

ThermaSmart[®] ENEV-Q

Thermal Insulation by Thermaflex[®]

Fully recyclable thermal tube insulation product made of direct extruded, closed-cell high quality thermoplastic foam with coextruded yellow polyolefin outer skin

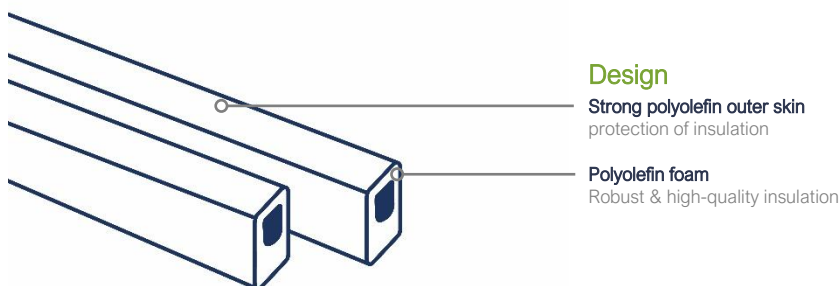


Benefits

- German EnEV compliant product range
- Condensation free system for life-time installed by qualified insulator
- Consistent performance – Damage free, robust insulation material

Applications

- Heat distribution lines in under-floor application



Technical Properties

| Properties | Units SI | Values | Testing method |
|------------------------------------|-------------------|--|---------------------|
| Physical properties | | | |
| Dimensional tolerances | - | Coherent | EN 14313 |
| Density (foam) | kg/m ³ | 25-35 | - |
| Foam structure | - | Fine, closed-cells | - |
| Color | - | Foam: Anthracite Skin: Yellow | - |
| Pressure resistance | N/mm ² | Force 10%: 0.035-0.045 Force 20%: 0.060-0.090 Force 50%: 0.130-0.170 | ISO 844 / DIN 53577 |
| Thermal properties | | | |
| Maximum service temperature | °C | +95 | EN 14707 |
| Thermal conductivity (λ) | W/m·K | 0.040 @ 40°C | EN ISO 8497 |
| Fire properties | | | |
| SBI classification | - | Class E _L | EN 13501-1 |
| Water resistance properties | | | |
| Water absorption | kg/m ² | 0.01 | EN 13472 |
| Acoustic properties | | | |
| Structure-borne noise insulation | db | 35* | DIN EN ISO 10140 |

*Test Report No.: PB 4.2/15-010-2

Availability

- Standard product length is 1.5m (149-153cm) in carton boxes (157x40x30cm)
- Product version: non-slit



| Carrier Pipe Ø max. [mm] | Insulation Wall thickness [mm] | | Product Dimensions | | | | |
|-----------------------------|--------------------------------|-----------------|--------------------|-------------|-------------------|-------------|-------------------|
| | Fb | EnEV100% | Total height | Total width | A (lower wall) | B (hole) | C (upper wall) |
| 15 | 6 | | 27.0-31.0 | 26.0-30.0 | 6.0-8.0 | 16.0-18.0 | 5.0-7.0 |
| | | 20 | 45.0-49.0 | 28.0-32.0 | 24.6-26.6 | 16.0-18.0 | 6.0-8.0 |
| 18 | 6 | | 30.0-34.0 | 29.0-33.0 | 6.0-8.0 | 19.0-21.0 | 5.0-7.0 |
| | | 20 | 47.5-51.5 | 31.0-35.0 | 24.1-26.1 | 19.0-21.0 | 6.0-8.0 |
| 22 | 6 | | 34.0-38.0 | 33.0-37.0 | 6.0-8.0 | 23.0-25.0 | 5.0-7.0 |
| | | 20 | 51.5-55.5 | 35.0-39.0 | 23.3-25.3 | 23.0-25.0 | 6.0-8.0 |
| 28 | 6 | | 41.0-45.0 | 40.0-44.0 | 6.0-8.0 | 29.0-31.0 | 5.0-7.0 |
| | | 20 ¹ | 57.0-61.0 | 41.0-45.0 | 23.3-25.3 | 29.0-31.0 | 6.0-8.0 |
| 35 | 6 | | 48.0-52.0 | 47.0-51.0 | 6.0-8.0 | 36.0-38.0 | 5.0-7.0 |
| | | 30 | 78.0-82.0 | 52.0-56.0 | 36.0-38.0 | 36.0-38.0 | 8.0-10.0 |
| 42 | | 40 | 95.0-99.0 | 59.0-63.0 | 47.4-49.4 | 43.0-45.0 | 8.0-10.0 |

¹ 100% insulation according to EnEV only for Fe pipes