





## Product Declaration - BREEAM International New Construction 2016

|                                |   |
|--------------------------------|---|
| <b>MANUFACTURER</b>            | NMC S.A.  |
| <b>PRODUCT NAME</b>            | CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT   |
| <b>PRODUCT CHARACTERISTICS</b> | 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<br>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 |

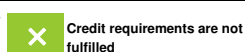
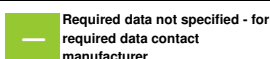
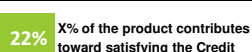
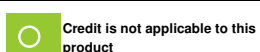
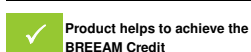


NMC S.A.  
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| Product Rating   |  |                       |   |
|--|--|-----------------------|---|
| BREEAM Category  | BREEAM Assessment Issue                            | Max. influenced score | Fulfillment   |
| <ul style="list-style-type: none"> <li>- The product contributes toward satisfying HEA 02 "Indoor air quality" under BREEAM.</li> <li>- The product contributes toward satisfying MAT 01 "Life cycle impacts" under BREEAM.</li> </ul> |  |                       |   |
| Health and Wellbeing   | HEA 02: Indoor air quality                         |                       |   |
|  | Emissions from building products                   | 1 Credit              |  |
|  | Emissions from building products (Exemplary Level) | 1-2 Credit            |  |
| Materials  | MAT 01: Life cycle impacts                         |                       |   |
|  | Environmental product declarations (EPD)           | 1-6 Credits           |  |
|  | MAT 03: Responsible sourcing of materials          |                       |   |
|  | Responsible sourcing of construction products      | 1-4 Credits           |  |

#### About BREEAM and Products - [www.breeam.com](http://www.breeam.com)

This declaration helps to assess products easily according to the certification system BREEAM International New Construction 2016. Products are not reviewed or certified by BREEAM. BREEAM credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information about BREEAM visit [www.breeam.com](http://www.breeam.com). The project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve BREEAM credits. Below you find an explanation of the symbols. Detailed information are on the next pages.



**HEA 02: Indoor air quality**

1/2

**Intent**

To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.

**Requirement**

Emissions from building products

At least four of the five product types meet the emission limits, testing requirements and any additional requirements. Paints used in wet areas (e.g. bathrooms, kitchens, utility rooms) should protect against mould growth. (1 Credit)

Product types:

- Interior paints and coatings
- Wood-based products
- Flooring materials (including floor levelling compounds and resin flooring)
- Ceiling, wall, and acoustic and thermal insulation materials
- Interior adhesives and sealants (including flooring adhesives)

An additional credit can be achieved if four of the five product types meet the emission limits of the exemplary level. If all product categories meet the requirements for the exemplary level, two additional credits can be achieved. (1-2 credits)

**Detailed Rating**

| No. | General Information                       |              |          | Emission (after 28 days)          |           |                           |           |                                   |           | Compliance                     |                                 |
|-----|---|--------------|----------|-----------------------------------|-----------|---------------------------|-----------|-----------------------------------|-----------|--------------------------------|---------------------------------|
|     | Product name                              | Manufacturer | Mass [%] | Formaldehyde [mg/m <sup>3</sup> ] |           | TVOC [mg/m <sup>3</sup> ] |           | Cat. 1A + 1B [mg/m <sup>3</sup> ] |           |                                | Protection against mould growth |
|     |   |              |          | Actual                            | Allowable | Actual                    | Allowable | Actual                            | Allowable |                                |                                 |
|     | CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT | NMC S.A.     | 100%     | see below                         |           |                           |           |                                   |           | ✓                              |                                 |
|     | CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT | NMC S.A.     | 100%     | 0,003                             | 0,06 *    | <0,005                    | 1,0       | <0,001                            | 0,001     | N/A (only relevant for paints) | ✓                               |

\* For MDF the allowable limit for formaldehyde is  $\leq 0.08$  mg/m<sup>3</sup>.

