

**Declaration of Performance
No. 0543-CPR-2013 (2e)**



| | |
|---|---|
| construction product: | Factory made flexible elastomeric foam (FEF) with and without coatings |
| Identification of the construction product: | See relevant product labels |
| Intended use: | Thermal insulation of building equipment and industrial installations (ThiBELL) |
| manufacturer / plant: | Armacell GmbH, Robert-Bosch-Str.10, D-48153 Münster |
| Systems of assessment and verification: | AVCP Systems 1 and 3 |
| Certification body: | GSH, NB 0919 , Schildenstr. 24, D-29221 Celle |
| Declared performance: | EN 14304:2009, see Annex 1 |

particular conditions applicable to the use of the product:

- product shall be installed in accordance with the Armaflex / Arma-Chek Installation Manual,
- if relevant product shall be adequately protected when used outdoors.

Klaus Peerenboom, General Manager Europe North

(Name and function)

Münster, 15.01.2014

(Place and date of issue)



(Signature)

Annex 1 of the DOP no. 0543-CPR-2013 (2e) - Declared performance

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| Product name | Description | Thermal conductivity λ_0 at 0°C W/mK | Thermal conductivity λ_0 at 40°C W/mK | Reaction to fire Euroclass | Maximum service temp (ST(+)) °C | Minimum service temp. (ST(-)) °C | Water vapour resistance factor (MU) | Soluble ions/pH (CL) | Designation code of manufacturer |
|--|------------------------------------|--|---|----------------------------------|---------------------------------|----------------------------------|-------------------------------------|----------------------|--|
| AF/Armaflex tubes (AF-1-AF4; 7-25 mm) sheets (3-32 mm) | Elastomeric sheets, tubes and tape | 0,033 | - | B _L -s3,d0 B-s3,d0 | 110 | -50 | 10000 | 300 | FEF - EN14304 - ST(+) 110 - ST(-) 50 - CL 300 - MU 10000 |
| AF/Armaflex tubes (AF5-AF6; 25-45 mm) sheets (36-50 mm) | Elastomeric sheets and tubes | 0,036 | - | B _L -s3,d0 B-s3,d0 | 110 | -50 | 7000 | 300 | FEF - EN14304 - ST(+) 110 - ST(-) 50 - CL 300 - MU 7000 |
| AF/Armaflex tubes (54mm) | Elastomeric tubes | 0,036 | - | E | 110 | -50 | 4000 | 300 | FEF - EN14304 - ST(+) 110 - ST(-) 50 - CL 300 - MU 4000 |
| Armaflex XG tubes (6-19 mm) sheets (3-25 mm) | Elastomeric sheets, tubes and tape | 0,035 | - | B _L -s3,d0 B-s3,d0 | 110 | -50 | 10000 | - | FEF - EN14304 - ST(+) 110 - ST(-) 50 - MU 10000 |
| Armaflex XG tubes (25-40 mm) sheets (32-40 mm) | Elastomeric sheets and tubes | 0,036 | - | B _L -s3,d0 B-s3,d0 | 110 | -50 | 7000 | - | FEF - EN14304 - ST(+) 110 - ST(-) 50 - MU 7000 |
| Armacell Elastomeric Foam tubes (6-19 mm) | Elastomeric tubes | 0,036 | - | B _L -s3,d0 | 110 | -50 | 10000 | - | FEF - EN14304 - ST(+) 110 - ST(-) 50 - MU 10000 |
| Armacell Elastomeric Foam tubes (25-40 mm) | Elastomeric tubes | 0,038 | - | B _L -s3,d0 | 110 | -50 | 7000 | - | FEF - EN14304 - ST(+) 110 - ST(-) 50 - MU 7000 |
