

## **Items For Consideration Are:**

Any site restrictions for storage.  
Access for deliveries.

## **The contractor is responsible for the consideration of the following:**

The condition of the substrate.  
Exposure conditions  
Working hours permissible  
Any other items which may affect the application of the system

## **Deliveries and Storage**

It is the Wall-reform contractors responsibility to ensure that all materials are ordered and delivered to suit the site/clients requirements. All materials must be stored in accordance with wall-reform system requirements and Walltransform will not accept responsibility for claims relating to defective or damaged materials prior to application. The contractor must only apply the materials that have been correctly stored and fit for purpose in accordance with this specification and procedures recommended by Walltransform LTD.

## **The specification and dealing on site**

The approved installers are responsible for the correct application of the system in accordance with this specification and should make themselves aware of the detailing requirements included therein.

## **Main contractor responsibilities (When carried out through main contractor)**

The main contractor shall allow supplying suitable scaffolding to carry out the external insulation works. They should liaise with the Wall-reform approved installers for the correct type and positioning of the scaffolding. Any surface mounted fixtures and fittings should be removed from wall surfaces and temporarily fixed during the application process. These should be re-fixed on completion in accordance to Walltransform recommendations.

Where the approved installer is acting as the main contractor, they shall assume responsibility for these clauses.

## Walltransform

The performance of Walltransform products is dependant on storage, handling, mixing and weather conditions ect.

### Storage

All materials must be stored in accordance with wall-reform system requirements. The contractor must only apply the materials that have been correctly stored and fit for purpose in accordance with this specification.

All powders must be stored on pallets in a **DRY, WELL-VENTILATED** environment such as a container. The powders must be protected from frost at all times and stored no less than 5 degrees Celsius

### Handling

It is the responsibility of the approved contractor to take care when handling all products to prevent unnecessary damage to packaging and materials

Gloves should be worn when handling profiles and masks when handling powders.

### Additional site requirements

A clean water supply must be made available for mixing powders and for cleaning tools and equipment. Use only clean water for mixing powders as contaminated water may affect the mortar blend.

Use 110-volt power supply for all power tools ect.

All hand tools, power tools, mixing tubs, buckets ect. are supplied by the Wall-reform approved installer.

### **Weather conditions**

For the application of the Wall-reform system the Code Of Practice BS 5262: 1991, external Render Finishes for hot and cold weather conditions apply.

The mixing and application of all powders must not be carried out where the temp is below 5 degrees Celsius on a falling thermometer, or 3 degrees Celsius on a rising thermometer.

The Wall-reform system should not be applied when the air or wall surface is above 30 degrees Celsius, and the contractor should only apply renders to shaded elevations during the summer months.

### **Wall-reform coverage rates**

The coverage rates of Wall-reform render vary on the weather condition, craftsmen skills and site conditions. Walltransform Ltd will not, under any circumstances, guarantee the coverage rates for its materials. All rates quoted are for guidance only and no allowance is made for waste.

Walltransform Ltd will not allow any claims relating to coverage rates of materials.

### **Application standards for Wall-reform**

All rendering should be carried out strictly in accordance with BS 5262: 1991 Code Of Practice for external rendering, BS 8000: Part 10: 1995 Code Of Practice for plastering and rendering, and the recommendations of Wall-reform.

All paints and decorative materials must be applied to dry backgrounds in suitable weather conditions, strictly in accordance with the relevant clauses in BS 6150: 1991 Code of Practice for painting of buildings and BS 8000: Part 12 1989 for workmanship and building sites, Code of Practice for decorative wall coverings and painting.

### **Resistance to cracking**

Contractors should take care to minimise cracking as referred to in BS 5262: 1991: Paragraph 27.

Reduce the risk of cracking by not overworking mortars and avoidance of too rapid drying out of mortars to BS 5262: 1991 Paragraph 28.

### **Durability and Appearance**

When correctly applied in accordance with the specification and Walltransform Ltd standard procedures the Wall-reform system should remain effective for at least 20 years (as indicated by the BBA). Any maintenance and or damage repair to the system must be referred to Walltransform for instructions.

The appearance of the finished renders may be affected by the natural weathering; however, they can be cleaned in strict accordance with Walltransform recommendations.

### **The Building Structure and Site Conditions**

The existing structure is deemed suitable to receive the system and all necessary structural and concrete repairs have been carried out prior to the system being applied. Any potential problems are to be notified by the approved installer prior to commencement of the work, to contact the administrator and Walltransform.

Scaffolding should be independent with an ideal gap of 300mm from the elevation face to allow access by the contractor. Where freestanding scaffolding is not feasible, careful liaison with the client and main contractor should be arranged to accommodate any tie points. There must be protected access to the dwellings at all times. The contractors must allow enough clearance for wheelchair and pram access.

