYZ)
ET25435	AT06/12/16/20 D/O encl.	500/458/700
ET35440	AT25/32/40 D/O encl.	700/458/800
ET35645	AH20/25 D/O encl.	700/537/900
ET45745	AH30/40 D/O encl.	900/566/900
ET50845	AH50/60 D/O encl.	1000/589/900
ET25135	AT6/12/16/20 fix encl.	500/343/700
ET30135	AT25 fix encl.	600/343/700
ET35135	AT32/40 fix encl.	700/343/700
ET25240	AH20/25 fix encl.	700/362/800
ET40340	AH30 fix encl.	800/388/800



INTERNAL MOUNTING BRACKET

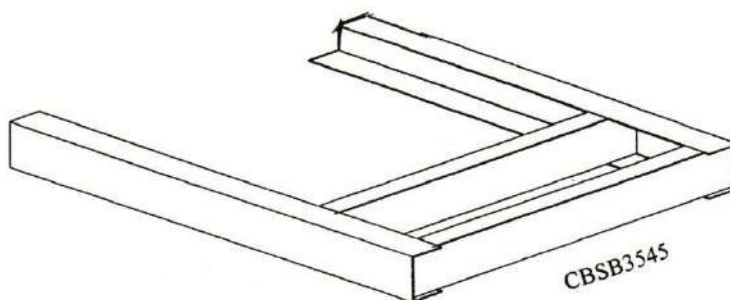
ACB Supporting Bracket

WEESMOD ACB Supporting Bracket is denoted by (CBSB i i ii ii)

where i represents X distance of the ACB supporting structure
where ii represents the Y distance of the ACB supporting structure
in module denomination of 200mm.

See typical example Fig.

<u>Parts No.</u>	<u>Parts No.</u>	<u>Parts No.</u>
CBSB3535	CBSB4035	CBSB4535
CBSB5035	CBSB5535	CBSB6035
CBSB3540	CBSB4040	CBSB4540
CBSB5040	CBSB5540	CBSB6040
CBSB3545	CBSB4045	CBSB4545
CBSB5045	CBSB5545	CBSB6045
CBSB3550	CBSB4050	CBSB4550
CBSB5050	CBSB5550	CBSB6050
CBSB3555	CBSB4055	CBSB4555
CBSB5055	CBSB5555	CBSB6055
CBSB3560	CBSB4060	CBSB4560
CBSB5060	CBSB5560	CBSB6060



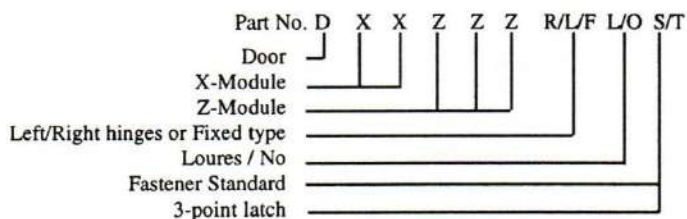
DOOR

General

WEESMOD doors are made of 1.5 mm electro-galvanised sheet. To strengthen the door an L-shape structure is spot welded and it acts as a trench for mounting the door seal (WRP). This will be required for IP52. The WEESMOD System is so versatile in its design that it can enable each and every cubicle frame to incorporate a combination of any size doors as required. See Figure for easy selection. The doors come with various types of hinges and handles.