## HEA 02: Indoor air quality

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## Detailed Rating Exemplary Level

| No. | General Information                             |              |             | Emission Exemplary Level<br>(after 28 days)     |           |                              |           |                       |           |                               |           |                                      |           | Compliance |
|-----|---|--------------|-------------|---|-----------|------------------------------|-----------|-----------------------|-----------|-------------------------------|-----------|--------------------------------------|-----------|------------|
|     |   |              |             | Formaldehyde<br>[mg/m <sup>3</sup> ]            |           | TVOC<br>[mg/m <sup>3</sup> ] |           | TVOC-content<br>[g/l] |           | TSVOC<br>[mg/m <sup>3</sup> ] |           | Cat. 1A + 1B<br>[mg/m <sup>3</sup> ] |           |            |
|     | Product name                                    | Manufacturer | Mass<br>[%] | Actual  | Allowable | Actual                       | Allowable | Actual                | Allowable | Actual                        | Allowable | Actual                               | Allowable |            |
|     |   |              |             | CLIMAFLEX® STABIL &<br>EXZENTROFLEX®<br>COMPACT | NMC S.A.  | 100%                         |           |                       |           |                               |           |                                      |           |            |
| 1   | CLIMAFLEX® STABIL &<br>EXZENTROFLEX®<br>COMPACT | NMC S.A.     | 100%        | 0,003   | 0,010     | <0,005                       | 0,300     | N/A                   | 10 *      | <0,005                        | 0,100     | <0,001                               | 0,001     | ✓          |

\* Product category: N/A (The TVOC-Content is only relevant for paints and coatings)

**Product Declaration - BREEAM International New Construction 2016**
**MAT 01: Life cycle impacts**
**Intent**

To recognise and encourage the use of (robust and appropriate life cycle assessment tools and consequently the specification of) construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building.

**Requirement**

Environmental Product Declaration (EPD) can be used in Credit "MAT 01: Life cycle impacts" for the calculation of the Life-Cycle Assessment of the building. If no EPD exist, generic datasets will be used. (5 Credits)

Where a range of at least five products specified at Design Stage (DS) and installed by Post-Construction Stage (PCS) are covered by verified Environmental Product Declarations (EPD) you can achieve one Credit. (1 Credit)

To achieve the Exemplary Level you need ten products which are covered by verified Environmental Product Declarations (EPD).

**Detailed Rating**

| No. | General Information                       |              |          | Life cycle impacts                              | Compliance |
|-----|---|--------------|----------|---|------------|
|     | Product name                              | Manufacturer | Mass [%] | Environmental Product Declaration               |            |
|     | CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT | NMC S.A.     | 100%     | For the product exists an product specific EPD. | ✓          |
| 1   | CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT | NMC S.A.     | 100%     | For the product exists an product specific EPD. | ✓          |

**Product Declaration - BREEAM International New Construction 2016**
**MAT 03: Responsible sourcing of materials**
**Intent**

To recognise and encourage the specification and procurement of responsibly sourced materials for key building elements (construction products).

**Requirement**

The available responsible sourcing credits can be awarded where the applicable construction products are responsibly sourced in accordance to one of the following certificate. Depending on the certificate, a different RSCS level will be achieved. (1-4 Credits)

**General:**

- Construction products/materials reused in-situ or within the same construction site, with only minor processing that does not alter the nature of the construction product/material (e.g. cleaning, cutting, fixing to other construction products). (RSCS level: 10)
- BES 6001 - Framework Standard for Responsible Sourcing (RSCS level: 5)

**Metals:**

- Eco-reinforcement (only for reinforcing steel products) (RSCS level: 5)
- CARES Sustainable Constructional Steel (SCS) Scheme (RSCS level: 5)

**Timber and Timber based products:**

- FSC 100%, Forest Stewardship Council (FSC) (RSCS level: 7)
- FSC Mix, Forest Stewardship Council (FSC) (RSCS level: 5)
- FSC Recycled, Forest Stewardship Council (FSC) (RSCS level: 5)
- PEFC Certified, Programme for the Endorsement of Forest Certification (PEFC) (RSCS level: 5)
- PEFC Recycled, Programme for the Endorsement of Forest Certification (PEFC) (RSCS level: 5)
- SFI certified 100 %, Sustainable Forestry Initiative Inc. (SFI) (RSCS level: 6)
- SFI recycled timber/fibre content, Sustainable Forestry Initiative Inc. (SFI) (RSCS level: 5)

**Manufacturer:**

- Environmental Management System (EMS) (certified): Key Process and supply chain extraction process (RSCS level: 2)
- Environmental Management System (EMS) (certified): Key Process (RSCS level: 1)

**Detailed Rating**

| No. | General Information                       |              |          | Responsible sourcing of materials |               | Compliance |
|-----|---|--------------|----------|-----------------------------------|---------------|------------|
|     | Product name                              | Manufacturer | Mass [%] | Responsible sourcing scheme       | RSCS Level    |            |
|     | CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT | NMC S.A.     | 100%     | not specified                     | not specified | —          |
| 1   | CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT | NMC S.A.     | 100%     | not specified                     | not specified | —          |

**Notice:**

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