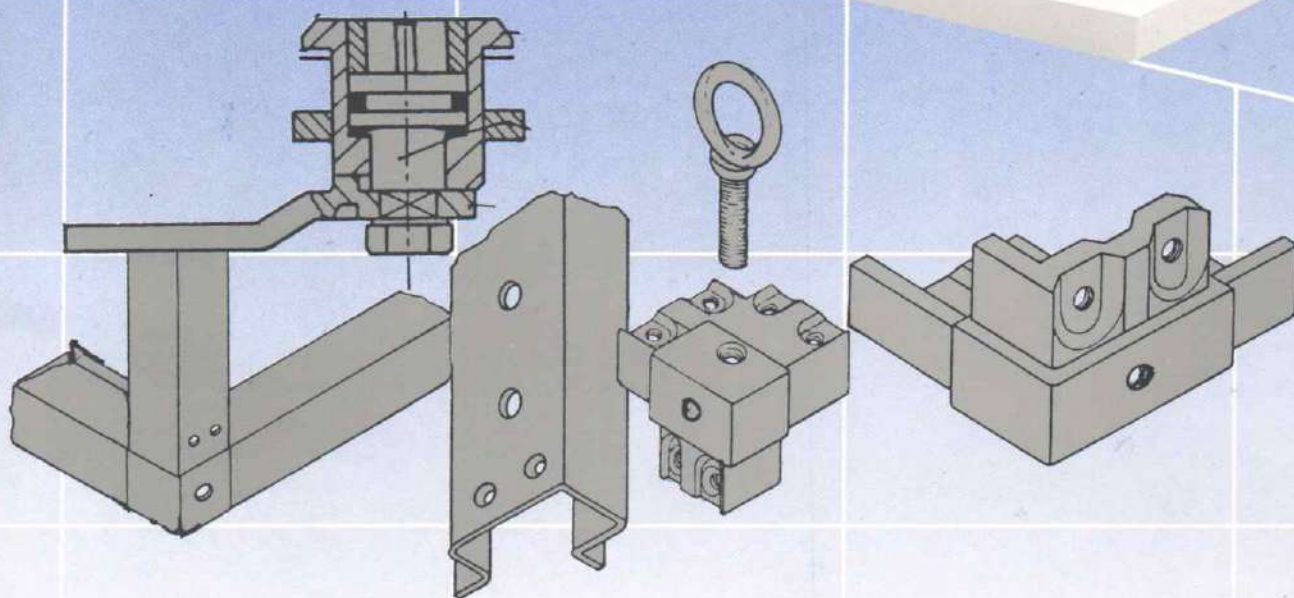
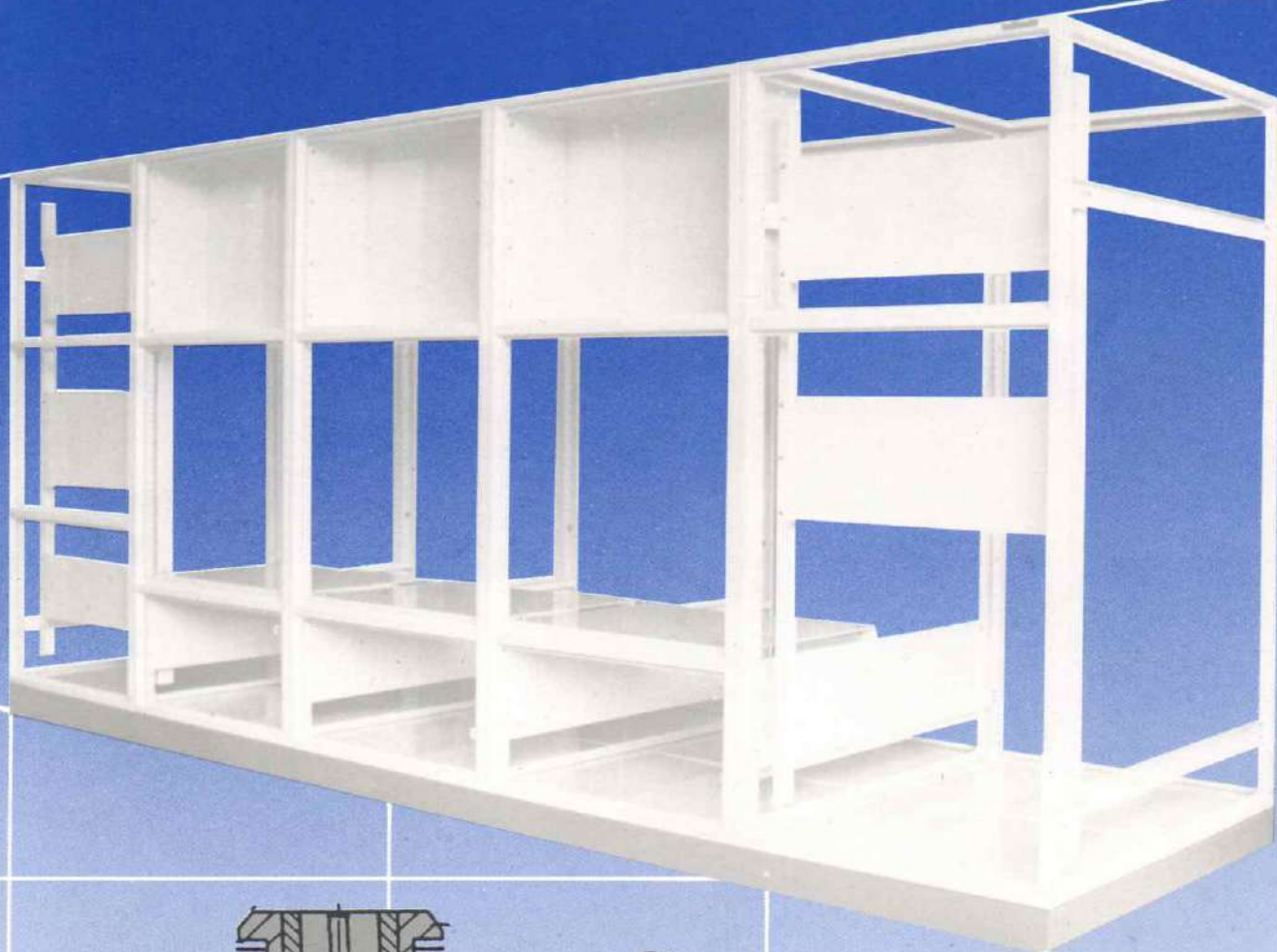


WeeMod

Singapore-made to international standards



Introduction

The name "WEESMOD" is derived from a group of professional engineers headed by the designer to work on the module resulting in a successful achievement representing of Wee and module.

With the advancement of modern aid of C.A.D. & C.A.M., high precision tools and casting, it enables us to produce this innovative design for a complete knock down, high quality and precision cubicle with fine structure as detailed in the under-mentioned system.

This specially designed cubicle is so versatile that its size can range from XYZ to:-

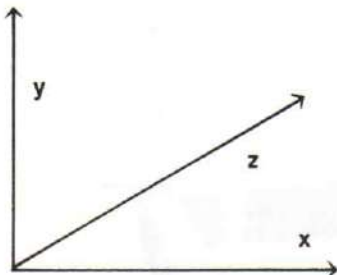
as large as 1200mm × 2300mm × 1200mm
or
as small as 200mm × 400mm × 200mm

All cubicles can be easily extended should need arises in the future.

System

To achieve a quicker reference, we have intrinsically designed a modular section which is known as horizontal 'X', vertical 'Y' and depth 'Z'. In that order, the denomination factor being every 200mm should take into account of one module. For instance, if a cubicle measuring 800mm width × 2000mm height × 800mm depth, then the following denomination should be noted as "XYZ" comprising 'X' of 4, 'Y' of 10 and 'Z' of 4.

In future, all components designed will be based on the "XYZ" SYSTEM as explained above.



Feature

This complete knock down system does not require any technical skill to assemble the WEESMOD panel which can be emphasised clearly on how an individual part can be mounted systematically together to form a complete panel within a very short time. As such, a substantial saving of labour can be maintained to reduce the longer production hours normally required.

All parts are INTERCHANGEABLE which allows the cubicle to be equipped as one or can be compartmentarised.

Transportation and Assembly

As components of this innovated design come in loose manner, it can be easily transported in knock down form and later assembled back at the site concerned, if required.

Moreover, it poses no problem to storage space being a neat and compact design which can be easily stored.

Ruggedity, Fault Level & Protection Classification of Weesmod

WEESMOD design is built with very rugged STAINLESS STEEL casting corners enabling it to undertake substantial mechanical strength together with special designs of busbar system, hinge and lock which can withstand fault level (TYPE TESTED) complying with BS5486 Part 1: 1977 IEC 439 : 1973 to withstand short time current capacity of 50KA for 3 seconds certified and approved satisfactorily by ASTA-UK.

Being a flexible design, WEESMOD can be constructed to meet all classes of protection in accordance with PROTECTION CLASSIFICATION BS5490 : 1977, IEC 529 : 1976.

