

Metalliske materialer
Rør (full skala)
Bøyeprøving
(ISO 8491:1998)

Metallic materials
Tube (in full section)
Bend test
(ISO 8491:1998)

Nasjonalt forord

Den engelskspråklige versjonen av europeisk standard EN ISO 8491:2004 er fastsatt som Norsk Standard NS-EN ISO 8491:2004.

National foreword

The English language version of European Standard EN ISO 8491:2004 has been adopted as Norwegian Standard NS-EN ISO 8491:2004.

English version

**Metallic materials - Tube (in full section) - Bend test (ISO
8491:1998)**

Matériaux métalliques - Tubes - Essai de cintrage sur
tronçon (ISO 8491:1998)

Metallische Werkstoffe - Rohr (Rohrabschnitt) -
Biegeversuch (ISO 8491:1998)

This European Standard was approved by CEN on 1 July 2004.

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.

This European Standard exists 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

The text of ISO 8491:1998 has been prepared by Technical Committee ISO/TC 164 "Mechanical testing of metals" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 8491:2004 by Technical Committee EC/ISS/TC 29 "Steel tubes and fittings for steel tubes", the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

This document supersedes EN 10232:1993.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 8491:1998 has been approved by CEN as EN ISO 8491:2004 without any modifications.

Metallic materials — Tube (in full section) — Bend test

1 Scope

This International Standard specifies a method for determining the ability of full-section metallic tubes of circular cross-section to undergo plastic deformation in bending. It is intended for tubes with an outside diameter no greater than 65 mm, although the range of the outside diameter for which this International Standard is applicable may be more exactly specified in the relevant product standard.

NOTE — Bend tests of the test pieces taken from tubes in the form of transverse strips should be made in accordance with ISO 7438 so as to increase the original curvature of the test piece.

2 Symbols, designations and units

Symbols, designations and units for the bend test of tubes in full section are given in table 1 and are shown in figure 1.

Table 1

Symbol	Designation	Unit
a^a	Wall thickness of the tube	mm
D	Outside diameter of the tube	mm
L	Length of the test piece before the test	mm
r	Inside radius at the bottom of the groove	mm
α	Angle of the bend	degree

^a The symbol T is also used in steel tube standards.

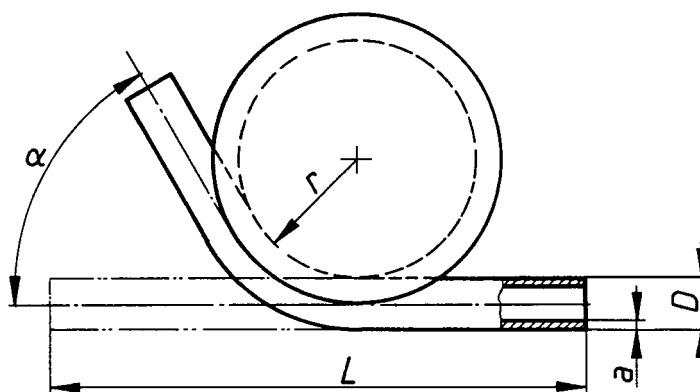


Figure 1