



**Reliable People!**  
**For Qualitative Enclosures !!**



**Volume - II**

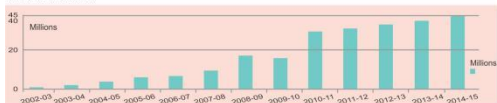


## ABOUT US.

EXCEL ENCLOSURES is an ISO9001-2008 certified metal enclosures manufacturer in Pune, Maharashtra (INDIA) since 2002. We are serving Automation, Equipments manufacturers, Machine tool manufacturers, Machine rebuilders, SPM manufacturers, Telecommunication, IT, UPS / Stabilizers, Large Project industries and MNC's in INDIA.

This is a proprietary business jointly run by an electronics engineer duo - Mr & Mrs Shirke holding a promising 27 & 20 years experience respectively in the concerned industry.

Being electronics engineer is an added advantage to customers since it facilitates to up bring the technical requirements & quality of the product.



## QUALITY POLICY:

At EXCEL ENCLOSURES, we are committed to manufacture appropriate product, which shall satisfy our customers existing and upcoming needs beyond their expectations. We are entrusted to "enrich" our customer's ultimate product in market. We aim to achieve this by continuous improvements in our services and system, aided by an inspiring teamwork with our employees and vendors.

## DESIGNING:

Enclosures are designed on SOLID EDGE 3D CAD software. It gives an excellent aesthetic look, upgrades degree of protection, best strength to weight ratio, ease in assembling internal components at customer's end. We interact with our customers at the stage of designing the enclosures to make an excellent end product.

## PRODUCTION:

In house NC shearing, hydraulic CNC press brake (Bending) machines with CNC hydraulic Punch Press. Utmost care is taken while designing the product, special dies and fixtures are used for punching, excellent machinery is used for MIG/CO<sub>2</sub> & TIG welding and finishing is also done on very good machinery. Assembly line is sated with pneumatic tools, latest technology packing with electric hoist loading-unloading maintains safe operations & material movements. Powder Coating with eight tanks pre-treatment is also done qualitatively at our dedicated sister concern unit. It is one of the best powder coating plants.

## QUALITY CERTIFICATIONS



## I.P. CERTIFICATIONS



## I N D E X

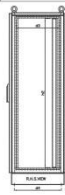
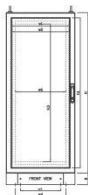
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**Product: Modular floor standing extensible enclosure  
(Design: MFSE or MF)**



**ABBREVIATION**

- W = Width of enclosure (Minimum to 2000mm)
- H = Maximum clearance (20-40)
- W1 = Panel width (20-100)
- W2 = Inside width (22 widthwise) (2000-150)
- W3 = Outside width (22 widthwise) (2000-150)
- W4 = Inside width of door for outside (20-150)
- D = Depth of the enclosure (Minimum to 1000mm)
- D1 = Rear section mounting distance (20-100)
- D2 = Door section mounting depth (75 to 200mm)
- D3 = Mounting frame (22 height) (20-200)
- D4 = Mounting frame (22 in depth) (20-100)
- H1 = Height of the enclosure (Minimum to 2000mm)
- H2 = Maximum clearance (20-40)
- H3 = 2 plate height (20-100)
- H4 = Inside height of door for outside (20-100)
- B = Base (100mm/100mm)



**Features :**

- Strongest design available in enclosures.
- Perfect Strength to weight ratio.
- Better Ingress protection (Up to IP-55).
- Multi color powder coating is possible.

