

ISIA series of Equipped GRP Pillars

To complement our standard range of stainless steel pillars, we also manufacture equipped pillars housed in enclosures made from non-conductive glass reinforced plastic (GRP). They are available in a very wide range of sizes and colours, both single and double fronted.

ISIA series GRP enclosures are of heavy duty construction and manufactured from marine grade plywood with timber strengtheners, all encapsulated in GRP. Doors incorporate GRP encapsulated structural steel strengtheners along the edges where hinges, door stays and locking mechanisms attach. Hinges are stainless steel with tamper proof screws. Stays are provided to hold doors open at 90° or 180°. Doors are fitted with compression seals and an overlapping centre seal is provided for double doors. The roof is designed to support a snow loading of 2.5kn/m² (254kg per m²). ISIA series GRP enclosures have a design life of 30 years, even when installed in exposed, hostile environments.

As well as eliminating concerns about corrosion, all insulated GRP enclosures have the additional benefit of removing the risk of dangerous touch voltages occurring should there be a catastrophic failure of an overhead line or an insulation failure on the upstream side of a main RCD on a TT supply. For these reasons ISIA series equipped pillars are widely used by the UK Rail, Electricity Supply and Construction sectors.

Each compartment of an ISIA pillar incorporates a plywood backboard on which the switchgear, etc., is usually mounted. If the weight of the switchgear exceeds the capacity of the backboard or the safe working load limit of the ISIA lifting arrangement, the switchgear will be supplied on a heavy duty free-standing frame, which can be fitted into the pillar on site (usually the frame will be installed in position and the ISIA cabinet placed over it on site). If large transformers or other heavy items are to be housed within an ISIA, they would also be supplied as separate items.

Equipped ISIA pillars are made to order but they typically incorporate a thermostatically controlled heater and light in each compartment. Where applicable, double insulated tails can be provided linking the DNO compartment to the consumer's compartment. Earth bars can also be fitted in each compartment.

Please see page 2 of this data sheet for images of other ISIA equipped pillars. Also refer to data sheet DDS110 for ISIA assemblies intended for Temporary Builders Supplies, which are complete with CT chambers and high current variable RCDs.



Part A7292851 Double-fronted ISIA series pillar with separate compartments for the DNO and consumer.



Dedicated compartment for DNO's service head and metering equipment



Dedicated compartment for consumer's main 400A switch disconnector, DC Immune RCD and space for ways to be added in the future.

EXAMPLES OF EQUIPPED PILLARS



A7292597 Equipped ISIA Double-fronted Pillar for Network Rail utilising a PADS approved GRP Kiosk to PA05/03776



A7292794 Equipped ISIA Pillar, 3m x 3m x 2.4m fitted with an 800A SSE specification CT Chamber with main 4P switch



A7292815 Equipped ISIA Pillar with a frame mounted 2000A CT Chamber in one side and a separate compartment for the meter in the other side



A7292539 Combined CT Chamber & MCCB, SSE, rated at 800A

A7084464 Combined CT Chamber & RCD, SSE, rated at 2500A, for a TT supply

A7292546 Combined CT Chamber & MCCB, SSE, rated at 800A