

WELL COMPLIANCE PRODUCT CARD

Technical insulation



TECHNICAL INSULATION



COOLING



AIR CONDITIONING

AF/Armaflex

AF/Armaflex is a closed-cell elastomeric foam based on synthetic rubber with antibacterial protection "MICROBAN". The product is used to insulate and protect pipes, vessels and ducts (incl. elbows, fittings, flanges etc.) in air conditioning, refrigeration and industrial facilities³.

WELL Building Standard

WELL is a performance-based system for measuring, certifying, and monitoring features of the built environment that impact human health and wellbeing, through air, water, nourishment, light, fitness, comfort, and mind. WELL Certification requires a passing score in each of these seven categories. WELL Certified spaces can help create a built environment that improves the nutrition, fitness, mood, sleep patterns, and performance of its occupants.

WELL is grounded in a body of medical research that explores the connection between the buildings and the health and wellness of its occupants.

WELL compliance product card for AF/Armaflex was prepared to assist designers, architects, engineers, consultants and developers to provide clear information and to facilitate choosing proper product. Appropriate WELL features related to AF/Armaflex product were chosen and checked. AF/Armaflex compliance and contribution to WELL features are presented below.



Product compliant



Product contributes to a better rating

WELL feature	Feature type	WELL Requirements	Product Compliance
Air 04: VOC reduction Part 4: Insulation	Preconditions*	The VOC emissions of all newly installed thermal and acoustic insulation inside the waterproofing membrane must meet all limits set by the California Department of Public Health (CDPH) Standard Method v1.1-2010 or accepted equivalent.	Sampling, testing and evaluation of AF/Armaflex were performed according to ISO 16000-9 (which is approved as an acceptable equivalent to the requirements of this Feature). Insulation meets exemplary limits ¹ : - Formaldehyde $\leq 0,01 \text{ mg/m}^3$ - Total volatile organic compounds $\leq 0,3 \text{ mg/m}^3$ - Total semi-volatile organic compounds $\leq 0,1 \text{ mg/m}^3$ - Category 1A and 1B carcinogens $\leq 0,001 \text{ mg/m}^3$
Air 06: Microbe and mold control Part 1: Cooling Coil Mold Reduction	Preconditions*	In order to reduce mold and bacteria growth within buildings, particularly from water damage or condensation on cooling coils. All cooling coils should be inspected on a quarterly basis for mold growth and cleaned if necessary.	AF/Armaflex may contribute protecting against mold and mildew within the building. It is equipped with MICROBAN technology which is EPA-registered antimicrobial protection. The protection is built in during the manufacturing process, it will not wash off or wear away which give a long term defence against mold and mildew ³ .
Air 25: Toxic material reduction Part 5: Urea-Formaldehyde Restriction	Optimization**	Urea-formaldehyde presence is limited in the following components to 100 ppm: a. Furniture or any composite wood products. b. Laminating adhesives and resins. c. <u>Thermal insulation</u> .	AF/Armaflex can contribute to reducing indoor air contamination. Studies have shown that the product does not contain urea-formaldehyde resins in quantities greater than 100 ppm ² .
Mind 97: Material Transparency Part 1: Material Information	Optimization*	At least 50% (as measured by cost) of interior finishes and finish materials, furnishings (including workstations) and built-in furniture have some combination of the following material descriptions (in order to contribute, the product must indicate that all ingredients have been evaluated and disclosed down to 1,000 ppm): a. Declare Label. b. Health Product Declaration. c. Any method accepted in USGBC's LEED v4 MR credit: Building Product Disclosure and Optimization - Material Ingredients, Option 1: material ingredient reporting.	Product has got an EPD with a third party certification (type III) in accordance to ISO 14025 and EN 15804 and includes an external verification. A cradle to grave scope has been provided. All data useful for completing material descriptions may be found in EPD ⁴ . The document is compliant with LEED v4 standards and it makes it acceptable by WELL.

For detailed information please refer to the documents provided by manufacturer:

¹ Eurofins Product Testing A/S attestation and test report No. 392-2013-GSH-CEFEP_01

² Urea-formaldehyde content declaration for AF/Armaflex

³ AF/Armaflex product card

⁴ Environmental Product Declaration (EPD) for AF/Armaflex: EPD-ARM-20150060-IBB1-DE

* AF/Armaflex has a direct impact on the following categories. While using AF/Armaflex with another appropriate products– Preconditions or Optimizations in current concept will be available.

** AF/Armaflex has an indirect impact on the following categories. Using AF/Armaflex with another appropriate products may contribute to meet Preconditions or Optimizations in current concept.

Preconditions– these are fundamental features, for WELL certification on Silver level or compliance to be awarded, all applicable Preconditions must be met.

Optimizations– these features include optional technologies, strategies, protocols and designs that can be applied to a project to qualify for WELL Certification at either Gold or Platinum level. One Optimization within each seven concepts is required for WELL Core and Shell Compliance.