# Fire Performance

English Reference Translation

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Prepared: 15 October 2026

# Test Report

Report No.: NFM2504-0089-01

| Field | Information |
|---|---|
| Sample | Prefabricated wall panel |
| Client | Hubei Kaijie New Environmental Protection Materials Co., Ltd. |
| Testing address | Park Road 2, Economic Development Zone, Yuyue Town, Jiayu County, Xianning City, Hubei Province, China |
| Test category | Commissioned testing |
| Publication / issue date | 2025-05-06 |
| Prepared / tested by | Fan Xiaoyuan |
| Reviewed by | Wei Jianguo |
| Approved by | Cai Ming |
| Issuing organization | NOA Testing Technology Co., Ltd. |
| Accreditation marks | CMA 230920341434; CNAS L11261 |

Complaints: +86 400 8215138, extension 4 / +86 19117291813; https://www.noagroup.com/contact/complaintsSuggestions. Source includes the report verification and WeChat QR codes.

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# Sample and Customer Information

The following customer and sample information was supplied and confirmed by the client.

| Field | Information |
|---|---|
| Sample | Prefabricated wall panel |
| Sample No. | NFM2504-0089-001 |
| Manufacturer / description / model / batch | / or blank as shown in the source |
| Quantity | 5 packages |
| Received | 2025-04-21 |
| Sample receipt condition | No abnormal appearance |
| Tests | See results page |
| Test period | 2025-05-04 to 2025-05-06 |

GB 8624-2012, Classification for burning behavior of building materials and products; GB/T 20284-2006, Single burning item test for building materials or products; GB/T 8626-2007, Test method of flammability for building materials.

The product's reaction to fire meets Class B1(C), with supplementary classification s2,d0. Under GB 8624-2012, its reaction to fire reaches Class B1.

Customer: Hubei Kaijie New Environmental Protection Materials Co., Ltd.. Address: Park Road 2, Economic Development Zone, Yuyue Town, Jiayu County, Xianning City, Hubei Province, China.

Symbol / indicates not applicable.

# Reaction-to-Fire Results

| Item | Requirement | Result | Assessment | Method |
|---|---|---|---|---|
| FIGRA0.2MJ (W/s) | <=250 | 80.6 | Conforms | GB/T 20284-2006 |
| FIGRA0.4MJ (W/s) | <=250 | 80.6 | Conforms | GB/T 20284-2006 |
| Lateral flame spread LFS | Below specimen edge | Below specimen edge | Conforms | GB/T 20284-2006 |
| THR600s (MJ) | <=15 | 8.9 | Conforms | GB/T 20284-2006 |
| SMOGRA (m2/s2) | <=180 | 65.1 | Conforms to s2 | GB/T 20284-2006 |
| TSP600s (m2) | <=200 | 158.6 | Conforms to s2 | GB/T 20284-2006 |
| Flaming droplets / particles within 600 s | None | None | Conforms to d0 | GB/T 20284-2006 |
| Ignitability: flame-tip height within 60 s; ignition 30 s (mm) | <=150 | <150 | Conforms | GB/T 8626-2007 |
| Flaming droplets igniting filter paper within 60 s | None | None | Conforms | GB/T 8626-2007 |

The results relate only to specimen performance under the specified test conditions and must not be used as the sole basis for assessing potential fire hazards in actual use.

For the single burning item test, the base was a calcium silicate board of density approximately 900 kg/m3 and thickness approximately 9 mm. The sample was mechanically fixed to the base with screws and had joints.

Ignitability specimens were installed under GB/T 8626-2007, 5.2.

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# Sample Photographs

Before testing; after testing. See the complete source attachment for photographs. End of report.

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# Complete Source Document

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# 检 测 报 告

样 品 名 称 ： 装配式墙板

客 户 名 称 ： 湖北开杰新型环保材料有限公司

检 测 地 址 ： 湖北省咸宁市嘉鱼县鱼岳镇经济开发区园区二路

检 测 类 别 ： 委托检测

发 布 日 期 ： 2025-05-06

挪亚检测技术有限公司 检验检测专用章

挪亚检测技术有限公司

编 制 人： 范小源 （范小源）

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# 检 测 报 告

**以下客户及样品信息由客户提供并确认：**

| | | | |
|---|---|---|---|
| **样品名称** | 装配式墙板 | **样品编号** | NFM2504-0089-001 |
| **生产单位** | / | **样品描述** | / |
| **型号规格** | / | **批号** | / |
| **样品数量** | 5 包 | **到样日期** | 2025-04-21 |
| **样品接收状态说明** | 外观无异常 | | |
| **检测项目** | 详见结果页 | | |
| **检测依据和综合判定原则** | GB 8624-2012《建筑材料及制品燃烧性能分级》<br>GB/T 20284-2006《建筑材料或制品的单体燃烧试验》<br>GB/T 8626-2007《建筑材料可燃性试验方法》 | | |
| **检测周期** | 2025-05-04 至 2025-05-06 | | |
| **检测结论** | 经检测，该制品燃烧性能符合 GB 8624 $B_1$（C）级的规定要求，附加分级符合 s2, d0 级的规定要求。<br>按GB 8624-2012 判定，该制品燃烧性能达到$B_1$（C-s2, d0）级。<br>检测机构（盖章） | | |
| **客户信息** | 名称 | / | |
| | 地址 | / | |
| **备注** | / | | |

符号说明："/"表示不适用。

## 检测结果：

| 序号 | 检测项目 | | 标准值 | 检测结果 | 检测方法 | 单项判定 |
|---|---|---|---|---|---|---|
| 1 | 单体燃烧试验 | 燃烧增长速率指数 $FIGRA_{0.2MJ}$，W/s | ≤250 | 80.6 | GB/T 20284-2006 | 符合 |
| | | 燃烧增长速率指数 $FIGRA_{0.4MJ}$，W/s | ≤250 | 80.6 | | 符合 |
| | | 火焰横向传播是否至边缘，LFS | <试样边缘 | <试样边缘 | | 符合 |
| | | 600s 内总热释放量 $THR_{600s}$，MJ | ≤15 | 8.9 | | 符合 |
| 2 | 产烟特性 | 烟气生成速率指数 SMOGRA，$m^2/s^2$ | ≤180 | 65.1 | GB/T 20284-2006 | 符合 s2 |
| | | 600s 内总产烟量 $TSP_{600s}$，$m^2$ | ≤200 | 158.6 | | 符合 s2 |
| 3 | 燃烧滴落物/微粒 | 600s 内是否有燃烧滴落物/微粒 | 无 | 无 | GB/T 20284-2006 | 符合 d0 |
| 4 | 可燃性 | 点火时间 30s，60s 内焰尖高度Fs，mm | ≤150mm | <150 | GB/T 8626-2007 | 符合 |
| | | 60s 内有无燃烧滴落物引燃滤纸现象 | 无 | 无 | | 符合 |

说明

1. 试验结果只与特定的试验条件下试样的性能有关；试验结果不能作为评估制品在实际使用条件下潜在火灾危险性的唯一依据。

2. 单体燃烧试验采用密度约 900kg/$m^3$，厚度约 9mm 的硅酸钙板作为基材。样品采用螺钉机械方式固定于基材上方式试验，试验样品有接缝。

3. 可燃性试验试样安装按照 GB/T 8626-2007 5.2 的要求进行。

## 样品照片：

| | | |
|---|---|---|
| 试验前 |  |  |
| 试验后 |  |  |

—报告结束—