

**Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS**
**MANUFACTURER** NMC S.A.

**PRODUCT NAME** CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT

**Product Rating**

- The product contains 12,4% recycled materials and contribute to achieve LEED credits within MR Credit 4.
- The product consists of 70% rapidly renewable material and thus contribute to achieve LEED credits within MR Credit 6.

**Indoor Environmental Quality (IEQ) - LEED Category**

IEQ Credit 4.1: Low Emitting Materials: <b>Adhesives and Sealants</b>	1 Point	<input type="radio"/>
IEQ Credit 4.2: Low Emitting Materials: <b>Paints and Coatings</b>	1 Point	<input type="radio"/>
IEQ Credit 4.3: Low Emitting Materials: <b>Flooring Systems</b>	1 Point	<input type="radio"/>
IEQ Credit 4.4: Low Emitting Materials: <b>Composite Wood and Agrifiber Products</b>	1 Point	<input type="radio"/>

**Materials and Resources (MR) - LEED Category**

MR Credit 4: <b>Recycled Content</b>	1-2 Points	12%
MR Credit 5: <b>Regional Materials</b>	1-2 Points	See Location
MR Credit 6: <b>Rapidly Renewable Materials</b>	1 Point	70%
MR Credit 7: <b>Certified Wood</b>	1 Point	<input type="radio"/>

**Product Characteristics**

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

<input checked="" type="checkbox"/>	<b>Credit requirements fulfilled - the credit point can be achieved</b>
<input type="radio"/>	<b>Credit is not applicable to this product</b>
22%	<b>X% of the product comply with the credit requirement</b>
—	<b>Required data not specified - for required data contact manufacturer</b>
<input checked="" type="checkbox"/>	<b>Credit requirements are not fulfilled</b>

**About LEED & Products - [www.usgbc.org](http://www.usgbc.org)**

This declaration helps to assess products easily according the certification system LEED® 2009 New Construction and Major Renovations NC & CS (excluded SCHOOLS). Products are not reviewed or certified by LEED. LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information about LEED visit [www.usgbc.org/leed](http://www.usgbc.org/leed). The project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve LEED points.

Above you find an explanation of the symbols. Detailed information are on the next pages.

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No	Product Name	Manufacturer	Mass per unit* [%]	VOC in g/l	VOC Limit in g/l	Flooring Systems	Composite Agrifiber product	Recycled Content		Regional Materials		Rapidly Renewable Material	Certified Wood
								Post-Consumer	Pre-Consumer	Location Harvesting/ Extraction	Location Manufacturing		
A1	CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	NMC S.A.	BRA (Brazil)	N/A	N/A	N/A	N/A	0%	24,8%	BRA (Brazil)	B-4731 Eynatten	70%	N/A
A2													
A3													
A4													
A5													
A6													
A7													
A8													
A9													
A10													
	<b>CLIMAFLEX® STABIL &amp; EXZENTROFLEX® COMPACT</b>	<b>NMC S.A.</b>	<b>100,0</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<b>0,0%</b>	<b>24,8%</b>	If the location of 'Harvesting & Extraction' and 'Manufacturing' is within a radius of 500 miles of the project the subproduct contributes to the credit.		<b>70%</b>	<input type="radio"/>
									<b>12,4%</b>				

\* All values are based on the unit: \*\*LEED default recycled content for steel

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**IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants (1 Point)**
**IEQ Credit 4.2: Low Emitting Materials: Paints and Coatings (1 Point)**
**Intent**

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants caused by paints and coatings applied on site.

**Requirement**


All adhesive, sealants and sealant primers used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) must comply shall comply with the VOC content limits of the following:

- SCAQMD Rule #1168 (effective date of July 1, 2005 and rule amendment date of January 7, 2005),
- Aerosol Adhesives must comply with Green Seal Standard for Commercial Adhesives GS-36 requirements in effect on October 19, 2000.

Paints and coatings used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) must comply with the VOC content limits of the following:

- Green Seal Standard GS-11, Paints Edition, May 20, 1993,
- Green Seal Standard GC-03, Anti-Corrosive Paints, Second Edition, January 7, 1997, and
- South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.

**Detailed Rating**

No	Product Name	Manufacturer	Related Credit	Product Type	VOC-Content		Contribution of Product	
					Allowable	Product		
A1	CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	NMC S.A.	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	

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**MR Credit 4: Recycled Content (1-2 Points)**
**Intent**

To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

**Requirement**

Use materials with recycled content\* such that the sum of post-consumer\*\* recycled content plus one-half of the pre-consumer\*\*\* content constitutes at least 10%/20% (based on cost) of the total value of the materials in the project.

The minimum percentage materials recycled for each point threshold is as follows:

- 10% Recycled Content -> 1 Point
- 20% Recycled Content -> 2 Points.

\* Recycled content is defined in accordance with the International Organization of Standards document, ISO 14021 — Environmental labels and declarations — Self-declared environmental claims (Type II environmental labeling).

\*\* Postconsumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

\*\*\* Preconsumer material is defined as material diverted from the waste stream during the manufacturing process. Reutilization of materials (i.e., rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it) is excluded.

**Detailed Rating**

No	Product Name	Manufacturer	Recycled Content		Contribution of Product	
			Post-Consumer	Pre-Consumer		
A1	CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	NMC S.A.	0%	24,8%	Accountable recycled content according to LEED is 12,4% (1 x Post-Consumer + 0.5 x Pre-Consumer).	<b>12%</b>

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**MR Credit 5: Regional Materials (1-2 Points)**
**Intent**

To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

**Requirement**

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. If only a fraction of a product or material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) must contribute to the regional value. The minimum percentage regional materials for each point threshold is as follows:

- 10% Regional Materials -> 1 Point
- 20% Regional Materials -> 2 Points.

**Detailed Rating**

No	Product Name	Manufacturer	Location Harvesting/ Extraction	Location Manufacturing
A1	CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	NMC S.A.	BRA (Brazil)	B-4731 Eynatten

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**MR Credit 6: Rapidly Renewable Materials (1 Points)**
**Intent**

To reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials.

**Requirement**

Use rapidly renewable building materials and products for 2.5% of the total value of all building materials and products used in the project, based on cost. Rapidly renewable building materials and products are made from plants that are typically harvested within a 10-year or shorter cycle.

**Detailed Rating**

No	Product Name	Manufacturer	Rapidly Renewable Material	Percentage	Contribution of Product	
A1	CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	NMC S.A.	Yes	70%	The product contains 70% rapidly renewable materials.	<b>70%</b>

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**MR Credit 7: Certified Wood (1 Points)**
**Intent**

To encourage environmentally responsible forest management.

**Requirement**

Use a minimum of 50% (based on cost) of wood-based materials and products that are certified in accordance with the Forest Stewardship Council's principles and criteria, for wood building components. These components include at a minimum, structural framing and general dimensional framing, flooring, sub-flooring, wood doors and finishes.

**Detailed Rating**

No	Product Name	Manufacturer	Wooden Material	FSC certified	Contribution of Product
A1	CLIMAFLEX® STABIL & EXZENTROFLEX® COMPACT	NMC S.A.	No	N/A	The product is not made from wood.