

DECORATIVE · ENGINEERING SPECIFICATION

EPS Cornices

This specification covers Technopol EPS Cornices — single-piece decorative fire-retarded expanded-polystyrene wall-to-ceiling mouldings supplied bare in standard 2400 mm lengths and bonded in place — as interior decorative trim with no structural, thermal or fire-resistance function.

Verified technical data

Property	Value	Standard
Product / build-up	Single-piece decorative EPS moulding for the wall-to-ceiling junction; arrives ready to prime and paint	—
Material / grade	Expanded polystyrene (EPS), Technopol "CORNICE" fire-retarded grade; application "Decorative Surface"	—
Nominal density (CORNICE grade)	27 kg/m ³	—
Reaction to fire	Fire-retarded EPS grade; no Euroclass or SANS reaction-to-fire class established for the cornice product	—
Standard length	2400 mm	—
Standard profile cross-section (25 codes P001C–P025C)	26–135 (depth) × 38–180 (height) mm	—
Shadow Line profile cross-section (6 codes SL001–SL006)	135–176 (depth) × 29–67 (height) mm	—
Fixing / installation	Bonded with cornice adhesive at the wall/ceiling junction; no mechanical fixing (5 kg bucket ≈ 50 m, 280 ml tube ≈ 5 m)	—

Scope

- 1.0** This specification covers the supply and installation of Technopol EPS decorative cornices and shadow-line profiles for the interior wall-to-ceiling junction.
- 2.0** The product is decorative interior trim only; structural, spanning, thermal-insulation and fire-resistance functions are expressly excluded and shall not be claimed or specified.
- 3.0** The scope includes the Standard collection (P001C–P025C, plus the P012C W wide variant) and the Shadow Line collection (SL001–SL006); custom profiles and sizes are available on request.
- 4.0** Substrate preparation, applied primer/paint systems, and any LED strip lighting housed in Shadow Line cove channels are outside the supplied product and shall be specified separately.

Materials

- 5.0** Cornices shall be single-piece mouldings of fire-retarded expanded polystyrene (EPS), Technopol "CORNICE" grade, application "Decorative Surface".
- 6.0** The nominal density of the CORNICE grade is 27 kg/m³ (raw sheeting-grade figure from the price list).
- 7.0** Profiles shall be supplied bare — with no factory-applied coating, render, laminate or reinforcement — ready to prime and paint, accepting standard primers and water-based paint systems.
- 8.0** Each profile shall be a fixed cross-section cut/moulded to the standard length; profile geometry (P-series traditional / SL-series shadow-gap) is per the published profile schedule.

Performance

- 9.0** Standard length shall be 2400 mm for all profiles.
- 10.0** Standard collection cross-sections shall fall within the envelope 26–135 mm depth × 38–180 mm height (per-code fixed sections per the published schedule).
- 11.0** Shadow Line collection cross-sections shall fall within the envelope 135–176 mm depth × 29–67 mm height.
- 12.0** Thermal conductivity (λ), R-value and U-value are not published for cornices and are not applicable to the marketed decorative use; no thermal performance shall be attributed to this product.
- 13.0** Compressive strength and any structural/span or load capacity are not published and not applicable; no structural performance shall be attributed to this product.
- 14.0** Dimensional tolerances (length, width, height, squareness) are not published; moisture resistance and dimensional stability are stated only qualitatively, with no quantified values.

Fire

- 15.0** The CORNICE grade is a fire-retarded EPS grade (price-list header: "All Products are Fire Retarded Grades") — a grade property only.
- 16.0** No Euroclass (EN 13501-1) and no SANS (10177 / 428) reaction-to-fire class has been established or published for the cornice product, and none shall be claimed; Technopol's own brochure warns that no Euroclass rating should be claimed for this product.
- 17.0** There is no fire-resistance (REI / minutes) rating and no fire test report (FT/FTC number) for cornices; a reaction-to-fire grade shall not be presented as a fire-resistance rating.
- 18.0** EPS is a combustible thermoplastic: as material data (not a product rating) it melts at ~135–250 °C, auto-ignites at ~360 °C, and on burning emits dense black smoke with carbon monoxide, carbon dioxide and styrene; keep away from ignition sources and heat.
- 19.0** The fire behaviour of the finished installation depends additionally on the substrate, adhesive and applied paint, none of which is characterised in the Technopol sources.

