SHINWOONG
SAFETY BOARD

www.shinwoong-usa.com

NON-COMBUSTIBLE MgO ARCHITECTURAL PANELS

Where Safety Meets Sustainability

Safer Buildings, Healthier Lives, A Greener Future.



NON-COMBUSTIBLE
Made-in-Korea MgO panel

CLASS A · ASTM E84
Flame Spread Index 0

IBS 2026 TOP 50
Must-See Product

MADE IN KOREA
Korean-patented technology

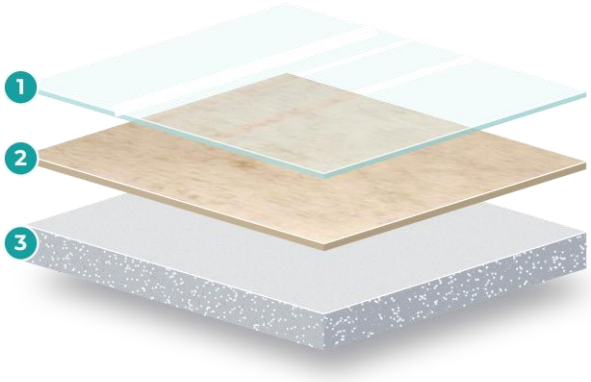
Shown: Gray Hyo Concrete finish · model-house showroom, South Korea

SHINWOONG USA

PRODUCT FEATURES

Not a Conventional MgO Board

A Korean-patented, non-combustible mineral panel with its design printed directly into the surface — delivered finished and ready to install.



Standard Interior Panel (6 mm) — schematic, not to scale

1 — UV-Cured Protective Finish

Hard-wearing surface that resists moisture, stains and everyday scuffs.

2 — Direct-Transfer Printed Design

200+ designs transferred into the surface — no laminated film or glue layer to peel or burn.

3 — Patented Non-Combustible MgO Core

A mineral core — not a flame-retardant coating. Korean Invention Patent No. 10-2558934.

Truly Non-Combustible
Mineral MgO core — not a coating

Finished in One Pass
No taping, mud, paint, mortar or grout

Dry, Fast Installation
Tape + silicone or fasteners; standard tools

Healthier Materials
No asbestos, formaldehyde or 7 heavy metals detected

Light & Tough
≈1.4 lb/sq ft; nail- and screw-fixable

200+ Designs, Made to Order
Custom prints, sizes and anti-slip textures

TEST RESULTS

Independently Tested in the U.S., Korea & Singapore

ASTM E84-26 · SURFACE BURNING

0 FLAME SPREAD INDEX

60 SMOKE DEVELOPED

CLASS A

QAI Laboratories (USA) · Report QA-7504 · Jun 9, 2026

Non-Combustible
KTR (Korea) · BS 476-4: 0 s flaming in all 3 specimens (TÜV SÜD)

Grade 0
Fungal growth — ASTM G21 mold-resistance test (KTR)

0.002 mg/m²·h
TVOC emission; formaldehyde & toluene not detected (KCL)

≈90% Lower Radon
16.5 vs. 168–198 Bq/m³ for typical boards (KTR comparative test)

ASTM E84 rates surface burning only — not an ASTM E119 / UL 263 assembly fire-resistance rating. BS 476-4 specimen: SW-SFB486, 15 mm. Full reports on request.

HOW IT COMPARES

Class A Fire Safety at About Half the Weight — Installed Dry

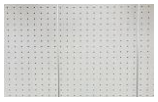
CRITERION	SHINWOONG SAFETY BOARD	PORCELAIN TILE PANEL (GPTP)	STONE PANEL (HONEYCOMB-BACKED)
Thickness	**6 mm (¼ in)**	3.5–7 mm	≈19–25 mm (¾–1 in)
Weight	**≈1.4 lb/sq ft (20 kg per 4×8 ft sheet)**	2.8–3.5 lb/sq ft	≈3.3 lb/sq ft
Fire (board level)	**ASTM E84 Class A, FSI 0 / SDI 60 Non-combustible MgO core**	Non-combustible ceramic body	ASTM E84 FSI 5 / SDI 5 (stone on epoxy-bonded honeycomb)
Installation	**Dry: tape + silicone or fasteners; standard tools**	Mortar on panel back & substrate; skilled crew, special tools	Engineered clips / channels; maker-approved details
Surface care	**Factory-finished; no sealing or grout**	No sealing; grout joints need upkeep	Sealing & specialized care
Design range	**200+ designs + custom prints**	Broad catalog of porcelain looks	Natural stone types; varies by lot

Sources: porcelain — Creative Materials Corp., GPP vs. Other Materials chart (2025); ANSI A108.19 installation summary (TileLetter). Stone panel — StonePly honeycomb-backed stone panel specification (¼ in stone + ½–¾ in honeycomb, 3.3 lb/sq ft, ASTM E84 FSI 5 / SDI 5); natural-stone care — Creative Materials Corp. Shinwoong — QAI Report QA-7504; manufacturer data. Typical values; verify per product.

PRODUCT LINE

Five Panels, One Non-Combustible Platform

Choose the surface and thickness your project needs — all built on the same MgO platform.

