

Category 2 Standard

S2508
(Formerly E7202)

Environmental requirements for signalling equipment

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1 Purpose

- 1.1 This standard stipulates the minimum environmental performance requirements for materials and equipment used for signalling, communications and associated control systems, at all locations within the Underground system.

2 Scope

- 2.1 This standard states the general environmental requirements for signalling equipment, but is not exhaustive. Where necessary, the Particular Specifications for equipment and systems shall state any additional requirements, such as resistance to contaminants (including oil, weedkiller and acids), ultraviolet stability and mould growth.

Note: This standard does not define fire safety requirements.

- 2.2 The extent and nature of functional or performance testing, where not stipulated within this Standard or the definitive specification, shall be formally agreed between the Head of Signalling Engineering and the Supplier.
- 2.3 This document replaces E7202 A2 and TLL-ENG-2264-A1, which are withdrawn.

3 Requirements

3.1 Performance requirements

- 3.1.1 The performance of the equipment or system shall conform fully to all the requirements of this standard and the project specification.
- 3.1.2 The equipment or system shall not generate interference with frequencies and amplitudes which are liable to affect its own operation, or that of other equipment.
- 3.1.3 The equipment or system shall operate in full conformance to its specification in the full ranges defined in this standard. The equipment shall not be damaged or prematurely aged by this exposure.

3.2 Operational and storage temperatures

- 3.2.1 The equipment shall operate correctly as described in 3.1, when housed in its enclosure, while within the ambient temperature limits indicated below (in °C):

	Location	Min.	Max.
a)	cut and cover	-20	+55
b)	surface & tube tunnel within 300 metres of the tunnel mouth	-20	+55