

## DECLARATION OF PERFORMANCE

No. TAISHI-DoP-EN13162-060

1. **Unique identification code of the product-type**  
TAISHI Stone Wool Board, factory-made mineral wool (MW), nominal density 60 kg/m<sup>3</sup>, thickness 50–200 mm.  
Designation MW-EN 13162. Production batch on the product label and packaging.
2. **Intended use or uses**  
Factory-made mineral wool (MW) products for the thermal insulation of buildings, subject to regulations on reaction to fire.
3. **Manufacturer**  
**Taishi Energy Conservation (Qingdao) Co., Ltd.**  
East of Provincial Road 209, South of Jufu Road, Guhé Subdistrict Office, Laixi City, Qingdao, Shandong 266600, China
4. **Authorised representative**  
Not applicable
5. **System or systems of assessment and verification of constancy of performance (AVCP)**  
System 1 for reaction to fire.
- 6a. **Harmonised standard**  
EN 13162:2012+A1:2015
- 6b. **European Assessment Document**  
Not applicable
7. **Notified body or bodies**  
Intertek (Notified Body 2649) determined the product-type and carried out the assessment and verification of constancy of performance under System 1, and issued the Certificate of Constancy of Performance 2649-CPR-26000401.



## 8. Declared performance

The essential characteristics below relate to EN 13162:2012+A1:2015.

| ESSENTIAL CHARACTERISTICS                                                            | REQUIREMENT CLAUSE                                        | PERFORMANCE                 |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|
| <b>Reaction to fire</b>                                                              | Reaction to fire                                          | <b>Class A1<sup>A</sup></b> |
| <b>Thermal resistance</b>                                                            | Thermal resistance / thermal conductivity ( $\lambda D$ ) | NPD <sup>B</sup>            |
|                                                                                      | Thickness                                                 | NPD                         |
| <b>Durability of reaction to fire against heat, weathering, ageing/degradation</b>   | Durability characteristics                                | NPD                         |
| <b>Durability of thermal resistance against heat, weathering, ageing/degradation</b> | Thermal resistance / thermal conductivity                 | NPD                         |
|                                                                                      | Durability characteristics                                | NPD                         |
| <b>Compressive strength</b>                                                          | Compressive stress or compressive strength                | NPD <sup>B</sup>            |
|                                                                                      | Point load                                                | NPD                         |
| <b>Tensile/flexural strength</b>                                                     | Tensile strength perpendicular to faces                   | NPD <sup>B</sup>            |
| <b>Durability of compressive strength against ageing/degradation</b>                 | Compressive creep                                         | NPD                         |
| <b>Water permeability</b>                                                            | Short-term / long-term water absorption                   | NPD <sup>B</sup>            |
| <b>Water vapour permeability</b>                                                     | Water vapour transmission                                 | NPD                         |
| <b>Impact noise transmission index (for floors)</b>                                  | Dynamic stiffness                                         | NPD                         |
|                                                                                      | Thickness, dL                                             | NPD                         |
|                                                                                      | Compressibility, c                                        | NPD                         |
|                                                                                      | Air flow resistivity                                      | NPD                         |
| <b>Acoustic absorption index</b>                                                     | Sound absorption                                          | NPD <sup>B</sup>            |
| <b>Direct airborne sound insulation index</b>                                        | Air flow resistivity                                      | NPD                         |
| <b>Release of dangerous substances to the indoor environment</b>                     | Release of dangerous substances                           | NPD <sup>B</sup>            |
| <b>Continuous glowing combustion</b>                                                 | Continuous glowing combustion                             | NPD                         |

NPD: No Performance Determined.

A — test evidence in Annex A. B — measured values in Annex B.

Harmonised technical specification: EN 13162:2012+A1:2015

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Annexes: A — Fire test evidence · B — Measured performance data · C — Certification register

For and on behalf of the manufacturer:

ISSUED BY

Taishi Energy Conservation (Qingdao) Co., Ltd. (stamp)

PLACE OF ISSUE

Laixi, Qingdao, China

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25 August 2026

## Annex A – Reaction to fire: test evidence

Certificate 2649-CPR-26000401 rests on six Intertek test reports, Nos. 251202026SHF-001 to -006, issued 3 February 2026. Intertek drew and sealed the specimens at the manufacturing plant. Both ends of the certified density range were tested and classified separately; EN 13501-1 classifies by bracketing, so the class covers every certified density between them.

| Parameter                            | Class A1 criterion                | 40 kg/m <sup>3</sup>    | 180 kg/m <sup>3</sup>   | Method           |
|--------------------------------------|-----------------------------------|-------------------------|-------------------------|------------------|
| Furnace temperature rise, $\Delta T$ | $\leq 30\text{ }^{\circ}\text{C}$ | 13.0 $^{\circ}\text{C}$ | 16.1 $^{\circ}\text{C}$ | EN ISO 1182:2020 |
| Mass loss, $\Delta m$                | $\leq 50\%$                       | 6.5 %                   | 4.2 %                   | EN ISO 1182:2020 |
| Sustained flaming, $t_f$             | 0 s                               | nil                     | nil                     | EN ISO 1182:2020 |
| Gross heat of combustion, PCS        | $\leq 2.0\text{ MJ/kg}$           | 1.2437 MJ/kg            | 1.2100 MJ/kg            | EN ISO 1716:2010 |
| Classification                       | —                                 | Class A1                | Class A1                | EN 13501-1:2018  |

## Annex B – Measured performance data (informative)

Values measured by third-party laboratories; each value cites its test report.

