

PD CLC/TR 50484:2009



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Recommendations for shielded enclosures

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The UK participation in its preparation was entrusted by Technical Committee GEL/210, EMC - Policy committee, to Subcommittee GEL/210/12, EMC basic, generic and low frequency phenomena Standardization.

A list of organizations represented on this committee can be obtained on request to its secretary.

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ISBN 978 0 580 64295 1

ICS 17.220.01; 31.240

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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 July 2010.

Amendments issued since publication

Amd. No.	Date	Text affected
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TECHNICAL REPORT
RAPPORT TECHNIQUE
TECHNISCHER BERICHT

CLC/TR 50484

April 2009

ICS 17.220.01; 31.240

Supersedes R210-005:1999

English version

Recommendations for shielded enclosures

This Technical Report was approved by CENELEC on 2009-03-20.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: avenue Marnix 17, B - 1000 Brussels

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Foreword

This Technical Report was prepared by the Technical Committee CENELEC TC 210, Electromagnetic compatibility (EMC).

The text of the draft was submitted to vote in accordance with the Internal Regulations, Part 2, Subclause 11.4.3.2 (simple majority) and was approved by CENELEC as CLC/TR 50484 on 2009-03-20.

This document supersedes R210-005:1999.

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1 Scope

This Technical Report applies to shielded enclosures used for EMC testing which are to be validated according to the EN 50147 series of standards and the corresponding international standards. The object of this report is to give guidance to the selection of the shielding materials and components. The frequency range for this document is 10 kHz to 40 GHz.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50147-1:1996, *Anechoic chambers – Part 1: Shield attenuation measurement*

EN 50147-2, *Anechoic chambers – Part 2: Alternative test site suitability with respect to site attenuation*

EN 55011, *Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement* (CISPR 11, mod.)

EN 55022, *Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement* (CISPR 22, mod.)

IEC 60050(161), *International Electrotechnical Vocabulary (IEV) – Chapter 161: Electromagnetic compatibility*

3 Definitions

Void.

4 General

Depending on the particular circumstances, it may be necessary to shield a room from the electromagnetic environment. Conversely it may be necessary to protect the environment from electromagnetic energy generated within the room. Figure 1 illustrates this.

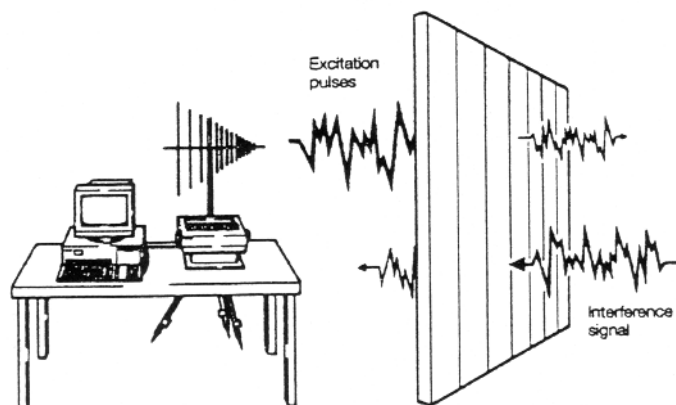


Figure 1 – Illustrated set-up for shielding