**Sub-assemblies:**

- **Frame structure :** 3.00 thk folded CRCA sheet with vertical and horizontal (depth) indexing holes of dia 9 & dia 4.2 in pitch 12.5mm.
- **Base :** 3.00 thk folded sheet with removable front and rear cover in 2.00 thk.
- **Door :** Front & rear single door / split door /partial door in 2.00 thk CRCA sheet. With support channels, sheet metal special hinges, 3/4" point handle lock.
- **Cover :** Front fixed bolted cover in 2.00thk for instrumentation panel in place of door. when door not necessary at rear screwed cover in 1.5 thk.
- **Gland plate :** Varying combination like, Folded CRCA bottom cover or Slotted / perforated bottom cover in 1.5 thk (for ventilation from bottom if required).
- **Side cover :** Screwed side cover in 1.5 thk CRCA sheet.
- **Top cover :** in 1.5 thk CRCA bolted in lifting eye bolts itself.
- **C' Plate :** In 2.00 thk / 3.00 thk as per requirement maximum size is (W-100) x (H-100) 9)
- **Inter panel separator :** Made in 1.5 thk vertical or horizontal.
- **Lifting eye bolts :** Hooks are used for normal weight & heavy duty angles for bigger enclosures.
- **19" Rack :** Din Standard 19" equipment mounting arrangement is possible.
- **19"Swing frame :** suitable for 19" mounting in width and height as per requirement

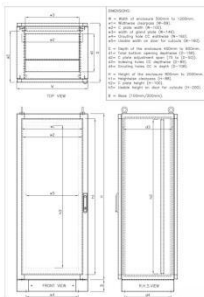
**Standard sizes :**

| Width                            | Depth                           | Height                            | Base                          |
|----------------------------------|---------------------------------|-----------------------------------|-------------------------------|
| 500mm-2000mm<br>(pitch of 100mm) | 400mm-1000mm<br>(pitch of 50mm) | 1000mm-2200mm<br>(pitch of 100mm) | 75mm , 100mm<br>150mm , 200mm |

\*Up to 1000mm width single door can be provided & above 1000mm split doors are recommended.

\*Up to 1200mm width single welded structure can be provided & above 1000mm two Separate structure or twin welded structure is recommended.

## Product : Modular floor standing enclosures (MFS)



### Features:

- A Stronger design available in the enclosures.
- Good strength to weight ratio.
- Better IP Protection (Up to IP55).
- Quite economic design.

### Sub-assemblies:

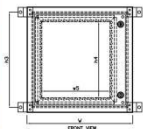
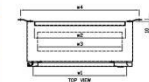
- **Welded Body** : In 2.00 thk folded CRCA sheet with vertical and horizontal (depth) indexing holes of dia 9 & dia 4.2 in pitch 12.5mm.
- **Base** : 3.00 thk folded sheet with removable front and rear cover in 2.00 thk.
- **Door** : Front & rear single door / split door / partial door in 2.00 thk CRCA sheet. With support channels, sheet metal special hinges, 3/4" point handle lock, 'D' type PU foam gasket.
- **Cover** : Front fixed bolted cover in 2.00thk for instrumentation panel in place of door; when door not necessary at rear screwed cover in 1.5 thk.
- **Gland plate** : Screwed CRCA bottom cover or Slotted / perforated bottom cover in 1.5 thk. (for ventilation from bottom if required).
- **C' Plate** : In 2.00 thk / 3.00 thk as per requirement maximum size is (W-100) x (H-100)
- **Lifting eye bolts** : Hooks are used for normal weight & heavy duty angles for bigger enclosures.
- **19" Rack** : Din Standard 19" equipment mounting arrangement is possible.
- **19" Swing frame** : suitable for 19" mounting in width and height as per requirement

### Standard sizes of the enclosures

| Width                            | Depth                          | Height                            | Base                          |
|----------------------------------|--------------------------------|-----------------------------------|-------------------------------|
| 500mm-1200mm<br>(pitch of 100mm) | 400mm-600mm<br>(pitch of 50mm) | 1000mm-2200mm<br>(pitch of 100mm) | 75mm , 100mm<br>150mm , 200mm |

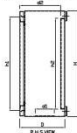
\*Up to 1000mm width single door, above sizes will have split door.

