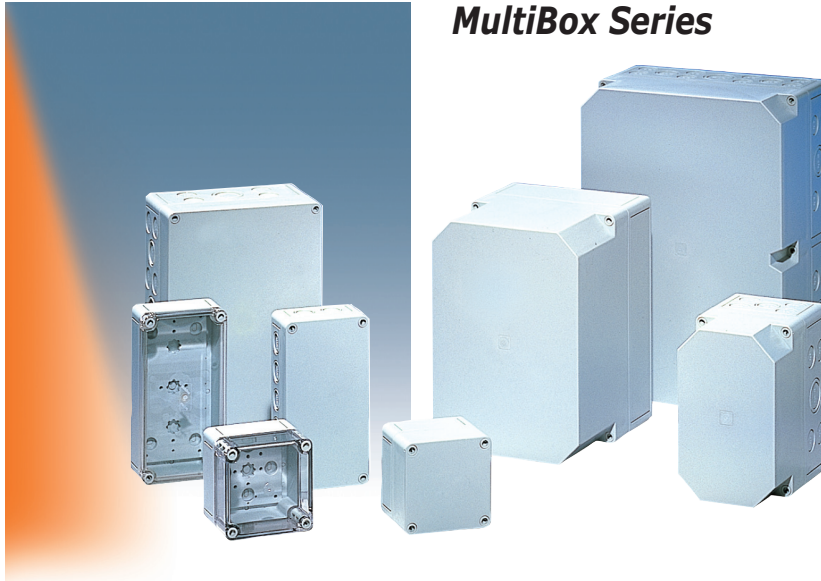


## MultiBox Series



### Small multipurpose boxes

- The range comprises 11 different basic box sizes, from 65 x 65 mm up to 361 x 254 mm, with up to 5 different cover depths and two designs:
    - with grey lid
    - with transparent lid.
  - They are suitable for applications that require light weight and durability.
  - The base is manufactured from glass-fibre reinforced polycarbonate (type PC) or polystyrene (type PS), both dyed in mass RAL 7035 (light grey).
  - Glass-fibre reinforced polycarbonate bases (type PC) come with smooth side walls (only one Metric entry) or with several Metric knock-outs.
  - Polystyrene bases (type PS) come with smooth side walls or with several Metric knock-outs.
  - The lid is manufactured from transparent or opaque grey polycarbonate or grey polystyrene.
  - The lid is fixed to the base by means of cover screws in polyamide.
  - Polycarbonate boxes can withstand temperatures from -35° to +120°C, the polystyrene boxes temperatures between -40° and +70°C.
  - The box offers maximum protection to the user and the equipment by means of total insulation and a protection degree as per IEC 60529 and also complies with the impact-resistance standard as per EN 50102.
- This protection covers the total volume of the enclosure according to EN 50298.
- boxes type PC, IP66-IK08
  - boxes type PS, IP66-IK07
- Boxes are corrosion-resistant and do not require any maintenance.
  - Materials are halogen-free polycarbonate and low-halogen polystyrene.
- Both types (PC and PS) are self-extinguishing according UL94-V2.
  - Boxes offer high resistance to chemical and aggressive influences.
  - The box is secured to the wall by screws directly through the base, direct through the four corner shafts of the base (under the cover screws) or by using external mounting brackets.
  - Boxes may be fitted with external hinges and/or padlocking as a protection against unauthorised access.
  - Boxes can be combined in height and in width by means of a combi set.
  - It is possible to mount DIN profiles (15x5x1 and 35x7.5x1) as well as mounting plates.
  - Boxes type PC bear the cUL approval.
  - Tailor-made boxes are available upon request: coloured, painted, overprinted, machine finished, EMC shielded.

