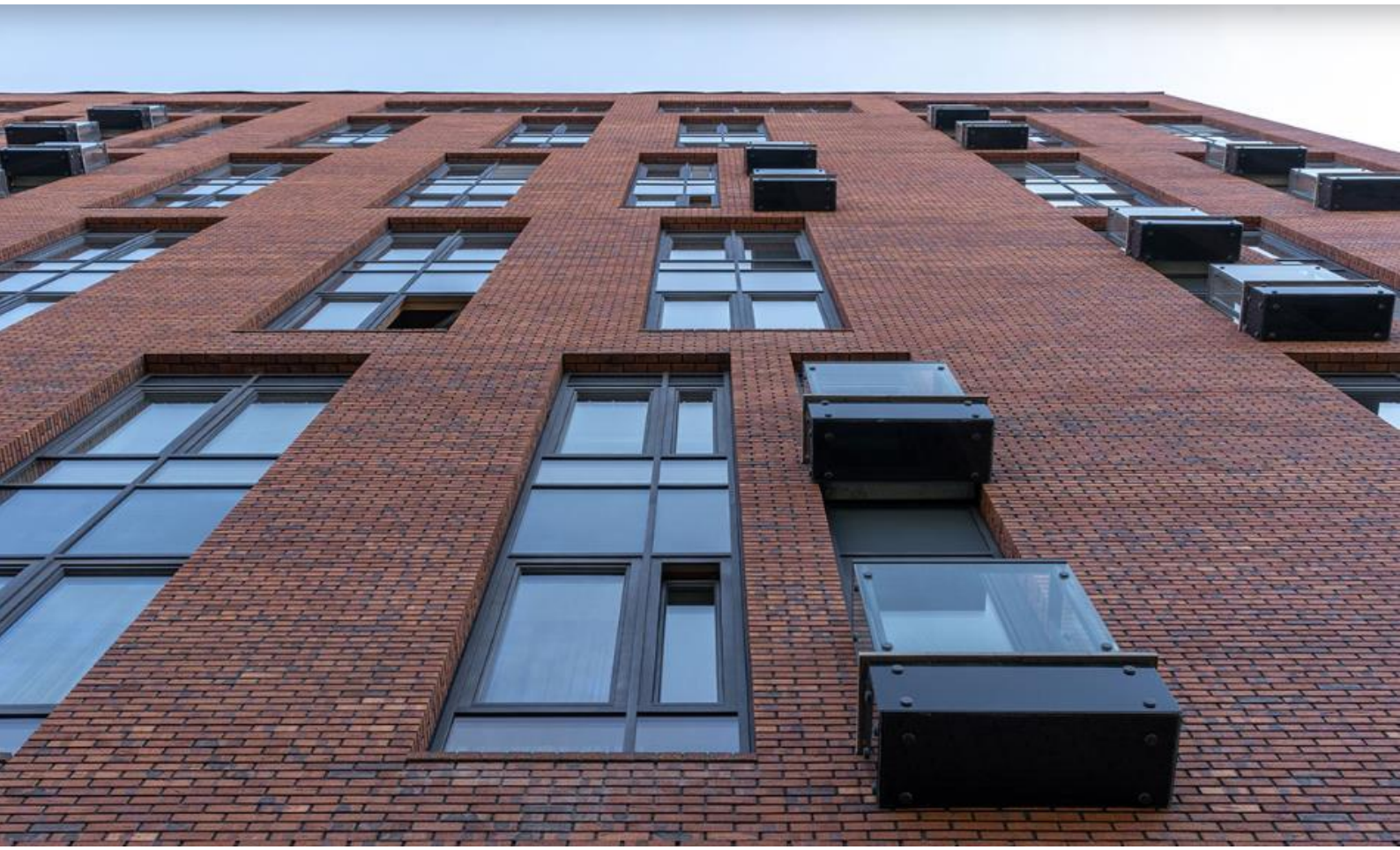
econ BUILDING PRODUCTS

BASF DISTRIBUTOR
CONSTRUCTION SECTOR UK & IRELAND

FIRETITE



BREEAM UK NC V6

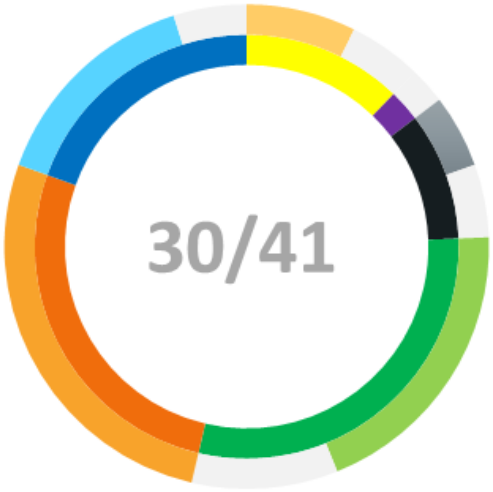
BREEAM GOAL AND CREDIT CONTRIBUTION

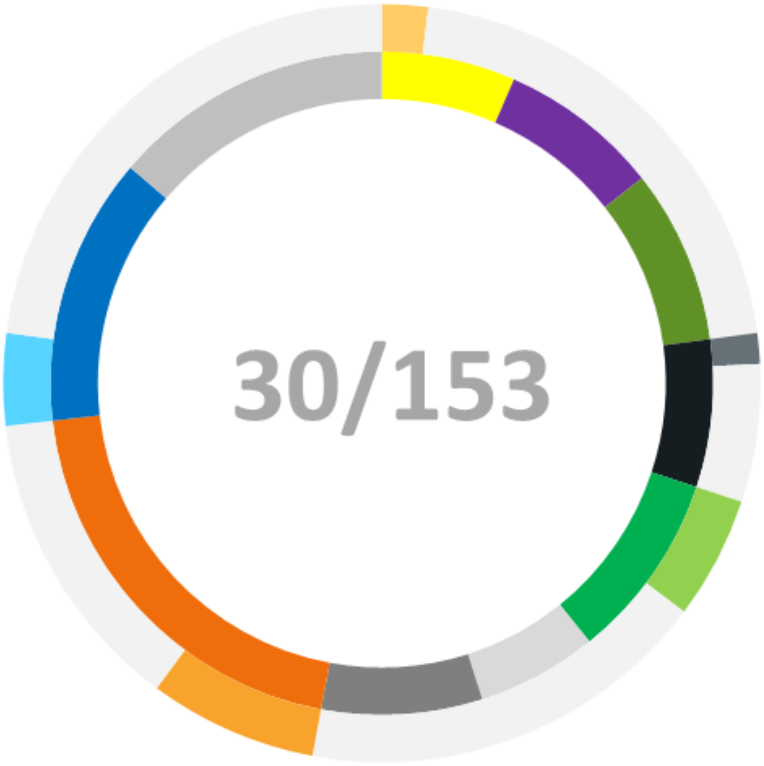
FIRETITE

BREEAM GOAL AND CREDIT CONTRIBUTION

The assumptions are made based **on BREEAM UK NC Version 6.0** scheme, for a fully fitted building. There is a degree of variability depending on function and scope.

ECON FIRETITE is designed for resilience and durability, is weather resistant and is manufactured using the minimum number of materials and energy usage.





ECON – FIRETITE

Influences on achieving 23% of a maximum 32% max potential percentages attained by an insulation material.

30 credits = 23%

41 credits = 32%

153 credits = 110%

BREEAM UK NC V6 categories

21 Management

20 Health and Wellbeing + hazards

31 Energy

12 Transport

9 Water

14 Materials

11 Waste

13 Land use and Ecology

12 Pollution

10 Innovation

Insulation Material potential score

Can contribute to obtain BREEAM UK NC V6 credits in the categories of:

8 Health and Wellbeing

11 Energy

12 Materials

4 Waste

1 Pollution

5 Innovation

ECON - FIRETITE

Can contribute to obtain BREEAM UK NC V6 credits in the categories of:

6 Health and Wellbeing

11 Energy

8 Materials

2 Waste

3 Innovation

FIRETITE

BREEAM PERFORMANCE

The BREEAM certification refers to the certification of the building. It does not evaluate the material, which is why the material has a contribution to the points but the material as such will not guarantee the scoring of the credits. As an example, to obtain the credits related to the GWP, BREEAM requires to have an EPD.

FIRETITE has an EPD so it could contribute to obtaining these.

HEA 02		HEA 05		HEA 04	
3	Higher Internal air quality through lower VOC emissions.	**2**	Contributes to improved performance regarding airborne and impact sound insulation values.	**1**	Contributes to improved thermal conductivity.
Low VOC emissions		Contributes to the effective acoustic design of buildings.		FIRETITE contributes to the overall thermal comfort of the building	

ENE 01 Opt. 1		ENE 04		ENE 05	
9+2	Contributes to lower energy consumption through improved	**1**	ECON FIRETITE can contribute to high insulation efficiency in the design options.	**1**	ECON FIRETITE can contribute to high insulation efficiency in the design options.
Lower Global Warming Potential (kg CO2eq.)		Minimizes heat loads and carbon emissions through design.		Minimizes heat loads and carbon emissions through design.	

