



BSI Standards Publication

Liquid crystal display devices

Part 5-3: Environmental, endurance and mechanical test methods — Glass strength and reliability

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National foreword

This British Standard is the UK implementation of EN 61747-5-3:2010. It is derived from IEC 61747-5-3:2009. It supersedes DD IEC/PAS 61747-5-3:2007 which is withdrawn.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **[C]** **[C]**.

The UK participation in its preparation was entrusted to Technical Committee EPL/47, Semiconductors.

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

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Amendments/corrigenda issued since publication

Date	Text affected
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**Liquid crystal display devices -
Part 5-3: Environmental, endurance and mechanical test methods -
Glass strength and reliability
(IEC 61747-5-3:2009, modified)**

Dispositifs d'affichage à cristaux liquides -
Part 5-3: Méthodes d'essais
d'environnement, d'endurance
et mécaniques -
Résistance et fiabilité du verre
(CEI 61747-5-3:2009, modifiée)

Flüssigkristall-Anzeige-Bauelemente -
Teil 5-3: Verfahren zur Messung
von Glasfestigkeit und Zuverlässigkeit
(IEC 61747-5-3:2009, modifiziert)

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CENELEC

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

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Foreword

The text of the International Standard IEC 61747-5-3:2009, prepared by IEC TC 110, Flat panel display devices, together with the common modifications prepared by the CENELEC Reporting Secretariat 110 (NL), was submitted to the CENELEC formal vote and was approved by CENELEC as EN 61747-5-3 on 2010-05-01.

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The following dates were fixed:

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|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2011-05-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2013-05-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61747-5-3:2009 was approved by CENELEC as a European Standard with agreed common modifications.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61747-1	-	Liquid crystal and solid-state display devices - Part 1: Generic specification	EN 61747-1	-
IEC 61747-5	1998	Liquid crystal and solid-state display devices - Part 5: Environmental, endurance and mechanical test methods	EN 61747-5	1998

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INTRODUCTION

IEC 61747-5-3 facilitates the characterization of mechanical strength properties of LCD modules and their component glass. Analysis and testing are performed on LCD Module component glass as well as finished LCD modules. Statistics of mechanical strength of the modules are determined allowing a prediction of module failure probability at a given stress level or for a given probability of failure, the maximum recommended safe loading stress for the module.