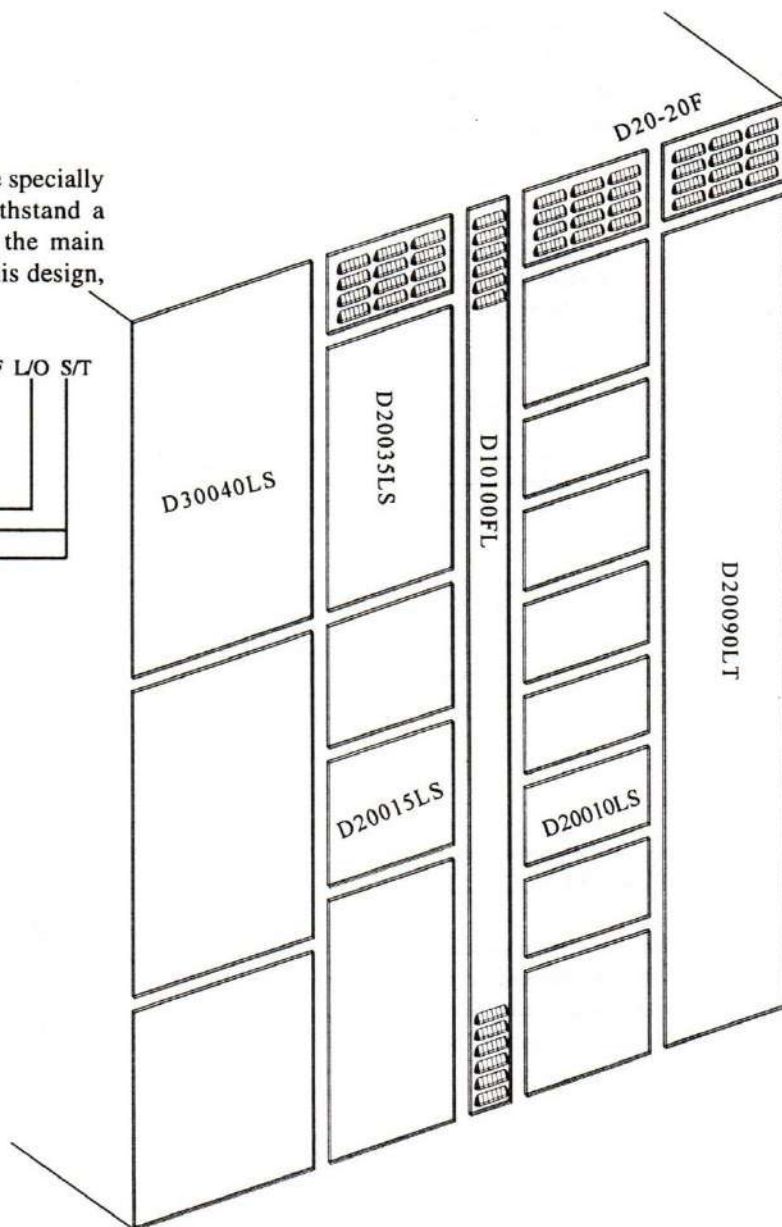
Door

These doors are provided with heavy duty hinges. The specially designed and patented hinge has the ability to withstand a nominal load of 25kg. These hinges are hidden in the main vertical structure (Z_ _) for aesthetic reasons. With this design, flush mounted doors are possible.



When ordering, please specify the

- 1) Part No.
- 2) Form of protection standard eg. IP 42
- 3) Left / right mounted hinges or Fixed type
- 4) Type of locks i.e. standard or 3-point latch



Louvres

Doors may come embossed with louvres. Higher Index of Protection requirements can be met by the use of closely knitted wire meshes and air filters.

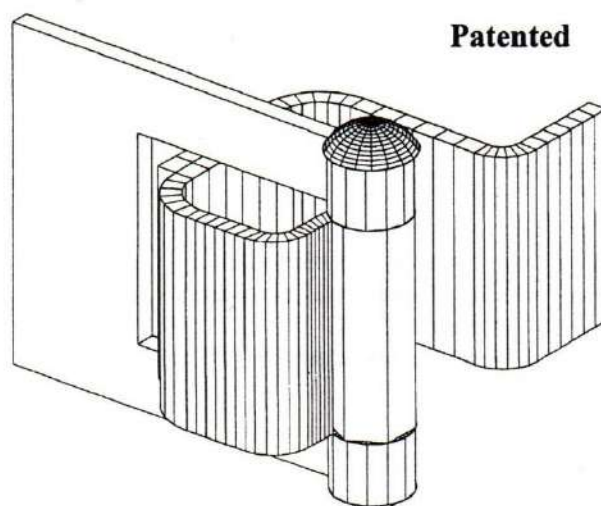
Door (Fixed)

These are doors that come without hinges but with mounting accessories since they are not expected to be frequently opened.

ACCESSORIES

Flushed Heavy Duty Hinges

The flushed heavy duty hinge is produced using highly sophisticated machinery and is guaranteed for high quality and precision. It is used for mounting flushed door onto WEESMOD WSH2.



