



Wedge

WEDGE INDUSTRIES LIMITED  
GURUGRAM · INDIA

PRODUCT QUALITY CATALOGUE

# Tile Backer Boards Wall & Roof Insulation

High-performance composite boards and thermal insulation systems for heat, cold, fire and acoustic protection — engineered to EN & ASTM standards.

*"Delivering High Performance at Lower Cost"*

EDITION 2025

ABOUT WEDGE

# Engineered insulation for a world that runs from $-200\text{ }^{\circ}\text{C}$ to $1750\text{ }^{\circ}\text{C}$

Wedge manufactures and offers a wide range of insulation solutions, designed in-house, manufactured with high-quality raw materials and fabricated to the highest precision. Improved solutions to heat problems are constantly required across applications and processes — to improve operational performance, reduce heat loss, save energy, save space and protect the environment.

Wedge insulation systems satisfy the demand for optimum planning, thermal profiles, ready-to-use shapes, lower thickness, easy installation, high insulation performance, long life and lower maintenance cost. Our materials suit all types of surfaces, straight and cylindrical.

Our product portfolio spans Microsilica, Fumed Silica, Nano-porous & Microporous boards, Calcium Silicate, Perlite, Vermiculite, Ceramic Fibre, Glass & Slag Wool, Aerogel, Vacuum Insulation Panels, and composite tile backer & roof boards.



FROM CRYOGENIC STORES TO  $1750\text{ }^{\circ}\text{C}$  FOUNDRIES — ONE ENGINEERED MATERIAL FAMILY.

<p><b>30–40%</b></p> <p>energy savings from a well-insulated envelope</p>	<p><b>240<sub>min</sub></b></p> <p>fire protection from our high-density boards</p>	<p><b>0.015</b></p> <p>W/m·K — aerogel thermal conductivity</p>	<p><b>A1</b></p> <p>non-combustible reaction-to-fire class</p>
---	---	---	--

## INSIDE THIS CATALOGUE

# Contents

## 01 TILE BACKER BOARDS

---

WedgeMXPS — XPS Composite Board	05
WedgeMXPS — CCXP Technical Data	06
WedgeMAG-P — Perlite MgO Board	07
Features, Benefits & Compliance	08
Applications	09

---

## 03 MATERIAL RANGE

---

Thermal Conductivity Reference	16
Calcium Silicate Boards	17
Aerogel & Perlite Boards	18
Vermiculite, PIR & PU Foam	19
Rockwool / Mineral Wool	20

---

## 02 ROOF & WALL INSULATION

---

Wedge IR100 — Roof & Wall Board	11
IR100 Thermal Performance	12
Insulation & Heat-Transfer Principles	13
Wall Insulation — Internal & External	14
Roof Insulation — Types & Benefits	15

---

## 04 QUALITY & CONTACT

---

Quality, Standards & Compliance	21
Contact & Enquiries	22

---

# 01

## Tile Backer Boards

Lightweight, waterproof composite substrates for tile installation in wet areas — combining XPS and magnesium-oxide cores with thermal insulation, high bond strength and fire performance.

05–06

WedgeMXPS  
XPS Composite

07

WedgeMAG-P  
Perlite MgO

08–09

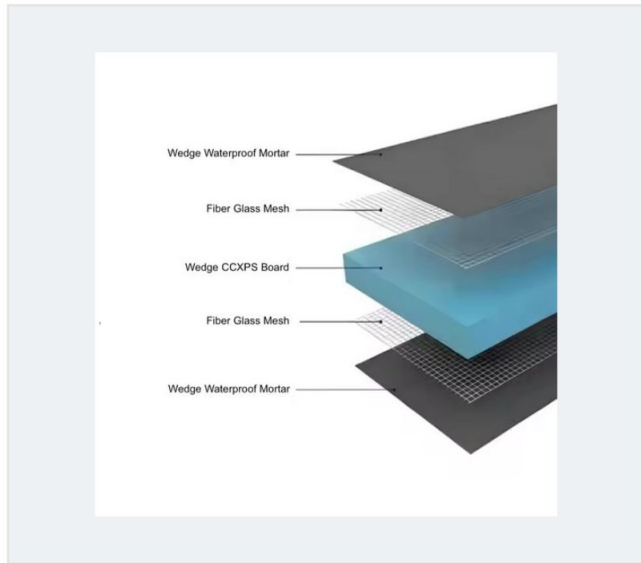
Features &  
Applications



WEDGEMXPS · XPS COMPOSITE BOARD

# Polymer-mortar coated CCXPS tile backer board

Wedge high-strength, fire-resistant polymer-mortar coated CCXPS (closed-cell extruded polystyrene) tile backer boards are lightweight, high-strength substrates for tile installations — typically used in bathrooms, kitchens and swimming pools for their waterproof and thermal-insulation properties.