Execution / installation

- 20.0** Cornices shall be bonded with cornice adhesive at the wall/ceiling junction with no mechanical fixing (site brochure identifies the adhesive as a DB Acrylic Sealant).
- 21.0** Adhesive coverage shall be taken as approximately 50 m (20 lengths) per 5 kg bucket and approximately 5 m (2 lengths) per 280 ml tube.
- 22.0** Profiles shall be cut and mitred on site; mitre boxes are available for all profiles on request.
- 23.0** Profiles shall be primed and painted on site with standard primer and water-based paint systems; no factory finish is applied.
- 24.0** Shadow Line profiles shall be mounted horizontally (LED cove channel) or vertically (bulkhead trim) per the specified visual effect.
- 25.0** Handle as lightweight material suitable for one-person installation, keeping the product away from ignition sources and heat per the EPS SDS.

Standards & compliance

- 26.0** ISO 9001:2015 is current for Technopol SA and "EPS Cornice" appears within its quality-certificate scope; this is a management-system certification of the manufacturing process, not a product performance, fire or structural rating.
- 27.0** ISO 14001 (environmental) and ISO 45001 (occupational health & safety) lapsed in March 2026 and shall not be presented as current, notwithstanding the ISO 14001/45001 logos printed in the profile-sheet footers (marketing artwork).
- 28.0** Agrément South Africa certificate 2020/609 covers the LiteCore Building System only; the Agrément SA logo in the cornice sheet footer is a company-level mark and does not certify the cornice product — no product-specific Agrément certificate exists for cornices.
- 29.0** The TIPSASA footer mark denotes association membership, not product certification.
- 30.0** No EN 13501-1 Euroclass, no SANS 10177/428 reaction-to-fire class, and no fire-resistance (REI) test applies to cornices, and none shall be cited.

Specifier's notes — not established in Technopol sources.

- Thermal conductivity (λ) of the cornice EPS is not established in Technopol sources — not published; obtain externally if a thermal value is ever required, and do not specify cornices as insulation.
- R-value / U-value per thickness is not established — not published and not applicable to the marketed use.
- Compressive strength (kPa/MPa) at any strain is not established — no value is printed; the price list gives only a nominal density (27 kg/m³) for the CORNICE grade.
- A reaction-to-fire class with a standard (Euroclass EN 13501-1 or SANS 428 / SANS 10177) is not established — the only fire statement on file is the price-list header "All Products are Fire Retarded Grades"; obtain a class by external testing if required.
- A fire-resistance rating (REI, minutes) and any fire test report (FT/FTC number) is not established — none exists for cornices in the fire-test records.
- The exact fire-retardant additive and FR standard designation for the CORNICE grade is not established — stated only as "Fire Retarded Grade", with no numeric class or additive named.

- Dimensional tolerances (length/width/height, squareness) are not established — not published; confirm required tolerances externally.
- Water absorption and quantified dimensional stability are not established — only qualitative claims ("dimensionally stable and moisture-resistant"), no numbers.
- Surface finish / primer-paint compatibility beyond "ready to prime and paint" is not established — no primer/paint datasheet found; the adhesive is named only as "cornice adhesive" / DB Acrylic Sealant with no technical datasheet.
- Adhesion / bond-strength (pull-off) data for the cornice-adhesive fixing on typical substrates is not established — not published; verify bond by site trial where critical.
- Whether the 27 kg/m³ CORNICE grade density equals the finished-moulding density is not established — it is the raw sheeting-grade figure; no finished-cornice density datasheet exists.
- Unresolved contradiction (ISO 9001 status): the site brochure states the ISO 9001 certificate had expired and must not be presented as current, whereas the authoritative compliance instruction states ISO 9001:2015 is current; this specification follows the current-status instruction (brochure text appears to predate renewal).
- Unresolved contradiction (footer logos): the 2026 profile sheets print ISO 14001/45001, ISO 9001, TIPSASA and Agrément SA logos that could imply product-wide certification; per verified facts these are marketing artwork — ISO 14001/45001 lapsed March 2026 and Agrément 2020/609 covers LiteCore only, not cornices.
- Unresolved contradiction (SKU count): the factbase describes 25 Standard profiles (P001C–P025C) and "31 profiles total", but the source profile sheet also lists a distinct P012C W wide variant (85 × 85 mm), giving 26 Standard SKUs; the "31 total" figure counts 25 base P-codes + 6 SL-codes and excludes P012C W.