MAT 01		MAT 02		MAT 05	
6	Production waste is captured and reused.	**1**	Environmental Product Declaration	**1**	ECON FIRETITE has a 50 year + lifespan.
Lower Global Warming Potential (kg CO2eq.)		EPD following EN15804		Durability Class Category A (EN12467).	

WST 01		WST 05	
1+1	Contributes to diversion from landfill.	**1**	ECON FIRETITE can contribute to high insulation efficiency in the design options.
No hazardous waste and easy reuse as crushed aggregates.		No hazardous waste	

FIRETITE

BREEAM UK New Construction V6	Criteria	Credits	Evidence - Products contribution
Health and Well Being			
HEA02 Indoor air quality – Emissions from construction products	Emissions from building products: insulation materials are 1 of the 5 to meet the emission limits: Formaldehyde ⩽ 0.06 mg/m³ . Total VOC ⩽1.0 mg/m³ . Carcinogens cat. 1A + B ⩽ 0.001 mg/m³ following	2/2	ECON FIRETITE has an EC1 plus certification, showing compliance with the requirements.
Post-construction indoor air quality measurement	Post-construction indoor air quality measurement: thresholds for averaged formaldehyde concentration level ⩽ 100µg/m³ over 30 minutes and averaged TVOC⩽ 500µg/m³ over 8 hours	1/1	ECON FIRETITE has < 3µg/m³ added formaldehyde helping to stay at an exceptionally low concentration level.
HEA04 Thermal comfort - Design for future thermal comfort	Thermal comfort levels are achieved through design, and controls are selected to maintain a thermally comfortable environment for occupants.	1/1	The thermal insulation level of ECON FIRETITE contributes to the comfort level of the building.
HEA05 Acoustic performance	Building's acoustic performance, including sound insulation, meets the appropriate standards for its purpose.	2/2	ECON FIRETITE reduces background noise through increased sound insulation of building envelope, partitions, ceilings, and aid in controlling reverberation time.
Energy			
ENE01 Reduction of Energy Use and Carbon Emissions	To recognize and encourage buildings designed to minimize operational energy demand, primary energy consumption and CO2 emissions.	9/9	ECON FIRETITE helps reducing operational energy demand, primary energy consumption and CO2 emissions through improving energy building performance (e.g., U-value).
ENE04 Low Carbon Design - Passive design analysis	Adoption of design measures, which reduce building energy consumption and associated carbon emissions and minimize reliance on active building services systems.	1/1	ECON FIRETITE contributes to implement passive design solutions that reduce building energy demand and associated carbon emissions.
ENE05 Energy Efficiency Cold Storage	To encourage the installation of energy efficient refrigeration systems, therefore reducing operational greenhouse gas emissions. The building has been designed to minimize heat loads through high levels of insulation.	1 /1	ECON FIRETITE can contribute to high insulation efficiency in the design options.
Materials			
MAT01 Environmental impacts from construction products – Building life cycle assessment (LCA)	Use of robust and appropriate life cycle assessment tools and specification of construction materials with a low environmental impact over the full life cycle of the building.	6 /6	ECON FIRETITE has a third party verified EPD, done against EN 15804, showing a lower GWP compared to comparable products in the market.

BREEAM UK New Construction V6	Criteria	Credits	Evidence - Products contribution
Materials			
MAT02 Environmental impacts from construction products – Environmental Product Declarations (EPD)	Availability of robust and comparable data on the impacts of construction products through the provision of EPD.	1/1	ECON FIRETITE has a third party verified EPD, done against EN 15804 which contributes to reach the target of 20 points in products with EPDs.
MAT03 Responsible sourcing of construction products - Measuring responsible sourcing	Availability of Responsible Sourcing Certification Scheme.	0/3	ECON FIRETITE does not have a RSCS
MAT05 Designing for durability and resilience	To reduce the need to repair and replace materials resulting from damage to exposed elements of the building and landscape.	1/1	ECON FIRETITE as a life span if the building and is not exposed to the external elements.
Waste			
WST01 Construction waste management - Diversion of resources from landfill	To promote resource efficiency via the effective and appropriate management of construction waste.	1/1	ECON FIRETITE can be fully reused as crashed aggregate contributing for high levels of diversion from landfill.
WST05 Adaptation to climate change	Minimize the future need of conducting works to adapt the building to take account of more extreme weather changes resulting from climate change and changing weather patterns.	2/2	ECON FIRETITE contributes to thermal comfort helping on risk management of heat waves, warmer summers, increased solar radiation.
Pollution			
POL05 Reduction of noise pollution	To reduce the noise arising from fixed installations affecting nearby noise-sensitive buildings.	0/1	ECON FIRETITE is not used in light weight construction.
Innovation – Exemplary Credits			
INN 01 HEA02 Indoor air quality - Emissions from construction products	Emissions from building products: insulation materials are one of the 5 to meet the emission limits: Formaldehyde $\leqslant$ 0.01 mg/m^3 . Total VOC $\leqslant$0.3 mg/m^3 . Carcinogens cat. 1A + B $\leqslant$ 0.001 mg/m^3 following.	0/1	ECON FIRETITE has an EC1 plus certification, but the requirements are not as demanding as for an exemplary credit under BREEAM UK NC V6.
INN 02 ENE01 Reduction of Energy Use and Carbon Emissions	To recognize and encourage buildings designed to minimize operational energy demand, primary energy consumption and CO2 emissions.	2/2	ECON FIRETITE help reducing oper. energy demand, primary energy cons. and CO2 emissions through improving energy building performance
INN 03 MAT03 Responsible sourcing of construction products - Measuring responsible sourcing	Availability of Responsible Sourcing Certification Scheme – reach 50% of materials.	0/1	ECON FIRETITE does not have a RSCS
INN 04 WST01 Construction waste management	To promote resource efficiency via the effective and appropriate management of construction waste.	1/1	ECON FIRETITE can be fully reused as crashed aggregate contributing for high levels of deviation from landfill.