# Specifications for Tender

## VM Series



- The range comprises 10 different basic box sizes, from 119 x 69 mm up to 169 x 169 mm, with up to 4 different cover depths and two designs:
    - with opaque cover
    - with clear cover
  - They are suitable for applications that require light weight and durability.
  - The base is manufactured from VALOX crystalline thermoplastic polyester.
  - VALOX crystalline thermo-plastic polyester bases come with smooth side walls or with several Metric knock-outs.
  - Cover is injection moulded in either light grey or clear polycarbonate
  - The lid is fixed to the base by means of cover screws in polyamide.
  - VALOX crystalline thermo-plastic polyester boxes can withstand temperatures from -35°C up to 120°C
  - The box offers maximum protection to the user and the equipment by means of total insulation and a protection degree as per IEC 60529 and also complies with the impact resistance standard as per EN 50102.
- This protection covers the total volume of the enclosure according to EN 50298.
- Boxes are corrosion-resistant and do not require any maintenance.
  - Materials are halogen-free polycarbonate and low-halogen polystyrene.
  - Boxes are self-extinguishing according UL94-V2.
  - Boxes offer high resistance to chemical and aggressive influences.
  - The box is secured to the wall by screws directly through the base, direct through the four corner shafts of the base (under the cover screws) or by using external mounting brackets.
  - Boxes may be fitted with external hinges and/or padlocking as a protection against unauthorised access.
  - It is possible to mount DIN profiles as well as mounting plates.
  - Boxes bear the CSA approval.
  - Tailor-made boxes are available upon request: coloured, painted, overprinted, machine finished, EMC shielded.

## VJ Series



- Polyester NEMA sized boxes
- Boxes are designed in accordance with the "Joint Industrial Council" (JIC) - USA.
  - The range consists of seven different sizes ranging from 186 x 186 mm (6 x 6 inch) to 491 x 440 mm (18 x 16 inch) in three designs:
    - with screwed lid
    - with stainless steel hinges
    - with plastic hinges.
  - The base and the lid are made of selfextinguishing, glass-fibre-reinforced and halogenfree polyester, dyed in mass RAL 7036 (dark grey).
  - The glass-fibre content is a minimum of 20%.
  - The base also comes with four threaded inserts
    - M4 for securing a mounting plate.
  - Boxes can withstand an ambient temperature of - 50° to +150°C.
  - The box offers maximum protection to the user and equipment thanks to the total insulation  $\square$  and the IP67/IP66 protection degree as per IEC 60529. It also complies with impact resistance degree IK10 as per EN 50102.
- This protection covers the total volume, protected space, of the box according to EN 50298.
- Boxes are corrosion-resistant and do not require any maintenance.
  - The base is fitted with moulded-in mounting brackets suitable for external mounting.
  - Boxes have the UL certification mark, as per UL standard 508 types 3, 3R, 3S, 4, 4X, 6, 12 and 13.
  - They also comply with CSA certification mark as per C22.2 no. 94 types 3, 3R, 3S, 4, 4X, 6, 12 and 13.
  - Boxes also bear the following certification mark:  
AS Australian Standards 3132-1991.

## APO Series



### Modular polyester boxes

- The range consists of nine types with module 150/185 mm, with dimensions ranging from 185 x 150 mm to 600 x 600 mm in five different designs:
  - with screwed polyester lid
  - with screwed polycarbonate lid
  - with screwed flap lid
  - with hinged polyester lid
  - ventilated with hinged polyester lid and lock.
- The base is made from self-extinguishing, glass-fibre-reinforced and halogen-free polyester, dyed in mass RAL 7036 (dark grey). The glass-fibre content is a minimum of 20%. The base also comes with a minimum of four M4 threaded inserts for mounting metal, perforated metal and pertinax (insulated) mounting plates, and also mounting frames for modular equipment. The base also has space for four M6 threaded inserts.
- The lid is manufactured:
  - either from self-extinguishing, glass-fibre-reinforced and halogen-free polyester, dyed in mass RAL 7036 (dark grey)
  - or from transparent polycarbonate.
- The design as flap lid: frame in self-extinguishing, glass-fibre-reinforced and halogen-free polyester, dyed in mass RAL 7036 (dark grey), the window in transparent polycarbonate.
- The box can withstand temperatures from -50° to +150°C (peak). (-35° to +120°C for the box with polycarbonate lid).
- The useful mounting depth of the box can be expanded by means of depth extension frames without affecting the original protection degrees.
- The box offers maximum protection for user and equipment thanks to the total insulation and the protection degree as per IEC 60529 and also complies with the impact-resistance standard EN 50102.