## Product : Wall - Machine mounting enclosures (WMM or SB)



### DIMENSIONS

- W = Width of enclosure 100mm to 1000mm.
- W1= Machine overhang (W-55)
- W2= C plate width (W-75)
- W3= Width of gland plate (W-105)
- W4= Mounting hole (C- wallbase (W-80))
- W5= Usable area in door for outlets (W-175)
- D = Depth of the enclosure 100mm to 1200mm.
- d1= Spacing for glands at bottom (D-153)
- d2= C plate distance from door (D-121)
- H = Height of the enclosure 300mm to 1200mm.
- H1= Height clearance (H-90)
- H2= C plate height (H-111)
- H3= Mounting hole (C- height) (H-50)
- H4= Usable area in door for outside (H-141)



### Features :

- This is suitable for smaller size enclosures.
- Better IP Protection (Up to IP67).

### Parts of enclosure:

- **Welded body:** Its body is closed from sides, rear, top & bottom in 1.5 / 2.00 thk folded CRCA sheet. **2) Base:** It is optional.
- **Front single / split / partial doors:** Made in 2.00 thk CRCA sheet with support frame, sheet metal special hinge, cam locks.
- **Gland plate:** At top or bottom in 2.00 thk CRCA.
- **Component mounting plate ("C" Plate):** 2.00/3.00 thk as per requirement size is (W-55) x (H-55) mounting on welded bushes at rearmost position.
- **Wall mounting bracket:** 4 no's of wall mounting bracket (in 3.00 thk ) per enclosures.
- **19" Rack:** Din Standard 19" equipment mounting arrangement is possible.
- **19" Swing frame:** suitable for 19" mounting in width and height as per requirement.

### Standard sizes :

| Width                            | Depth                           | Height                            | Base               |
|----------------------------------|---------------------------------|-----------------------------------|--------------------|
| 300mm-800mm<br>(in pth of 100mm) | 100mm-400mm<br>(in pth of 50mm) | 300mm-1200mm<br>(in pth of 100mm) | As per requirement |

\* There is access from front only as sides and top are closed.

## Product : Junction Box (JB or SB)



### Features:

- IP-67 Ingress protection.
- Welded body with sides, top and bottom closed in 1.2 thk folded CRCA sheet.
- Front single door in 1.2 thk CRCA sheet. With metal hinges, cam locks.
- Polyethylene gasket on door and polyurethane foam on gland plate, both are fire retardant.
- M-4 tapped Z angles inside for DIN rail mountings (No component mounting plate inside).
- As side walls are not removable, inter panel separator is not required here.
- Gland plate optional at bottom in 2.00 thk CRCA.
- These types of enclosures are not suitable to join together, however if needed we can join them.

### Standard sizes :

| Width                           | Depth                          | Height                          |
|---------------------------------|--------------------------------|---------------------------------|
| 100mm-600mm<br>(in pth of 50mm) | 80mm-200mm<br>(in pth of 50mm) | 100mm-600mm<br>(in pth of 50mm) |

\* There is access from front only as sides and top are closed.

## Product : Stainless Steel Enclosures

MFSE Construction (IP 55)



Control Desk (IP 55 & 65)



WMM Boxes (IP 66)



### Features:

- These are manufactured in JB, WMM, MFS & MFSE Construction.
- All the facilities are same as it's respective design. For details please refer page. No. 1,2,3 or 4.
- SS 304, SS 316 material grade are available.
- Surface finish is available in matt or glossy.
- Refer respective page for size variables.



## Product : Operator pendant



Top Hung Pendant



Top Hung Pendant



Bottom Hung Pendant



Bottom Hung Pendant



### Features:

- ◊ Welded body with sides, top and bottom closed in 1.5/2.00 thk folded CRCA sheet.
- ◊ Very strong and sturdy arm manufactured in 65x65 square tubes in 3.00 thick sheet.
- ◊ Front single door in 2.00 thk CRCA sheet with, 'D' type foam gasket.
- ◊ Polyethylene gasket on door and polyurethane foam on gland plate, both are fire retardant.
- ◊ Swiveling thrust bearing with inner diameter 58mm for cable passing.
- ◊ As side walls are not removable, inter panel separator is not required here.
- ◊ These types of enclosures are not suitable to join together, however if needed we can join them.