### B.1 – Thermal conductivity across the certified density range

| Density               | Specimen thickness | $\lambda$ , 10 $^{\circ}\text{C}$ mean | Report No.   | Tested     |
|-----------------------|--------------------|----------------------------------------|--------------|------------|
| 40 kg/m <sup>3</sup>  | 50 mm              | 0.035 W/(m·K)                          | WSW 25100052 | 2025-09-25 |
| 60 kg/m <sup>3</sup>  | 60 mm              | 0.032 W/(m·K)                          | WSW 25100053 | 2025-09-25 |
| 80 kg/m <sup>3</sup>  | 80 mm              | 0.031 W/(m·K)                          | WSW 25100046 | 2025-09-29 |
| 100 kg/m <sup>3</sup> | 100 mm             | 0.031 W/(m·K)                          | WSW 25100045 | 2025-09-08 |
| 110 kg/m <sup>3</sup> | 120 mm             | 0.031 W/(m·K)                          | WSW 25100047 | 2025-09-26 |
| 120 kg/m <sup>3</sup> | 150 mm             | 0.034 W/(m·K)                          | WSW 25100048 | 2025-09-20 |
| 140 kg/m <sup>3</sup> | 200 mm             | 0.034 W/(m·K)                          | WSW 25100049 | 2025-10-04 |
| 160 kg/m <sup>3</sup> | 30 mm              | 0.034 W/(m·K)                          | WSW 25100050 | 2025-09-21 |
| 180 kg/m <sup>3</sup> | 100 mm             | 0.037 W/(m·K)                          | WSW 25100051 | 2025-09-04 |

EN 12667:2001, heat-flow meter, 10  $^{\circ}\text{C}$  mean · National Fiberglass Product Quality Inspection and Testing Center (CTC Nanjing Guocai) · CMA 230010260188 · CNAS L0846 · ilac-MRA

### B.2 – Selected measured properties

| Property                                          | Method                              | Measured result                                                                | Report                         |
|---------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------|--------------------------------|
| Compressive stress at 10 % deformation, CS(10)    | EN ISO 29469:2022                   | 66.6 kPa at 140 kg/m <sup>3</sup> · 13.5 kPa at 80 kg/m <sup>3</sup>           | SHFS2401000125FF / 126FF       |
| Tensile strength perpendicular to faces, TR       | EN 1607:2013                        | 20.5 kPa at 140 kg/m <sup>3</sup>                                              | SHFS2401000125FF               |
| Short-term water absorption, WS                   | EN ISO 29767:2019, method A         | 0.09 kg/m <sup>2</sup> at 140 kg/m <sup>3</sup>                                | SHFS2401000125FF               |
| Long-term water absorption, WL(P)                 | EN ISO 16535:2019, method 1A        | 0.18 kg/m <sup>2</sup> at 140 kg/m <sup>3</sup>                                | SHFS2401000125FF               |
| Dimensional stability, length / width / thickness | EN 1604:2013                        | 0.0 / 0.0 / 0.5 % at 140 kg/m <sup>3</sup>                                     | SHFS2401000125FF               |
| Thermal conductivity, 25 $^{\circ}\text{C}$ mean  | GB/T 10295-2008                     | 0.033 W/(m·K) at 100 kg/m <sup>3</sup> · 0.034 W/(m·K) at 80 kg/m <sup>3</sup> | WSW 25030179 / XJ2026B03D02237 |
| Noise reduction coefficient, NRC                  | GB/T 20247-2006, reverberation room | 0.90 at 80 and 100 kg/m <sup>3</sup>                                           | XJ2026B03D02237 / WSW 25030179 |
| Hydrophobicity                                    | GB/T 10299-2011                     | 99.9 %                                                                         | XJ2026B03D02237 / WSW 25030179 |
| Average fibre diameter                            | GB/T 5480-2017                      | 4.7–5.0 $\mu\text{m}$                                                          | XJ2026B03D02237 / WSW 25030179 |

| Property                          | Method                   | Measured result                                        | Report                         |
|-----------------------------------|--------------------------|--------------------------------------------------------|--------------------------------|
| Shot content, particles > 0.25 mm | GB/T 5480-2017           | 2.5–5.8 %                                              | XJ2026B03D02237 / WSW 25030179 |
| Acidity coefficient, Mk           | GB/T 5480-2017           | 2.0                                                    | XJ2026B03D02237 / WSW 25030179 |
| Formaldehyde emission             | GB/T 32379-2015          | not detected, < 0.09 mg/(kg·h) at 80 kg/m <sup>3</sup> | XJ2026B03D02237                |
| Radionuclides, IRa / Ir           | GB 6566-2010             | 0.1–0.3, limit ≤ 1.0                                   | XJ2026B03D02237 / WSW 25030179 |
| Corrosivity to steel              | GB/T 11835-2007, Annex E | rank sum 40, minimum 21                                | WSW 25030179                   |

### Annex C – Certification register (informative)

Certificates in force across the Taishi group's stone wool programme.

| Scheme                                                                                   | Certificate / report No.           | Held by                                        |
|------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------|
| CE – Certificate of Constancy of Performance, EN 13162 (AVCP System 1, NB 2649 Intertek) | 2649-CPR-26000401                  | Taishi Energy Conservation (Qingdao) Co., Ltd. |
| KS L 9102 (Korea, KTR)                                                                   | KTR-24-0117                        | Taishi Energy Conservation Materials Co., Ltd. |
| GOST voluntary fire-safety certification (Russia), KM0 / NG                              | POCC<br>RU.32079.04CПБ1.0C14.64027 | Taishi Energy Conservation Materials Co., Ltd. |
| FM Approvals                                                                             | 3059042 / RR232698                 | Taishi Energy Conservation Materials Co., Ltd. |
| China Classification Society works approval                                              | QD23PWA00057                       | Taishi Energy Conservation Materials Co., Ltd. |
| RoHS test report                                                                         | SZ24012616A                        | Taishi Energy Saving (Anhui) Co., Ltd.         |