Tropical And Humidity Proof

All WEESMOD panels are fabricated from Electro-Galvanised steel sheet and chemically treated for rust proof, degreasing, aging treatment and sprayed with high quality EPOXY DRY POWDER SPRAY with unique colours like hammer tone grey and finally oven-baked with minimum 50 micron thickness all round.

The typical type of WEESMOD 800mm x 2000mm x 800mm Module X4 x Y10 x Z4

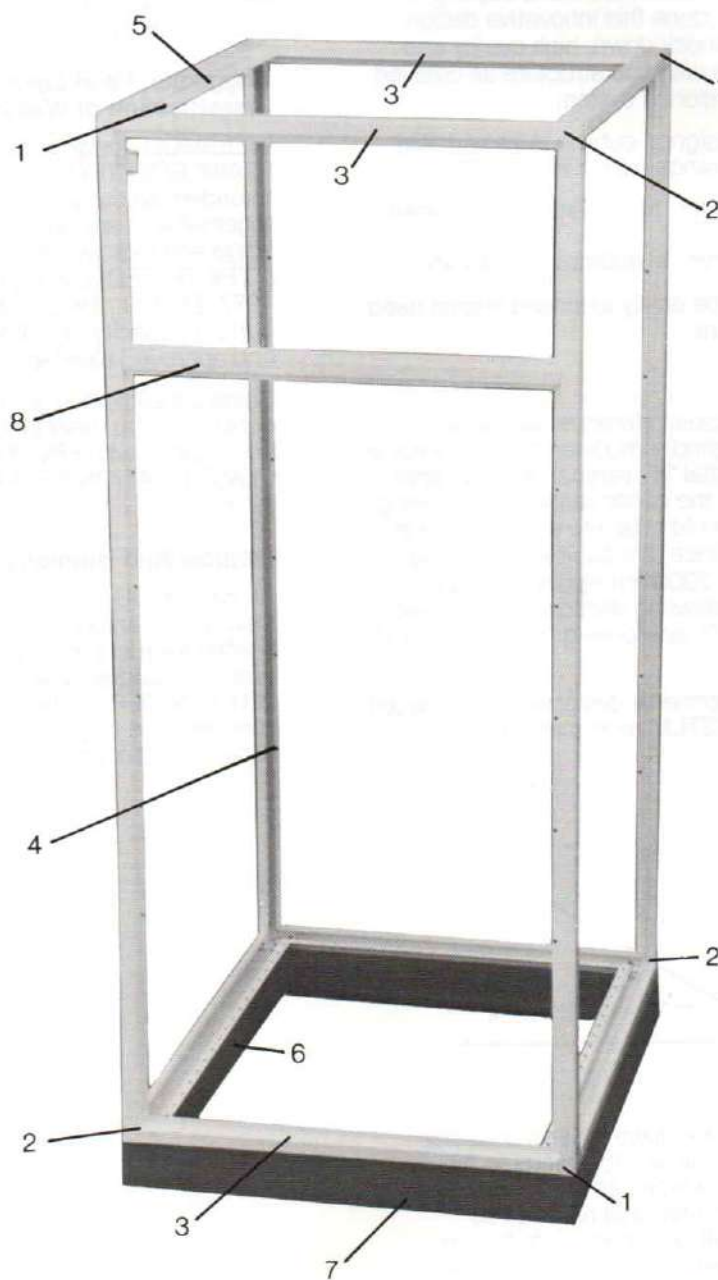


Fig 1

- 1) Corner joint R.
- 2) Corner joint L.
- 3) X Assembly (WX...)
- 4) Y Assembly (WY...)
- 5) Z Assembly (WZ...)
- 6) X base Frame (WX bf...)
- 7) Y base Frame (WY bf...)
- 8) Flame along X Axle (WXB...)

Framework

Corner joints are made up of high precision casting materials stainless steel grade 304 built in with 7 nos. of 6mm screw, 6 for mounting WX . . WY . . and WZ . . , and 1 no. located at the side for mounting side plate WSP, 2 nos. of 10mm screw for mounting eyes bolt or base frame. (See illustration fig. 2)

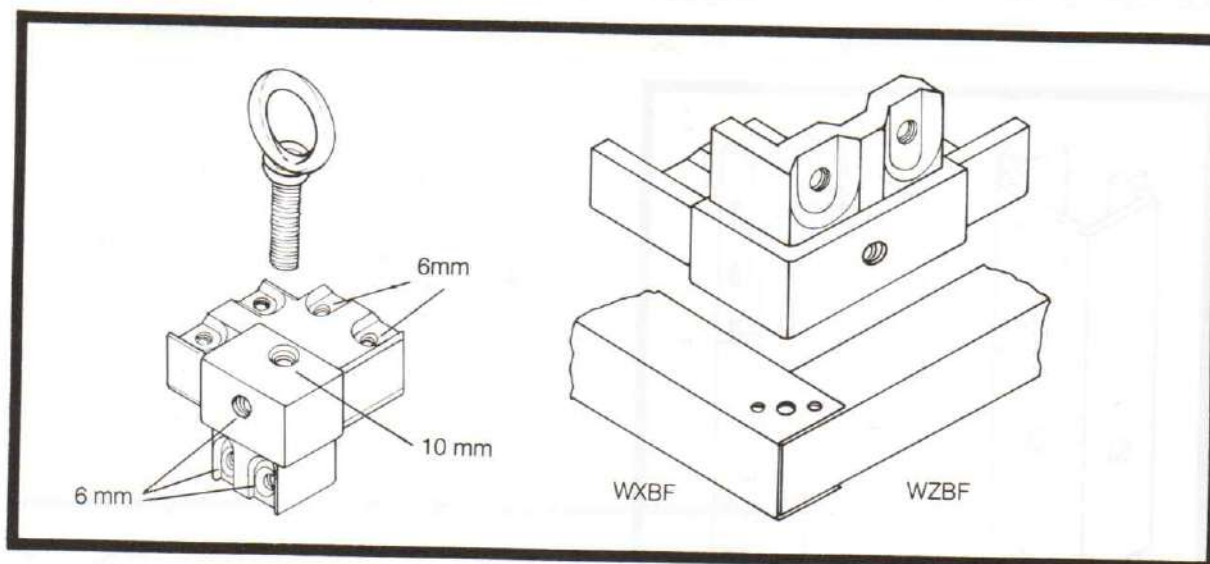
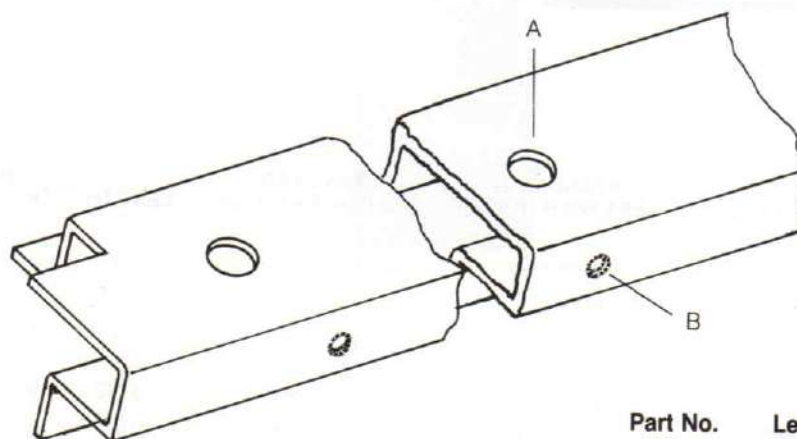


Fig 2

Part No.
WM004-R/2 Corner joint.
WM004-L/S Corner joint.

'X' assembly is the horizontal structure for WEESMOD, front and back, top and bottom which is formed with 2mm steel sheet with holes 'A' (See illustration fig. 3) For 'A' holes, with the diameter to insert with nutsert for 6mm for mounting WTP (top cover). The 'B' holes are for mounting WYB.

Fig 3



*Using nutsert 6mm² Part No. W619.

Part No.	Length	*A holes	B holes
WX 2	340	—	—
WX 3	540	1	—
WX 4	740	2	1
WX 5	940	3	2

Framework

'Y' assembly is located on the vertical beam of a structure formed with 2mm steel sheet, comes in 4 different standard types. (See illustration fig. 4. Types WY . . L and WY . . R are standard and WY . . LH and WY . . RH are standard width hinge mounting holes for left open and right open (See illustration figs. 5 & 6) 'A' holes located on a 'Y' assembly are used for mounting individual module with another module by means of a 8mm bolts & nuts or using a nutsert of 6mm (Part No. W619) for side cover. 'B' holes are used for mounting part no. WXB. . . for compartmentalising cubicle.

