Oryza BGT - Aerogel super insulation



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Product advantages

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

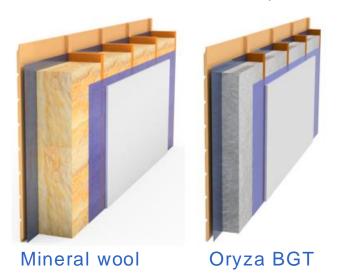
PRODUCT DATA SHEET

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% reduction of wall thickness, or more



Applications

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

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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 DEWorldwide first carbonreinforced 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)	m ²	30
Density	kg/m ³	160
Operating temperature	°C	-196 to 650
Compressive Strength, 10%	KPa	>20,7
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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