

Product Verification

Sustainability

according to BREEAM International New Construction 2016

Product Systems

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT

NMC S.A.

CLIMAFLEX® STABIL: pipe insulation with a robust protective coating, likewise on the basis of NMC Naturefoam® polyethylene which contains at least 50 % of renewable raw materials; wall thicknesses 4, 9, 13, 20 & 25 mm, Euroclass E

EXZENTROFLEX® COMPACT: excentric insulation with a robust protective coating for the lowest installation height and even tighter pipe laying; insulating thicknesses 9, 25, 38 & 46 mm, Euroclass E



Product Assessment

Health and wellbeing

Criteria

Product Verification

Hea 02 Indoor air quality (GN22 V2.0 April 2016)	Yes
Hea 02 Indoor air quality - Exemplary Level (GN22 V2.0 April 2016)	Yes

Materials

Criteria

Product Verification

Mat 03 Responsible sourcing of construction products (GN18 V3.1 January 2018)

RSCS level 0

Legend: yes = Product contributes toward satisfying the credit, N/A = Product not relevant in the credit, no = Credit requirements are not proven

■ Summary

The product contributes to the certification:

- The entire product complies with Hea 02 Indoor air quality: Yes
- The entire product complies with Hea 02 Indoor air quality - Exemplary Level: Yes
- Achieved RSCS summary score level in Mat 03 Responsible sourcing of construction products for the entire product: RSCS level 0

■ Ecolabels & Product-Assessments

EPD Eco Platform

EPD Institut Bauen und Umwelt e.V.



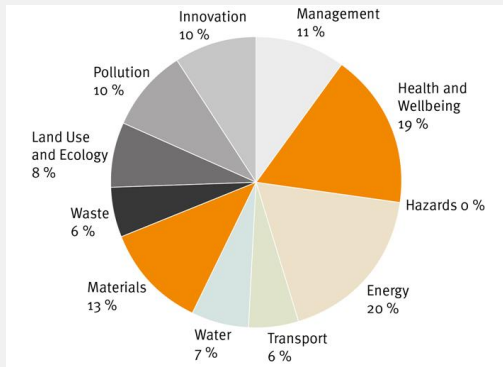
■ Green Building Certification System

The BREEAM (British Research Establishment Environmental Assessment Method) certification system was published by the Building Research Establishment (BRE). It came on the market in 1990 and was one of the first certification systems for buildings. BREEAM offers different standards, which vary in the requirements, depending on the country, type of use and development phase of the project (new construction, in-use, refurbishment and fit-out, infrastructure and communities). Within ten environmental categories and numerous individual credits, buildings are rated and can be rated as Acceptable (for in-use scheme only), Pass, Good, Very Good, Excellent and Outstanding. Up to now, more than 16,300 BREEAM projects have been certified worldwide (as of April 2018).

Source: www.breeam.com

■ Certification System and Categories

Category Weighting



Category

Category considered in product verification

Management (Man)	No
Health and wellbeing (Hea)	Yes
Energy (Ene)	No
Transport (Tra)	No
Water (Wat)	No
Materials (Mat)	No
Waste (Wst)	Yes
Land use and ecology (LE)	No
Pollution (Pol)	No
Innovation (Inn)	No

Source: BREEAM International NC 2016 - Non-residential - Fully Fitted (TM 2.0)



Detailed Verification

according to BREEAM International New Construction 2016

Health and wellbeing

Hea 02 Indoor air quality (GN22 V2.0 April 2016)

The entire product complies with Hea 02 Indoor air quality:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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The product complies with Hea 02 Indoor air quality:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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Ceiling, wall, and acoustic and thermal insulation materials

The entire product complies with Hea 02 Indoor air quality for ceiling, wall and acoustic and thermal insulation materials:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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The product complies with Hea 02 Indoor air quality for ceiling, wall and acoustic and thermal insulation materials:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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The product is a ceiling, wall, acoustic or thermal insulation material:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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The application of the product is inside a building:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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Formaldehyde after 28 days $\leq 0.06 \text{ mg/m}^3$:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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Formaldehyde after 28 days:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	$< 0.003 \text{ mg/m}^3$
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TVOC after 28 days $\leq 1.0 \text{ mg/m}^3$:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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TVOC after 28 days:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	$< 0.005 \text{ mg/m}^3$
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Category 1A and 1B carcinogens after 28 days $\leq 0.001 \text{ mg/m}^3$:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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Category 1A and 1B carcinogens after 28 days:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	< 0.001 mg/m ³
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Certified with eco-INSTITUT-Label:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	No
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Certified with UL Greenguard Gold:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	No
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Certified with UL Greenguard:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	No
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GREENGUARD certification confirms that there are no measured carcinogens:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	No
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Certified with Indoor Air Comfort:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	No
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Certified with Indoor Air Comfort Gold:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	No
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Certified with M1 Emission Classification of Building Materials:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	No
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■ Hea 02 Indoor air quality – Exemplary Level (GN22 V2.0 April 2016)

The entire product complies with Hea 02 Indoor air quality - Exemplary Level:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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The product complies with Hea 02 Indoor air quality - Exemplary Level:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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Ceiling, wall, and acoustic and thermal insulation materials - Exemplary Level

The entire product complies with Hea 02 Indoor air quality - Exemplary Level for ceiling, wall and acoustic and thermal insulation materials:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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The product complies with Hea 02 Indoor air quality - Exemplary Level for ceiling, wall and acoustic and thermal insulation materials:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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The product is a ceiling, wall, acoustic or thermal insulation material:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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The application of the product is inside a building:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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Formaldehyde after 28 days $\leq 0.01 \text{ mg/m}^3$:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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Formaldehyde after 28 days:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	$< 0.003 \text{ mg/m}^3$
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TVOC after 28 days $\leq 0.3 \text{ mg/m}^3$:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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TVOC after 28 days:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	$< 0.005 \text{ mg/m}^3$
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TSVOC after 28 days $\leq 0,1 \text{ mg/m}^3$:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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TSVOC after 28 days:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	$< 0.005 \text{ mg/m}^3$
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Category 1A and 1B carcinogens after 28 days $\leq 0.001 \text{ mg/m}^3$:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	Yes
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Category 1A and 1B carcinogens after 28 days:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	$< 0.001 \text{ mg/m}^3$
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Certified with Indoor Air Comfort Gold:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	No
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Materials

Mat 03 Responsible sourcing of construction products (GN18 V3.1 January 2018)

Achieved RSCS summary score level in Mat 03 Responsible sourcing of construction products for the entire product:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	RSCS level 0
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Achieved RSCS score level in Mat 03 Responsible sourcing of construction products for the product:

CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	0
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■ Contact Details Manufacturer

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■ Disclaimer

This verification is the evaluation and ranking of products in terms of the certification system DGNB 2015 (New construction of office buildings). The DGNB (Deutsche Gesellschaft für Nachhaltiges Bauen) generally does not certify products. Therefore the project team or the manufacturer is responsible to declare compliance with respect to the DGNB criteria. Notice: This verification is generated by the Assessment Service of BMS. The distribution or publication by third parties is not permitted. The data sheet is not a DGNB certification document. The information is based on the manufacturer's specifications. Despite a diligent treatment of all information BMS can not make any warranties about the completeness, reliability and accuracy of this information. The requirements of DGNB can be interpreted differently and depend on the project and scope of application. Therefore, BMS cannot accept any liability for the evaluation in terms of the DGNB criteria. The user of the data sheet, the user / purchaser of the product and the consultant / planner, who is advising on this product has the duty to check the product for the intended application at their own responsibility. When a new version of this product verification is produced, the previous version loses its validity.