



PRODUCT BROCHURE

EPS Cornices (Standard P001C-P025C incl. P012C W, and Shadow Line SL001-SL006)

A one-piece expanded-polystyrene cornice profile, 2400 mm long, bonded into the wall-to-ceiling junction with cornice adhesive and painted on site.

DOCUMENT

ISSUED

PRODUCT

STATUS

TP-BR-CORNICES

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cornices

Issued for use

OVERVIEW

Technopol EPS Cornices are decorative wall-to-ceiling profiles in fire-retarded expanded polystyrene, Technopol's CORNICE grade (nominal 27 kg/m³, application 'Decorative Surface'). They are supplied bare in standard 2400 mm lengths across 32 published sections - 26 Standard sections (P001C to P025C, including the P012C W wide variant) and 6 Shadow Line sections (SL001 to SL006). They are bonded into the junction with cornice adhesive, then primed and painted on site. They give the appearance of a moulded plaster cornice at a fraction of the weight. They are decorative trim: not insulation, not structure, and not rated for fire.

Each cornice is a single length of expanded polystyrene with a fixed cross-section, supplied 2400 mm long. The material is Technopol's CORNICE grade EPS - a fire-retarded grade listed in the flat-sheeting price list at a nominal density of 27 kg/m³ under the application heading 'Decorative Surface'. There is no facing, render, laminate or reinforcement: the profile arrives white and bare, ready to prime and paint with water-based systems.

The Standard collection runs from a small 48 x 38 mm trim (P014C) to a deep 120 x 180 mm ornate section (P003C). The Shadow Line collection is a set of broad shadow-gap sections from 135 to 176 mm deep by 29 to 67 mm high: the shallowest is SL001 (135 x 29 mm), the deepest reveal is SL002 (158 x 67 mm), and the widest is SL004 (176 x 43 mm). Every published section is 2400 mm long. Pack quantities differ per code, from 11 lengths per box (SL003) and 12 (P009C) up to 80 (P014C).

Fixing is by adhesive bond alone, onto both the wall leg and the ceiling leg of the profile. There is no mechanical fixing, and none should be attempted: 27 kg/m³ foam holds no screw or nail. Mitre boxes are available for all profiles on request, and custom profiles and sizes are made to order.

Shadow Line profiles are dual-purpose. Run horizontally they form a cove channel that can carry an LED strip for indirect lighting; run vertically they act as a bulkhead trim.

KEY FACTS

PROPERTY	VALUE
Material and grade	Expanded polystyrene, Technopol CORNICE fire-retarded grade, application 'Decorative Surface' [°]
Nominal density	27 kg/m³ [°]
Standard length	2400 mm - every one of the 32 published sections [°]
Standard collection - section envelope	26 to 135 mm depth x 38 to 180 mm height, across 26 sections (P001C to P025C, including P012C W at 85 x 85 mm) [°]
Shadow Line - section envelope	135 to 176 mm depth x 29 to 67 mm height, across 6 sections (SL001 to SL006) [°]
Pack quantities	11 to 80 lengths per box, by code: SL003 11, P009C 12, P014C 80. Full schedule in the Design Guide. [°]
Fixing	Adhesive bond onto both contact faces - the wall leg and the ceiling leg. No mechanical fixing. [°]
Adhesive and coverage	Cornice adhesive: a 5 kg pail covers about 50 m (20 lengths); a 280 ml cartridge covers about 5 m (2 lengths). Order with wastage for mitres. [°]