BOARD BUILD-UP – WATERPROOF MORTAR, FIBREGLASS MESH AND CCXPS CORE, BONDED BOTH FACES.

## KEY TECHNICAL SPECIFICATIONS

Core material	CCXPS (closed-cell XPS)
Thickness	6 – 50 mm
Width	600 / 1220 mm
Length	1200 / 2440 mm
Density	30 – 45 kg/m <sup>3</sup>
Thermal conductivity	0.030 – 0.035 W/m·K
Compressive strength	200 – 300 kPa
Water absorption	≤ 0.7 %
Surface bond (mortar)	≥ 1 MPa

Compatible with cementitious tile adhesives. Resistant to mould, mildew and chemicals encountered in tile installations.

## SUITABLE APPLICATIONS

Wet-area wall & floor underlayment

Bathrooms & kitchens

Pool & spa cladding

Lightweight partition walls

Substrate for decorative finishes

**ASTM C578**  
XPS thermal insulation

**EN 13164**  
Building thermal insulation

**EN 12004**  
Adhesives for tiles

## WEDGEMXPS · TECHNICAL DATA

# CCXP grade range — 30 to 70

Six density grades engineered for increasing compressive and flexural performance while holding a consistently low thermal conductivity and water absorption.

PROPERTY · TEST METHOD	CCXP 30	CCXP 35	CCXP 36	CCXP 45	CCXP 60	CCXP 70
Application temperature, °C	-30 to 80					
<b>THERMAL CONDUCTIVITY — ASTM C518, W/M·K</b>						
at 10 °C	0.028	0.028	0.028	0.028	0.028	0.028
at 25 °C	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
<b>MECHANICAL &amp; PHYSICAL PROPERTIES</b>						
Bulk density, kg/m <sup>3</sup> · D1622	30	35	37	40	45	48
Compressive strength, kPa · D1621	200	300	350	450	600	700
Compressive strength, psi	29	44	51	65	87	102
Flexural strength, kPa · C203	345	400	410	425	525	690
Water-vapour permeability @25mm · E96	<85	<80	<80	<70	<65	<60
Water absorption by immersion, %	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7
Limiting oxygen index, % · D2863	24	24	24	24	24	24
Dimensional stability, % · D2126	2	1.5	1.5	1	1	1
R-Value, 1" thickness	5.1	5.1	5.1	5.2	5.2	5.2
R-Value, 2" thickness	10.2	10.2	10.2	10.4	10.4	10.4

**THERMAL RESISTANCE R<sub>s</sub> — M<sup>2</sup>·K/W (IDENTICAL ACROSS GRADES)**

THICKNESS, MM	R <sub>s</sub>	THICKNESS, MM	R <sub>s</sub>
10	0.29	100	2.94
25	0.88	125	3.82
50	1.47	150	4.41
75	2.06	180	5.29
80	2.35	200	5.88

**STANDARD SIZING & FINISH**

Colour	White, Yellow, Blue, Pink
Thickness	6 – 100 mm
Length	1200 – 3000 mm
Width	600 – 1200 mm
Edge type	Square / Shiplap / T&G

## WEDGEMAG-P · PERLITE MAGNESIUM COMPOSITE BOARD

# Perlite-magnesium oxide (MgO) tile backing board

WedgeMAG-P MgO board is a versatile, environmentally friendly building material that has gained popularity as an alternative to gypsum board (drywall) and cement board — valued for its fire resistance, moisture resistance, durability and eco-friendliness.

Boards are composed of magnesium oxide (MgO), magnesium sulphate (MgSO<sub>4</sub>), perlite, wood chips and a fibreglass mesh. These materials are mixed, formed into sheets and cured to create the finished product.

Highly resistant to moisture, WedgeMAG-P does not rot, warp or degrade when exposed to water, and is far less susceptible to mould and mildew than drywall — ideal for bathrooms, kitchens and other damp environments where indoor air quality matters.



WEDGEMAG-P BOARD — MESH-FACED MAGNESIUM-OXIDE SURFACE READY FOR TILING.