This protection covers the total volume of the enclosure according to EN 50298.

- box with screwed polyester lid, IP67-IK10
- box with screwed polycarbonate lid, IP66-IK10
- box with screwed flap lid, IP67-IK10
- box with hinged polyester lid, IP55-IK10
- ventilated box with hinged polyester lid and lock, IP44-IK10.
- Boxes are suitable for external mounting.
- Boxes are corrosion-resistant and do not require any maintenance.
- There are various ways of securing the box to the wall:
  - using screws in the four corner holes
  - using fixing lugs secured through the four corner holes
  - using stainless steel fixing clamps, fitted directly to the rear of the base in the reinforcements provided.
 In all these cases, the IP values and total insulation are guaranteed.
- All boxes have the same depth and can be assembled by means of coupling frames.
- Boxes have the UL certification mark, in accordance with UL standard 508 and also comply with the CSA certification mark as per C22.2 no. 94.
  - boxes with polyester lid, types 3, 3R, 4, 4X, 6, 6P, 12 and 13
  - boxes with polycarbonate lid, types 3, 3R, 4, 4X, 12 and 13
  - boxes with flap lid, types 3, 3R, 4, 4X, 6, 12 and 13.
- Boxes also bear the following certification marks:
  - AS Australian Standards 3131-1991
  - Eexe II. NIEB 88B.102.698 U
  - Lloyd's Register of Shipping
  - KEMA KEUR
  - BASEEFA.

## ARIA Series



### Universal polyester cabinets

- The range comprises seven different sizes ranging from 300 x 200 mm to 1000 x 800 mm in two different designs:
  - cabinet with plain door
  - cabinet with glazed door.
- The cabinet is manufactured from self-extinguishing, glass-fibre-reinforced and halogen-free polyester, dyed in mass RAL 7035 (light grey). The glass fibre content is a minimum of 20%. The cabinet is fitted with four threaded pins and four nuts to secure perforated metal, Sendzimir zinc coated sheet steel or pertinax (insulated) mounting plates and mounting frames.
- The cabinet consists of two parts: the base and the door. The removable door is secured to the base by two hinges and the opening angle is a maximum of 180°. In a closed position, the hinges are invisible. Closure is controlled by a three-point locking mechanism operated by a single central operating grip or handle (single-point closure for cabinets 300 x 200 mm and 400 x 300 mm), two-point closing for cabinets 500 x 400 mm, 600 x 400 mm and 700 x 500 mm as an alternative. The door is fitted with a seamless seal and the total concept is such that stagnating water on the seal is avoided.
- A doorlifter (for bigger dimensions) ensures the door takes its center position during closing.
- The four angles in the base are double-walled. Ventilation against condensation can be done without the ventilation grids being visible when the cabinet is closed.
- The mounting frame or the mounting plate can be equipped and wired outside the cabinet. They are placed subsequently in the cabinet:
  - either on the securing points in the rear of the base provided for this purpose, without any further arrangement being necessary
  - or on special mounting supports which slide into the moulded-on C-profiles in the angles of the cabinet.
- The equipment is protected by a single-piece cover plate, manufactured from self-extinguishing, glass-fibre-reinforced and halogen-free polyester, dyed in mass RAL 7035. The cover plate is secured with snap-on fixing screws, which can be easily removed by the use of tools. This guarantees the protection degree of IP20 as for IEC 60529.
  - If required, the cover plate can be fitted with hinges.
  - Protection of the modular devices can also be obtained by using individual modular cover plates (h = 150 mm) in PVC material, also offering IP20. These individual modular cover plates can be plain or with cut-out for DIN-rail equipment.
- The cabinets can withstand temperatures from -50° to +150°C (peak).
- The cabinet offers maximum protection to user and equipment thanks to the total insulation and protection degree IP66 as per IEC 60529 and also complies with the impact-resistance standard EN 50102.
  - IP66-IK10 cabinets with plain door.
  - IP66-IK07 cabinets with glazed door.
- This protection covers the total volume of the enclosure according to EN 50298.
- The cabinets are suitable for outdoor use.
- The cabinets are corrosion-resistant and do not require any maintenance.
- The cabinets are secured to the wall by:
  - either four 304 stainless steel or polyamid mounting brackets, screwed along the back of the cabinet using stainless steel bolts which do not penetrate the back
  - or directly by means of screws in the doublewalled corners
  - or directly through the base by means of four screws, sealed by a non removable sealing cap.
- In these cases the IP value and the overall total insulation remain guaranteed.
- The cabinets have the UL approval in accordance with UL standard 508 types 3, 3R, 3S, 4, 4X, 12 and 13.
- They also comply with the CSA certification mark as per C22.2 no. 94 types 3, 3R, 3S, 4, 4X, 12 and 13.
- The cabinets also bear the certification mark: AS Australian Standards 3132-1991.