| Armaflex ACE tape (3 mm) | Elastomeric tape | 0,036 | - | B-s3,d0 | 110 | - | - | - | FEF - EN14304 - ST(+) 110 |
| Accoflex EX sheets (13-25 mm) | Elastomeric sheets | 0,038 | - | C-s3,d0 | 110 | - | 7000 | - | FEF - EN14304 - ST(+) 110 - MU 7000 |
| Armaflex LTD Tubes (10-25 mm) sheets (10-25 mm) | Elastomeric sheets and tubes | 0,040 | - | E | 110 | -200 | 1000 | 300 | FEF - EN14304 - ST(+) 110 - ST(-) 200 - CL 300 - MU 1000 |
| SH/Armaflex tubes (9-11 mm) | Elastomeric tubes | - | 0,036 | B _L -s3,d0 | 110 | - | - | - | FEF - EN14304 - ST(+) 110 |
| SH/Armaflex tubes (12-45 mm) | Elastomeric tubes | - | 0,040 | B _L -s3,d0 | 110 | - | - | - | FEF - EN14304 - ST(+) 110 |
| SH/Armaflex tape (3 mm) | Elastomeric tape | - | 0,040 | B-s3,d0 | 110 | - | - | - | FEF - EN14304 - ST(+) 110 |
| SH/Armaflex sheets (9-10 mm) | Elastomeric sheets | - | 0,040 | C-s3,d0 | 110 | - | - | - | FEF - EN14304 - ST(+) 110 |
| SH/Armaflex sheets (20 mm) | Elastomeric sheets | - | 0,040 | D-s3,d0 | 110 | - | - | - | FEF - EN14304 - ST(+) 110 |
| SH/Armaflex tubes (46-60 mm) | Elastomeric tubes | - | 0,040 | C _L -s3,d0 | 110 | - | - | - | FEF - EN14304 - ST(+) 110 |
| Armaflex HP tubes (10 mm) | Elastomeric tubes | - | 0,036 | C _L -s3,d0 | 110 | - | - | - | FEF - EN14304 - ST(+) 110 |
| Armaflex HP tubes (13-38 mm) tape (3 mm) | Elastomeric tubes and tape | - | 0,040 | C _L -s3,d0 B-s3,d0 | 110 | - | - | - | FEF - EN14304 - ST(+) 110 |
| NH/Armaflex tubes (9-25 mm) sheets (3-32 mm) | Elastomeric sheets, tubes and tape | 0,040 | - | D _L -s3,d0 E | 110 | -50 | 2000 | 80 | FEF - EN14304 - ST(+) 110 - ST(-) 50 - CL 80 - MU 2000 |
| AP Armaflex tubes (6-25 mm) | Elastomeric tubes | 0,036 | - | E | 110 | -50 | 2000 | - | FEF - EN14304 - ST(+) 110 - ST(-) 50 - MU 2000 |
| AP Armaflex sheets (3-25 mm) | Elastomeric sheets and tape | 0,036 | - | E | 110 | -50 | 4000 | - | FEF - EN14304 - ST(+) 110 - ST(-) 50 - MU 4000 |
| AP Armaflex tubes (26-32 mm) sheets (26-50 mm) | Elastomeric sheets and tubes | 0,045 | - | E | 110 | -50 | 1000 | - | FEF - EN14304 - ST(+) 110 - ST(-) 50 - MU 1000 |
| Armaflex Ultima tubes (9-25 mm) | Elastomeric tubes | 0,040 | - | B _L -s1,d0 | 110 | -50 | 7000 | 300 | FEF - EN14304 - ST(+) 110 - ST(-) 50 - CL 300 - MU 7000 |
| Armaflex Ultima Sheets, tape (3 - 25 mm) | Elastomeric sheets and tape | 0,040 | - | B-s2,d0 | 110 | -50 | 7000 | 300 | FEF - EN14304 - ST(+) 110 - ST(-) 50 - CL 300 - MU 7000 |
| Armaflex Rail SD Sheets, tape (3 - 25 mm) | Elastomeric sheets and tape | 0,040 | - | B-s2,d0 | 110 | -50 | 5000 | 300 | FEF - EN14304 - ST(+) 110 - ST(-) 50 - CL 300 - MU 5000 |
| Armaflex Rail SD tubes (9-25 mm) | Elastomeric tubes | 0,040 | - | B _L -s1,d0 | 110 | -50 | 5000 | 300 | FEF - EN14304 - ST(+) 110 - ST(-) 50 - CL 300 - MU 5000 |

