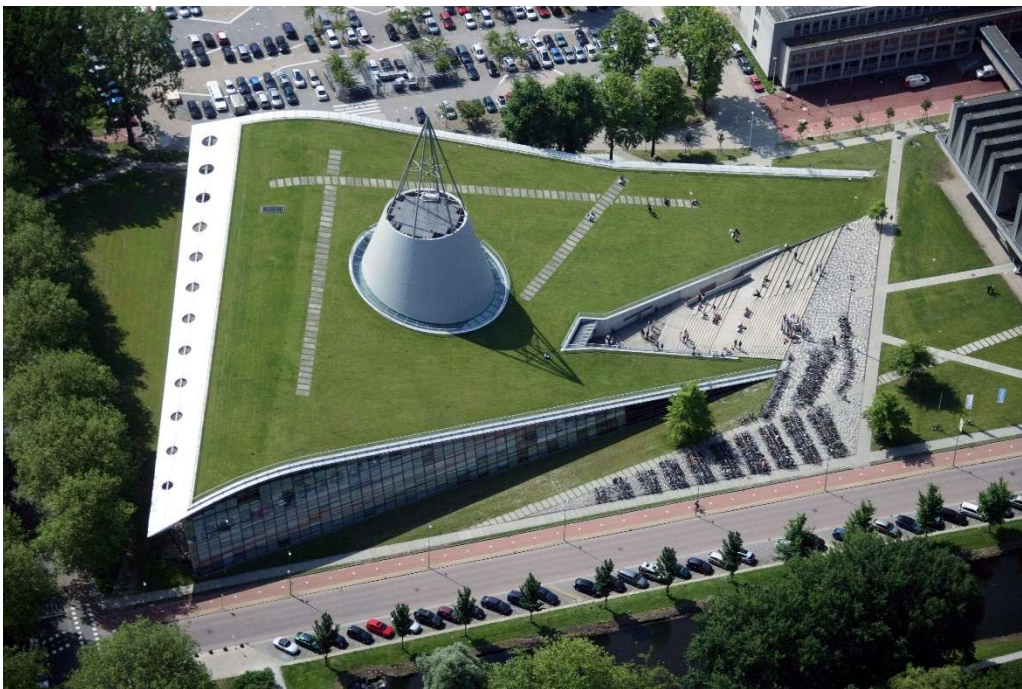


FOAMGLAS® products in BREEAM certification

**BREEAM New Construction 2016 and Version 6 (NC) &
Non-domestic Refurbishment 2015 (RFO) material
requirements – Appendix 1**

BREEAM®  **FOAMGLAS®**



26.08.2022

PREFACE

This document is an assessment of the compliance of FOAMGLAS® products with BREEAM environmental rating system requirements. The aim is to present the environmental qualities of FOAMGLAS products as well as highlight the essential FOAMGLAS® sustainable best practices. The features have been presented in a way that contributes to meeting the requirements of global environmental certifications.

This document applies to following FOAMGLAS products produced in Tessenderlo, Belgium and Klasterec, Czech Republic.

- T3+
- T4+
- S3
- F

The following environmental rating systems for buildings are assessed:

- BREEAM International New Construction 2016 (NC 2016)
- BREEAM International New Construction Version 6 (NC v6)
- BREEAM International Refurbishment and Fit-Out 2015 (RFO 2015)



The document focuses on providing detailed information on credits that need documentation.

All the necessary approvals and certificates can be found on the website www.foamglas.com or be provided upon request via the local customer service team.

BREEAM New Construction 2016 & v6

Credit	FOAMGLAS® contribution	Credit requirements
MAT 01 Lice Cycle Impacts	FOAMGLAS® products have EPDs as per ISO 14025 and EN 15804.	1 credit requires four other products with EPD from different manufacturers. 1 exemplary credit requires 9 other products with EPD from different manufacturers.
MAT 03 Responsible Sourcing of Materials	FOAMGLAS® have ISO 14001- and 9001 - certifications for their products. ISO 14001 is the minimum requirement for MAT 03.	1-3 credits (+ 1 exemplary credit) Achieve ≥ 10 % responsible sourcing points in NC 2016. ISO 14001 is the min. requirement for the products. ≥ 10 % will be achieved when all timber is responsibly sourced and 80 % of the products in the three product groups have been procured responsibly. This is a requirement for one credit. Additional 1-2 points or exemplary credit can be awarded if ≥ 20 % or 36 % or 52 % responsible sourcing points are achieved. FOAMGLAS® products belong to product group "Glass".
MAT 06 Material efficiency	FOAMGLAS® insulation solutions are good choice in terms of material efficiency, thanks to their recyclability and content of recycled materials.	1 credit Requires meetings with design team and developer. Meetings' aim is to identify opportunities to material efficient construction and design. FOAMGLAS® insulation products are a good choice to take into consideration in material efficiency meetings.
WST 01 Construction Waste Management	FOAMGLAS® products are recyclable and can help the constructor to meet their recycling targets. FOAMGLAS® insulation products fulfil the criterion for the key waste group "insulation".	2 credits if criteria 9-11 is achieved. FOAMGLAS® contributes to criterion 10. Construction site or demolition waste must be separated into at least five key waste groups. Insulation products are considered as one of these key groups. Actual points are awarded based on the final recycling rate of