## PolySafe Series



### Multipurpose polyester cabinets

- The range consists out of fourteen types with module 250 mm, with dimensions ranging from 500x500 mm up to 1250x1000 mm, in one depth 320 mm and two different designs :
  - cabinet in-factory assembled with plain door
  - cabinet in-factory assembled with glazed door
 Four stainless steel wall mounting brackets are also supplied.
- The cabinet is manufactured from selfextinguishing, hot moulded, glass fibre reinforced and halogen-free polyester, dyed in mass RAL 7035 (light grey). The glass-fibre content is a minimum of 25%.
- The cabinet exists out of a back panel, two side panels, a top panel, a base panel and a flushmounted door.
- The door is secured to the main structure of the cabinet by means of hinges, each step of 250mm, and its angle of opening is a maximum of 100°.
  - The hinges are not visible when the door is in closed position.
- Closure is effected by a five-point locking mechanism (three-point for widths 500 mm) controlled by a single central operating handle.
- The operating handle is suitable for all types of profile half cylinder locks (standard depth 40 mm, alternative depth 45 mm).
- A doorlifter (for bigger dimensions) ensure the door takes its center position during closing.
- The standard depth of the cabinet is 320 mm, but can be increased to 640 mm by using a 320 mm extension kit.
- The cabinets can be coupled in height and in width by means of a coupling kit.
- The mounting plate (in pertinax, in Sendzimir zinc coated sheet steel or in perforated metal) can be set up and wired outside the cabinet. It is placed subsequently in the cabinet.
  - The mounting plate is secured directly to the securing points provided on the back panel of the cabinet or mounted on four depth adjustment brackets (steps of 12.5 mm).
- The modular mounting frame for DIN-rail equipment is completed with modular functions height 150 mm, plain or with cut-outs, or modular plain functions height 300 mm. They guarantee a protection degree of IP20 with open doors.
- The addition of a rainhood allows for natural ventilation (IP44/ IP54) in the cabinet.
- The cabinets are designed for wall mounting, floor standing and pole fixing.
- The cabinets are resistant to temperatures of -50° up to +150°C (peak).
- The cabinet offers maximum protection to user and equipment thanks to the total insulation and the high protection degree IP65 (IP55 for cabinets with glazed door) according to IEC 60529, EN 60529. It also complies with the impact-resistance degree IK 10 (IK 07 for cabinets with glazed door) according to EN 50102.
  - This protection covers the total volume, protected space, of the cabinet according to EN 50298.
- The cabinets are suitable for indoor as well as outdoor use.
- The cabinets are corrosion-resistant and do not require any maintenance.
- The cabinets are secured to the wall by means of stainless steel mounting brackets which are clinged and fixed on the back without using any screws. These wall mounting brackets can be mounted vertical or horizontal.
  - The cabinets with rain hood are secured to the wall by means of four special similar brackets.
- A cabinet can be placed on the ground by using a floor mounting frame which is anchored to the ground together with the cabinet. All cabinets width 750 and 1000 mm can be mounted on a DIN-base by means of a DIN adaptor frame.
  - In all these cases the IP degree as well as the total insulation are guaranteed.
- The cabinets have following approvals: UL and CSA
  - cabinets with single door: types 3, 3R, 3S, 4, 4X, 12, 12K and 13.
  - cabinets with double door: types 3, 3R, 3S, 4, 4X, 12, 12K and 13.
  - coupled cabinets: types 3, 3R, 3S, 12, 12K and 13.
- Standards: IEC 60529, EN 60529, EN 50102, EN 50298, IEC 60439-5