**ITEM DETAILS & TEST STANDARDS — WEDGEMAG-P**

Base materials	Glass perlite, MgO
Composite panel core	Aerogel (optional)
Thickness	6 – 25 mm
Maximum standard size	2440 × 1220 mm
Short-term temp. resistance	1400 °C
Long-term temp. resistance	1200 °C
Resistance to freezing	-20 °C
Density · EN 12467	800 – 1050 kg/m <sup>3</sup>
Fire rating	240 min
Reaction to fire · EN 13501-1	A1
Acoustic sound insulation	> 48 dB
Impact shock · ASTM D5328	6 kJ/m <sup>2</sup>
Compressive strength	18 MPa
Bending strength, dry · EN 12467	16 MPa
Bending strength, wet	13 MPa
Screw pull-out strength	1480 N
Moisture movement · C1185	0.18 %
Water permeability, 24 h	No leakage
Water vapour resistance, μ	31
Thermal conductivity · C177	0.12 W/m·K

WHY SPECIFY WEDGE TILE BACKER BOARDS

# Features & benefits

<p><b>Waterproof &amp; moisture resistant</b></p> <p>The closed-cell XPS structure resists water absorption; the polymer-mortar coating further seals the board for wet-area use.</p>	<p><b>Lightweight &amp; easy to handle</b></p> <p>Far lighter than traditional cement backer boards — easier to cut, shape and install, reducing labour and speeding the job.</p>
<p><b>Thermal insulation</b></p> <p>XPS provides excellent thermal insulation — improving efficiency behind tiles in heated floors and walls.</p>	<p><b>High adhesion</b></p> <p>The polymer-mortar coating gives a rough, cement-like surface for excellent tile-adhesive bond.</p>
<p><b>Impact &amp; load resistance</b></p> <p>XPS plus the mortar coating yields a rigid, durable board that withstands impact, load and the weight of finishes.</p>	<p><b>Mould, mildew &amp; fire resistance</b></p> <p>Moisture resistance suppresses mould and mildew; fire-retardant additives in the coating enhance fire performance.</p>

**BENEFITS AT A GLANCE**

- Quick, low-labour installation
- Versatile across wet rooms & spas
- Flat, stable surface for tiling
- Enhanced thermal insulation
- Reduced risk of water damage
- Commercially cost-effective

COMPLIANCE STANDARDS	
ASTM C578	XPS thermal insulation
EN 13164	Building insulation
EN 12004	Tile adhesives
EN 13501-1	Reaction to fire

WHERE THEY PERFORM

# Applications



BATHROOM WALLS, SHOWERS &amp; AROUND BATHTUBS



WET ROOMS, STEAM ROOMS &amp; SAUNAS



KITCHEN BACKSPLASHES BEHIND SINKS &amp; STOVES

## Flooring underlayment

An underlay for floor tiles where extra insulation or waterproofing is needed — particularly in heated-floor systems.

## Pool & spa cladding

High moisture resistance makes the boards suitable for swimming pools, spa surrounds and other continuously wet zones.

## Exterior cladding

As part of facade systems, the boards provide a durable, insulated backing for tiles and other finishes.

# 02

---

## Roof & Wall Insulation

High-performance, thin and lightweight insulation boards for external and internal walls and roofs — delivering heat, cold, fire and acoustic protection with a single low-thickness system.

11–12

Wedge IR100  
Roof & Wall Board

13

Heat-Transfer  
Principles

14–15

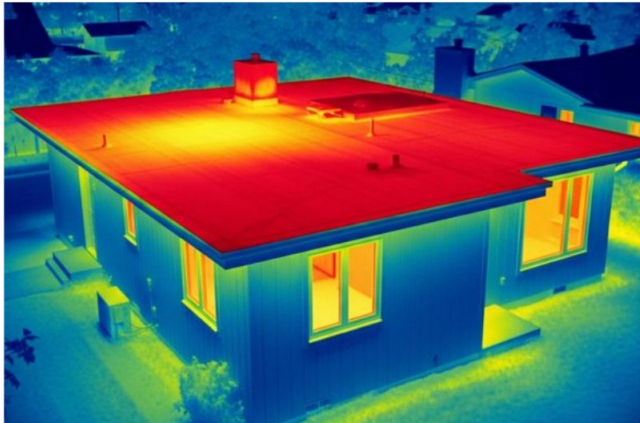
Wall & Roof  
Insulation



## WEDGE IR100 · ROOF &amp; WALL INSULATION BOARD

# Rigid closed-cell composite board for roof & wall

Wedge IR100 is a rigid, closed-cell, high-strength composite board designed for external wall and roof insulation — achieving a 20 °C temperature difference with just 50 mm thickness. Manufactured to sustain external impact and structural loads, with a thermal conductivity ( $\lambda$ ) of 0.022 W/m·K it outperforms traditional materials while remaining lightweight, moisture-resistant and durable.



IR100 BOARD SEALED AGAINST A CONCRETE SUBSTRATE — A CONTINUOUS LOW-CONDUCTIVITY LAYER.