Rubber Seal

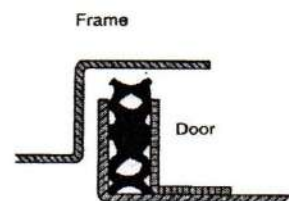
Features

- Easy to compress
- Wide tolerance range
- Airtight
- Easy to install without using adhesive
- Double symmetry, no assembly errors

New Material

This rubber composition has the following features

- Resistant to : U.V., ozone, weathering, seawater
- Temperature range : +120c 40 -40c
- Restricted oil resistant
- Neutral to paint
- Self-extinguishing



Natural Sealing Rubber
complies with IP65/Nema 4

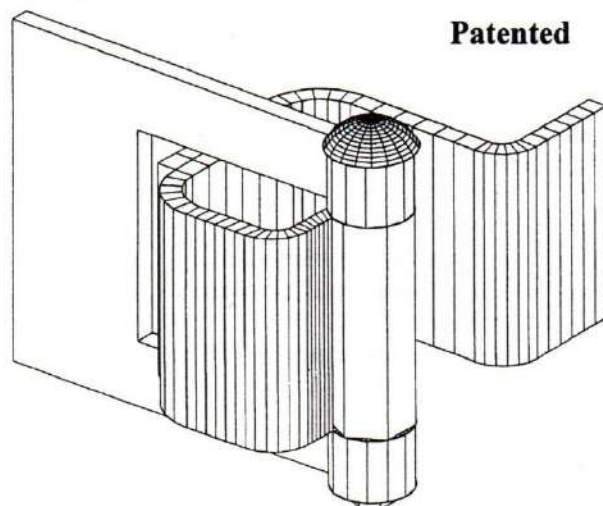


Part No. WRP

ACCESSORIES

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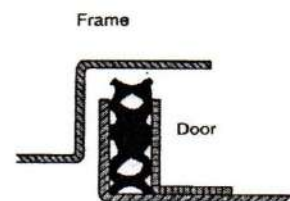
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Natural Sealing Rubber
complies with IP65/Nema 4



Part No. WRP

BUSBAR SUPPORT & ACCESSORIES

General

Busbar supports have to be used together with their accessories.

Part No.

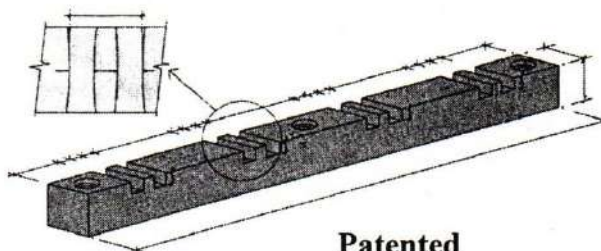
WM/004 - 1 Busbar insulation support

Material: Glass-Reinforced Duroplastic

Polyester - BMC

West German Standard DIN 16911

Fish Tails Effect



Patented

Horizontal Bar

For horizontal bars, the busbar support requires the use of 2 other brackets

- BBAS
- BSHii

where i represent the Y-Direction module number.

Parts No.

BSH35

BSH40

BSH50

BSH60

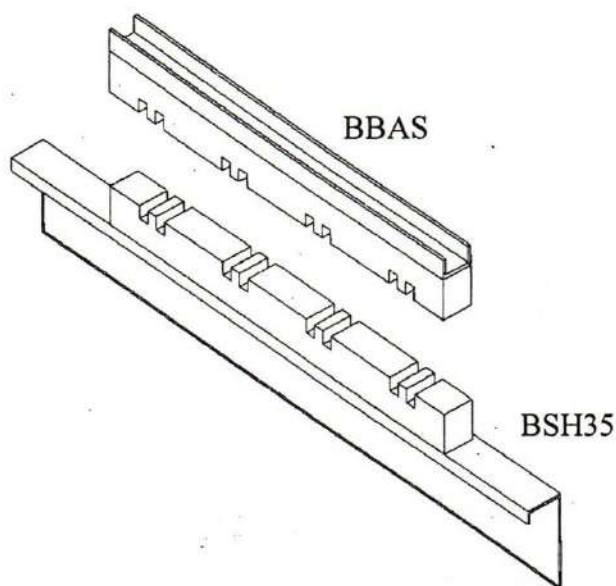
Description

Busbar Supp Horiz

Busbar Supp Horiz

Busbar Supp Horiz

Busbar Supp Horiz



Vertical Bar

For vertical bars, the busbar support requires the use of 2 other brackets

- BBAS
- BSVii

where i represent the Y-Direction module number.

