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

GB 8624-2025

Replacing GB 8624-2012

**Classification for the burning behaviour of building materials
and products**

建筑材料及制品燃烧性能分级

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1 Scope

GB 8624-2025 is the Chinese national standard covering the fire classification of every building material in China - the A1, A2, B, C, D, E and F classes, the tests each is judged by, and the additional classifications for smoke production and flaming droplets. This is one of the most cited mandatory standards in the country: every facade, insulation, floor covering and interior finish specification refers to it, and the classes it defines are what a fire safety design is written in. It replaces GB 8624-2012 and takes effect on 1 January 2027. It was issued on 31 December 2025 and takes effect on 1 January 2027, replacing GB 8624-2012. The document is under the responsibility of the National Fire and Rescue Administration. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the classification and grades of the burning behavior of building materials and products, the criteria for determining burning behavior grades, the application of classification results, classification description, mark, and report. This document applies

to the classification and determination of the burning behavior of building materials and products, decorative materials and products, and non-metallic materials and products used in equipment and devices. The burning behavior classification of other materials and products shall use this document as a reference.

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.

GB/T 2406.2, Plastics - Determination of burning behaviour by oxygen index -- Part

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions The following terms and definitions apply to this document.

3.1.1 material SDR. Smoke density grade SMOGRA. Smoke growth rate index, m^2/s^2 s. Smoke production characteristic grade t. Smoke toxicity grade tf. Duration of combustion, s THR600 s. Total heat release within 600 s after ignition, MJ TSP600 s. Total smoke production within 600 s after ignition, $m^2 \Delta T$. Temperature rise, $^{\circ}C$ Deltam. Mass loss rate, %