## MANUFACTURING & BUILD

- Continuous lamination of high-density foam between protective facers.
- Closed-cell structure for low conductivity & high compressive strength.
- Cut to size: length 500–3000 mm, width 300–1200 mm.
- Eco-friendly, reduced-GWP blowing agents.

## TECHNICAL PROPERTIES — WEDGE IR100

Thickness	50 mm
Thermal conductivity, $\lambda$	0.022 W/m·K
R-Value (50 mm)	2.27 m <sup>2</sup> ·K/W
U-Value (50 mm board)	0.44 W/m <sup>2</sup> ·K
Density	50 – 100 kg/m <sup>3</sup>
Compressive strength	≥ 350 kPa
Water absorption	< 0.5 % (closed-cell)
Service temperature	–200 to +130 °C
Life span	25 – 30 years
Warranty	10 years (extendable)

### IDEAL FOR

Residential, commercial, prefab and industrial buildings.

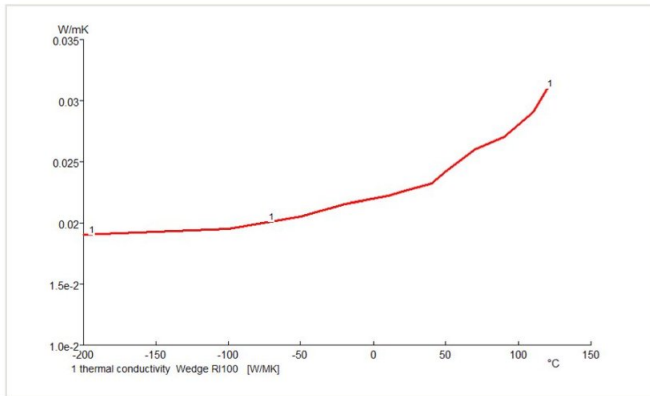
### APPLICATIONS

Flat & pitched roofs, wall cladding, external façades and sandwich panels.

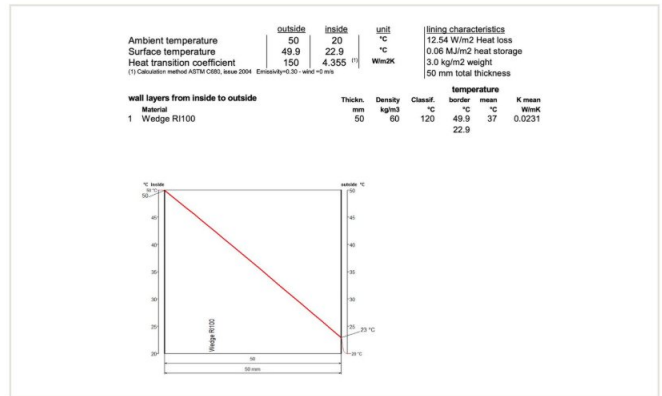
WEDGE IR100 · THERMAL PERFORMANCE

# Measured performance, not marketing

Thermal conductivity rises gently with temperature across the board's full -200 to +130 °C service range. Steady-state heat-transfer calculations (ASTM C680) confirm low heat flux in both summer and winter conditions.



THERMAL CONDUCTIVITY (W/M·K) VS. TEMPERATURE – WEDGE RI100.



TEMPERATURE GRADIENT ACROSS A 50 MM BOARD (50 °C → 23 °C).

<p>λ CONDUCTIVITY</p> <p><b>0.022</b></p> <p>W/m·K</p>	<p>R-VALUE 50mm</p> <p><b>2.27</b></p> <p>m<sup>2</sup>·K/W</p>	<p>U-VALUE 50mm</p> <p><b>0.44</b></p> <p>W/m<sup>2</sup>·K</p>	<p>ΔT @ 50mm</p> <p><b>20 °</b></p> <p>temperature drop</p>
--	---	---	---

STEADY-STATE HEAT TRANSFER — PLANE WALL / ROOF (ASTM C680, E=0.30)

CONDITION	INSIDE, °C	OUTSIDE, °C	SURFACE, °C	HEAT FLUX, W/M <sup>2</sup>	λ MEAN
Summer (heat ingress)	50	20	49.9 / 22.9	12.54	0.0231
Winter (heat loss)	-20	20	-19.9 / 16.5	15.94	0.0219

50 mm board · 3.0 kg/m<sup>2</sup> · calculated figures, general tolerances apply; thermal bridges not considered.

THE SCIENCE OF INSULATION

# Insulation & heat-transfer principles

Thermal insulation is a material's resistance to the transfer of heat. To understand it we must understand the physics of heat transfer, which occurs through conduction (solid & gaseous), convection and radiation — usually as a combined effect, driven by temperature difference.