PROPERTY	VALUE
Finish	Supplied bare, ready to prime and paint. Water-based primer and paint systems only - no oil-based or alkyd primer, no solvent-based sealer, no lacquer, no spray paint. [°]
Mitre boxes	Available for all profiles on request [°]
Reaction to fire	No reaction-to-fire class is declared for EPS Cornices - no Euroclass, no SANS 428 listing, no SANS 10177 class. The material is a fire-retarded EPS grade ('All Products are Fire Retarded Grades', price-list header). A fire-retarded grade is treated EPS, not non-combustible EPS. [°]
Fire resistance	Cornices are not rated as fire-resisting elements. A fire-resistance rating (REI, in minutes) belongs to a tested assembly; a cornice is an adhered decorative trim and carries no such rating. [°]
Sustained temperature limit	EPS softens and creeps above roughly 70-80 C. Keep cornices clear of any surface that stays in or above that range. [°]
Thermal performance	None declared. Cornices are decorative trim, not insulation, and do not belong in an R-value or SANS 10400-XA calculation. [°]
Quality system	ISO 9001:2015 (Reg. Q 2016024, EQCSA / SANAS C22) names 'EPS Cornice' in its scope and is valid to 2028-06-02. It certifies the factory's management system, not the product's performance. [°]

[°] Catalogue or declared value — Technopol holds no test report for this figure. It is the value we publish for the grade, not a measurement of the delivered batch. Where a figure is load-bearing in your design, specify batch testing. Every test report and certificate we do hold, with its current status, is at technopol.co.za/verify.

WHERE IT IS USED

- Wall-to-ceiling cornice and coving in dwellings, apartments, offices and retail interiors - internal, dry, painted.
- Traditional crown and ornate mouldings where a plaster-look profile is wanted without the weight of a fibrous-plaster cornice.
- Restoration and heritage-look profiles on existing ceilings that cannot take the dead load of plaster.
- Indirect LED cove lighting - Shadow Line profiles mounted horizontally form a channel for an LED strip. Detail it to the temperature rules in the Design Guide.
- Bulkhead trims and ceiling-depth detailing - Shadow Line profiles mounted vertically.
- Fast-track ceiling finishing on new builds and refits: one person carries and fixes a 2400 mm length.

WHERE NOT TO USE IT

- Not for use where the ceiling finish must carry a declared reaction-to-fire class - escape routes, corridors, stairwells, hospitals, schools, high-occupancy assembly spaces. No reaction-to-fire class is declared for EPS Cornices. Specify plaster, gypsum or fibrous-cement cornice there.
- Not for use in a fire-rated ceiling or wall assembly. The rating belongs to the assembly that was tested; bonding a combustible EPS trim into it changes the assembly.
- Not for external use - verandas, patio soffits, sun-exposed eaves - and not to be left unpainted anywhere. Bare EPS degrades under UV: it chinks and crumbles. A profile that must go outside has to be fully encapsulated in a render or coating system (Terraco, for example). Indoors, always prime and paint.

- Not to be touched by solvent-based products: contact adhesives, solvent-based 'no-nails' adhesives, oil-based or alkyd primers and undercoats, lacquers, spirit-based sealers, spray paints. Aromatic solvents dissolve EPS on contact - the profile pits, melts and lets go at the bond line, sometimes hours after the installer has left site. Water-based products only.
- Not load-bearing, and not a fixing base. Do not hang a curtain track, pelmet, projector mount, speaker or light fitting off a cornice, and do not use it as a structural fillet. The fixing is an adhesive bond only, and 27 kg/m³ foam holds no mechanical fixing.
- Not for use against a sustained heat source: recessed halogen or incandescent downlights, luminaire bodies, flues, chimney breasts, heater outlets, or any surface that stays above roughly 70-80 C. EPS softens and creeps in that range.
- Not insulation. Cornices carry no declared thermal performance and do not belong in an R-value or SANS 10400-XA calculation.
- Not for a specification that demands conformity to a named product standard. No SANS, EN or ASTM product standard covers EPS decorative cornice profiles; specify by profile code, section, length and finish instead.

How to read this document. Every technical value carries a label saying where it came from — whether an accredited laboratory measured it, whether Technopol measured it, or whether it is simply the figure the standard tabulates for that class of material. Values we have not tested are marked as such rather than presented as test results.

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