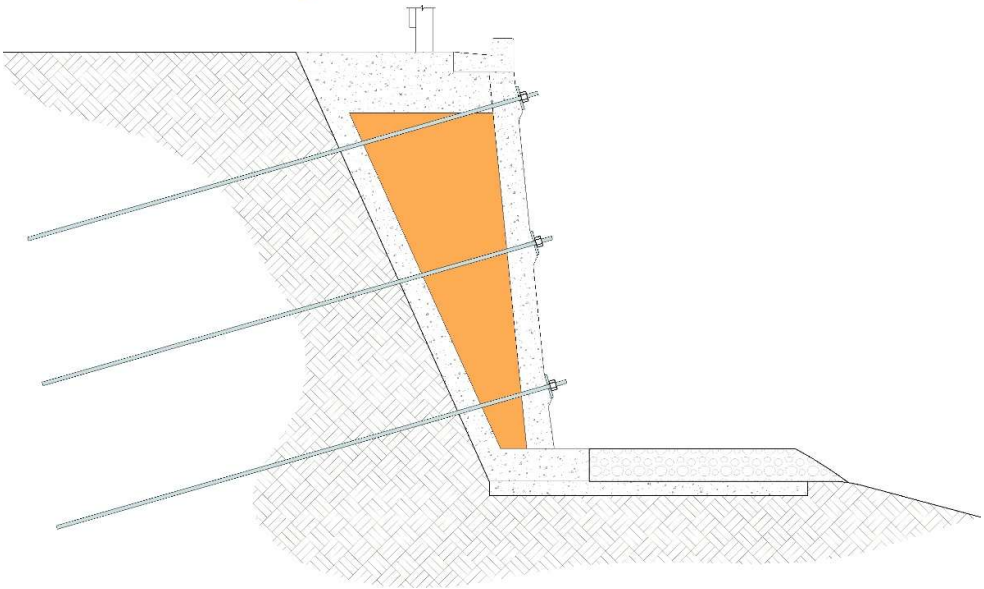

NZ Foam – Rapidfill Technology

Lightweight Fill & Trench Break System

Overview

Rapidfill Foam is a high-performance, closed-cell spray foam developed for use in civil construction as lightweight fill and trench breaks. It provides a fast, reliable solution for stabilising ground conditions and controlling water flow—without the heavy machinery or bulk material transport of traditional methods.

Why Use Rapidfill Foam?

- **Fast, Clean Installation:** Applied directly on-site with minimal disruption—no need for trucked-in aggregate or sandbags.
- **Lightweight Yet Strong:** Ideal for soft soils, steep grades, or areas requiring load-sensitive solutions.
- **Cost & Labour Savings:** Speeds up installation timelines and reduces site labour requirements.
- **Low Carbon Footprint:** Fewer truck movements and reduced site impact.
- **Remote Access Capable:** Can be installed over 150m from the roadside

Technical Snapshot

- **Foam Density (sprayed):** 36–44 kg/m^3
- **Standard Compressive Strength: Can be adjusted for specific Jobs**
  - 211 kPa (parallel to rise)
  - 110 kPa (perpendicular to rise)
- **Cure Time:** 95% cured in 1 hour, full cure in 24 hours
- **Backfill Timing:** After 24 hours