Heat-insulating materials use the low thermal conductivity and thermal capacity of air. They typically have a total porosity of at least 45%, in practice 60–90%, and up to 99% in extreme cases. High porosity reduces mechanical strength, so conductivity depends not only on porosity but also on pore size, shape and the material's structure. Maximum pore diameters below 1 mm are necessary; micro-porous materials with pores below 0.1 μm reach the lowest conductivity.

The lower the thermal conductivity (λ value), the more resistant a material is to heat transmission. An insulator has a low λ; a conductor has a high λ.

**FUNDAMENTAL LAW OF HEAT TRANSFER**

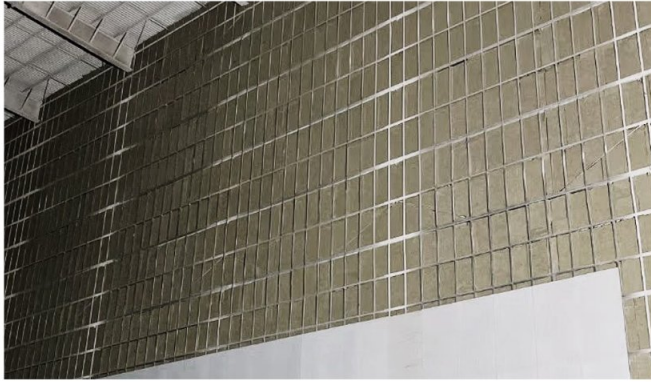
$$Q = \lambda A \cdot dT/dx$$

Q      heat transfer (W)  
 A      cross-sectional area (m<sup>2</sup>)  
 dT/dx    temperature gradient (K/m)  
 λ      thermal conductivity (W/m·K)

<p><b>Solid conduction</b></p> <p>Heat passes molecule-to-molecule by vibration. Higher density means higher conduction; rate is proportional to area and inversely proportional to path length.</p>	<p><b>Convection</b></p> <p>Heat moves by bulk fluid motion. A micro-porous structure traps air (&gt;95%), preventing the air movement that would otherwise convect heat.</p>
<p><b>Radiation</b></p> <p>All objects emit infrared radiation, needing no medium. Emission rises with the fourth power of temperature — heat loss climbs rapidly as temperature increases.</p>	<p><b>Gaseous conduction</b></p> <p>Heated gas molecules collide and transfer kinetic energy. The mean free path of air at STP is around 93 nm — constraining it suppresses conduction.</p>

## WALL INSULATION

# Internal & external wall systems



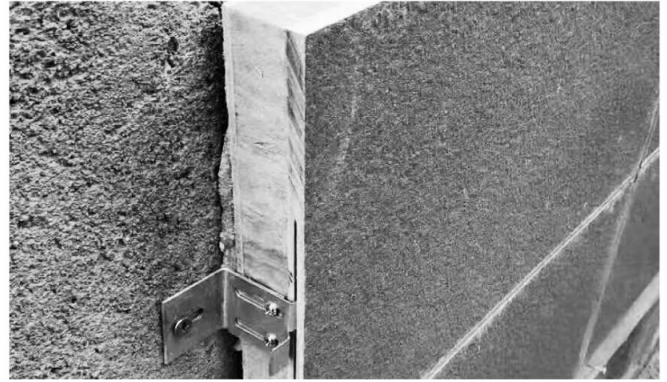
INTERNAL WALL INSULATION – MESHED SUBSTRATE READY FOR FINISH.

## Internal wall insulation

Suited to commercial and residential properties to improve indoor comfort and energy efficiency. Thermal thickness is selected to create a partition with a heat-transmission factor of  $U = 0.25\text{--}0.3\text{ W/m}^2\text{K}$ , with due consideration of building-regulation standards, exposure, durability and thermal bridges from concrete beams or lintels in older buildings.

## BENEFITS OF EXTERNAL WALL INSULATION

- Improved thermal comfort
- Cooler summers, warmer winters
- Reduced energy bills
- Improved external aesthetics
- Saved internal floor space
- Reduced carbon footprint
- Longer building-fabric lifespan
- Acoustic & fire resistance



EXTERNAL WALL INSULATION – MECHANICALLY FIXED CLADDING BOARD.

## External wall insulation (EWIS)

A thermally insulated, protective and decorative exterior cladding system using expanded polystyrene, mineral wool, polyurethane or phenolic foam, topped with a reinforced cement-based, mineral or synthetic finish and plaster.