		all waste accumulated on-site during the construction or demolition process.
HEA 02 Indoor Air Quality	FOAMGLAS® products have the Natureplus classification which is compliant with the credit requirement. Natureplus also meets the exemplary level requirement.	1 credit requires that Indoor air quality plan has been done and at least four product types meet the emission limits. 1 exemplary credit requires that first credit requirements are met and at least four product types meet the stricter emission limits.
HEA 04 Thermal comfort	FOAMGLAS® products can be used as a part of building envelope, which influences the thermal conditions of the building, and therefore effect on the credit calculations.	1 credit requires thermal modelling. FOAMGLAS® products can influence the thermal conditions.
HEA 05 Acoustic performance	FOAMGLAS® products can also be used as an acoustic insulation material.	1 credit requires hiring an acoustic and to follow acoustic performance standards.
ENE 01 Reduction of energy use and carbon emissions	FOAMGLAS® products can be used as a part of building envelope, which influences the thermal conditions of the building, and therefore effect on the credit calculations.	1 credit ENE 01 criterion is split into several parts. Criterion requires, for instance, energy performance calculations.
ENE 04 Low Carbon Design	FOAMGLAS® have several products for thermal insulation. Their products can improve passive ways to decrease building's energy demand by accomplishing the requirement of passive design.	1 credit requires that criteria 1-3 is achieved. FOAMGLAS® products contributes to criterion 3.
ENE 05 Energy efficient cold storage	FOAMGLAS® have several products for thermal insulation. Their products can improve energy efficiency of cold storage.	1 credit One credit consists of several parts. FOAMGLAS® products can help to minimize

		heat loads because of their thermal insulation features.
LE 04 Land use and ecology	FOAMGLAS® products have loadbearing properties as well as fully waterproof behavior. FOAMGLAS® products can be used a part of the green roof system to enhance site's ecology.	1 credit requires ecologist's report and recommendations. When an ecologist proposes a green roof system to a site, FOAMGLAS® products can be used.

BREEAM Non-Domestic Refurbishment 2015

Credit	FOAMGLAS® contribution	Credits
MAT 01 Life Cycle Impacts	FOAMGLAS® products have EPDs as per ISO 14025 and EN 15804.	1 credit requires four other products with EPD from different manufacturers. 1 exemplary credit requires 9 other products with EPD from different manufacturers.
MAT 03 Responsible Sourcing of Materials	FOAMGLAS® have ISO 14001- and 9001 - certifications for their products. ISO 14001 is the minimum requirement for MAT 03.	1–3 credits (+ 1 exemplary credit) Achieve min. ≥ 18 % responsible sourcing points. ISO 14001 is the minimum requirement. ≥ 18 % achieved when all the timber is responsibly sourced and 80 % of the products in 3 product groups have been procured responsibly. Additional 1-2 points or exemplary credit can be awarded if ≥ 36 % or 54 % or 70 % responsible sourcing points are achieved. FOAMGLAS® products belong to product group "Glass".
MAT 06 Material efficiency	FOAMGLAS® insulation solutions are good choice in terms of material efficiency, thanks to their recyclability and content of recycled materials.	1 credit Requires meetings with design team and developer. Meetings' aim is to identify opportunities to material efficient construction and design. FOAMGLAS® insulation products are a good choice to take

		into consideration in material efficiency meetings.
WST 01 Construction Waste Management	FOAMGLAS® products are recyclable and can help the constructor to meet their recycling targets. FOAMGLAS® insulation products fulfill the criterion for the key waste group "insulation".	<p>1 credit if criteria 9–11 is achieved. FOAMGLAS® contributes to criterion 10.</p> <p>Construction site or demolition waste must be separated into at least 5 key waste groups. Insulation products are considered as one of these key groups.</p> <p>Points are awarded based on the final recycling rate of all waste accumulated on-site during the construction or demolition process.</p>
HEA 02 Indoor Air Quality	FOAMGLAS® products have the Natureplus certification which is compliant with the credit requirement. Natureplus also meets the exemplary level requirement.	<p>1-2 exemplary credits requires that criterion 8 is achieved and 7 tabulated product groups meet the emission level requirements. Product groups' product can contain max. 0,06 mg/m³ B-F formaldehyde.</p> <p>2 credits are achieved when the content is max. 0,01 mg/m³.</p>
HEA 04 Thermal comfort	FOAMGLAS® products can be used as a part of building envelope, which influences the thermal conditions of the building, and therefore effect on the credit calculations.	<p>1 credit requires thermal modelling. FOAMGLAS® products can influence the thermal conditions.</p>
HEA 05 Acoustic performance	FOAMGLAS® products can also be used as an acoustic insulation material.	<p>1 credit requires hiring an acoustic and to follow acoustic performance standards.</p>
ENE 01 Reduction of energy use and carbon emissions	FOAMGLAS® products can be used as a part of building envelope, which influences the thermal conditions of the building, and therefore effect on the credit calculations.	<p>1 credit</p> <p>ENE 01 criterion is split into several parts. One of the parts is elemental level energy model category, where FOAMGLAS® products can contribute on.</p>

<p>ENE 04 Low Carbon Design</p>	<p>FOAMGLAS® have several products for thermal insulation. Their products can improve passive ways to decrease building's energy demand by accomplishing the requirement of passive design.</p>	<p>1 credit requires that criteria 1-3 is achieved. FOAMGLAS® products contributes to criterion 3.</p>
<p>ENE 05 Energy efficient cold storage</p>	<p>FOAMGLAS® have several products for thermal insulation. Their products can improve energy efficiency of cold storage.</p>	<p>1 credit</p> <p>One credit consists of several parts. FOAMGLAS® products can help to minimize heat loads because of their thermal insulation features.</p>
<p>LE 04 Land use and ecology</p>	<p>FOAMGLAS® products have loadbearing properties as well as fully waterproof behavior. FOAMGLAS® products can be used a part of the green roof system to enhance site's ecology.</p>	<p>1 credit requires ecologist's report and recommendations. When an ecologist proposes a green roof system to a site, FOAMGLAS® products can be used.</p>