
**Fire protection — Automatic sprinkler
systems —**

**Part 1:
Requirements and test methods for
sprinklers**

*Protection contre l'incendie — Systèmes d'extinction automatiques du
type sprinkler —*

Partie 1: Prescriptions et méthodes d'essai des sprinklers

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 21, *Equipment for fire protection and fire fighting*, Subcommittee SC 5, *Fixed firefighting systems using water*.

This fourth edition cancels and replaces the third edition (ISO 6182-1:2014) which has been technically revised.

The main changes compared to the previous edition are as follows:

- Consolidation of the requirements for early suppression fast response (ESFR) sprinklers (ISO 6182-7:2020), domestic sprinklers (ISO 6182-10:2014) and extended coverage sprinklers (ISO 6182-13:2017) into a single document.
- Increased harmonization of test methods and requirements for the different types of sprinklers.
- Expanded scope to include extended coverage sprinklers for ordinary hazard occupancies and large flow constant, K , storage type sprinklers.
- New water distribution and fire test methods as well as requirements for the additional sprinkler technologies.
- New requirements for electrically operated style sprinklers.

A list of all parts in the ISO 6182 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This corrected version of ISO 6182-1:2021 incorporates the following corrections:

- Correction of error in column 1, second row of [Table 11](#) and column 1, final row of [Table 12](#).
- First column heading in [Table 22](#) and [Table 23](#) changed from "Flow constant, K " to "Nominal flow constant, K ".