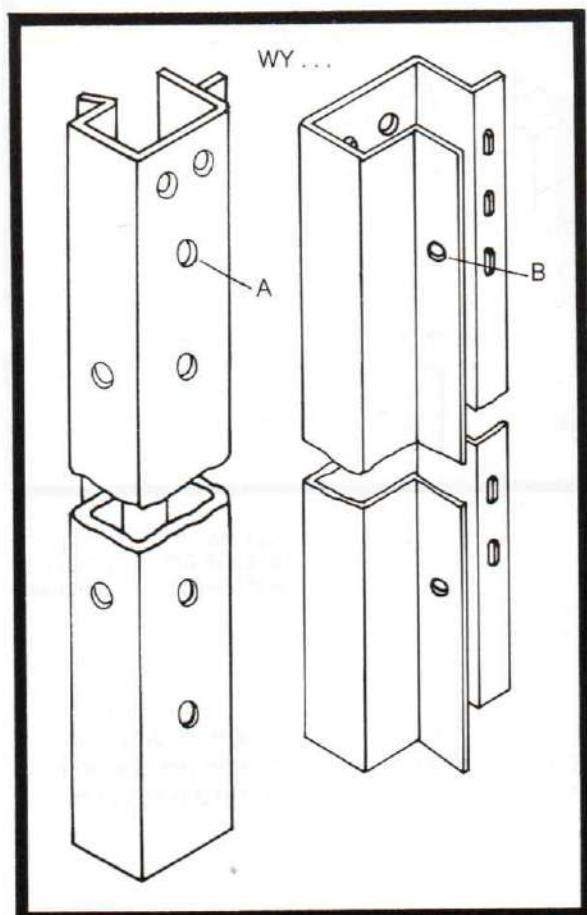


Fig 4

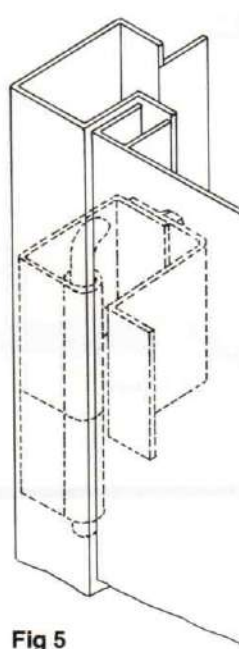


Fig 5

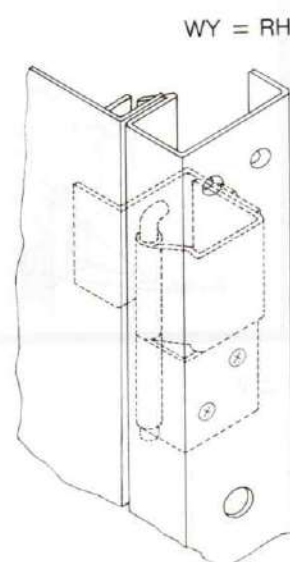


Fig 6

STANDARD LEFT	STANDARD RIGHT	STANDARD LEFT WITH HINGE	STANDARD RIGHT WITH HINGE	LENGTH	*A HOLES	B
WY6L	WY6R	WY6LH	WY6RH	1142	3	3
WY7L	WY7R	WY7LH	WY7RH	1342	4	4
WY8L	WY8R	WY8LH	WY8RH	1542	5	5
WY9L	WY9R	WY9LH	WY9RH	1742	6	6
WY10L	WY10R	WY10LH	WY10RH	1942	7	7

*Using nutsert 6mm² W619.

Framework

'Z' assembly is located on both sides, top and bottom of WEESMOD which is formed with 2mm steel sheet. (See illustration fig. 7) Please note that there are 2 sets of holes 'A & B'. For the 'A' holes they are to be inserted with nutsert for mounting top plate (WTP) and the side 'B' holes are for mounting 2 modules together or using a nutsert for mounting the side cover (WSP)

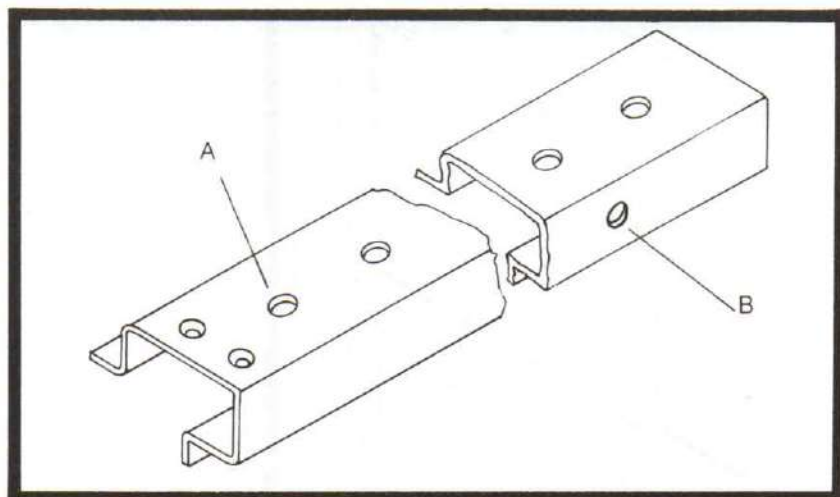
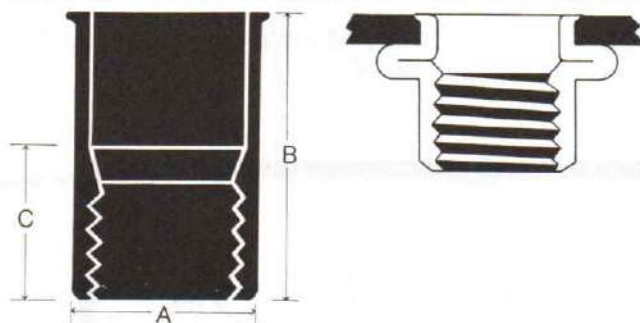


Fig 7.

Part No.	Length	*A Holes	*B Holes
WZ2	302	—	—
WZ3	502	1	1
WZ4	702	2	2
WZ5	902	3	3
WZ6	1102	4	4

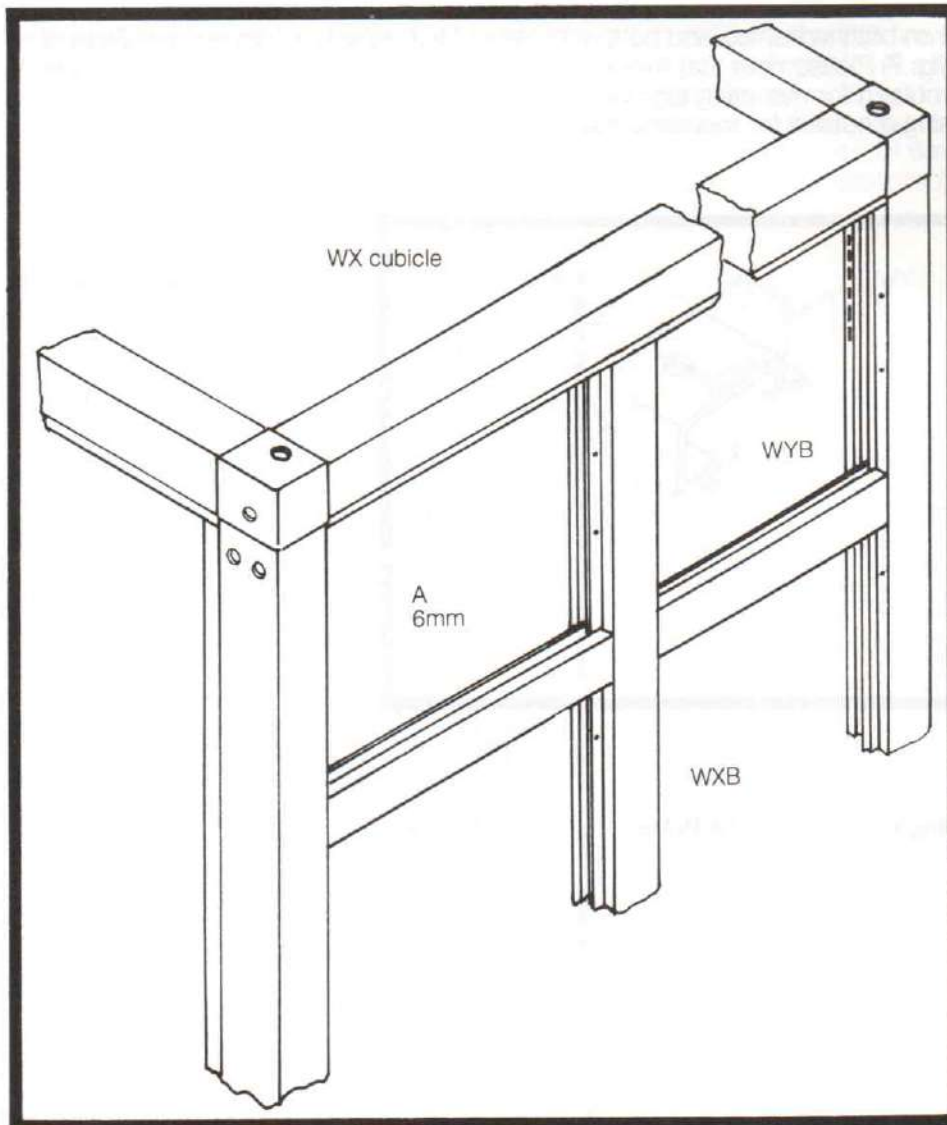
* Using nutsert 6mm² Part No. W619.

