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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 29045-2025

Replacing GB/T 29045-2012

Prefabricated thin hot water radiant heating board

预制轻薄型热水辐射供暖板

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 29045-2012 "Prefabricated thin hot water radiant heating panels". Compared with GB/T 29045-2012, In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) The scope of application has been changed (see Chapter 1, Chapter 1 of the 2012 edition);
- b) The terms and definitions of supporting keels and related requirements have been deleted (see 3.3, 4.2.1 and 5.4 of the 2012 edition);
- c) Added terms and definitions for adhesives and reverse heat transfer (see 3.5 and 3.9);
- d) The terms and definitions of aluminum foil layer and heat source tube have been changed (see 3.4, 3.8, 3.5, 3.8 of the 2012 edition);

- e) The classification and marking methods have been changed (see Chapter 4, Chapter 4 of the 2012 edition);
- f) The material requirements for the heat-saturation layer have been changed (see 5.2, 5.6 of the 2012 edition);
- g) The outer diameter, pipe material and S value requirements of the heating pipe have been changed (see 5.4, 5.5, 5.4, 5.5 of the 2012 edition);
- h) Added environmental protection performance requirements for thermal insulation substrates (see 5.8);
- i) Added material requirements for branch manifolds (see 5.9);
- j) Changed the heating panel thickness requirements (see 6.2.1, 6.1.5 of the 2012 edition);
- k) The requirements and test methods for the compressive strength of the insulation base plate and the floor bearing capacity of the heating plate have been changed (see 6.6, 6.7, 7.6, 7.7, Appendix B, 6.5, 6.6, 7.5, 7.6, Appendix D of the 2012 edition);
- l) Added requirements and test methods for combustion performance (see 6.8 and 7.8);
- m) The requirements and test methods for the hydraulic balance performance of branch manifolds have been changed (see 6.11.2, 7.11.2, 6.9.2, 2012 edition). 7.9.2);
- n) The test method for thermal properties has been changed (see 7.3, 7.2 and Appendix B of the 2012 edition);
- o) The test method for water flow resistance of heating panels has been changed (see Appendix C, Appendix C of the 2012 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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This document was first published in 2012 and this is the first revision.

1 Scope

This document specifies the classification and marking of prefabricated thin hot water radiant heating panels, general requirements, requirements, test methods, inspection rules, standards, Labeling, packaging, transportation and storage, etc.

This document is applicable to factory prefabrication, installation on the floor, wall or ceiling of the building, with a surface layer thickness not exceeding 35mm or a surface layer thickness not exceeding Prefabricated thin hot water radiant heating with no surface layer over 20mm, hot water supply temperature not higher than 60°C, working pressure not greater than 0.6MPa Production and inspection of boards.

2 Normative references

GB/T 2792

GB/T 6342

GB/T 8013.3

GB 8624

GB/T 8813

GB/T 10798

GB/T 10801.1

GB/T 18102

GB 18583

GB/T 18992.2

GB/T 19993

GB/T 28799.2

GB/T 28799.5

GB/T 29730

GB/T 41077

GB 50222

GB 55037

3 Terms and definitions

The following terms and definitions apply to this document.

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