

FORTEX™ TECHNICAL DATA SHEET

51mm Bottom Channel | 50mm AAC Panel Wall Systems

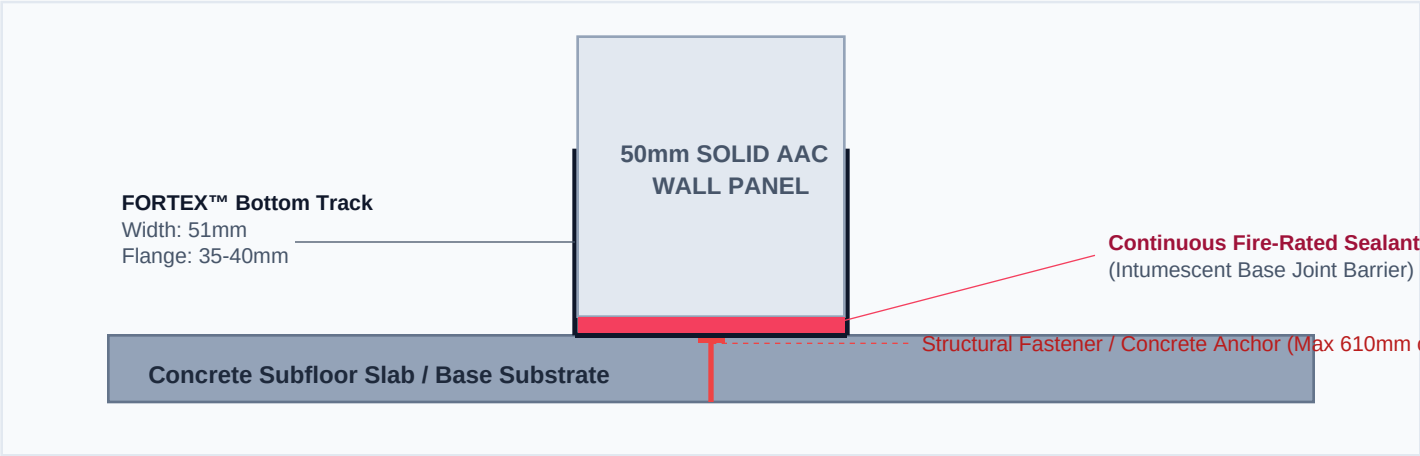
Product Overview

The **FORTEX™ 51mm Bottom Channel** is a premium, cold-formed galvanized steel track specifically designed to position, align, and support 50mm Autoclaved Aerated Concrete (AAC) panels at the base of structural and non-structural wall assemblies. This track encapsulates the bottom edge of the panel, providing mechanical tracking resistance and creating an optimal interface for high-performance fire-rated intumescent sealants to maintain continuous fire compartmentation at the slab-to-panel junction.

Physical & Material Specifications

Parameter	Specification (Metric / Engineering Standard)
Product Name	FORTEX™ 51mm Bottom Channel
Compatible Core	50mm Solid AAC Panels (Autoclaved Aerated Concrete)
Nominal Internal Web Width	51 mm (Engineered clearance for 50mm panels)
Flange / Leg Height	35 mm – 40 mm (Standard base retaining height)
Base Metal Thickness (BMT)	0.70 mm (Minimum 24 Gauge / 33 mil equivalent)
Standard Length	3000 mm (3.0 meters)
Material Metallurgy	High-tensile steel compliant with ASTM A653 / ASTM C645
Galvanized Coating Class	Z275 / G90 heavy anti-corrosion barrier coating

Technical Drawing & Base Installation Detail



Engineering & On-Site Installation Mandates

- **Subfloor Mechanical Attachment:** Fix the FORTEx™ bottom track securely to the concrete subfloor using masonry anchors or structural concrete fasteners. Fasteners must be installed at a maximum spacing of 610mm (24 inches) on center, with a minimum edge distance of 50mm from slab edge boundaries.
- **Subfloor Leveling & Preparation:** The slab surface must be structurally clean and free of deflection cracks or debris. Where slight leveling deviations occur, pack the track uniform with high-compressive non-shrink cementitious grout under the web before anchoring.
- **Fire Sealant Application Code:** A continuous, non-broken bead of certified fire-rated intumescent sealant must be applied along the bottom internal web cavity of the track prior to setting the AAC panel. This guarantees acoustic damping and satisfies structural Fire Resistance Levels (FRL).
- **Panel Seating & Alignment:** Carefully guide the 50mm AAC panel vertically directly down into the 51mm internal clear width of the track. Ensure the panel base makes a flat, uniform bearing relationship with the internal base of the track, compressing the sealant cleanly without shifting structural lines.
- **Corrosion Performance Standards:** The heavy Z275/G90 galvanized finish shields raw cold-formed carbon steel against moisture transmission typical of wet-concrete curing phases. All structural on-site cut fields must be cleaned and coated locally with cold-galvanizing zinc sprays to preserve barrier integrity.

This is for informational purposes only. For medical advice or diagnosis, consult a professional. AI responses may include mistakes.