

Method statement for BC expanded polystyrene (EPS)

Given below is a detailed Method Statement for the application of Expanded Polystyrene (EPS) in construction projects. EPS is commonly used for insulation, lightweight fill, or other construction purposes.

Purpose

To ensure proper handling, installation, and finishing of Expanded Polystyrene (EPS) in compliance with project specifications, safety requirements, and best practices.

Scope

This method statement covers the procedure for receiving, cutting, shaping, and installing EPS panels or blocks in applications such as insulation, void filling, or lightweight construction.



Materials and Tools

Materials:

Expanded Polystyrene (EPS) panels
Adhesive (e.g., polystyrene-compatible glue)
Mechanical fasteners (if required)
Protective coatings (if necessary)

Tools:

Hot wire cutter or hand saw for shaping
Measuring tape
Level and square
Foam adhesive application tools
Personal protective equipment (PPE)
Brushes, rollers, or sprayers for protective coatings (optional)

Responsibilities

Site Engineer:

Oversee the proper installation of EPS in accordance with the method statement.

Site Supervisor:

Ensure workers follow the procedure and maintain safety protocols.

Workers:

Handle and install EPS as per instructions.

Procedure

Delivery and Storage

Inspect EPS for damages during delivery. Reject damaged materials.

Store EPS panels/blocks in a clean, dry, and shaded area to avoid exposure to sunlight, moisture, or physical damage.

Stack EPS blocks flat and on a level surface.

Preparation

Site Inspection:

Verify that the substrate is clean, dry, and level.

Ensure any necessary surface preparation (e.g., cleaning or priming) is completed.

Measurements and Layout:

Measure and mark areas where EPS is to be installed.

Confirm the size and shape of the EPS blocks/panels match project requirements.

Cutting and Shaping

Cut EPS panels to required sizes using a hot wire cutter or a fine-tooth hand saw to avoid damage.

Ensure edges are straight and free from roughness for better fit and adhesion.

Installation

Adhesive Application (if required):

Apply polystyrene-compatible adhesive in a consistent pattern (e.g., full coverage or perimeter beads).

Press EPS firmly into place to ensure adhesion.

Mechanical Fixing (if required):

Use screws with large washers or specialized mechanical fasteners.

Ensure fasteners penetrate securely into the substrate without deforming the EPS.

Joint Treatment:

Minimize gaps between EPS blocks.

Fill any gaps with adhesive or low-expansion polyurethane foam.

Finishing

Apply protective coatings (e.g., fire-resistant or waterproof coatings) if specified in the project.

Ensure coatings are compatible with EPS material.

Inspection and Quality Control

Verify proper alignment, level, and secure fixing of all EPS panels.

Check that any protective layers or coatings are evenly applied and properly adhered.

Safety Measures

Workers must wear appropriate PPE (gloves, goggles, dust masks).

Use cutting tools (e.g., hot wire cutter) carefully and avoid inhaling fumes.

Store EPS away from flammable materials and open flames.

Cleanup

Dispose of EPS waste in designated areas following local environmental regulations.

Clean tools and equipment after use.

Project specifications and drawings

Relevant safety and environmental regulations