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Annex 1 of the DOP no. 0543-CPR-2013 (2e) - Declared performance

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| Product name | Description | Thermal conductivity λ_D at 0°C W/mK | Thermal conductivity λ_D at 40°C W/mK | Reaction to fire Euroclass | Maximum service temp. (ST(+)) °C | Minimum service temp. (ST(-)) °C | Water vapour resistance factor (MU) | Soluble ions/pH (CL) | Designation code of manufacturer |
|---|---|--|---|----------------------------|----------------------------------|----------------------------------|-------------------------------------|----------------------|--|
| HT/Armaflex Tubes (10-25 mm) | Elastomeric tubes | - | 0,042 | D _L -s3,d0 | 150 | -50 | 4000 | 80 | FEF - EN14304 - ST(+)-150 - ST(-)-50 - CL 80 - MU 4000 |
| HT/Armaflex sheets (3-25 mm) | Elastomeric sheets and tape | - | 0,045 | D-s3,d0 | 150 | -50 | 3000 | 80 | FEF - EN14304 - ST(+)-150 - ST(-)-50 - CL 80 - MU 3000 |
| HT/Armaflex S-WH Tubes (10-32 mm) | Elastomeric tubes | - | 0,042 | E | 150 | -50 | 4000 | 80 | FEF - EN14304 - ST(+)-150 - ST(-)-50 - CL 80 - MU 4000 |
| HT/Armaflex S-BK Tubes (10-32 mm) | Elastomeric tubes | - | 0,042 | E | 150 | -50 | 4000 | 80 | FEF - EN14304 - ST(+)-150 - ST(-)-50 - CL 80 - MU 4000 |
| Armaflex DuoSolar Tubes (14-25 mm) | Elastomeric tubes with pipes preinsulated | - | 0,042 | E | 150 | -50 | 4000 | 80 | FEF - EN14304 - ST(+)-150 - ST(-)-50 - CL 80 - MU 4000 |
| Armaflex Duct PLUS sheets (9-32 mm) | Elastomeric sheets | 0,036 | - | B-s3,d0 | 110 | -50 | 7000 | - | FEF - EN14304 - ST(+)-110 - ST(-)-50 - MU 7000 |
| Armaflex Duct PLUS AL sheets (9-32 mm) | Elastomeric sheets with coating | 0,036 | - | D-s3,d0 | 110 | -50 | 7000 | - | FEF - EN14304 - ST(+)-110 - ST(-)-50 - MU 7000 |
| Armaflex Duct sheets (9-25 mm) | Elastomeric sheets | 0,036 | - | D-s3,d0 | 110 | -50 | 7000 | - | FEF - EN14304 - ST(+)-110 - ST(-)-50 - MU 7000 |
| Armaflex Duct sheets (32-40 mm) | Elastomeric sheets | 0,038 | - | D-s3,d0 | 110 | -50 | 7000 | - | FEF - EN14304 - ST(+)-110 - ST(-)-50 - MU 7000 |
| Armaflex Duct AL sheets (9-25 mm) | Elastomeric sheets with coating | 0,036 | - | E | 110 | -50 | 7000 | - | FEF - EN14304 - ST(+)-110 - ST(-)-50 - MU 7000 |
| Armaflex Duct AL sheets (32-40 mm) | Elastomeric sheets with coating | 0,038 | - | E | 110 | -50 | 7000 | - | FEF - EN14304 - ST(+)-110 - ST(-)-50 - MU 7000 |
| Arma-Chek D (AF) tubes (9-25 mm) sheets (13-25 mm) | Elastomeric sheets and tubes with coating | 0,033 | - | E | 110 | -50 | 10000 | 300 | FEF - EN14304 - ST(+)-110 - ST(-)-50 - CL 300 - MU 10000 |
| Arma-Chek D (AF) tubes (25-32 mm) | Elastomeric tubes with coating | 0,036 | - | E | 110 | -50 | 7000 | 300 | FEF - EN14304 - ST(+)-110 - ST(-)-50 - CL 300 - MU 7000 |
| Arma-Chek SD sheets (10-32 mm) | Elastomeric sheets with laminate | 0,033 | - | D-s3,d0 | 110 | -50 | 10000 | 300 | FEF - EN14304 - ST(+)-110 - ST(-)-50 - CL 300 - MU 10000 |
| Arma-Chek D (NH) tubes (13-25 mm) sheets (13-25 mm) | Elastomeric sheets and tubes with coating | 0,040 | - | E | 110 | -50 | 2000 | 80 | FEF - EN14304 - ST(+)-110 - ST(-)-50 - CL 80 - MU 2000 |
| Arma-Chek Silver AF tubes (9-25 mm) | Elastomeric tubes with coating | 0,033 | - | C _L -s3,d0 | 110 | -50 | 15000 | 300 | FEF - EN14304 - ST(+)-110 - ST(-)-50 - CL 300 - MU 15000 |
| Arma-Chek Silver AF tubes (25-32 mm) | Elastomeric tubes with coating | 0,036 | - | C _L -s3,d0 | 110 | -50 | 15000 | 300 | FEF - EN14304 - ST(+)-110 - ST(-)-50 - CL 300 - MU 15000 |
| Arma-Chek Silver AF sheets (13-25 mm) | Elastomeric sheets with coating | 0,033 | - | C-s3,d0 | 110 | -50 | 15000 | 300 | FEF - EN14304 - ST(+)-110 - ST(-)-50 - CL 300 - MU 15000 |
| Arma-Chek Silver tubes (13-19 mm) sheets (13-25 mm) | Elastomeric sheets and tubes with coating | 0,036 | - | E | 110 | -50 | 15000 | - | FEF - EN14304 - ST(+)-110 - ST(-)-50 - MU 15000 |
| Arma-Chek Silver tubes (25-40 mm) sheets (32-50 mm) | Elastomeric sheets and tubes with coating | 0,038 | - | E | 110 | -50 | 15000 | - | FEF - EN14304 - ST(+)-110 - ST(-)-50 - MU 15000 |
| Arma-Chek R GRAU (AF) tubes (25-32 mm) | Elastomeric tubes with coating | 0,036 | - | E | 110 | -50 | 15000 | 300 | FEF - EN14304 - ST(+)-110 - ST(-)-50 - CL 300 - MU 15000 |
| Arma-Chek R GRAU (NH) tubes (25 mm) | Elastomeric tubes with coating | 0,040 | - | E | 110 | -50 | 15000 | 80 | FEF - EN14304 - ST(+)-110 - ST(-)-50 - CL 80 - MU 15000 |
| Arma-Chek R GRAU (HT) tubes (25 mm) | Elastomeric tubes with coating | - | 0,042 | E | 150 | -50 | 15000 | 80 | FEF - EN14304 - ST(+)-150 - ST(-)-50 - CL 80 - MU 15000 |
| Elastomeric Tape Tape (3 mm) | Elastomeric tape | 0,033 | - | B-s3,d0 | 110 | -50 | 10000 | - | FEF - EN14304 - ST(+)-110 - ST(-)-50 - MU 10000 |

END