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**Building environment design —  
Embedded radiant heating and cooling  
systems —**

**Part 5:  
Installation**

*Conception de l'environnement des bâtiments — Systèmes intégrés de  
chauffage et de refroidissement par rayonnement —*

*Partie 5: Installation*

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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](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 205, *Building environment design*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 228, *Heating systems and water based cooling systems in buildings*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 11855-5:2012), which has been technically revised.

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

- modified [Clause 2](#) (Normative references) and the Bibliography;
- modified [Clause 4](#) (Symbols);
- added a new subclause on vapour barrier and other layers (see [5.1.2.2](#));
- modified the subclause on insulating layers, perimeter insulating strip adding a new approach and adding details for thermal resistance of insulating layer (see [5.1.2.3](#));
- added new subclauses on insulating layers for systems in new constructions (see [5.1.2.3.2](#)) and in refurbished systems (see [5.1.2.3.3](#));
- modified the subclauses on joints (see [5.1.2.8.3](#)), leak test (see [5.1.3](#)), initial heating up of the emission system (see [5.1.4](#)) and general structural preconditions (see [5.2.2](#));
- removed the subclause on maximum heating fluid flow temperatures (previously 5.2.4);
- improved wording and made editorial changes.

A list of all parts in the ISO 11855 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](http://www.iso.org/members.html).