

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

| | |
|--------------------|---|
| PRODUCER | Armacell GmbH Robert-Bosch-Str. 10 48153 Münster Germany |
| DESCRIPTION | Flexible elastomeric foam on basis of patented synthetic rubber composition with improved fire retardant properties, low smoke generation and closed-cell material structure. |
| TYPE | Armaflex Ultima |
| APPLICATION | For use in HVAC, refrigeration and process equipment applications. |
| STANDARD | MSC 307(88): Annex 1: Part 5, EN13501-1, EN 12667, EN ISO 8497, EN 12086, EN 13469, EN 14706, EN 14707, |
| RATINGS | Thermal conductivity λ : 0,040 (W/m x K) at 0°C Water vapor diffusion resistance: $\mu \geq 7000$ Service temperature range : - 50°C to +110°C |

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| Certificate No. | 13/20029 |
| Issue Date | 20 June 2013 |
| Expiry Date | 19 June 2018 |
| Sheet | 1 of 2 |

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Torsten Schröder
Hamburg Design Support Office
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"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. HDS/ENS 29373-13, Issue No. 0 dated 20.06.2013 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 13/20029
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