NUTSERT PART No. W619mm



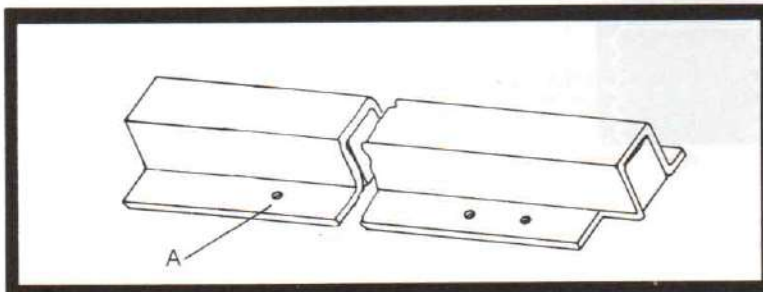
Material	Finish	Thread Form	Thread Size	Material Thickness		A Max.		B Max		C. Max		Suggested Hole Size	
				Ins.	mm	Ins.	m.m.	Ins.	m.m.	Ins.	m.m.	Ins.	m.m.
Steel	Zinc	M6 x 1.0	M6	.030	0.76	.374	9.5	.610	15.5	.335	8.51	3/8	9.6

Equipment For Compartmentarising



Part No.	A hole 6mm Dia.
WYB 2	—
WYB 3	—
WYB 4	—
WYB 5	1
WYB 6	2
WYB 7	3
WYB 8	4
WYB 9	5
WYB 10	6

Frame along 'Y' axle is formed with 2mm steel sheet to separate compartments. Along WYB, there are various holes located to mount WXB. .



Part No.	A hole 6mm Dia.
WXB 2	—
WXB 3	—
WXB 4	1
WXB 5	2
WXB 6	3

Frame along 'X' axle WXB . . is formed of 2mm steel sheet which should be mounted between WY . . with 2 nos. of 6mm bolts. WXB with corresponding numbers of D holes of 6mm should be mounted on WYB. .

Base Frame

'X' and 'Y' base frame are formed of 2.5mm steel sheet with carefully punched holes to mount WXBF and WZBF together to form the basic structure of a WEESMOD. All module corners WM004. . can be mounted onto WXBP frame. (See illustration figs 8 & 9) Please note that the holes 'A' in fig. 9 are formed for mounting holes of 12mm diameter to suit the mounting stud. Fig. 10 the holes 'A' are for mounting 10mm bolts & nuts of 2 'Z' frames together to form one.

Fig 8

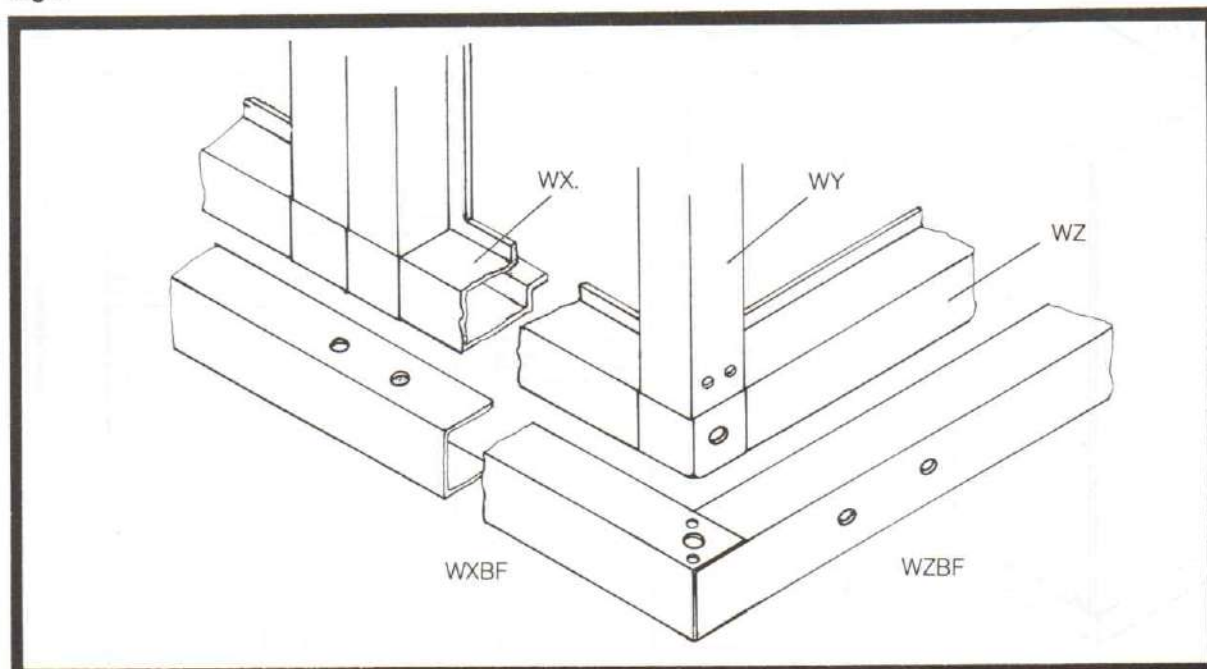


Fig 9

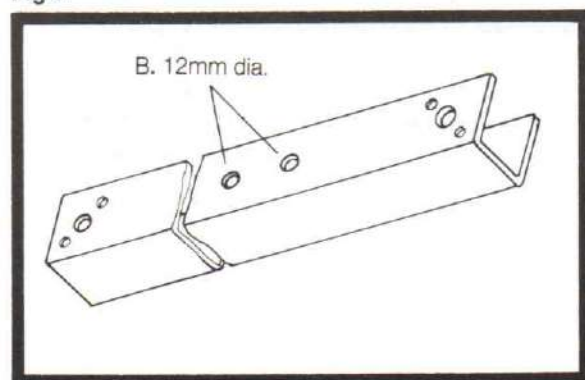
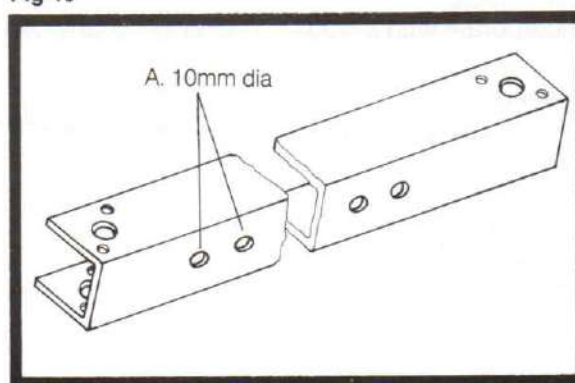


Fig 10

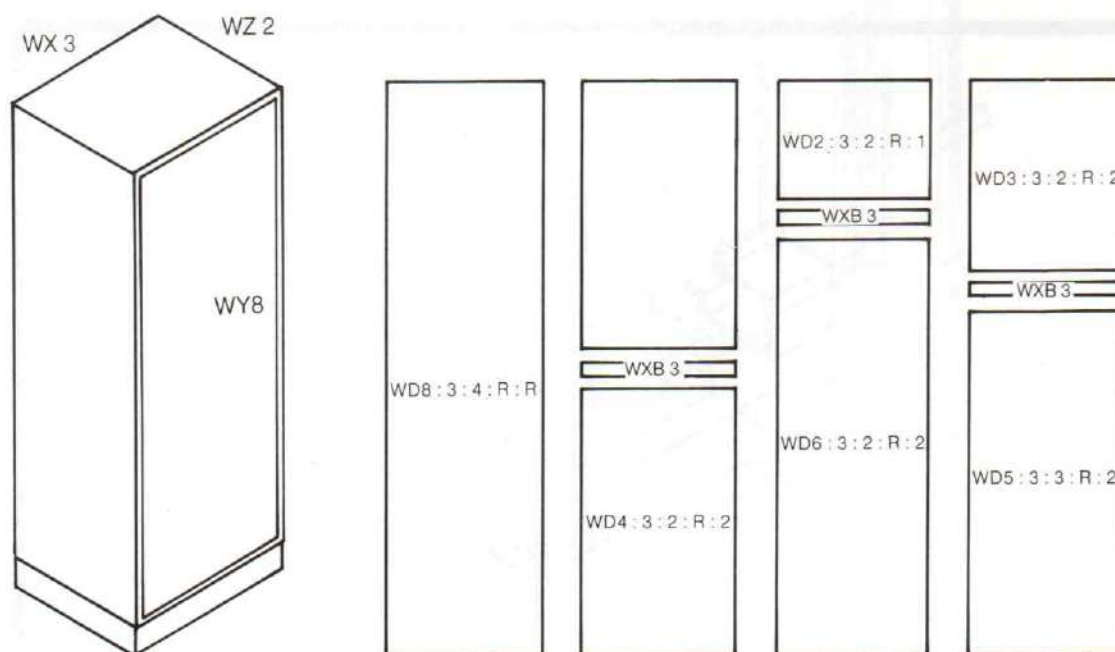


Part No	Length	B holes 12mm dia.
WXBF 2	400	2
WXBF 3	800	2
WXBF 4	800	4
WXBF 5	1000	6
WXBF 6	1200	8
WXBF 7	1400	10
WXBF 8	1600	12
WXBF 9	1800	14
WXBF 10	2000	16

Part No	Length	A holes 10mm dia.
WZBF 2	400	2
WZBF 3	600	2
WZBF 4	800	2
WZBF 5	1000	3
WZBF 6	1200	3

Door Framework

Door construction of 1.5mm thickness electro-galvanised steel sheet is carefully formed into a WEESMOD door. For stiffening of the door, we carefully design an 'L' shape structure spot onto the door which acts as a trench to insert the door seal. Please note that the doors come with various types of hinges and handles which can be referred to as follows.



