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Product advantages

- Superior thermal performance
 - Low dust
 - Low weight
 - Noncombustible A1
 - Passive fire performance
 - Hydrophobic – non water absorbent
 - Breathable – non condensation issues
 - Fungi resistant
 - Space effect – reduce volume for shipping, storage and logistics
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- 5-8% more floor space for new building projects
 - Closing the energy gap for existing buildings

Product data sheet

Description

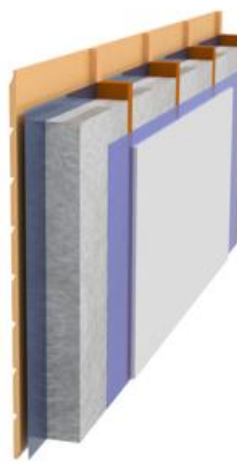
Oryza BGT is a high-performance aerogel blanket insulation specifically designed and approved for the building and construction market.

Its unique combination of thermal performance, A1 non-combustibility, super hydrophobicity, breathability, and flexibility makes it the ideal choice for projects where energy efficiency, fire safety, and space optimization are essential.

50% or more, reduction of wall thickness



Mineral wool



Oryza BGT

Applications

New building and constructions
Refurbishment and energy optimization projects
HVAC and piping systems.
Passive fire protection of construction elements
Acoustic systems
Infrastructure and airspace applications



Installation

The soft and flexible Oryza Sil BGT aerogel mat can be installed according to all relevant fixing methods applicable for B&C



References

LE11, Leipzig DE
Worldwide first carbon-reinforced concrete apartment building
2024

Hasenheide, Berlin DE
Carbon-reinforced concrete apartment building
2024-25

Bruno Taut, Berlin DE
UNESCO-protected Quarter
2024

Technical data and specifications

Selected property	Unit	Value
Thermal conductivity (10°C)	W/(m*K)	0.018
Thermal conductivity (200°C)	W/(m*K)	0.024
Thermal conductivity (400°C)	W/(m*K)	0.046
Thermal conductivity (600°C)	W/(m*K)	0.108
Thickness	mm	3 / 5 / 10 / 20
Roll width	m	1.5
Roll size (10 mm thickness)	m²	30
Density	kg/m³	160
Operating temperature	°C	-196 to 650
Density	kg/m³	161
Hydrophobic	---	Yes
Fire class (ASTM E84)	---	FSI <= 5, SDI <= 10
Fire class (EN 13501)	---	A1
Linear shrinkage under soaking heat (ASTM C356)	---	<= 2% @650°C
Water vapor sorption (ASTM C1104/1104M)	---	<= 5 wt.-%



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European Technical Assessment Body for construction products



European Technical Assessment

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