

FOAMGLAS®   

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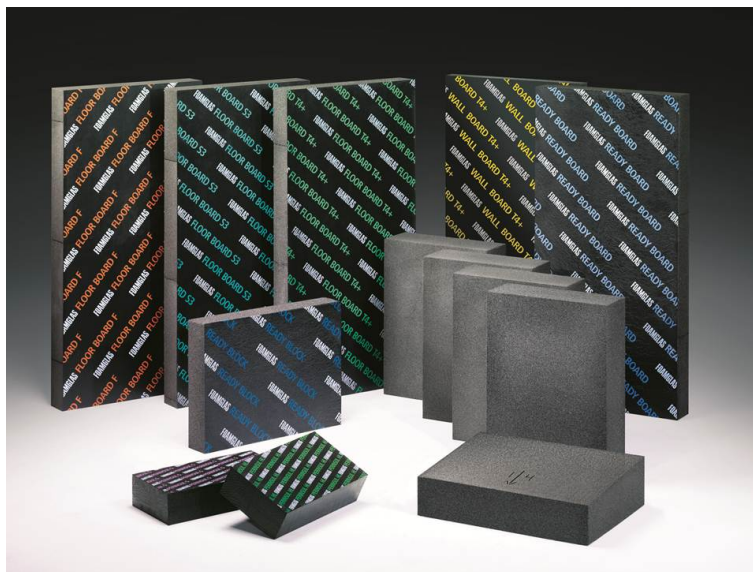
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FOAMGLAS
Building

CPD Overview

FOAMGLAS® cellular glass insulation, manufactured by Pittsburgh Corning since 1937, offers a wide variety of system solutions for the whole building envelope. FOAMGLAS® insulation is totally impervious to moisture, non-combustible, load-bearing and dimensionally stable.



Available CPD Material (9)



Cellular Glass - Insulating the Whole Building

This seminar provides an understanding how cellular glass insulation is manufactured, the features and benefits of an hermetically sealed glass wall cell structure.

- Sustainability and environmental issues; use of post-consumer waste / abundant natural raw materials.
- Building physics; how insulation materials react to moisture, fire, point loading, changes in temperature, resistance to attack.
- Building regulations Part L – Eliminating thermal bridging in foundations and wall / floor junctions.
- The Compact Roof – Standing Seam and flat roofs
- Facades
- Interiors and refurbishment
- Case studies
- Below ground – Foundations,
- Technical support services.
- Questions

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**
Legal, regulatory and statutory compliance
Sustainable architecture

Knowledge level: General Awareness



Building Applications Using Cellular Glass Non-Combustible Insulation

This seminar is about the design and specification of cellular glass insulation to reduce fire risk. It will help you to understand the following topics:

- Building physics and how cellular glass performs
- The material properties of cellular glass
- Combustibility and fire load issues for the building envelope
- About insulation specification for roofs, facades, internal walls and soffits

Material type: Seminar

RIBA Core Curriculum: **Design, construction and technology**
Health, safety and wellbeing

Knowledge level: General Awareness



Reducing Thermal Bridging

Understanding how cellular glass insulation is manufactured, the features and benefits of an hermetically sealed glass wall cell structure.

- Sustainability and environmental issues; use of post-consumer waste / abundant natural raw materials.
- Building physics; how insulation materials react to moisture, fire, point loading, changes in temperature, resistance to attack.
- What is Thermal Bridging and why it is an issue
- Solutions to Reducing Thermal Bridging using cellular glass insulation
- Technical support services

Material type: Seminar

RIBA Core Curriculum: **Design, construction and technology**
Sustainable architecture

Knowledge level: General Awareness



Cellular Glass Insulation for Load Bearing Conditions

Understanding how cellular glass insulation is manufactured, the features and benefits of an hermetically sealed glass wall cell structure.