## Pedestals

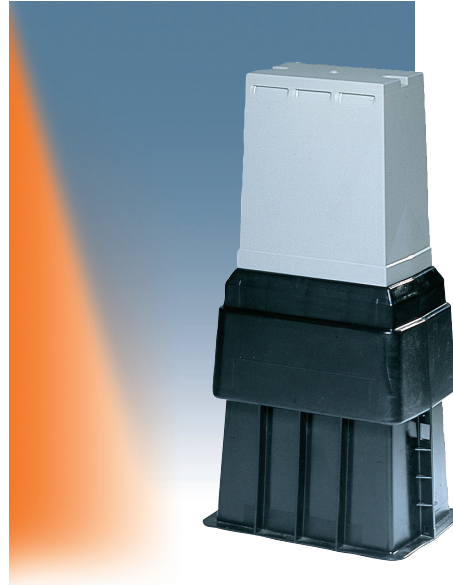


- Polyester floor standing enclosures offer reliable housing for switching, distributing and protective equipment used in underground low voltage and communication networks as well as various kind of outdoor industrial applications.
- The bases are partly buried into the ground, guaranteeing a stable support for the equipped enclosure, and allowing easy and safe cable entry into the enclosure.
- The pedestals feature high protection degrees to protect both equipment and people.
- The enclosures have very high mechanical impact strength for increased safety during many years.
- The design offers natural ventilation to prevent accumulation of condensation humidity inside the enclosure.
- The polyester has a low thermal conductivity, resulting in reduced temperature variations within the enclosure.

The pedestals comply with following standards:

- IEC 60529: IP protection degree against ingress of foreign bodies
- EN 50102: IK protection degree against mechanical impact
- IEC 60439-5: Cable distribution cabinets in power networks

## EH1



### Small pedestal

- Small pedestal: 752 x 385 x 270 mm
- Light weight and easy to install by one person: 4.5 kg
- Sturdy base in HDPE, colour RAL 9005, and rainhood in RAL 7036.
- The rainhood is secured onto the base with two vandal proof zamac screws.
- The base resists ground temperatures as low as - 50°C
- Arrow indicators injected on the base front indicate burial depth and correct positioning.
- A mounting plate is integrated with the base, provided with 3 slots for mounting of devices.
- The ventilated, thermoplastic hood guarantees a protection degree IP23.
- Alternatively, the base with polyester hood guarantees IP43 and increased thermal stability in tropical temperatures.
- Protection degree IK10 against external mechanical impacts according to EN 50102
- Particularly suited for cable television networks.