WEESMOD doors are so versatile in design that they enable each and every cubicle frame to incorporate with a good combination of any denomination doors as required. See example.

EXAMPLE

Part No.	W	D	2	6	2	R	1/R
WEESMOD	—	—	—	—	—	—	—
Door	—	—	—	—	—	—	—
Y module	—	—	—	—	—	—	—
X module	—	—	—	—	—	—	—
Set of Hinge	—	—	—	—	—	—	—
Left or right hinges	—	—	—	—	—	—	—
FASTENER	—	—	—	—	—	—	—
3-point latch system R	—	—	—	—	—	—	—

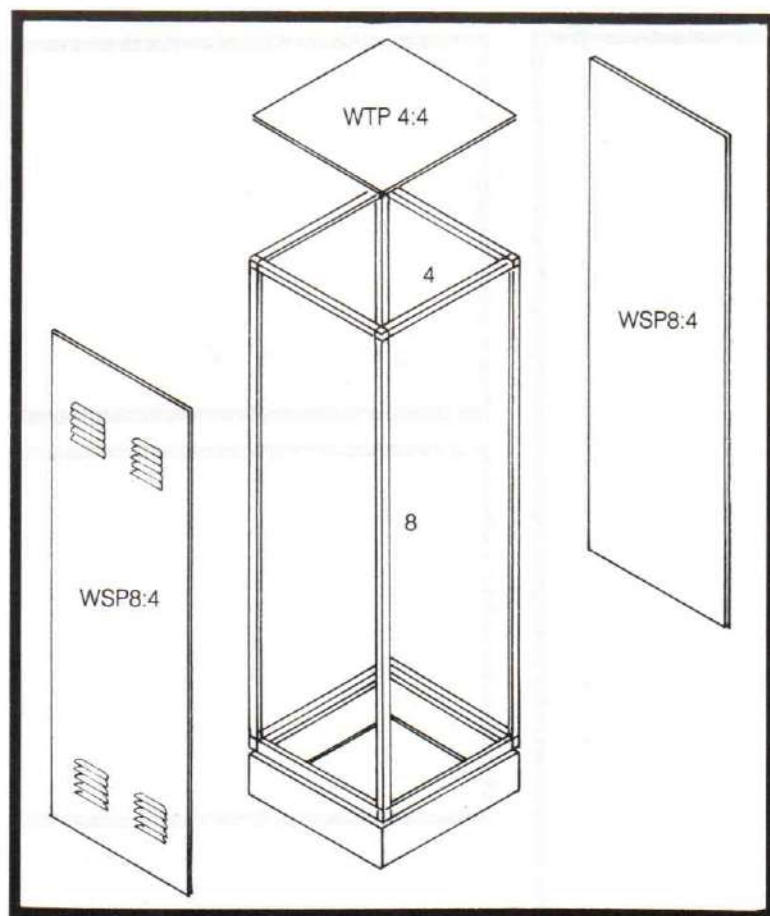
When ordering, please specify the

- 1) Part No;
- 2) Form of protection standard OR IP.66.
- 3) Left OR Right mounted hinges.
- 4) Number of FASTENER OR IP.66 3 point system.

Y \ X MODULE	2	3	4	5	6
2	WD:2:2:2	WD:2:3:2	WD:2:4:2	WD:2:5:2	WD:2:6:2
3	WD:3:2:2	WD:3:3:2	WD:3:4:2	WD:3:5:3	WD:3:6:3
4	WD:4:2:2	WD:4:3:2	WD:4:4:3	WD:4:5:3	WD:4:6:3
5	WD:5:2:2	WD:5:3:3	WD:5:4:3	WD:5:5:3	WD:5:6:4
6	WD:6:2:3	WD:6:3:3	WD:6:4:3	WD:6:5:4	WD:6:6:4
7	WD:7:2:3	WD:7:3:3	WD:7:4:4	WD:7:5:4	WD:7:6:4
8	WD:8:2:3	WD:8:3:4	WD:8:4:4	WD:8:5:4	WD:8:6:5
9	WD:9:2:4	WD:9:3:4	WD:9:4:4	WD:9:5:5	WD:9:6:5
10	WD:10:2:4	WD:10:3:4	WD:10:4:5	WD:10:5:5	WD:10:6:5

Side And Top Panel

All side and top panels are constructed from 1.5mm thickness electro-galvanised sheet steel. Each and every cubicle can incorporate various sizes of side and top panels. Additional protection is on request.



ACCESSORIES

REF. NO.

LOUVRE	1
LOUVRE WITH WIRE MESH	2
LOUVRE WITH DUST PROOF	3
AIR-FILTER	3
RUBBER SEAL	4

EXAMPLE

Part No.	W	T	P	4:	8:
WEESMOD					
TOP					
PANEL					
X MODULE					
Y MODULE					

EXAMPLE

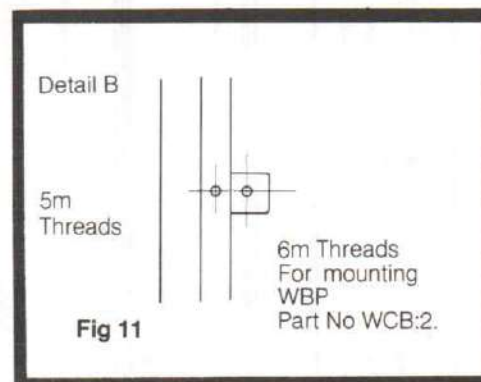
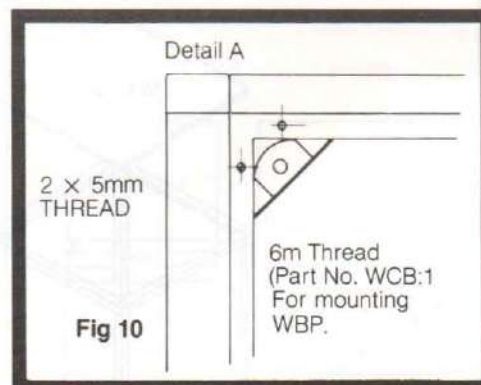
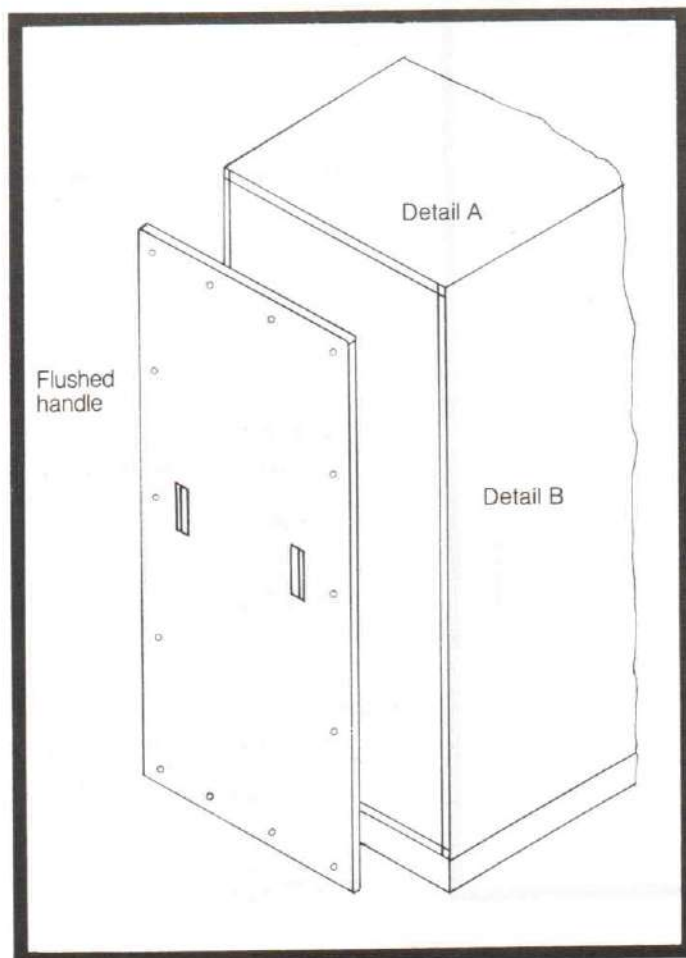
Part No.	W	S	P	8:	4
WEESMOD					
SIDE					
PANEL					
Y MOUDLE					
Z MOUDLE					

