

Simtars Engineering, Testing and Certification Centre

Test Report No: NE11/0002

1.0 Description of Apparatus

The Weatherproof Rectangular Enclosure consists of a main housing and a bolt on lid. The tested enclosure is of 2 mm minimum thickness sheet metal construction with approximate dimensions of 650 mm long x 200 mm high x 90 mm wide with a 38 mm flange welded to the top. The lid is fastened to the enclosure flange via twenty six M8 hex head bolts and nuts. Sealing of the lid to the flange is achieved via a 3 mm thick neoprene EPDM gasket. Cable entry to the enclosure is via threaded sockets welded to the side wall of the main housing. The number and size of threaded entries in the enclosure can vary to suit customer requirements. The heater elements are secured and sealed into the enclosure via compression bush sets. The compression bush sets are sealed to the enclosure via two graphite or compressed fibre washers on either side of the enclosure wall. The number and size of the compression bush sets can vary to suit customer requirements. The enclosure has one internal and one external earthing point. The weatherproof enclosure has the option of being manufactured in either stand-off or non stand-off configurations and the enclosure tested is representative of multiple sizes which can be manufactured to suit customer requirements.

2.0 Test Specification

The equipment was assessed and tested to AS 60529-2004 for degree of protection IP66.

The following clauses of AS 60529-2004 were applied:

1, 2, 3, 4, 5, 6, 11, 12.1, 12.2, 12.3, 12.3.1, 13.1, 13.2, 13.3, 13.4, 13.6.1, 13.6.2, 14.1, 14.2, 14.2.6, 14.3.

3.0 Summary of Test Results

The equipment complies with the relevant requirements of the standard as listed in Section 2.0 of this report and achieved a degree of protection of IP66.

4.0 Conditions

All seals, gaskets and compression bush sets must be fitted and maintained in accordance with the manufacturer's specifications.

All cable entries, blanking elements and conduit entries are to be rated IP66 or higher.

5.0 Drawings

The drawings listed in Schedule 1 were assessed in the course of the preparation of this report and detail the degree of protection characteristics of the equipment in accordance with the standard listed in Section 2.0.

SCHEDULE 1

Drawing No	Drawing Title	Rev	Date
SUBREC01IP SHEET 1 OF 2	WEATHERPROOF RECTANGULAR ENCLOSURE BOLT ON LID MANUFACTURING DRAWING	01	07.02.11
SUBREC01IP SHEET 2 OF 2	WEATHERPROOF RECTANGULAR ENCLOSURE BOLT ON LID MANUFACTURING DRAWING	01	07.02.11

Checked: _____


G Ross

Approved Signatory: _____


D Soady

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