## **EH2**



### Column cabinets

- Column cabinets with integrated base:
  - 1097 x 433 x 240 mm
  - 1347 x 433 x 240 mm
  - 1622 x 433 x 240 mm
  - 1896 x 433 x 240 mm
  - The base and the rear panel of the column are molded as one part. The base allows for stable installation of the column.
  - Enclosure made of hot moulded, glass fibre reinforced polyester in RAL 7035 light grey.
- Corrosion resistant, UV stabilized for outdoor applications, suitable for use in environments from - 35°C to + 125°C. Temporary exceeding temperatures will not be harmful.
- A labyrinth design guarantees natural ventilation whilst maintaining a good protection degree. The rainhood shape prevents water stagnation on the roof. This guarantees a protection degree IP44 according to IEC 60529.
  - The cabinets offer maximum protection to user and equipment: protection degree IK10 against external impacts according to EN 50102
  - Fully integrated locking clamp, suitable for operation by a half profile cylindric lock. The cylindric lock can be fitted in a recessed lock box, protected by a vandal proof plastic cap.
  - Once unlocked, the enclosure can be accessed without tools by removing the frontal lift-off segments completely (not hinged).
  - For easy access the roof can be opened, offering an opening angle of 90°.
  - Fixing holes for threaded inserts M6 are provided in the rear panel allowing direct mounting of busbars, a frame, a mounting plate or components.
  - Particularly suitable for outdoor installation of fused switchgear, 4-pole busbars, etc.

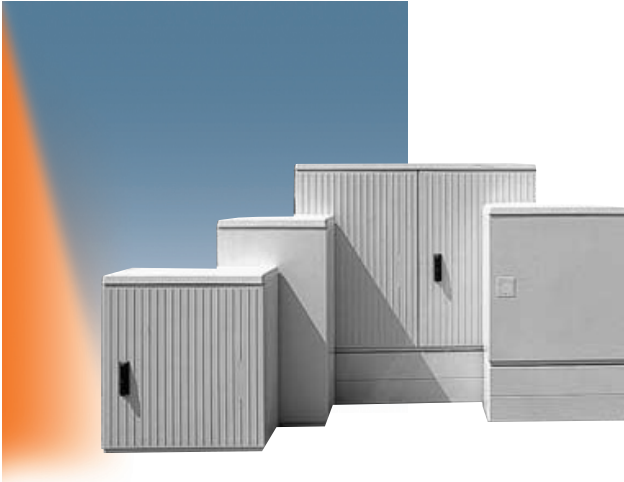
## **EH3/DC**



### Pedestals with two separate compartments

- Cabinets for DIN-base mounting:
  - 875 x 785 x 320 mm • DIN size 1
  - 875 x 1115 x 320 mm • DIN size 2
  - Door and rear with flat surface.
  - Internal separation in two compartments. The compartments are individually accessible and feature independent doors and locking systems.
  - Supplied with open bottom for cable entry. To be mounted on a basement according to DIN 43629 standard dimensions between the fixation points.
  - Both side panels are bolted to the roof and to the rear. The roof is bolted to the rear and the side panels. Horizontal bottom profiles are bolted onto the side panels, guaranteeing a structure with high resistance to torsional and bending forces, according to IEC 60439-5.
  - Enclosure made of hot moulded, glass fibre reinforced polyester in RAL 7035 light grey. Corrosion resistant, UV stabilized for outdoor applications, suitable for use in environments from - 35°C to + 125°C. Temporary exceeding temperatures will not be harmful.
  - A labyrinth design guarantees natural ventilation whilst maintaining a good protection degree. The rainhood shape prevents water stagnation on the roof. This guarantees a protection degree IP44 according to IEC 60529.
  - The cabinets offer maximum protection to user and equipment: protection degree IK10 against external impacts according to EN 50102
  - Three point locking mechanism on each door, operated by a recessed, integrated handle.
- The handles are designed to receive half profile cylindric locks.
- The open doors can be manually unhinged to allow free access for maintenance. The hinges are made of glassfibre reinforced PA, guaranteeing excellent corrosion resistance.
  - Threaded inserts for bolts M10 are molded in the rear panel, allowing for direct mounting of busbars, a frame or a mounting plate for components.
  - Particularly designed for outdoor installation of power supply metering units in one compartment, and end user devices in the other compartment.

