Specification:	Domestic Electricity Recessed Box & Door Ireland_220910, Manufactured in Killarney, Ireland to ESB Specification

Tricel Meter Boxes

ESB approved Meter Box, Gas Networks Ireland approved Meter Box, Eircom approved Telecoms Box.

Tricel (Killarney), Ballyspillane Industrial Estate, Killarney, Co. Kerry, Ireland.
Tel: +353 (0)64 663 2421 | Fax: +353 (0) 64 663 2777 | Email: sales@ie.tricel.eu | www.ie.tricel.eu | Registered in Ireland, No. 75014 | VAT No. IE 4547159B

Definitions
GRP Glass Reinforced Plastic
ESB ESB Networks

Scope
In Ireland the ESB have a standard specification for an electricity Recessed Meter Box & Door (2 hinge). The meter box and door are intended to accommodate the supply industry's service termination equipment only.

General requirements

Materials

All materials used by Tricel in the manufacture of our Electricity Meter Boxes and Doors in Killarney, Ireland are to ESB Networks Specifications and is fully compliant with BS 8567:2012. The enclosures are constructed of a chemically inert glass reinforced thermoset plastic, which shall be resistant to normal environmental conditions including long term Ultraviolet radiation. All meter boxes and doors are to be suitable for Irish outdoor weather conditions for a minimum period of 25+ years.

Constituents and Composition

The Tricel mete box door is manufactured in Killarney and conforms with the requirements of BS 3532:1990 and also ESB Specification 18080. The meter box have a density of 1.6 - 2.1 g/ml and include a minimum of 16% by weight of glass fibre to IS EN14020-1 / BS 3691 with a fibre length of 6mm, which are reinforced with unsaturated polyester resin of Type C to BS 3532.

- Complies with ESB specification number: 18080
- Complies with ESB specification number: 16442

Properties

- All materials used in construction of meter boxes are suitable for use at temperatures from -25ºC to +40ºC.
- All materials used in construction of the meter boxes conform to the requirements of Class II materials under BS 476-7 or equivalent.
- The constituents are as follows:
    - Glass: (E) Glass conforming to the requirements of IS EN 14020-1 6mm fibre or equivalent.
    - Colour: White.
- The enclosures are fire retarded and filled to meet the requirements of IS EN14598-1 limiting oxygen index 22%.
- Flammability: Tricel meter boxes comply with ESB Flammability ratings, complying with Flame Test per ESI Standard 12-3 1986 of less than 38mm scorch back on samples. The Meter Boxes comply with IS EN14598-1 limiting oxygen index 22%.
- Mechanical: Tricel meter Boxes have a Flexural Modulus of not less than 7.5 GPA, tested to EN ISO 178 (BS 2782)
- Mechanical: Tricel Meter Boxes have a Flexural Strength of not less than 60 MPA, tested to EN 178 (BS 2782).
- Mechanical: Tricel Meter Boxes have an Impact Strength of not less than 10kJ/m^2, tested to EN 179.
- The enclosures have a wall thickness of not less than 3.0mm and a door thickness of not less than 2.5mm.
- All surfaces are smooth and free from imperfections such as air voids. Should air voids show when held to light, they will be classified as a reject.
- Tricel Meter Boxes are manufactured in Killarney, Ireland

Hinges and Rivets

- All rivets are of non-corrosive materials and hinges to be in accordance with ESB Specifications. All hinges are fitted with suitable non-corrosive pins.
- The Door has two hinge pins, one fixed and one sping-loadsd (in brass)

Snap Shut Lock

- The locking mechanism supplied is the Tricel Snap Shut Lock, spring loaded such that when the door is pushed closed the locking mechanism engages automatically and locks the door without the need for a key.
- The Lock is Snap Shut Glass Filled Nylon material to ESB technical Specifications 2004.

Water Tightness

- All meter boxes are of a watertight design in order to ensure ESB meters and associated fittings are protected from water damage in accordance with ESB Technical Specifications 2004 and ESI Standard 12-3 1992 and BS8567:2012

Lifetime of the Product

All Tricel Meter Boxes, doors, Door Frame kits and meter boards, have a lifetime of 40+ years

Compatability

All Tricel Meter boards are compatible with and interchangeable in accordance with ESB Specifications

*** No deviation from the requirements of ESB specification are made without the written consent of ESB Networks Ireland.