### Standard sizes :

| Width                              | Depth                             | Height                              |
|------------------------------------|-----------------------------------|-------------------------------------|
| 300mm-800mm<br>(in pitch of 100mm) | 200mm-600mm<br>(in pitch of 50mm) | 300mm-1200mm<br>(in pitch of 100mm) |

\* There is access from front only as sides and top are closed.

## Product : Operator Station



### Features :

- Welded body with sides, top and bottom closed in 1.5/2.00 thk folded CRCA sheet.
- Front single door in 2.00 thk CRCA sheet with PV foam gasket
- 'D' type PU foam gasket on door and on gland plate, fire retardant.
- As side walls are not removable, inter panel separator is not required here.
- Very special construction for operator ease in standing position.
- These types of enclosures are not suitable to join together, however if needed we can join them.

### Standard sizes :

| Width                              | Depth                             | Height                             |
|------------------------------------|-----------------------------------|------------------------------------|
| 300mm-1200mm<br>(in pitch of 50mm) | 200mm-400mm<br>(in pitch of 50mm) | 300mm-1500mm<br>(in pitch of 50mm) |

\* There is access from front only as sides and top are closed.

**Product : Control Desk**



**Features :**

- The best IP protection (IP-55)
- Standard construction (design).
- Manufactured in modules.
- Floor standing or wall mounting arrangement is possible.
- Modifications possible at customer end also if needed.
- Modularity of extensibility and internal arrangements.
- Easy handling and transportation.

**Standard Sizes :**

- These are standard products. Shape (construction) is fixed; only height, width and depth sizes can be changed.

## Product : Outdoor Enclosures



### Features :

- ◊ The best IP protection (IP-55).
- ◊ Better strength.
- ◊ Modularity for internal assembly. Doesn't require more pre-engineering.
- ◊ Rain canopy is fitted on top of enclosure to minimize rain water contact with enclosure.
- ◊ Universal mounting of doors and covers so that they can be interchanged or reverted.
- ◊ Fire retardant & chemical resistant Polyurethane foamed D type gaskets (workability at 100°C temperature) on doors and covers for better IP protection.
- ◊ Detachable all the doors and covers facilitates faster interior assembly.
- ◊ Stronger support channels (plated or powder coated) screwed on the doors.
- ◊ Punched holes having pitch of 12.5mm.
- ◊ Depth and height adjustable mounting of component plate and horizontal / vertical partitions.
- ◊ Clamped and folded gland plates in parts for easy removing and fitting. Gland holes not necessary to decide earlier, can be drilled at site also.
- ◊ Stainless Steel hinges and hardware is used for long lasting.
- ◊ For low corrosive area special outdoor duty powder coating is provided on CRCA MS sheet enclosure to resist UV rays and fading effects due to outdoor environment.
- ◊ For medium corrosive area special outdoor duty powder coating is provided on galvanized (GPSP – Galvanized Plates with Skin Passed) sheet enclosure to resist UV rays and fading effects due to outdoor environment. It lasts double the normal enclosure.
- ◊ For high corrosive area these are manufactured in stainless steel. It is life long lasting.
- ◊ Sheet metal folded base looks attractive with ease in grouting (Grouting holes visible). ISMC base also can be provided.



### Standard sizes of the enclosures

| Width                            | Depth                           | Height                           | Base                          |
|----------------------------------|---------------------------------|----------------------------------|-------------------------------|
| 300mm-1200mm<br>(pitch of 300mm) | 120mm-1000mm<br>(pitch of 50mm) | 300mm-2200mm<br>(pitch of 100mm) | 75mm , 100mm<br>150mm , 200mm |

\*Up to 1000mm width single door, above sizes will have split door.

