

INSULATION · ENGINEERING SPECIFICATION

EPS Pipe Lagging

This specification covers made-to-order moulded EPS pipe-lagging sections — pre-cut split half-shells cut to the client's bore, wall thickness and length and supplied bare, without cover or vapour barrier.

Verified technical data

Property	Value	Standard
Material / core	Expanded polystyrene (EPS); mineral / stone wool on request	—
Form / build-up	Pre-cut moulded split sections (2- or 3-piece half-shells) that lock over the pipe; supplied bare, without cover or vapour barrier; cut to client's bore / wall / length	—
EPS density grades offered	Standard Grade/16DV, 20DV, 24DV, 32DV (nominal 16–32) kg/m ³	—
Pipe nominal-bore range	15NB–650NB (plus 290ID) NB	—
Insulation wall thickness	20, 25, 30, 35, 40, 50, 70, 75, 80, 90, 100, 110, 130, 150 mm	—
Standard supply length	1220 (1.22 m); shorter 610–1220 mm sections invoiced at 1220 mm price mm	—

Scope

- 1.0** This specification covers moulded expanded-polystyrene (EPS) pipe-lagging sections supplied as pre-cut split half-shells that lock over the pipe, cut to the client's nominal bore, insulation-wall thickness and length.
- 2.0** The product is supplied bare; this specification excludes any cover, cladding, facing, mastic, vapour barrier or mechanical banding, which are separate site-applied items outside the scope of supply.
- 3.0** A mineral wool / stone wool core is available on request; where specified, its density, sizes, spec and pricing are quote-to-order and are to be supplied by Technopol, as no such data is published.
- 4.0** This specification excludes thermal, structural and fire design of the insulated system, which remain the responsibility of the designer using externally sourced data.

Materials

5.0 The core material shall be expanded polystyrene (EPS); mineral wool / stone wool may be supplied as an alternative core on request.

6.0 EPS density grades offered are Standard Grade/16DV, 20DV, 24DV and 32DV (DV = density value; nominal densities 16–32 kg/m³), with the Insulpro line quoted at 15DV / 24DV.

7.0 Sections shall be moulded, pre-cut curved shells whose inside face matches the pipe outside diameter and whose outside face is set by the specified insulation-wall thickness.

8.0 Sections shall be supplied as 2-piece (two half-shells) for smaller bores and 2- or 3-piece sets for larger bores, locked together by the supplied jointing arrangement.

9.0 Sections shall be supplied bare, without cover or vapour barrier, as explicitly stated on the price lists.

Performance

10.0 Pipe nominal-bore range shall be 15NB to 650NB (plus 290ID) in standard nominal-bore steps, with published bore outside diameters running from 22 mm (15NB) to 324 mm (300NB) in the extracted table.

11.0 Insulation-wall thicknesses available (priced) are 20, 25, 30, 35, 40, 50, 70, 75, 80, 90, 100, 110, 130 and 150 mm.

12.0 Standard supply length shall be 1220 mm (1.22 m); shorter sections of 610–1220 mm are invoiced at the 1220 mm price, with the Insulpro line also quoted per 1000 mm and per 1200 mm.

13.0 Thermal conductivity (λ), R-value and U-value are NOT established for this product in Technopol's primary sources and shall be treated as external inputs obtained by the designer from a qualified source.

14.0 Compressive strength (kPa/MPa) and strain at supports are NOT established for this product; the lagging shall not be relied upon to carry pipe loads at supports without an external load-bearing insert or saddle.

15.0 Temperature service limits (maximum/minimum operating temperature) are NOT established for the EPS lagging; the +140 °C figure in the general brochure belongs to the separate PIR32/PIC32 rigid-shell line and shall not be applied to this product.

16.0 No dimensional tolerances (bore, wall, length) are published.

Fire

17.0 EPS is a combustible material.

18.0 Standard EPS pipe lagging carries no standalone reaction-to-fire classification in Technopol's source set; a reaction-to-fire class describes ignitability/flame-spread/smoke and is not a fire-resistance (minutes) rating.