WSP Y\Z	2	3	4	5	6
6	WSP6:2	WSP6:3	WSP6:4	WSP6:5	WSP6:6
7	WSP7:2	WSP7:3	WSP7:4	WSP7:5	WSP7:6
8	WSP8:2	WSP8:3	WSP8:4	WSP8:5	WSP8:6
9	WSP9:2	WSP9:3	WSP9:4	WSP9:5	WSP9:6
10	WSP10:2	WSP10:3	WSP10:4	WSP10:5	WSP10:6

Part No. WTP X\Z	2	3	4	5	6
2	WTP2:2	WTP2:3	WTP2:4	WTP2:5	WTP2:6
3	WTP3:2	WTP3:3	WTP3:4	WTP3:5	WTP3:6
4	WTP4:2	WTP4:3	WTP4:4	WTP4:5	WTP4:6
5	WTP5:2	WTP5:3	WTP5:4	WTP5:5	WTP5:6
6	WTP6:2	WTP6:3	WTP6:4	WTP6:5	WTP6:6
7	WTP7:2	WTP7:3	WTP7:4	WTP7:5	WTP7:6
8	WTP8:2	WTP8:3	WTP8:4	WTP8:5	WTP8:6
9	WTP9:2	WTP9:3	WTP9:4	WTP9:5	WTP9:6
10	WTP10:2	WTP10:3	WTP10:4	WTP10:5	WTP10:6

Back Panel

WEESMOD end panel is constructed from 1.5mm thickness electro-galvanised steel sheet. For sizes above 'y' 8 modules come together with flushed handle for easy removal. Our standard protection is IP23. Other forms of protection such as louvre with wire mesh or louvre with dust proof air filter or water proof seal for bolts on doors are on request.



WCB1 and WCB2 are the mounting brackets for the back door which are formed by precision press guaranteed with size accuracy. See figure 10 & 11

EXAMPLE

Part No.	W	BP	4	8	1:2:3:4.
WEESMOD	—	—	—	—	—
BACK PANEL	—	—	—	—	—
X MODULE	—	—	—	—	—
Y MODULE	—	—	—	—	—
ACCESSORIES	—	—	—	—	—

ACCESSORIES

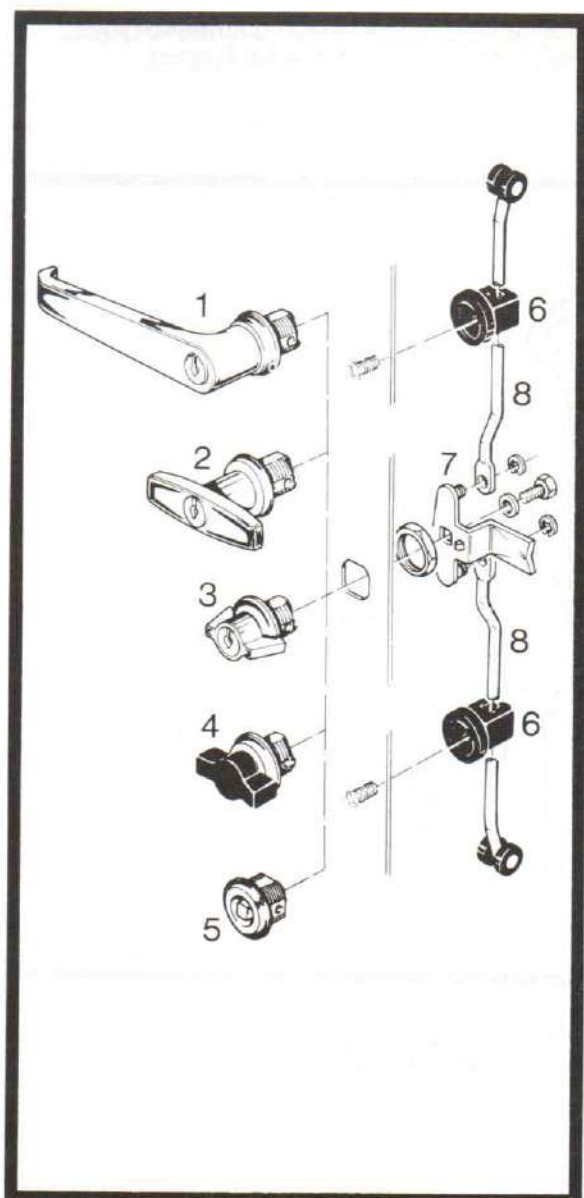
	REF. NO.
LOUVRE	1
LOUVRE WITH WIRE MESH	2
LOUVRE WITH DUST PROOF AIR-FILTER	3
TRENCH AND DOOR SEAL	4

STANDARD IP23

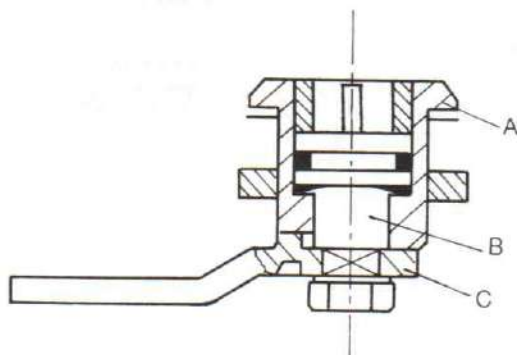
Y \ X	2	3	4	5	6		WCB 1
6	WBP6:2	WBP6:3	WBP6:4	WBP6:5	WBP6:6	3	4
7	WBP7:2	WBP7:3	WBP7:4	WBP7:5	WBP7:6	4	4
8	WBP8:2	WBP8:3	WBP8:4	WBP8:5	WBP8:6	5	4
9	WBP9:2	WBP9:3	WBP9:4	WBP9:5	WBP9:6	6	4
10	WBP10:2	WBP10:3	WBP10:4	WBP10:5	WBP10:6	7	4
	—	—	1	2	3	WCB 2	—

Example: Requirement of WCB1/WCB2: add: number-corresponding to the 'Y' & X Assembly of WEESMOD.

Door Accessories



FLUSH FASTENER: LH + RH application
90° locking-stroke



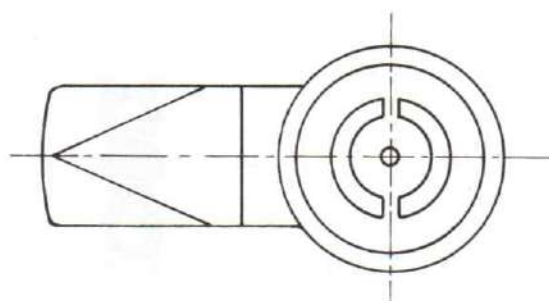
COMPLETELY SCREWED
IP 65 — NEMA 4: ON REQUEST
FLEXIBILITY: MAKE YOUR
OWN COMBINATION
TOTAL INSTALLATION TIME: 2 MINUTES

3-point latch system

DESCRIPTION	PART NO.
1) L-HANDLE R-HANDLE	WLS:1L WLS:1R
2) T-HANDLE	WLS:2
3) WING HANDLE	WLS:3
4) WING KNOB	WLS:4
5) FASTENER (Complete i) Standard ii) IP65/NEMA 4	WFA WFB
6) ROD GUIDES	WLS:5
7) THREE POINT LATCH	WLS:6
8) PUSH ROD 6 MODULE 7 MODULE 8 MODULE 9 MODULE 10 MODULE	WLS7:6 WLS7:7 WLS7:8 WLS7:9 WLS7:10