## ***EH3/F & EH3/AP***



### DIN-size pedestals

- Cabinets for DIN-base mounting:
  - 875 x 590 x 320 mm - 1125 x 590 x 320 mm • DIN-size 0
  - 875 x 785 x 320 mm - 1125 x 785 x 320 mm • DIN-size 1
  - 875 x 1115 x 320 mm - 1125 x 1115 x 320 mm • DIN-size 2
  - 875 x 1445 x 320 mm - 1125 x 1445 x 320 mm • DIN-size 3
- Door and rear available with flat surface (Type EH3/F) or with profiled surface (Type EH3/AP anti poster).
- Supplied with open bottom for cable entry. To be mounted on a basement according to DIN 43629 standard dimensions between the fixation points.
- Both side panels are bolted to the roof and to the rear. The roof is bolted to the rear and the side panels. Horizontal bottom profiles are bolted onto the side panels, guaranteeing a structure with high resistance to torsional and bending forces, according to IEC 60439-5.
- The larger enclosures have two doors and two rear panels. The two rear panels are cross-linked with a middle beam. The left door has a doorpost, acting as a blocking profile to the right door.
- Enclosure made of hot moulded, glass fibre reinforced polyester in RAL 7035 light grey. Corrosion resistant, UV stabilized for outdoor applications, suitable for use in environments from - 35°C to + 125°C. Temporary exceeding temperatures will not be harmful.
- A labyrinth design guarantees natural ventilation whilst maintaining a good protection degree. The rainhood shape prevents water stagnation on the roof. This guarantees a protection degree IP44 according to IEC 60529.
- The cabinets offer maximum protection to user and equipment: protection degree IK10 against external impacts according to EN 50102.
- Three point locking mechanism, operated by a recessed, integrated handle for EH3/F or a solid, industrial handle for EH3/AP. Both type of handles are designed to receive a half profile cylindric lock.
- The open door can be manually unhinged to allow free access for maintenance. The hinges are made of glassfibre reinforced PA, guaranteeing excellent corrosion resistance.
- Threaded inserts or bolts M10 are molded in the rear panel, allowing for direct mounting of busbars, a frame or a mounting plate for components.
- Cabinets can be coupled together side to side or double deep.
- For EH3/AP pedestals the profiled door and rear panels make poster sticking difficult and cause poster to drop off.
- Particularly designed for outdoor installation of fused switchgear, 4-pole busbars, telecom jumper frames, etc.

## ***EH6***



### Low cost DIN-size pedestals

- Cabinets for base mounting:
  - 830 x 470 x 320 mm • DIN size 00
  - 830 x 590 x 320 mm • DIN size 0
  - 880 x 785 x 320 mm • DIN size 1
- Supplied with open bottom for cable entry. To be mounted on a basement according to DIN 43629 standard dimensions between the fixation points.
- Both side panels are bolted to the roof. The side panels are bolted to the rear. Horizontal bottom profiles cross-link the side panels.
- Enclosure made of hot moulded, glass fibre reinforced polyester in RAL 7035 light grey. Corrosion resistant, UV stabilized for outdoor applications, suitable for use in environments from - 35°C to + 125°C. Temporary exceeding temperatures will not be harmful.
- A labyrinth design guarantees natural ventilation whilst maintaining a good protection degree. The rainhood shape prevents water stagnation on the roof. This guarantees a protection degree IP44 according to IEC 60529.
- The cabinets offer maximum protection to user and equipment: protection degree IK10 against external impacts according to EN 50102
- Three point locking mechanism, operated by a recessed, integrated handle. The handle is designed to receive a half profile cylindric lock.
- The open door can be manually unhinged to allow free access for maintenance. The hinges are made of nickled brass, guaranteeing excellent corrosion resistance. The door opening angle exceeds 180°
- Fixation points for self tapping Hilo screws 7,2 x 26 mm are moulded in the rear panel, allowing for direct mounting of busbars, a frame or a mounting plate for components.
- Cabinets can be coupled together side to side or double deep.
- Particularly designed as low cost solution for outdoor installation of fused switchgear, 4-pole busbars, etc.