	PRODUCT	THICKNESS	SURFACE / FINISH	TYPICAL APPLICATIONS
	**Standard Interior Panel**	6 mm (0.24 in)	Smooth, direct-transfer printed design	Interior walls & ceilings, dry flooring, kitchens, baths & residential interiors
	Exterior Panel	7 mm — 6 mm core + 1 mm coating	Patented mock-marble protective coating	Facades, exterior cladding, soffits, wet / high-exposure areas
	**Embossed / Textile Anti-Slip Panel**	6 mm (0.24 in)	Embossed textile texture — slip-resistant	High-traffic walls, steps, wet-prone floors, senior- & child-care facilities
	**Custom 9 mm Flooring Option**	9 mm (0.35 in) — 50% thicker than 6 mm	Flooring-grade custom panel	Heavy-duty interior flooring and high-durability projects
	NEW **Sound Absorption Panel**	6 mm (0.24 in)	Perforated, pre-finished MgO surface	Classrooms, auditoriums, offices, corridors, gyms & multipurpose halls

All panels 4 × 8 ft (1,220 × 2,440 mm) standard · custom sizes on request · Limited warranty: 20 years (Interior / Textile panels), 10 years (Exterior Panel)

DESIGN COLLECTION

200+ Designs, Printed to Order

Representative finishes shown — custom production on request

Standard Interior Panel — 6 mm · direct-transfer printed



Ocher Wood
059-108



Beige Marble
A358-1



Beige Wood
M196-7



White Wood
LS002



Sandstone
MS002



Cool Gray Concrete
A2

Exterior Panel — 7 mm · patented mock-marble coating

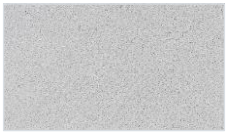
RW-11 Dry White



RW-12 Cream



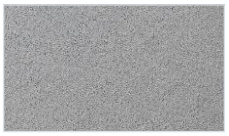
RY-13 Ivory



RG-14 Silver



RB-15 Brown



RG-16 Gray

Specialty Surfaces — 6 mm · function built into the finish



Embossed Anti-Slip (Textile)
Smoked Oak W684-3 shown. The anti-slip embossing can be applied to ANY Standard Interior design on request — for stair treads, wet-area floors, RV / mobile-home interiors and senior- & child-care facilities.



Sound Absorption Panel (Perforated)
Pre-finished, perforated MgO panel that adds sound absorption to walls and ceilings, helping reduce echo and reverberation in busy interiors.

200+ DESIGNS | **Wood · Marble · Stone · Solid Color · Textile · Metal**
Bespoke, made-to-order designs produced to your specification.

APPLICATION CASES

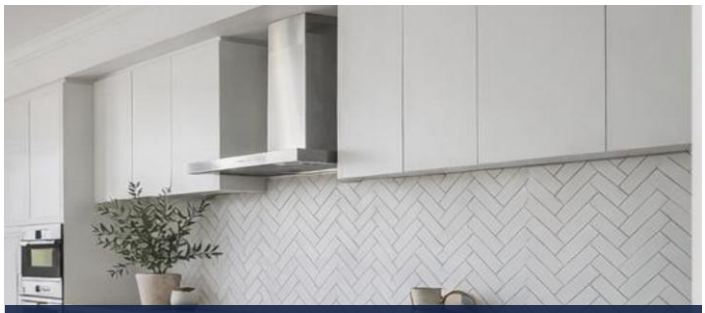
Built for Demanding Spaces

Education · Luxury Residential · Wet Areas · Modular & Mobile Homes



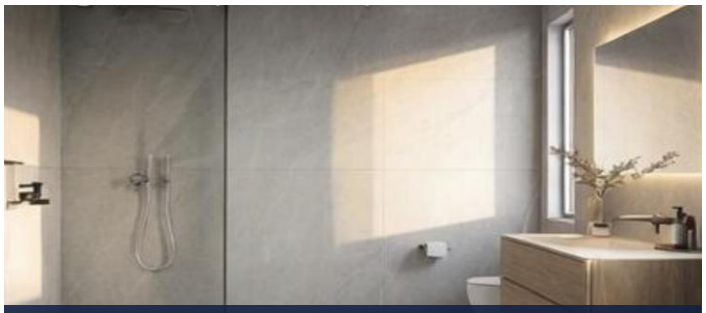
Education — School Gymnasium & Multipurpose Hall

Non-combustible, impact-resistant wall finish for high-traffic public spaces · Shown: White Wood (upper) + Beige Wood (lower)



Luxury Residential — Kitchens

Herringbone backsplash & feature walls; scratch- and stain-resistant



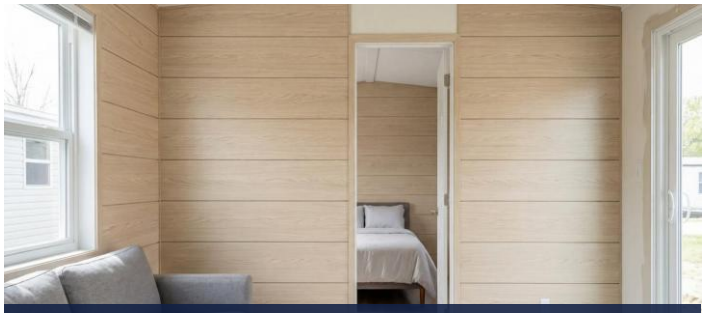
Wet Areas — Spa Bathrooms

Moisture- & mold-resistant; dimensionally stable in humid rooms



Education — Atriums & Learning Stairs

Impact-resistant, easy-clean finishes for corridors, stairs & classrooms



Modular & Mobile Homes

Lightweight, fast-install panels for durable, stylish interiors

Request Your FREE Product Sample Today

Tell us about your project and your preferred pattern or color — we'll send matching samples.

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SHINWOONG SAFETY BOARD

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