## Product : Insulated Enclosures



### Features :

- Better IP protection.
- This is manufactured in 'Modular Floor Standing Extensible Enclosure' (MFSE Construction). For Sizes and facilities please refer page 1.
- 50mm glass wool or rock wool is used as insulation.
- Cutout pockets on all sides (if any) are also insulated with nitrile foam gasket sheets.
- Only 100mm in width, 100mm in depth and nothing in height is consumed for insulation.
- Compact in size and hence energy saving (Heave reduction in A.C. capacity specification).
- Modularity is maintained and hence width can be extended.
- Use for Outdoor duty is possible with some changes without much increase in cost. Costing is 25% of E Room.
- This is better replacement for E Room.

## Product : PC enclosures (Shop Floor)

Shop Floor PC enclosure Standing



### Features :

- Better IP protection.
- The best aesthetic look.
- Decorated monitor compartment.
- Monitor tray adjustable in height for better vision.
- Toughened glass / clear acrylic fitted on monitor door.
- Gas springs used for monitor door opening and for holding it upwards. Enables hands free operation.
- Sliding drawer for keyboard with high quality telescopic rails with arrangement for mouse pad below drawer.
- Lower compartment can accommodate CPU along with stabilizer / UPS. There is space for Printer and stationery in case of standing operation PC enclosures.
- CPU tray can be adjusted in height.
- Castors or base can be fitted at bottom.
- Ventilation through dust proof filters grills.

### Standard sizes of the enclosures

| Width          | Depth | Height | Base                                   |
|----------------|-------|--------|--|
| 600mm or 700mm | 600mm | 1700mm | 75mm , 100mm, 150mm , 200mm or casters |

\*Up to 800mm width single door, above sizes will have split door.

## Product : PC enclosures (Economic)



### Features :

- Better IP protection.
- The best aesthetic look.
- Clear acrylic fitted on monitor door.
- Sliding drawer for keyboard with high quality telescopic rails with arrangement for mouse pad below drawer.
- Lower compartment can accommodate CPU along with stabilizer / UPS.
- There is space for Printer and stationery in case of standing operation PC enclosures.
- CPU tray can be adjusted in height without any tool.
- Drawer has some additional space for any other material.
- Separate open compartment for CD's, books and other essential material.
- Castors or base can be fitted at bottom.
- Ventilation through dust proof filters grills.
- Very much economical construction.

### Standard sizes of the enclosures

| Width          | Depth | Height | Base                    |
|----------------|-------|--------|-------------------------|
| 600mm or 700mm | 600mm | 1700mm | 75mm , 100mm or castors |

\*Up to 800mm width single door, above sizes will have split door.

### Features :

- Better IP protection.
- The best aesthetic look.
- Clear acrylic fitted on monitor door.
- Sliding drawer for keyboard with high quality telescopic rails with arrangement for mouse pad below drawer.
- Lower compartment can accommodate CPU along with stabilizer / UPS.
- CPU tray can be adjusted in height without any tool.
- Drawer has some additional space for any other material.
- Separate open compartment for CD's, books and other essential material.
- Castors or base can be fitted at bottom.
- Ventilation through dust proof filters grills.
- Very much economical construction.

### Standard sizes of the enclosures

| Width          | Depth | Height | Base                    |
|----------------|-------|--------|-------------------------|
| 600mm or 700mm | 600mm | 1300mm | 75mm , 100mm or castors |

\*Up to 800mm width single door, above sizes will have split door.