## WALL INSULATION MATERIALS

Fibreglass, mineral wool, cellulose, natural fibres, polystyrene, polyisocyanurate, polyurethane, perlite, cementitious foam, phenolic foam and insulation facings.

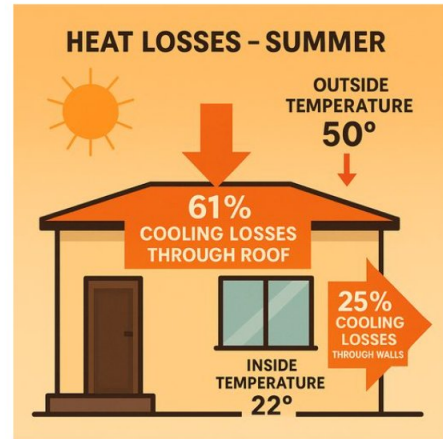
ROOF INSULATION

# High-R insulated roofing

The higher the R-value, the better the insulator — an R-30 material insulates three times better than R-10. Insulating the roof is the single most important way to keep a building thermally comfortable, and a well-insulated building can save 30–40% of energy consumption while reducing CO<sub>2</sub> emissions.



TYPICAL ROOF BUILD-UP – DECK, INSULATION LAYER AND SCREED.



UP TO 61% OF COOLING LOSSES OCCUR THROUGH AN UNINSULATED ROOF.

### TYPES OF ROOF INSULATION

- |                           |                                 |                   |
|---------------------------|---------------------------------|-------------------|
| Flat & pitched roof       | Rigid board & foam              |                   |
| Insulated panels & sheets | Metal roof insulation           |                   |
| Tapered roof insulation   | Rockwool blankets & boards      |                   |
| Aerogel paper             | Polyiso & EPS                   | VIP vacuum panels |
| Perlite boards            | 240-min fire-resistant ceilings |                   |

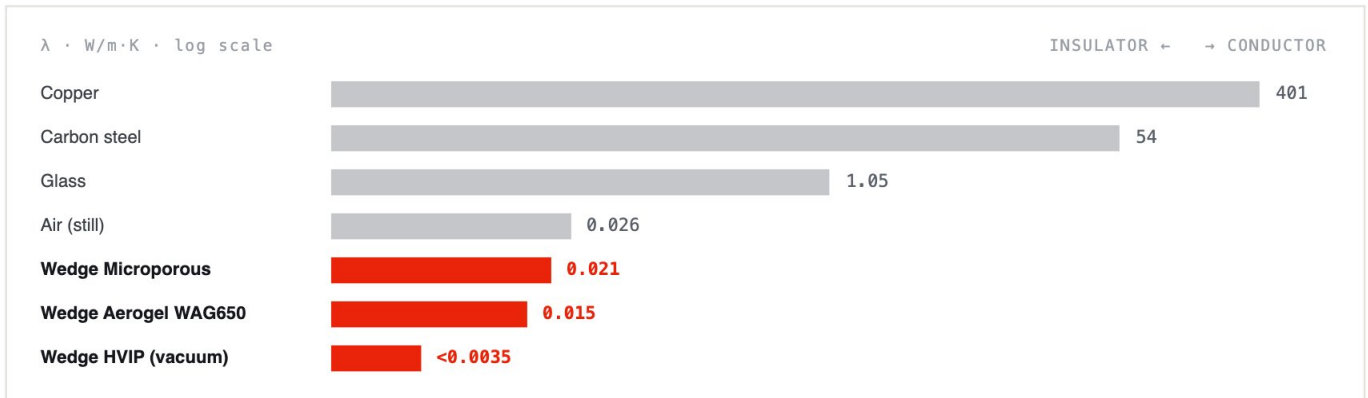
### BENEFITS OF ROOF INSULATION

- High thermal performance & mechanical strength
- Barrier to air, wind, moisture & solar radiation
- Prevents vapour transmission & mould growth
- Lessens carbon footprint & energy cost

MATERIAL REFERENCE

# Thermal conductivity λ reference

Not all materials transfer heat equally. The λ value describes a material's ability to conduct heat — the lower the value, the better the insulator. Wedge insulation materials sit at the extreme low end of the scale.



**CALCULATING λ**

$$K = Qd / A(T_1 - T_2)$$

Q heat transferred  
 d distance between isothermal planes  
 A surface area  
 ΔT temperature difference

**WEDGE WALL & ROOF INSULATION PRODUCTS**

- Aerogel boards, panels & blanket
- Rockwool boards & fire sleeve
- MgO boards
- Perlite insulation
- Vacuum insulation panels
- Calcium silicate boards
- Glass wool / fibreglass
- Millboard & gaskets
- PUF / PIR rigid foam
- Vermiculite boards

## MATERIAL RANGE · CALCIUM SILICATE

# Calcium silicate boards

Lightweight low- and medium-density boards manufactured with filter-press and gel-tank technology for low density, high strength, high-temperature insulation and easy machinability — plus high-density wollastonite grades for fire protection and structural backup insulation.

