



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 583-3:1997

ICS 19.100

**NON DESTRUCTIVE TESTING - ULTRASONIC
EXAMINATION - PART 3: TRANSMISSION
TECHNIQUE**

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
<http://www.nsai.ie>

Sales
<http://www.standards.ie>

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland and comes into
effect on:*

January 23, 1998

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 1997

Price Code F

Údarás um Chaighdeán Náisiúnta na hÉireann

DECLARATION

OF

SPECIFICATION

ENTITLED

NON DESTRUCTIVE TESTING - ULTRASONIC EXAMINATION - PART 3:
TRANSMISSION TECHNIQUE

AS

THE IRISH STANDARD SPECIFICATION FOR

NON DESTRUCTIVE TESTING - ULTRASONIC EXAMINATION - PART 3:
TRANSMISSION TECHNIQUE

NSAI in exercise of the power conferred by section 16 (3) of the National Standards Authority of Ireland Act, 1966 (No. 28 of 1996) and with the consent of the Minister for Enterprise, Trade and Employment, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Non destructive testing - Ultrasonic examination - Part 3: Transmission technique) Declaration, 1997.

2. (1) The Specification set forth in the schedule to this declaration is hereby declared to be the standard specification for Non destructive testing - Ultrasonic examination - Part 3: Transmission technique. The Schedule comprises the text of EN 583-3:1997.

(2) The said standard specification may be cited as Irish Standard EN 583-3:1997 or as I.S. EN 583-3:1997.

EUROPEAN STANDARD

EN 583-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1997

ICS 19.100

Descriptors: non-destructive tests, ultrasonic frequencies, ultrasonic tests, transmission, generalities, inspection methods, measurements, comparison analysis

English version

**Non destructive testing - Ultrasonic examination -
Part 3: Transmission technique**

Essais non destructifs - Contrôle ultrasonore
- Partie 3: Technique par transmission

Zerstörungsfreie Prüfung - Ultraschallprüfung
- Teil 3: Durchschallungstechnik

This European Standard was approved by CEN on 1997-04-10. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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

Central Secretariat: rue de Stassart,36 B-1050 Brussels

Page 2
EN 583-3:1997

CONTENTS

	page
Foreword	3
1 Scope	4
2 Normative references	4
3 Definitions	4
4 Principles of the examination	5
4.1 Basic techniques and set-up	5
4.2 Capability of detection of imperfections	7
4.3 Requirements for geometry and access	7
4.4 Effects of variation in coupling, angulation and alignment of probe	7
5 Examination technique	7
5.1 General	7
5.2 Sensitivity setting	8
5.3 Scanning	8
5.4 Evaluation of imperfections	8
5.5 Determination of attenuation coefficient	9

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-