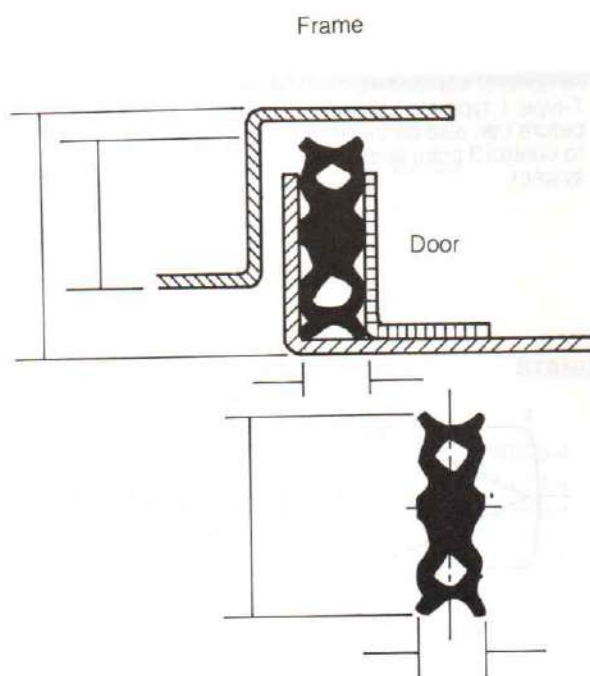
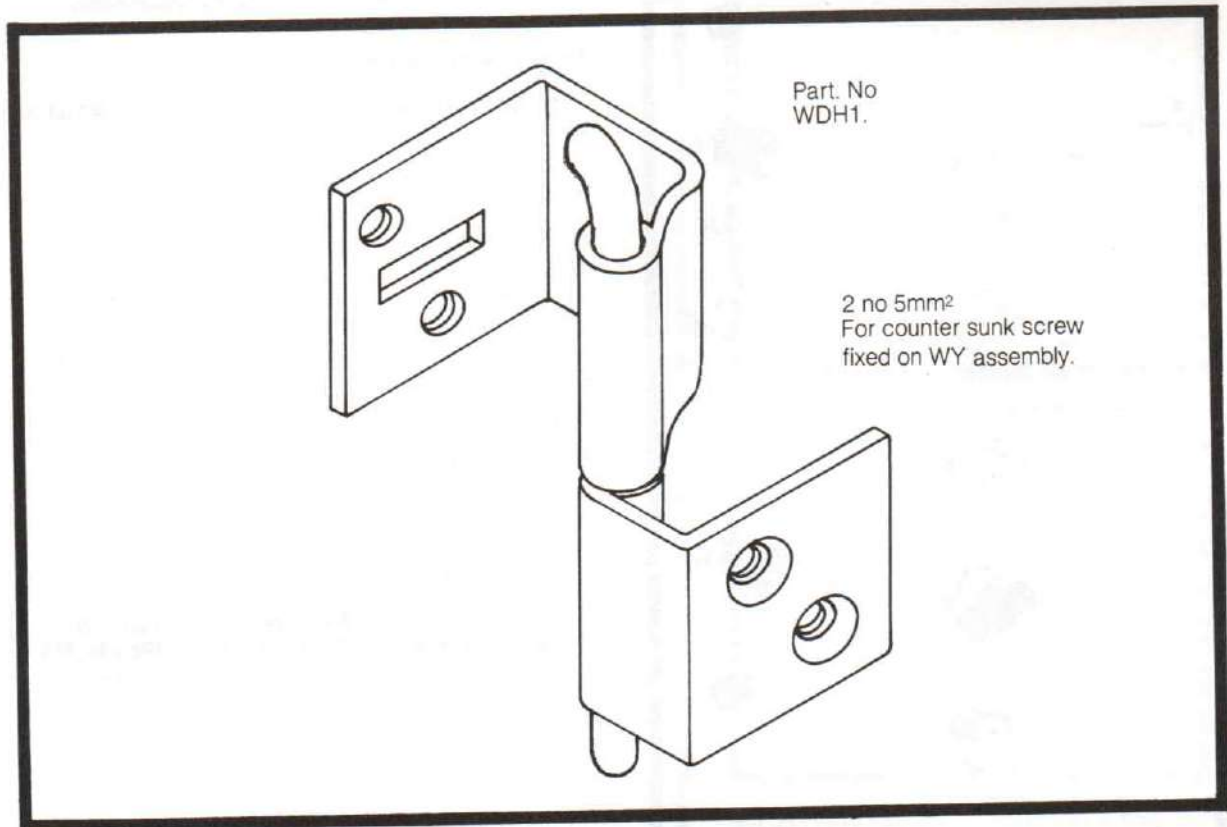
DESCRIPTION	PART NO. STANDARD	PART NO. IP65/NEMA 4
a) HOUSING	WFH:1	WFH:1S
b) INSERT	WFH:2	WFH:2S
c) TONGUES COMPLETE KEY	WFH:3 WFA WFH4	WFH:3 WFB WFH4

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



Accessories For Flushed Heavy Duty Hinges

This product has been mass produced by highly sophisticated machine which guarantee high quality standard of precise accuracy to be fitted onto WEESMOD WY. . frame for flushed mounting door.



Natural Sealing Rubber
compiled to IP65 Nema 4

Part No
WS: 1

Features:

- Very easy to compress
- Very wide tolerance range
- Airtight
- Very easy to install, without glue
- Double symmetry — no assembly errors

New Material:

- This rubber composition has the following features
- Resistant to: U.V., Ozone, weathering, seawater
 - Temperature-range: + 120°C to - 40°C
 - Restricted oilresistant
 - Neutral for paint
 - Self-extinguishing

Accessories for Mounting Equipment

'Z' Supporter

WZS is made up of mild steel tape of 5mm thickness with length to suit individual 'Z' module. WZPB1 is mounted onto WZS which can slide along the 'Z' axle to meet your requirement for mounting the base plate for individual components. See figure 12 + 13 below.

Part. No.

WZS 2.
WZS 3
WZS 4

WZS 5
WZS 6

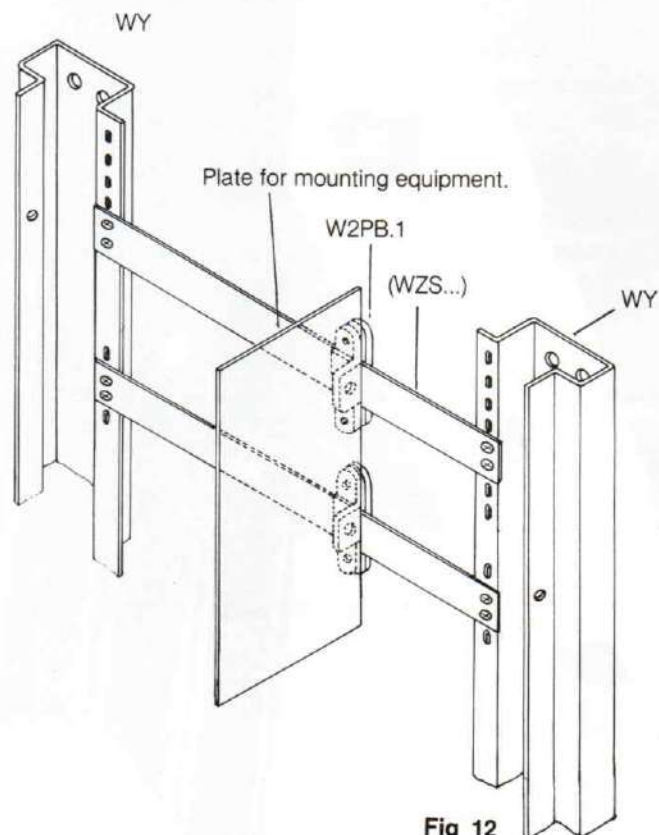


Fig 12

Part No WZPB:1
Z positioning bracket.