**W-LD SERIES — LOW / MEDIUM DENSITY**

PROPERTY	650	900	1000	1100
Service temperature, °C	650	900	1000	1100
Bulk density, kg/m <sup>3</sup>	220–240	245	255	255
Open porosity, %	90	90	90	90
Cold compressive str., MPa	0.75	1.5	1.6	1.6
Flexural strength, MPa	0.35	0.5	0.5	0.5
$\lambda$ at 200 °C, W/m·K	0.062	0.075	0.075	0.075
$\lambda$ at 400 °C, W/m·K	0.095	0.105	0.105	0.105

Standard sizes: length 600–1000 mm · width 300–600 mm · thickness 25–100 mm. Resistant to CO, NH<sub>3</sub>, H<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub> atmospheres.



MACHINABLE, SELF-SUPPORTING BOARDS — READY-TO-USE DESIGNS.

**HIGH-DENSITY GRADES — FIRE PROTECTION & STRUCTURAL BACKUP**

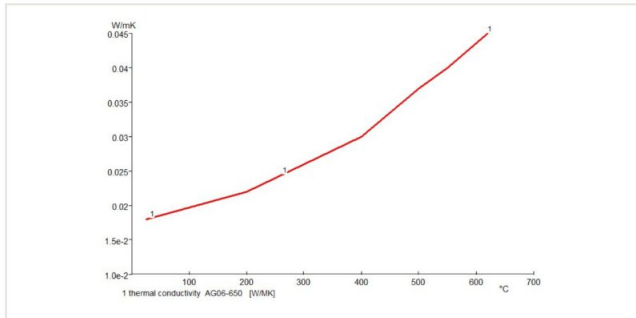
PRODUCT	DENSITY, KG/M <sup>3</sup>	CLASS. TEMP, °C	$\lambda$ , W/M·K	COMPRESSIVE, MPA	FIRE / CLASS
HSI 1100 · Wollastonite	1000	1000	0.11 @400°	8–10	—
SP1150 · internal	1150	1000	0.17 @25°	8	120 min · A1
WIX1300 · external	1300	900	0.19 @25°	21	60 min · Class 0
HDSP450 · sandwich panel	870	450	0.16	9.3	—

MATERIAL RANGE · AEROGEL & PERLITE

# Aerogel & perlite boards

## AG06 650 · MicroSilica Aerogel

Low-density, low-thickness, flexible commercial-grade aerogel blanket of high-quality silica aerogel needed to a glass-fibre blanket — 4 to 5 times better than traditional insulation, hydrophobic, A1 fire-rated and highly flexible.



λ VS. TEMPERATURE — AG06-650.

Base material	Aerogel silica
Classification temp.	650 to -50 °C
Thickness	5 / 10 mm
Density	220 kg/m <sup>3</sup>
λ at 25 °C	0.021 W/m·K

## W-Pearl · Perlite Boards

Waterproof expanded-perlite boards — inorganic, inert, asbestos-free, with excellent thermal insulation from cryogenic -273 °C up to 650 °C, extremely high hydrophobicity and CUI resistance.



WATER-REPELLENT, LIGHTWEIGHT PERLITE BOARD.

PROPERTY	220	250	350
Density, kg/m <sup>3</sup>	220	250	350
Hydrophobicity, %	99-100	99-100	99-100
Compressive, MPa	0.45	0.55	0.55
λ @50°, W/m·K	0.059	0.060	0.062

Perlite service range -190 to 650 °C · standard sizes: length 600 / 1050 / 2100 mm, width 300 / 900 / 950 mm, thickness 25-100 mm. Aerogel applications: hot pipelines, petrochemical, exhaust systems, passive fire protection (PFP).

MATERIAL RANGE · VERMICULITE & RIGID FOAM

# Vermiculite, PIR & PU foam

## W-VC SERIES – VERMICULITE BOARDS

PROPERTY	450	600	700	900
Service temperature, °C	1100	1100	1100	1150
Bulk density, kg/m <sup>3</sup>	450-475	600	700	900
Compressive str., MPa	2.5	4.2	4.5	6.3
Flexural strength, MPa	0.6-0.8	1.6	2.0	2.1
λ at 400 °C, W/m·K	0.17	0.18	0.20	0.19

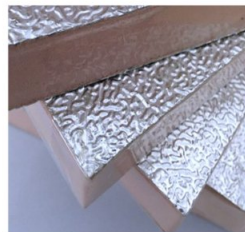
Exfoliated vermiculite with inorganic binders — asbestos-free, non-combustible A1, applicable furnace-side, resistant to CO and CH<sub>4</sub>.