Parts No.

BSV35

BSV40

BSV50

BSV60

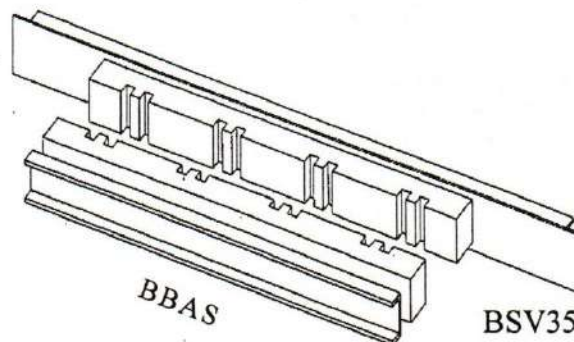
Description

Busbar Supp Vert.

Busbar Supp Vert.

Busbar Supp Vert.

Busbar Supp Vert.



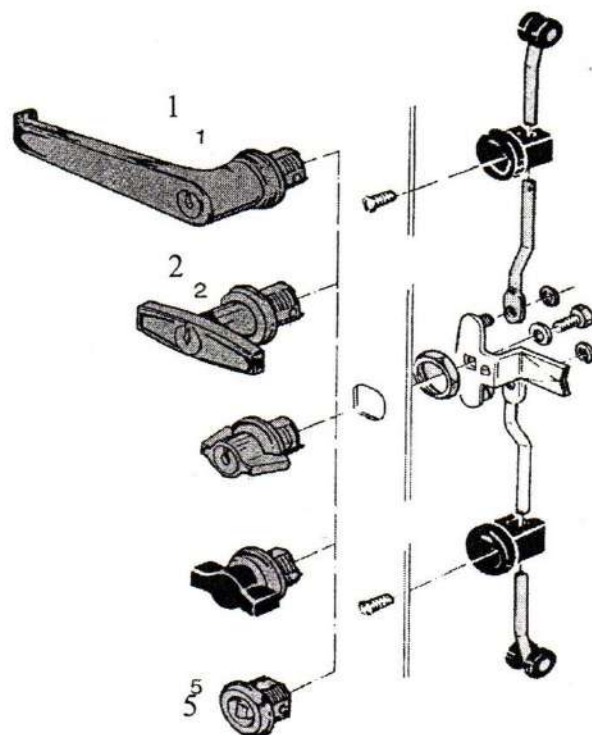
ACCESSORIES

Door Accessories

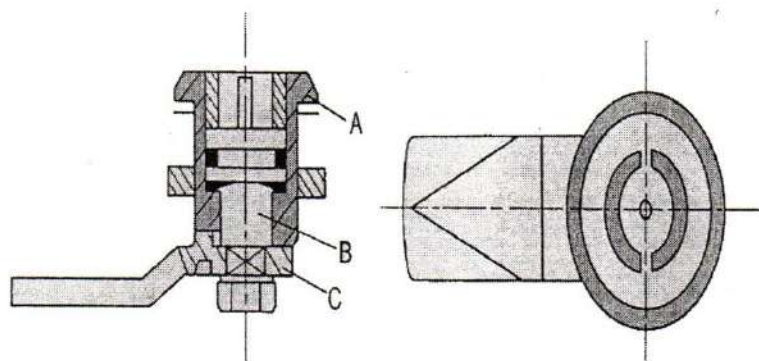
Completely screwed-on type PROTECTION CLASS IP65 or NEMA4 are available upon request. Flexibility - make your own combination. Total installation time - 2 minutes

3-point latch system

	Description	Part No.
1)	Handle Fastener	WHF
2)	T-Fastener	WTF
5)	Flush Fastener	WFF
	9 Module 3 point latch	W3L9
	10 Module 3 point latch	W3L10
	11 Module 3 point latch	W3L11



All sorts of handles (flush, T-type, l-type, etc) can also be installed to control 3 point-latch system.



Flush Fastener

