

DECLARATION OF PERFORMANCE

No. TAISHI - DoP - EN13162 - 080

1. Unique identification code of the product-type

**TAISHI Stone Wool Board, factory-made mineral wool (MW), nominal density 80 kg/m³, 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
Reaction to fire	Reaction to fire	Class A1^A
Thermal resistance	Thermal resistance / thermal conductivity (λD)	NPD ^B
	Thickness	NPD
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics	NPD
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance / thermal conductivity	NPD
	Durability characteristics	NPD
Compressive strength	Compressive stress or compressive strength	NPD ^B
	Point load	NPD
Tensile/flexural strength	Tensile strength perpendicular to faces	NPD ^B
Durability of compressive strength against ageing/degradation	Compressive creep	NPD
Water permeability	Short-term / long-term water absorption	NPD ^B
Water vapour permeability	Water vapour transmission	NPD
Impact noise transmission index (for floors)	Dynamic stiffness	NPD
	Thickness, dL	NPD
	Compressibility, c	NPD
	Air flow resistivity	NPD
Acoustic absorption index	Sound absorption	NPD ^B
Direct airborne sound insulation index	Air flow resistivity	NPD
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD ^B
Continuous glowing combustion	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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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/m³	180 kg/m³	Method
Furnace temperature rise, ΔT	≤ 30 °C	13.0 °C	16.1 °C	EN ISO 1182:2020
Mass loss, Δm	≤ 50 %	6.5 %	4.2 %	EN ISO 1182:2020
Sustained flaming, tf	0 s	nil	nil	EN ISO 1182:2020
Gross heat of combustion, PCS	≤ 2.0 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	λ, 10 °C mean	Report No.	Tested
40 kg/m³	50 mm	0.035 W/(m·K)	WSW 25100052	2025-09-25
60 kg/m³	60 mm	0.032 W/(m·K)	WSW 25100053	2025-09-25
80 kg/m³	80 mm	0.031 W/(m·K)	WSW 25100046	2025-09-29
100 kg/m³	100 mm	0.031 W/(m·K)	WSW 25100045	2025-09-08
110 kg/m³	120 mm	0.031 W/(m·K)	WSW 25100047	2025-09-04
120 kg/m³	150 mm	0.034 W/(m·K)	WSW 25100048	2025-09-20
140 kg/m³	200 mm	0.034 W/(m·K)	WSW 25100049	2025-09-04
160 kg/m³	30 mm	0.034 W/(m·K)	WSW 25100050	2025-09-20
180 kg/m³	100 mm	0.037 W/(m·K)	WSW 25100051	2025-09-04

EN 12667:2001, heat-flow meter, 10 °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/m³ · 13.5 kPa at 80 kg/m³	SHFS2401000125FF / 126FF
Tensile strength perpendicular to faces, TR	EN 1607:2013	20.5 kPa at 140 kg/m³	SHFS2401000125FF
Short-term water absorption, WS	EN ISO 29767:2019, method A	0.09 kg/m² at 140 kg/m³	SHFS2401000125FF
Long-term water absorption, WL(P)	EN ISO 16535:2019, method 1A	0.18 kg/m² at 140 kg/m³	SHFS2401000125FF
Dimensional stability, length / width / thickness	EN 1604:2013	0.0 / 0.0 / 0.5 % at 140 kg/m³	SHFS2401000125FF
Thermal conductivity, 25 °C mean	GB/T 10295-2008	0.033 W/(m·K) at 100 kg/m³ · 0.034 W/(m·K) at 80 kg/m³	WSW 25030179 / XJ2026B03D02237
Noise reduction coefficient, NRC	GB/T 20247-2006, reverberation room	0.90 at 80 and 100 kg/m³	XJ2026B03D02237 / WSW 25030179
Hydrophobicity	GB/T 10299-2011	99.9 %	XJ2026B03D02237 / WSW 25030179
Average fibre diameter	GB/T 5480-2017	4.7–5.0 µm	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 ³	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 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.