W-VCL HIGH-TEMPERATURE VERMICULITE BOARD.

### W-PIR50 · Polyisocyanurate

Aluminium-foil faced rigid PIR for roof, wall, chilled-water tanks, cold storage and pre-insulated duct panels.



Density	≥50 kg/m <sup>3</sup>
λ (ambient)	≤0.022 W/m·K
Closed-cell content	>90 %
Compressive strength	≥200 kPa
Reaction to fire	Class B1
Service temperature	-196 to 120 °C

### W-PUF50 · Rigid PU Foam

Closed-cell cryogenic PU foam — high fire resistance, low water absorption, prefabricated or sprayed on site.



Density	≥50 kg/m <sup>3</sup>
λ at 25 °C	≤0.023 W/m·K
Water absorption	≤5 %
Compressive strength	≥200 kPa
Oxygen index	≥30
Service temperature	-80 to 100 °C

## MATERIAL RANGE · MINERAL WOOL

# Rockwool / mineral wool

Non-combustible stone-wool boards and blankets with high acoustic performance and extremely high melting temperature — they do not produce toxic smoke and act as an excellent barrier to flame spread. Densities from 48 to 160 kg/m<sup>3</sup>.



WRRB — RIGID MINERAL-WOOL BOARD.



HDRW 850 — REFRACTORY ROCKWOOL BOARD.

**HDRW 850 — REFRACTORY BOARD**

Classification temp.	850 °C
Density	950 kg/m <sup>3</sup>
λ at 400 °C	0.10 W/m·K
λ at 800 °C	0.12 W/m·K
Fire (10 mm)	120 min
Tensile strength	3.5 MPa

**WRRB / WFRB — RIGID BOARDS & FLEXIBLE BLANKETS**

GRADE	DENSITY, KG/M <sup>3</sup>	TEMP, °C	THICKNESS, MM	λ @40°
WRRB 48	48	750	50–200	0.039
WRRB 64	64	750	40–150	0.038
WRRB 100	100	750	25–100	0.038
WRRB 160	160	750	25–75	0.038
WRRB 900	900	1000	1–25	0.080
WFRB (flexible)	48–144	750	25–200	0.038

QUALITY ASSURANCE

# Standards & compliance

Every Wedge board is designed in-house, manufactured with high-quality raw materials and fabricated to the highest precision. Products are characterised and tested against internationally recognised ASTM, EN, BS and GB standards across thermal, fire, mechanical and durability performance.

<p><b>THERMAL PERFORMANCE</b></p> <p>ASTM C518    ASTM C177    ASTM C680    EN 12667</p> <p>ASTM C871</p>	<p><b>FIRE &amp; REACTION TO FIRE</b></p> <p>EN 13501-1    BS 476 Pt 4    GB 8624    ASTM D2863</p> <p>ASTM E84</p>
<p><b>MECHANICAL &amp; PHYSICAL</b></p> <p>ASTM D1622    ASTM D1621    ASTM C203</p> <p>ASTM D1623    ASTM D2842    ASTM D6226</p> <p>ASTM D2126    ASTM D5328    ASTM C1185</p>	<p><b>PRODUCT &amp; BUILDING</b></p> <p>ASTM C578    EN 13164    EN 12004    EN 12467</p> <p>ASTM E96    ASTM C795</p>

**In-house design**

Materials engineered and fabricated to precise, application-specific profiles and ready-to-use shapes.

**Verified performance**

Thermal, fire and mechanical properties characterised against international test methods.

**Long service life**

Durable, moisture-resistant systems with low maintenance cost and extendable warranty.

**"Delivering High Performance at Lower Cost"**

Optimised, high-performance, long-lasting insulation systems at extremely low maintenance cost.

---

GET IN TOUCH

## Let's engineer your insulation solution.

Request pricing, technical data sheets or a project-specific thermal profile from our engineering team.

---

### HEAD OFFICE

#### Wedge Industries Limited

14th Floor 143, Building No. 120  
Silver Oaks Tower, DLF Phase 1  
Gurugram – 122002, Haryana, India

### CONTACT

TEL  
+91 124 4144480 · +91 97175 06848

EMAIL  
[info@wedge-india.com](mailto:info@wedge-india.com)

WEB  
[www.wedge-india.com](http://www.wedge-india.com)