

Irrigation techniques — Solid set sprinkler systems —

Part 1: Selection, design, planning and installation

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British Standard

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee AGE/30, Irrigation and drainage equipment, which has the responsibility to:

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Summary of pages

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Techniques d'irrigation - Installation de couverte intégrale
par asperseurs - Partie 1 : Sélection, conception, planning
et installation

Bewässerungsverfahren - Ortsfest installierte
Beregnungssysteme - Teil 1: Auswahl, Auslegung, Planung
und Installation

This European Standard was approved by CEN on 2 September 2004.

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Foreword

This document (EN 13742-1:2004) has been prepared by Technical Committee CEN/TC 334 "Irrigation techniques", the secretariat of which is held by AENOR.

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of an identical text or by endorsement, at the latest by May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

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1 Scope

This document provides guidelines to choose material, to design, to prepare plans, and to install a solid set irrigation system to apply water to the irrigated area with the greatest possible efficiency.

This document covers sprinkler irrigation systems installed at the beginning of the irrigation season and removed at the end without moving any component, sprinkler or pipe, during the entire irrigation season.

It covers only solid set system components located on the field and upstream from a water supply point defined by a pressure and a flow.

This document does not cover permanent systems with buried pipes nor hand-movable portable systems.

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 12734, *Irrigation techniques - Quick coupling pipes for movable irrigation supply - Technical characteristics and testing*.

EN 13742-2, *Irrigation techniques - Solid set sprinkler systems - Part 2: Test methods*.

ISO 7749-1:1995, *Agricultural irrigation equipment - Rotating sprinklers - Part 1: Design and operational requirements*.

ISO 7749-2, *Irrigation equipment - Rotating sprinklers - Part 2: Uniformity of distribution and test methods*.

ISO 9644, *Agricultural irrigation equipment - Pressure losses in irrigation valves - Test method*.

ISO 11419, *Agricultural irrigation equipment - Float type air release valves*.