19.0 No fire-resistance (REI / minutes) rating, fire test report or FTC/FT report number exists for this product or any pipe-lagging assembly.

20.0 Where a fire rating is required, a flame-retardant EPS grade (FR-Cel, cited as reaction-to-fire class B-s1,d0) or Technopol's closed-cell PIR32/PIC32 rigid shells (cited as DIN 4102 class B2, service to +140 °C) may be specified instead; these classes and the +140 °C limit belong to those alternative product grades, not to standard EPS pipe lagging.

21.0 No tested wall/assembly REI, and no other product's fire class, shall be applied to this product.

Execution / installation

22.0 Sections shall split open, wrap around the pipe and close back together, then lock via the supplied jointing arrangement.

23.0 Larger bores shall be installed as 2- or 3-section sets so each piece can be handled and closed around big-diameter pipe.

24.0 Any vapour barrier, cladding, mastic joint-sealing or mechanical banding shall be applied on site by the specifier as a separate step; Technopol source material does not prescribe a fixing/wrapping method or joint-sealing detail.

25.0 On cold and chilled service, a continuous, sealed vapour barrier shall be added by the specifier to prevent interstitial condensation within the insulation.

Standards & compliance

26.0 No SANS reference, no Agrément certificate and no fire-resistance rating apply to this product; it is a standard, non-proprietary industry item and none of these were found in any primary Technopol source.

27.0 Agrément SA 2020/609 covers the LiteCore Building System only and does not cover pipe lagging or Technopol products generally; it shall never be presented as doing so.

28.0 Company management-system certifications are context only and do not certify product performance: ISO 9001:2015 (quality) is current, while ISO 14001 (environmental) and ISO 45001 (occupational health & safety) lapsed in March 2026.

Specifier's notes — not established in Technopol sources.

- Thermal conductivity (λ) is NOT established for the EPS lagging or the stone-wool variant; obtain a λ externally. The brochure's ≈ 0.045 W/m·K (12 kg/m³) / ≈ 0.040 W/m·K (15 kg/m³) values are unsubstantiated and shall not be used as fact; the EPS White Book 2011 is a general industry reference, not Technopol data, and must not fill this gap.
- R-value and U-value per thickness are NOT published for this product; obtain externally.

- Compressive strength (kPa/MPa) and strain at supports are NOT established for pipe lagging; obtain externally or provide a load-bearing insert/saddle.
- Temperature service limits (max/min) are NOT established for the EPS lagging; the +140 °C figure belongs to the separate PIR32/PIC32 rigid-shell line, not this product.
- Reaction-to-fire classification and its test standard are NOT established for standard EPS pipe lagging; do not assume any class.
- Fire-resistance rating (REI / minutes) and any FTC/FT report number: none exists for this product.
- Dimensional tolerances (bore, wall, length) are NOT published; confirm with Technopol if critical.
- The specific locking / jointing arrangement(s) Technopol supplies is not stated in the source set; several are in common use — confirm the actual arrangement and any load/vibration suitability per order.
- No applicable SANS standard or Agrément certificate for pipe lagging was found; Agrément 2020/609 covers the LiteCore Building System only.
- The mineral/stone-wool variant is confirmed to exist but has NO published density, sizes, spec or price list — treat as quote-to-order with data to come from Technopol.
- The density figures of 12 kg/m³ (15/20NB) and 15 kg/m³ (25NB+) in the brochure are internal block-cutting costing defaults, not the published product-density grades (Standard Grade/16DV, 20DV, 24DV, 32DV), and must not be presented as the product spec.
- Whether a covered / vapour-barrier-faced factory option exists is NOT documented; the price lists explicitly quote the product without cover or vapour barrier.

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Figures trace to Technopol technical documentation. Properties listed as "not established" are not covered by Technopol primary sources and must be obtained from a qualified source. Confirm exact figures for your specification with Technopol. Not for construction without project-specific verification.