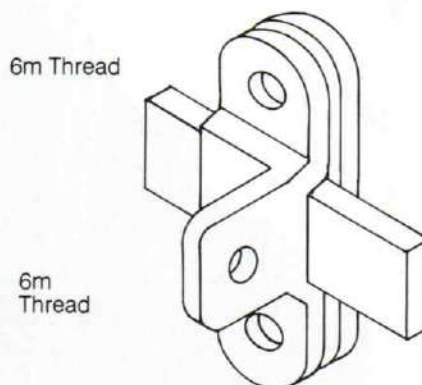
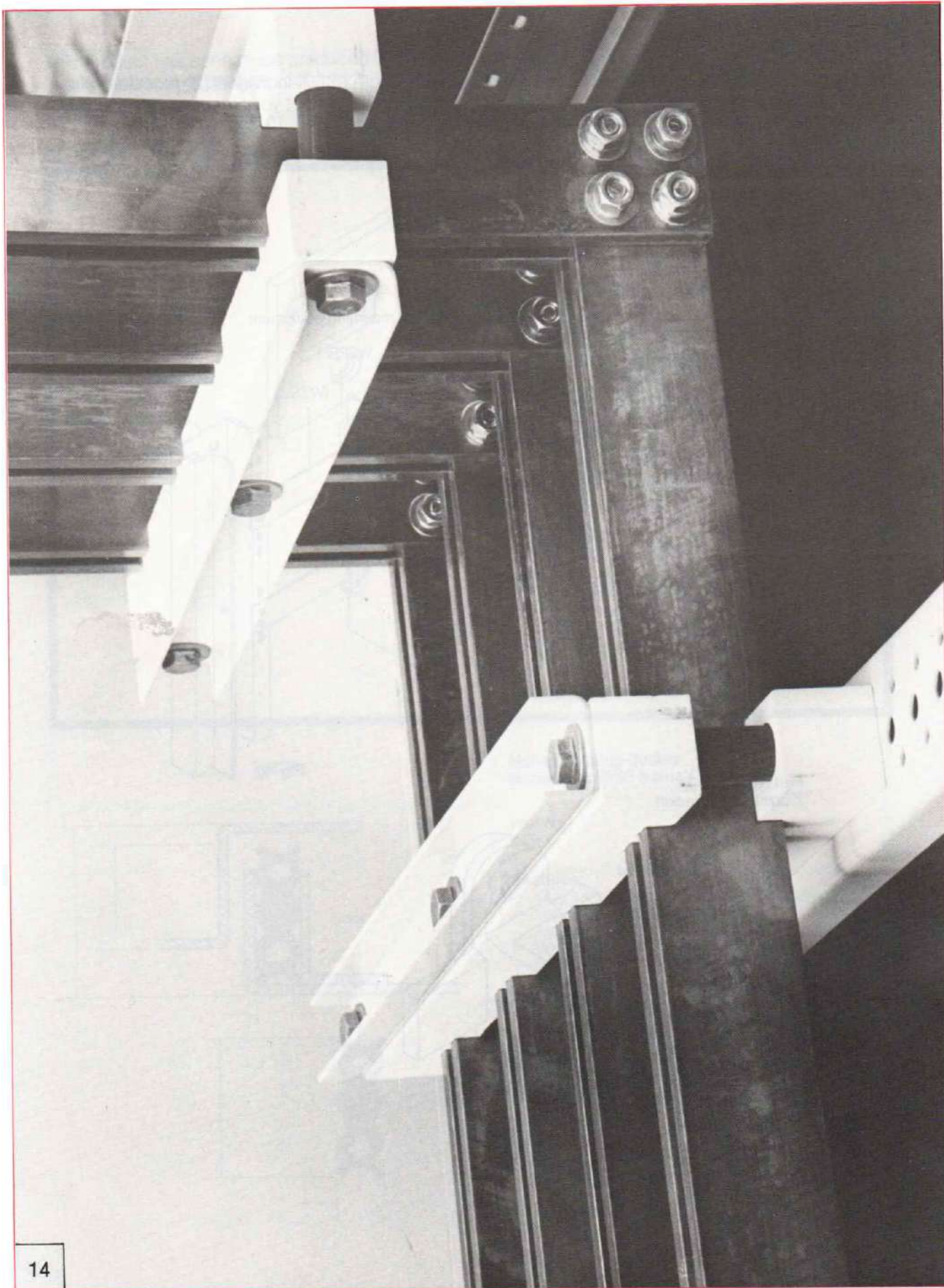
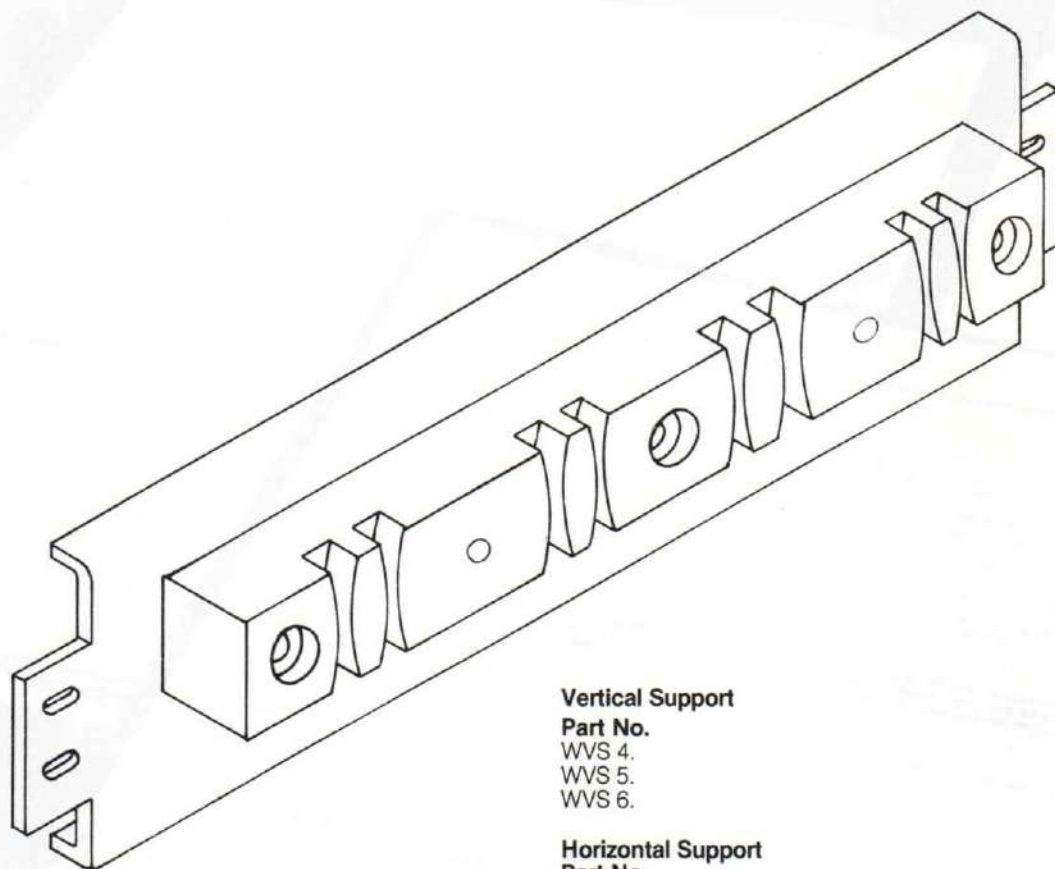


Fig 13

Horizontal & Vertical Busbars of a FACTORY-BUILT-ASSEMBLY



Accessories For Bus-Bar Horizontal/Vertical Support



Vertical Support

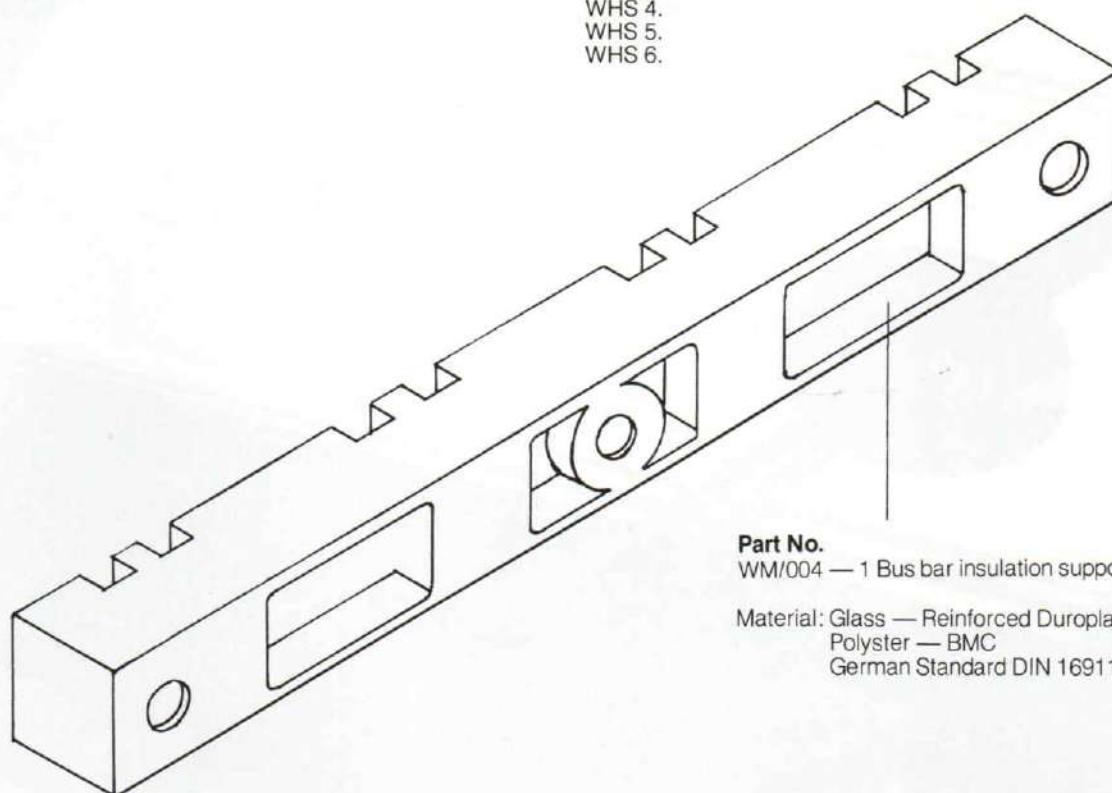
Part No.

WVS 4.
WVS 5.
WVS 6.

Horizontal Support

Part No.

WHS 4.
WHS 5.
WHS 6.



Part No.

WM/004 — 1 Bus bar insulation support

Material: Glass — Reinforced Duroplastic
Polyester — BMC
German Standard DIN 16911

ASTA

CERTIFICATE NO.

APPROVED BY

TESTED BY

DATE OF TEST

THE ASSOCIATION OF SHORT-CIRCUIT TESTING AUTHORITIES

23/24 Market Place, Rugby CV21 3DU, England

Telephone 01827 511111

Telex 333333

Cable 333333

ASTA Observer

Secretary

Date

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984

22nd April 1984