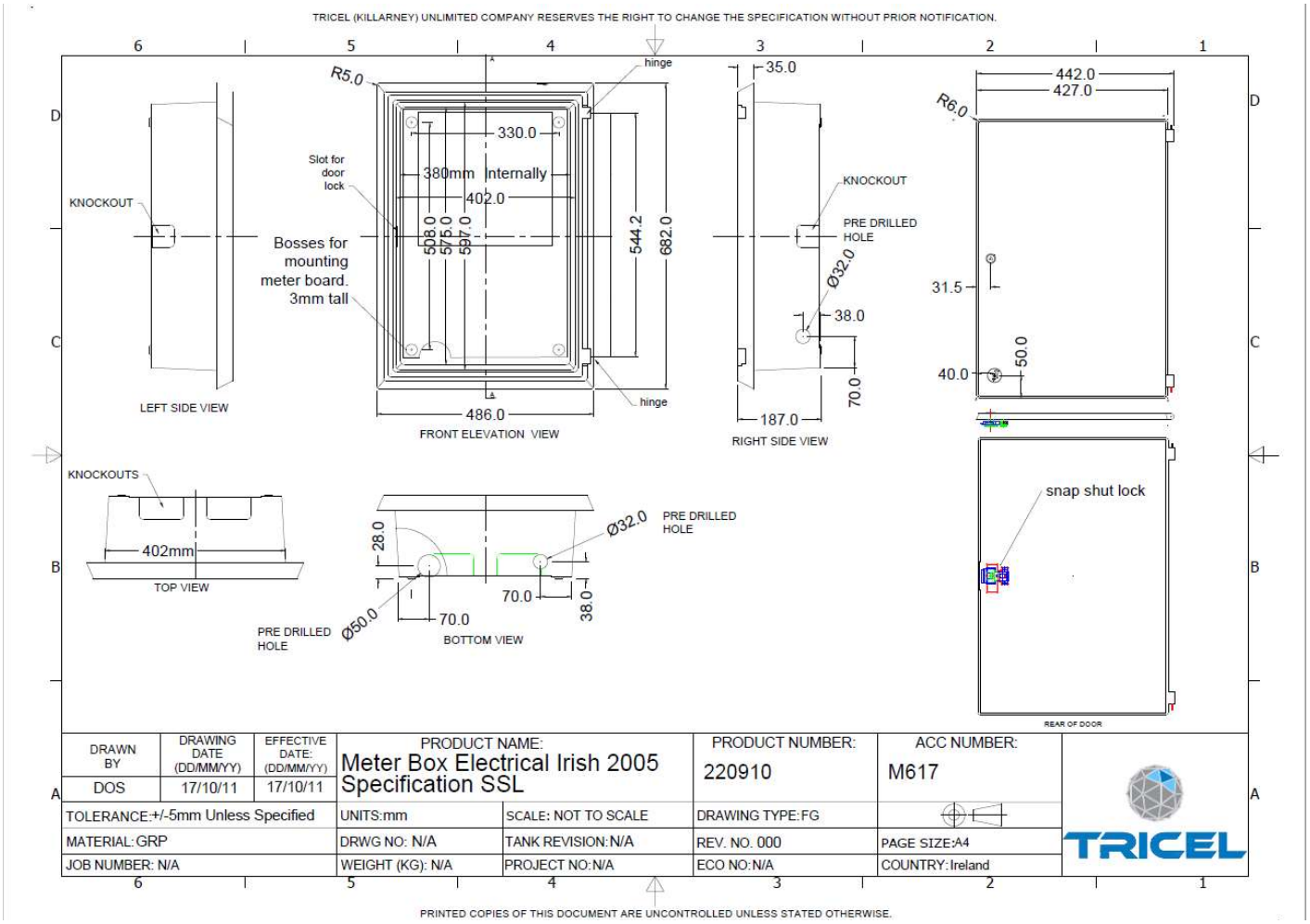
References

This specification makes reference to the documents listed below:

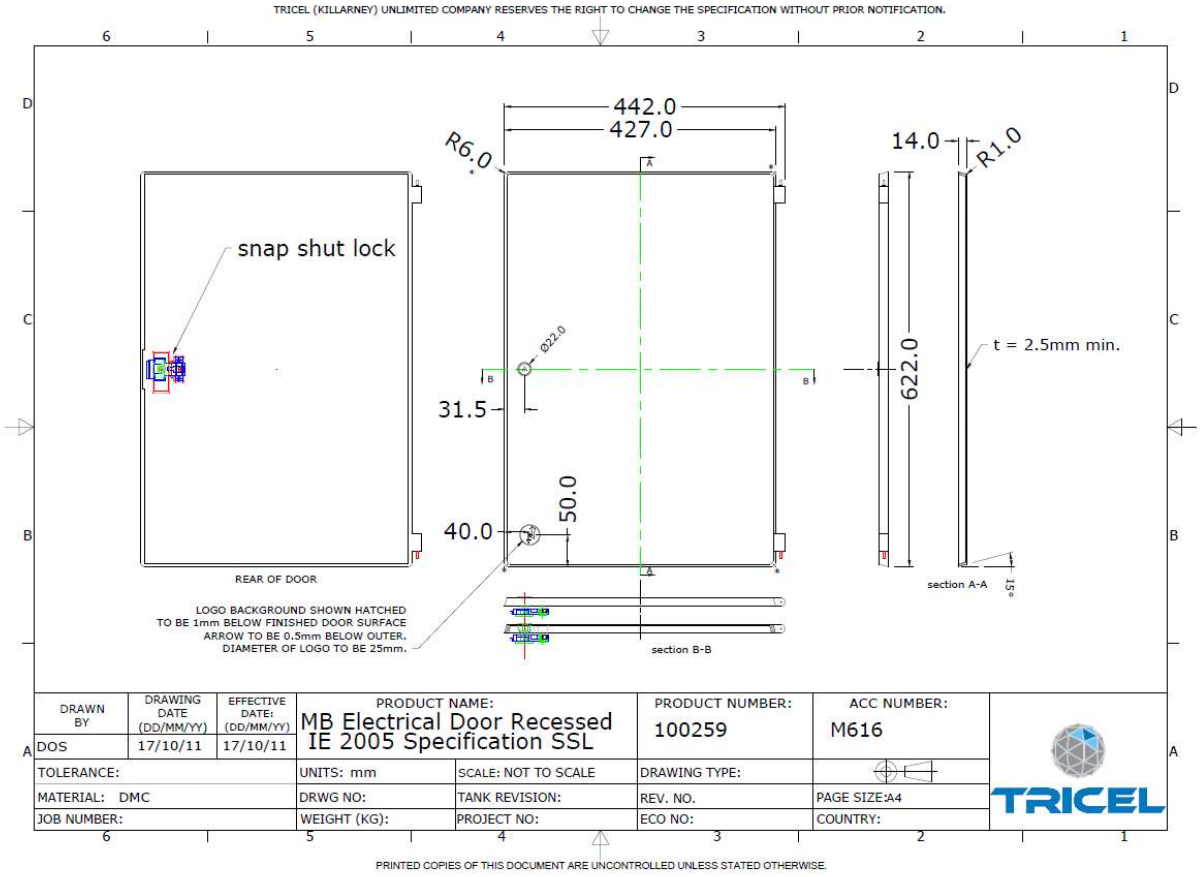
Standards	
ESB Technical Specification:	ESB Technical Specification: 2004 Electricity Meter Box
	BS 2782 BS 3532 BS 3691 / IS EN 14020 BS 8567: 2012 ESB Specification number 18080
DOC-030303-AEN	National Code of Practice for Customer interface 4th Edition 2008. DOC-030303-AEN
ESI Standard 12-3 1992	Technical Specification 12-3 ussue 3: 1992 Outdoor meter cupboards
BS 410	Specification for Test Sieves
BS 2782 IS EN 178 IS EN 179	Methods for Testing plastics
BS 476: 6&7 Class 1	Fire tests on Building Materials and Structures: Method for Classification of the Surface Spread of Flame of Products.
BS 3532	Method of Specifying unsaturated polyester resin systems
IS EN 14020-1 / BS 3691 IS EN 14598-1	Reinforcements. Specification for textile glass rovings Reinforced thermosetting moulding compounds: Specification for sheet moulding compounds.

Drawings:

ESB Electricity meter box to ESB specifications 2004



Drawings:
ESB Electricity meter box Door to ESB specifications 2004

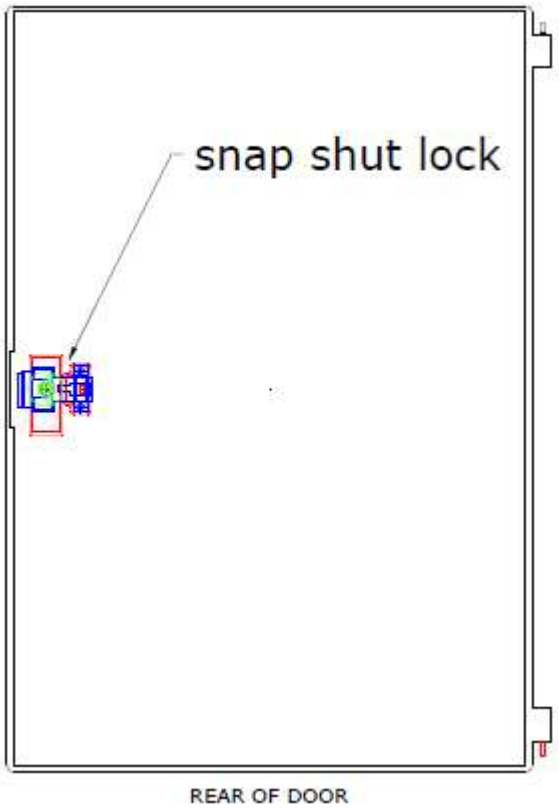


Drawings:
ESB Electricity meter box lock to ESB specifications 2004

Tricel were tasked by ESB Networks in 2004 to develop a "Slam Shut Lock" whereby the locking mechanism engages automatically and locks the door without the need for a key. This ESB approved Slam Shut Lock (spring loaded lock) has been in use in Ireland on every electricity meter box since 2005.

**

The Lock is Snap Shut Glass Filled Nylon material to ESB technical Specifications 2004.



Declaration of Compliance
Tricel (Killarney) unlimited company conform that all Declarations of Compliance are correct.