- Sustainability and environmental issues; use of post-consumer waste / abundant natural raw materials.
- Building physics; how insulation materials react to moisture, fire, point loading, changes in temperature, resistance to attack.
- Code of practice – BS 8102
- Design solutions – One material
- Technical support services

Material type: Seminar

RIBA Core Curriculum: **Design, construction and technology**
Sustainable architecture

Knowledge level: General Awareness



Cellular Glass Insulation - Insulating Underground Structures

This seminar aims to cover:

- How cellular glass is manufactured
- The features and benefits of a hermetically sealed glass wall cell structure
- Sustainability and environmental issues, use of post consumer waste/abundant natural raw materials
- Building physics; how insulation materials react to moisture, point loading, changes in temperature, resistance to attack
- Thermal bridging

Material type: Seminar

RIBA Core Curriculum: **Design, construction and technology**
Sustainable architecture

Knowledge level: General Awareness



Cellular Glass Insulation – Metal Roofs and Facades

This seminar aims to cover:

- Understanding how cellular glass insulation is manufactured, the features and benefits of an hermetically sealed glass wall cell structure.
- Sustainability and environmental issues; use of post-consumer waste / abundant natural raw materials.
- Building physics; how insulation materials react to moisture, fire, point loading, changes in temperature, resistance to attack.
- Solutions for various roofing substrates and the solution for standing seam roofs
- Standing seam system solutions
- Façade design solutions, case study and fire considerations for facades.
- Technical support services

Material type: Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness



Cellular Glass Insulation: For Floors, Walls and Soffits

- Understanding how cellular glass insulation is manufactured, the features and benefits of an hermetically sealed glass wall structure
- Sustainability and environmental issues; use of post-consumer waste/abundant natural raw materials
 - Building physics; how insulation materials react to moisture, fire, point loading, changes in temperature, resistance to attack, compressive strength
 - Assessment of different internal humidity rooms, from hot, humid to traditional normal construction
 - Different internal finishes blending with good design
 - Internal floor finishes, their aesthetics and loading expectations
 - Basement design, applications and resistance to water ingress and flooding

Material type:

Seminar

RIBA Core Curriculum:

Design, construction and technology
Sustainable architecture

Knowledge level:

General Awareness



Accessible Roofs for Walkways, Vehicles and Public Places

- Understanding how cellular glass insulation is manufactured, the features and benefits of an hermetically sealed glass wall cell structure
- Sustainability and environmental issues; use of post-consumer waste/abundant natural raw materials
 - Building physics; how insulation materials react to moisture, fire, point loading, changes in temperature, resistance to attack, compressive strength
 - Flat roofing standards, comparing data and evaluation of major considerations
 - Good flat roof design and drainage. tapered insulation design, good water management
 - Hot and cold application systems, specifications, site support, thermal and condensation calculations

Material type:

Seminar

RIBA Core Curriculum:

Design, construction and technology
Sustainable architecture

Knowledge level:

General Awareness



Cellular Glass Insulation: Reducing Risk by Design

This seminar aims to cover:

- Understanding how cellular glass insulation is manufactured, the features and benefits of an hermetically sealed glass wall cell structure.
- Sustainability and environmental issues; use of post-consumer waste / abundant natural raw materials.
- Building physics; how insulation materials react to moisture, fire, point loading, changes in temperature, resistance to attack.
- Building regulations Part L – Eliminating thermal bridging in foundations and wall / floor junctions.
- The Regulatory Reform (Fire Safety) Order 2005.
- Effective solutions to construction problems – examples of cellular glass insulation to address building physics in “high risk” applications.
- Technical support services.

Material type:

Seminar

RIBA Core Curriculum:

Design, construction and technology
Health, safety and wellbeing
Legal, regulatory and statutory compliance
Sustainable architecture

Knowledge level:

General Awareness

Classifications

Subject/Product Areas (CI/SfB)

Structure

External walls > Cavity wall insulation

Floors, including beams > Floor insulation

Roofs, including beams > Roof space insulation

Finishes

Wall finishes: internal > Composite wall lining systems

Wall finishes: external > External insulation of external walls

Roof finishes > Roof finish underlays and insulation

RIBA Core Curriculum areas

Design, construction and technology

Knowledge level: *General Awareness*

Legal, regulatory and statutory compliance

Knowledge level: *General Awareness*

Sustainable architecture

Knowledge level: *General Awareness*

Health, safety and wellbeing

Knowledge level: *General Awareness*