

Product Verification

Sustainability

according to DGNB Gebäude Neubau 2018

Product Systems

CLIMAFLEX®

NMC S.A.

Pipe insulation made of closed-cell polyethylene foam made of NMC Naturefoam® with at least 50% renewable raw materials

- in proven and established quality for heating and plumbing applications
- Professional insulation and energy saving
- Unique fire performance BLS1do



Product Assessment

Environmental Quality (ENV)

Criteria

Product Verification

ENV 1.1 Life Cycle Assessment of the Building (Updated on: 16.07.2018)	EPD available: Yes
ENV 1.2 Local environmental impact (Updated on: 16.07.2018)	Quality level 3 of 4
ENV 1.3 Sustainable resource extraction (Updated on: 16.07.2018)	N/A

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 product has an Environmental Product Declaration (EPD), which can be used to calculate the building life cycle assessment (ENV1.1/2.1): EPD available: Yes
- Achieved quality level in DGNB 2018 Criteria ENV 1.2 Local environmental impact for the entire product: Quality level 3 of 4

■ Ecolabels & Product-Assessments

EPD Eco Platform

EPD Institut Bauen und Umwelt e.V.



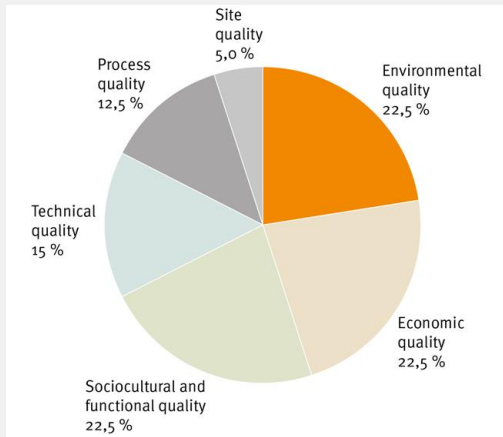
■ Green Building Certification System

The DGNB certification system was founded by the "German Sustainable Building Council" and first appeared on the market in 2008. The DGNB system evaluates buildings holistically on the basis of individual criteria within the categories Ecological Quality, Economic Quality, Sociocultural and Functional Quality, Technical Quality, Process Quality and Location Quality. Different profiles allow the certification of new buildings and existing buildings, as well as of quarters in Germany and Internationally. Buildings can achieve a certification in Bronze, Silver, Gold and Platinum. Up to now, more than 3,500 projects have been awarded by the DGNB (as of June 2018).

Source: www.dgnb.de

■ Certification System and Categories

Category Weighting



Category

Category considered in product verification

Environmental quality (ENV)	Yes
Economic quality (ECO)	No
Sociocultural and functional quality (SOC)	No
Technical quality (TEC)	No
Process quality (PRO)	No
Site quality (SITE)	No

Source: DGNB 2018

Detailed Verification

according to DGNB Gebäude Neubau 2018

■ Environmental Quality (ENV)

■ ENV 1.1 Life Cycle Assessment of the Building (Updated on: 16.07.2018)

The product has an Environmental Product Declaration (EPD), which can be used to calculate the building life cycle assessment (ENV1.1/2.1):

CLIMAFLEX®	EPD available: Yes
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An environmental product declaration exists for the product:

CLIMAFLEX®	Yes
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EPD Owner of the Declaration:

CLIMAFLEX®	NMC S.A.
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EPD Publisher:

CLIMAFLEX®	Institut Bauen und Umwelt e.V. (IBU)
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EPD Programme holder:

CLIMAFLEX®	Institut Bauen und Umwelt e.V. (IBU)
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EPD Declaration number:

CLIMAFLEX®	EPD-NMC-20170078-IBD1-EN
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EPD Issue date:

CLIMAFLEX®	27.04.2017
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EPD valid to:

CLIMAFLEX®	26.04.2022
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■ ENV 1.2 Local environmental impact (Updated on: 16.07.2018)

Achieved quality level in DGNB 2018 Criteria ENV 1.2 Local environmental impact for the entire product:

CLIMAFLEX®	Quality level 3 of 4
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Achieved quality level in DGNB 2018 Criterion ENV 1.2 Local environmental impact:

CLIMAFLEX®	Quality level 3
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Row 35: Plastics for covering surfaces (floor and wall) and components on the façade - Elastic floor coverings are taken into consideration (PVC, rubber etc.), wall coverings, Skylights, plastic windows, soundproofing inserts.