## Product : PC Enclosures (Control Room)

Process Control  
Computer enclosures -1



Control Room  
Computer enclosures



Bar Code Printer  
Computer enclosures



Process Control Computer enclosures -2



### Features :

- Better IP protection.
- The best aesthetic look.
- Decorated monitor compartment.
- Monitor tray adjustable in height for better vision.
- Toughened glass / clear acrylic fitted on monitor door.
- Gas springs used for monitor door opening and for holding it upwards. Enables hands free operation.
- Sliding drawer for keyboard with high quality telescopic rails with arrangement for mouse pad below drawer.
- Lower compartment can accommodate CPU along with stabilizer / UPS. There is space for Printer and stationery in case of standing operation PC enclosures.
- CPU tray can be adjusted in height without any tool.
- Drawer has some additional space for any other material.
- Separate open compartment for CD's, books and other essential material.
- Castors or base can be fitted at bottom.
- Ventilation through dust proof filters grills.

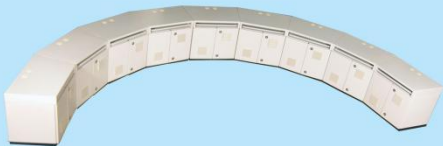
### Standard sizes of the enclosures

| Width          | Depth | Height          | Base                                      |
|----------------|-------|-----------------|---|
| 600mm or 700mm | 600mm | 1300mm & 1700mm | 75mm, 100mm<br>150mm, 200mm<br>or casters |

\*Up to 800mm width single door; above sizes will have split door.



Trapezoidal tables forming round shape



Doors Open Internal view



Protruded with sliding drawer



Unprotruded with sliding drawer



Protruded with fixed drawer



Printer Table



#### Features :

- Welded body with sides, top and bottom closed in 1.5/2.00 thk folded CRCA sheet.
- Front single door / split doors / partial doors in 2.00 thk CRCA sheet. With support frame, sheet metal special hinges, cam locks and handles.
- Polyethylene gasket on door and polyurethane foam on gland plate, both are fire retardant.
- Horizontal sliding tray is provided for CPU for easy access.
- Sliding keyboard tray is provided for comfortable working when it is not in use.
- Mounting plate at side for spice buster, MCB, terminals mounting.
- Gland plate at bottom in 2.00 thk CRCA.
- Rear access is optional.
- Anti vibration pads can be provided.
- Sturdy base is provided with side cable entry.
- Can be manufactured in trapezoidal shape to form a circle.

#### Standard sizes of the enclosures

| Width                               | Depth | Height                            | Base           |
|-------------------------------------|-------|-----------------------------------|----------------|
| 600mm to 800mm<br>in pitch of 100mm | 600mm | Typically 750mm<br>can be changed | Typically 75mm |

\*Up to 800mm width single door, above sizes will have split door.

**Product : Gas cabinet**



**Features :**

- The best IP protection.
- Better strength.
- Modularity for internal assembly. Doesn't require more pre-engineering.
- Width and depth adjustable cylinder mounting channels on a 25mm pitch.
- Doors with hydraulic power closers keeps door normally closed with push to open single point lock.
- Wire reinforced toughened glass fitted on doors with support channels (plated or powder coated) screwed on the doors.
- Fire retardant & chemical resistant Polyurethane foamed D type gaskets (workability at 100°C temperature) on doors.
- Air suction duct at top for disposal of gas leakages.
- Heavy 5.00mm thick unfolded plate used as bottom for more strength and easy cylinder placing inside cabinet.

**Standard sizes :**

| Width                            | Depth                          | Height                           | Base                          |
|----------------------------------|--------------------------------|----------------------------------|-------------------------------|
| 400mm-1500mm<br>(pitch of 100mm) | 400mm-600mm<br>(pitch of 50mm) | 500mm-2200mm<br>(pitch of 100mm) | 75mm , 100mm<br>150mm , 200mm |

\*Upto 600mm width single door, above sizes will have split doors.