Supporting HEA02 and INN01 credits:

Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.
Association for the Control of Emissions from Products for Flooring Installation, Adhesives and Building Materials

GEV EMICODE

Awarding of licence for the use of EMICODE

Licence Number:	13420/06.02.19
For the product	FIRETITE™
Due to application date	April 28, 2021

With reference to the classification in accordance with the directives as stipulated in § 10 of the GEV trademark constitution

on behalf of the GEV for the above mentioned product as per § 5, section 4 of the GEV trademark constitution is awarded the licence for the use of the GEV trademark

GEV-EMICODE EC 1 PLUS very low emission

This product meets with the guidelines for the criteria of use listed reverse.
The company is ordinary member of the GEV.

OM 166 April 29, 2021
valid until April 29, 2026

The Secretary General
Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials (GEV)
Völklinger Straße 4 - D-40219 Düsseldorf

FIRETITE

Supporting MAT05 credits:

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+44 (0)1332 383333
uk.bpenquiries@kiwa.com
www.kiwa.co.uk/bda

BAW-21-227-S-A-UK
BDA Agrément®
FIRETITE
Cavity Wall Insulation (Injected Foam)

ECON Polyurethane Ltd.
Letraset Building, Wotton Road
Kingsnorth Industrial Estate
Ashford, Kent
TN23 6LN
+44 (0)1233 229500
info@econ-pu.com
www.econ-pu.com

SCOPE OF AGRÉMENT

This BDA Agrément® (hereinafter 'Agrément') relates to FIRETITE (hereinafter the 'System'), an in-situ injected thermal insulation system which contributes to the airtightness and watertightness of external masonry cavity walls (where masonry includes clay and calcium silicate bricks, concrete blocks, and natural and reconstituted stone blocks). The System is for use in existing and new dwellings, and buildings other than dwellings up to and including 12 m in height with cavity widths between 40 mm and 150 mm. The System may also be used in walls above 12 m in height, where the building has been assessed as suitable by the Agrément holder.

DESCRIPTION

The System consists of three aqueous components (see Section 2.1.1) that are mixed to a defined ratio with pressurised air to create a grey, mineral-based foam, in accordance with the requirements of EAD 041561-00-1201. To form a thermal insulation layer, this foam is injected into a cavity wall through a series of holes, drilled in a predetermined pattern, until the cavity is fully filled.

ILLUSTRATION

THIRD-PARTY ACCEPTANCE

None requested by the Agrément holder.

STATEMENT

It is the opinion of Kiwa Ltd. that the System is safe and fit for its intended use, provided it is specified, installed and used in accordance with this Agrément.

Craig Devine
Operations Manager, Building Products

Alpheo Miotha CEng FIMMM MBA
Head of Operations, Building Products

econ BUILDING PRODUCTS

FIRETITE

Supporting HEA04, HEA05, ENE01, ENE04, ENE05, MAT01, MAT02, WST01 WST05, INN02 and INN02 credits:

ENVIRONMENTAL PRODUCT DECLARATION

as per *ISO 14025* and *EN 15804+A1*

Owner of the Declaration	BASF SE
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-BAS-20180124-IBA1-EN
Issue date	09.03.2020
Valid to	05.03.2024

Cavipor® FTX 1

BASF SE

Institut Bauen und Umwelt e.V.

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BASF We create chemistry