



ENVIROWALL LIMITED NBS SPECIFICATION: ENVIROWALL EXTERNAL WALL INSULATION SYSTEM TO MASONRY SYSTEM WITH SIMULATED BRICK FINISH

M21 EXTERNAL INSULATED RENDER SYSTEM

To be read with Preliminaries/General conditions.

SYSTEM SUPPLIER:- Envirowall Ltd., Orchard House, Aire Valley Business Centre, Keighley, Yorkshire, BD21 3DU Tel.01535 661633 Fax.01535 661933 email info@envirowall.co.uk web. www.envirowall.co.uk.

101 TYPE(S) OF COATING

Envirowall Insulation system to masonry with brick effect render.

ADHESIVE MORTAR – Envirowall HP12 polymer **Ref.ETBC101** modified adhesive or Granol –G **Ref.GRBC101** Highly Polymer modified adhesive mortar. 25kg bags

INSULATION – Envirowall Polystyrene **Ref.PSE_ _ _ (select insulation thickness)**, Mineral wool **Ref.RMD_ _ _ (select insulation thickness)** or Phenolic insulation **Ref.PPL_ _ _ (select insulation thickness)** thickness to meet specified U-Value.

FIXINGS – Envirowall TID or TDK dependant on result of pull out tests. Length of fixing dependant on insulation thickness and ensuring 40mm embedment.

BASE COAT - Envirowall HP12 polymer modified base coat **Ref.ETBC101** or Granol –G **Ref.GRBC101** Highly Polymer modified base coat.

TOP COAT – Envirowall Brick-Rend **Ref.ETTC101**.

PROFILES – Envirowall powder coated galvanised with plastic nosing.

- 1.1 PROTECTION:** All doors, windows, frames, fascias and other areas of the existing structure not forming part of this section of the works shall be fully protected by means of masking tape and polythene sheet or other acceptable alternative means.

All areas of existing paths and paved areas and landscaped works shall be adequately covered to avoid damage by all external Insulation works including scaffolding erected in connected therewith.

Any damage caused by the specialist External Insulation installer to the existing surface of the windows, and/or the paved and landscaped areas during the execution of the works shall be made good, cleaned off or replaced entirely at his expense, to the satisfaction of the architect, before practical completion.

SYSTEM INSTALLATION

SURFACE PREPARATION:

1.2 BASE BEAD: Powder coated base beads with pvc nose, **Ref.ETBB_ _ (select thickness of insulation)** shall be fitted immediately above the dpc. Care must be taken to ensure a true horizontal line is maintained. The bead shall be carefully cut and formed into door reveals.

1.3 INSULATION FIXING: insulation boards, shall be fitted starting from the base bead, vertical joints shall be staggered and no cut boards less than 200mm wide shall be used. Together with all necessary standard accessories and fixings shall be fixed strictly in accordance with the Envirowall standard installation procedure. Fixing generally shall consist of one anchor in the centre of each board and one in each corner (a total of five anchors per board). Extra fixings are required round openings such as doors and windows, and at external corners. Please refer to the Envirowall fixing pattern drawing for further detail.

Expansion beads required shall be fitted after first cutting through the insulation to the substructure, prior to fixing the reinforcement. Any further beads such as corner angles, must be fitted **after** the reinforcement base coat is applied in order to maintain the full strength of the reinforcement at vulnerable areas.

1.4 EXPANSION BEADS: Powder coated expansion beads with pvc nose, **Ref.FSEX_ _ _ (select insulation thickness)** shall be fitted as indicated on the drawings, after first cutting through the insulation as described above.

1.5 RENDER WORK: All work shall be carried out in strict accordance with B.S.5262 and B.S.8000 Part 10.

The renders are to be pre-bagged, with water only added on site, and mixed strictly in accordance with the manufacturer's instructions. **No other additives are necessary or permitted.**

1.5 BASE COAT/SCRIM ADHESIVE: A 4-6mm coat of Envirowall base coat render **Ref.ETBC101** shall be applied and reinforcement mesh **Ref.EM1** trowelled in with all joints overlapped by 100mm. Extra patches approximately 200mm by 600mm shall be applied diagonally at each corner of openings such as windows, doors and balanced flue outlets.

1.6 ENVIRO-BRICK FINISH: This finish shall be applied in accordance with the Envirowall application instructions.

All work shall be executed by competent tradesmen employed by the approved specialist contractor.

1.7 SEALANTS: On completion of the base coat render application a 5mm bead of sealant Ref **FC140** must be applied to all junctions of the insulation render system and other buildings materials such as window and door frames, eaves and wall vents.

All work shall be executed by competent tradesmen employed by the approved specialist contractor, and who have completed the Envirowall training course.

1.8 FINAL CLEANING: Remove masking tape and polythene sheeting, clean off all marks, blemishes and splashes and all traces of render and mastic from windows, door frames, sills and other affected surfaces and leave the works complete and to the satisfaction of the

1.9 PLANTS AND SHRUBS: Where practical, and in consultation with the occupants, all plants and shrubs shall be carefully pulled away from the walls and netted to allow the work to proceed, and reinstated on completion.

2. TEMPORARY WORKS: During the progress of the external insulation works temporary diversions to the existing gutters (after temporary removal of the rainwater pipes) must be provided and maintained, such diversions shall be to the architects satisfaction and must not impede the erection of the scaffolding or the progress of the works.

2.1 STORAGE AND HANDLING: Care shall be taken in off-loading, storage, hoisting and placing in the final fixed positions of panels, fittings and fixtures. The Contractor must ensure adequate and proper protection to all materials in storage.

Any damage suffered to the panels, fittings and fixtures whilst on site shall be the responsibility of the contractor.

2.2 INCLEMENT WEATHER: All work shall be executed with due regard to the prevailing/anticipated weather conditions.

External rendering shall not be carried out during frosty weather or if the temperature falls below 3°C (unless sheeted protection and heating is provided) or if the substrata is frozen or there is a risk of frost damage before the render has had it's initial set.

In hot and windy weather rendering should be carried on elevations which have received the sun. If this is impractical, spraying with water or hanging a protective sheet over the work should be carried out to prevent premature curing.

2.3 INSPECTION: All work shall be subject to regular inspection and acceptance by the Architect or his representative, and by the manufacturers technical representatives.

All work to be executed in compliance with the employer's requirements, good practice and in strict accordance with the systems instructions.

Any work failing to comply with any of the above shall be taken down and refixed, at the contractors own expense, to comply with any of the above.

2.4 REMOVAL OF RUBBISH: Remove and dispose of all debris, surplus material and redundant protective material during the course of the work.

2.5 PREPARATORY WORK: Prior to the installation it is essential that on-site investigation and tests be carried out to determine the type and quantity of anchors that are used. Results of these tests shall be made available to the architect, the Main Contractor and the system designer.

2.6 DUBBING OUT: Where necessary, existing walls which are to receive the Envirowall insulated render system shall be dubbed out using dubbing mortar.

2.7 EXTERNAL PLUMBING: Modification of overflows shall be made to accommodate the new overall thickness of the system.

Repairs to major defects and cracks in the surface of the existing structure are deemed to have been carried out prior to the application of the Envirowall system.

2.8 FINAL CLEANING: Remove masking tape and polythene sheeting, clean off all marks, blemishes and splashes and all traces of render and mastic from windows, door frames, sills and other affected surfaces and leave the works complete and to the satisfaction of the