Product : **Modular MCC / PCC Enclosures**

New  
(Modular)

**EXCEL ENCLOSURES**  
AN ISO 9001:2008 COMPANY



#### Features :

- The best IP protection (IP-54).
- Best strength for 1200 depth also.
- Modularity for internal assembly. Doesn't require more pre-engineering.
- Each & every compartment is a separate box and hence we can alter complete elevation at any stage.
- Punched holes having pitch of 12.5mm.
- Universal mounting of doors and covers so that they can be interchanged or reverted,
- Detachable all the doors and covers facilitates faster interior assembly.
- Stronger support channels (plated or powder coated) screwed on the doors.
- Fire retardant & chemical resistant Polyurethane foamed D type gaskets (workability at 100°C temperature) on doors and covers for better IP protection.
- Easy and modular busbar mounting is provided in bus chambers.
- Depth and height adjustable mounting of component plate and horizontal / vertical partitions.
- Clamped and folded gland plates in parts for easy removing and fitting. Gland holes not necessary to decide earlier, can be drilled at site also.
- Angular mounting of terminals provides spacious access.
- Sheet metal folded base looks attractive with ease in grouting (Grouting holes visible). ISMC base also can be provided.

#### Standard sizes of the enclosures

| Width   | Depth                              | Height                            | Base                          |
|---|------------------------------------|-----------------------------------|-------------------------------|
| Modules of 300mm,<br>400mm,500mm,600mm<br>700mm & 800mm | 400mm to 1200mm<br>(pitch of 50mm) | 1000mm-2200mm<br>(pitch of 100mm) | 75mm , 100mm<br>150mm , 200mm |

## Product : Transformer - Choke Enclosures



### Features :

- Welded body with sides, top and bottom closed in 1.5/2.00 thk folded CRCA sheet or modular frame structure in 3.00 thk.
- Canopy can be mounted on top.
- Sides can be covered with covers with punched ventilation lovers.
- It can be manufactured in GI sheets or stainless steel sheet for outdoor use.

### Standard sizes of the enclosures

| Width                            | Depth                           | Height                           | Base                           |
|----------------------------------|---------------------------------|----------------------------------|--------------------------------|
| 300mm-2000mm<br>(pitch of 100mm) | 300mm-1500mm<br>(pitch of 50mm) | 300mm-2200mm<br>(pitch of 100mm) | 50mm-300mm<br>in pitch of 50mm |

\*Up to 1000mm width single door, above sizes will have split door.



### IP : CODE OF PROTECTION

IP \_\_\_ degree of protection of enclosures of electrical equipment in accordance with standards IEC 529, BS 5490.

**First digit : Protection against solid bodies**

**Second digit : Protection against water**

| IP | TEST   | RESULT   | IP | TEST   | RESULT                     |
|----|--|--|----|--|----------------------------|
| 0  | No protection  | Object is not protected                          | 0  | No protection  | Object is not protected    |
| 1  | Protection against objects of diameter 50 mm or greater (e.g. Hand)        | Any object having diameter 50mm must not enter   | 1  | Protection against dropping water falling vertically (0°)              | No harmful effect of water |
| 2  | Protection against objects of diameter 12.5 mm or greater (e.g. Finger)    | Any object having diameter 12.5mm must not enter | 2  | Protection against dropping water falling 15° either side of vertical  | No harmful effect of water |
| 3  | Protection against objects of diameter 2.5 mm or greater (e.g. Tool)       | Any object having diameter 2.5mm must not enter  | 3  | Protection against sprayed water falling 60° either side of vertical   | No harmful effect of water |
| 4  | Protection against objects of diameter 1.0 mm or greater (e.g. Fine wires) | Any object having diameter 1mm must not enter    | 4  | Protection against splashing water from all sides                      | No harmful effect of water |
| 5  | Dust protected   | Harmful dust particles protected                 | 5  | Protection against water jet from all sides                            | No harmful effect of water |
| 6  | Dust proof   | Completely protected against dust articles       | 6  | Protection against power-full water jet from all sides                 | No harmful effect of water |
|    |  |  | 7  | Protection against effect of temporary immersion in water upto 1 meter | No water should enter      |
|    |  |  | 8  | Protection against effect of continuous immersion in water             | No water should enter      |

### New Products





IP-55 & IP-66 Certified



## EXCEL ENCLOSURES

An ISO 9001-2008 Company

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