Achieved quality level in DGNB 2018 ENV 1.2 Row 35 for the entire product:

CLIMAFLEX®	Quality level 4
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Achieved quality level in DGNB 2018 ENV 1.2 Row 35:

CLIMAFLEX®	Quality level 4
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The product falls under: Plastics for covering surfaces (floor and wall coverings) and components on the façade (Skylights, plastic windows, soundproofing inserts) (DGNB ENV1.2 Row 35):

CLIMAFLEX®	Yes
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Content of lead < 0.1 %:

CLIMAFLEX®	Yes
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Content of tin < 0.1 %:

CLIMAFLEX®	Yes
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Row 40: Plastic foam insulating materials for buildings and building services PS/XPS/PUR-insulating products, flexible technical building equipment insulation (rubber and PE)

Achieved quality level in DGNB 2018 ENV 1.2 Row 40 for the entire product:

CLIMAFLEX®	Quality level 4
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Achieved quality level in DGNB 2018 ENV 1.2 Row 40:

CLIMAFLEX®	Quality level 4
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The product falls under: Plastic foam insulating materials (PS/XPS/PUR, rubber and PE) (DGNB ENV1.2 Row 40):

CLIMAFLEX®	Yes
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Free from halogenated propellants:

CLIMAFLEX®	Yes
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Row 41: Foam insulating materials (building and building services including heating and cooling surfaces) - PS / XPS, PUR / PIR, Resol boards.

Achieved quality level in DGNB 2018 ENV 1.2 Row 41 for the entire product:

CLIMAFLEX®	Quality level 4
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Achieved quality level in DGNB 2018 ENV 1.2 Row 41:

CLIMAFLEX®	Quality level 4
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The product falls under: Foam insulating materials (PS / XPS, PUR / PIR, Resol boards) (DGNB ENV1.2 Row 41):

CLIMAFLEX®	Yes
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Free of hexabromocyclododecane (= HBCD):

CLIMAFLEX®	Yes
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Row 43: Flame-retardant construction products (products) - Insulation materials of domestic technology and wall coverings (fiberglass wallpaper, non-woven fabric, decorative nonwovens, etc.).

Achieved quality level in DGNB 2018 ENV 1.2 Row 43 for the entire product:

CLIMAFLEX®	Quality level 3
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Achieved quality level in DGNB 2018 ENV 1.2 Row 43:

CLIMAFLEX®	Quality level 3
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The product falls under: Flame-retardant construction products (products) - Insulation materials of domestic technology and wall coverings (fiberglass wallpaper, non-woven fabric, decorative nonwovens, etc.) (DGNB ENV1.2 Row 43):

CLIMAFLEX®	Yes
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Content of chlorinated paraffin (= CP) < 0.1 %:

CLIMAFLEX®	No
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Free of chlorinated paraffins (CP):

CLIMAFLEX®	No
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Content of polybrominated biphenyls (= PBB) < 0.1 %:

CLIMAFLEX®	Yes
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Free of polybrominated biphenyls (= PBB):

CLIMAFLEX®	Yes
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Content of polybrominated diphenyl ethers (= PBDE) < 0,1 %:

CLIMAFLEX®	Yes
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Free of polybrominated diphenyl ethers (= PBDE):

CLIMAFLEX®	Yes
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Content of substances of very high concern (= SVHC) according to REACH < 0.1 %:

CLIMAFLEX®	Yes
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Free of substances of very high concern (= SVHC) according to REACH:

CLIMAFLEX®	Yes
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The product belongs to building material class B1:

CLIMAFLEX®	Yes
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Use of only long-chain chlorinated paraffins (LCCP):

CLIMAFLEX®	Yes
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Row 44: Plastic products - Exterior and roof waterproofing, Wall coverings, Windows, Electric cables: Plastic films, Wall coverings, Wallpapers, Plastic windows, Cable sheathing.

Achieved quality level in DGNB 2018 ENV 1.2 Row 44 for the entire product:

CLIMAFLEX®	Quality level 4
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Achieved quality level in DGNB 2018 ENV 1.2 Row 44:

CLIMAFLEX®	Quality level 4
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The product falls under: Plastic products - Exterior and roof waterproofing, Wall coverings, Windows, Electric cables: Plastic films, Wall coverings, Wallpapers, Plastic windows, Cable sheathing (DGNB ENV1.2 Row 44):

CLIMAFLEX®	Yes
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■ ENV 1.3 Sustainable resource extraction (Updated on: 16.07.2018)

The entire product contributes to achieve points in the criterion ENV 1.3 Sustainable resource extraction:

CLIMAFLEX®	N/A
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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 2018 (New construction building). 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.