It is the responsibility of the contractor to provide any netting to the scaffolding and also to ensure that all ladders are stored away at night to prevent child access to the scaffolding.

Any new windows should be fitted prior to applying the system. The exact positioning should be shown on construction drawings. New windows should include extended sills, which should project a minimum of 30mm beyond the finished face of the system. (The preferred projection 50mm). In some cases the window may require overcills. These are made to order, please refer to the manufacturers recommendations.

## Accessories

These are the trims, flashings, overcills, and undercills. They are polyester powder coated Aluminium, galvanised steel or stainless steel. The trims and flashings are used at the edges of the system at eaves, verges and copings ect. They are fitted using recommended fixings. Items such as copings and overcills are made to individual customer requirements.

## Reinforcement Mesh

Patches measuring a minimum of 600mm x 100mm should be applied diagonally at each corner of all windows, doors, service boxes, ect, and other openings which cause corner stress. These strips should be kept as close to the corners as possible.

## Health and Safety Precautions Of Walltransform Products

Protective clothing should be worn to prevent contact with both dry, unmixed materials and with wet mixed products. Great care must be taken to avoid contact with eyes. When mixing powders a filter mask should be worn. Where utilised, insulation materials, gloves and masks should be worn. When excessive concentration of dust may accumulate, the measures defined in the Health and Safety executive publication EH 40/49 'Occupational Exposure Limit 1994 for unlisted substances' should be followed.

## Spillage of Materials

Polymer renders are highly adhesive and all necessary precautions must be taken to protect footpaths, windows and window cills, adjacent walls, roof surfaces ect, from spillage, which may cause stains.

Additionally, all windows and adjacent surfaces should be protected during the application of fungicidal wash, stabilising solution and masonry paints.

## Specification for the Installation of Wall-Reform

### General Information Requirements

#### Description of Work:

The work shall consist of the provision of the Wall-Reform External Wall Insulation System, together with all trims and accessories, obtained from Walltransform Ltd and installed by a Wall-Reform Approved authorised installer in accordance with the BBA certificate 02/3951

**APPLICATION: Used as an insulating base coat i.e. for block work or brickwork render. It can also be used as a plaster for internal applications**

**Drawings:** The installation shall be carried out to the following specification and in accordance with Architect drawings.

**Protection:** All doors, windows, frames fascias and other areas of the existing structure not part of the works must be fully protected by means of polythene sheet, masking tape or other such means.

All areas of pathways, paved areas and landscape must be covered to avoid damage by all external works including any erected scaffolding.

**Use hardboard placed along the ground at the base of the substrate to collect dropped material for easier cleaning and to keep site clean.**

Any damage caused by the External Insulation installer to existing surfaces, windows paved or landscaped areas, during the execution of the works must be cleaned off and made good to the satisfaction of the architect, before completion of the works.

**Plants & Shrubs:** If required by the occupants, all plants and shrubs shall be carefully pulled away from the walls and netted to allow the work to proceed. These should be reinstated on completion.

**Temporary Works:** During the process of the external insulation works, temporary diversions to the existing gutters must be provided and maintained, but must not impede the erection of the scaffolding or the progress of the works.

**Corner Beads:** These shall be fitted at all building corners and reveals to window and door openings.

## Wall-Reform I General Notes and Typical Installation Process Last Updated: 7.11.07

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The Wall-Reform renders are pre-bagged, with water added on site and mixed strictly in accordance with the manufacturer's instructions.

**Finishes:** When the base coat has cured, finish using a decorative BBA approved top coat as specified to Wall-Reform Approved applicators.

**Sealants:** On completion of the base coat render application a mastic sealant must be applied to all junctions of the insulation render system and to windows, door frames and wall vents.

All work shall be carried out by approved Wall-Reform installers.

**Final Cleaning:** Remove polythene sheets, masking tape and clean off any blemishes, splashes and all traces of render and mastic from windows, door frames cills and any other affected areas. Leave the works complete and to the architects/clients satisfaction.

**Other Surfaces:** Allow to fit Trunking, complete with powder coated aluminium cover plate over gas risers. All vents are to be treated as 'Live'. Allow to remove all satellite dishes and aerials, these should be temporarily fitted and reinstated after the application of the system.

**Surface Preparation:** The contractor must prepare the wall surface by means of pressure washing and or wire brushing to remove spalling brickwork, friable render or any loose or powdery materials where necessary.

Hack off any existing render bellcast at D.P.C level and/or window or door heads.

Where specified, apply Fungicidal Treatment and stabilising solution. These are to be applied strictly in accordance with Walltransform recommendations.

These are applied by brush, roller or spray. The preferred method is to be agreed with the contract administrator.

Spray application to be low pressure, non-atomising spray equipment.

Operatives should wear protective clothing and equipment at all times whilst applying these products.

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Prior to application of these products, advise tenants to keep all windows and doors closed, keep any pets inside, and protect against overspray or drips.

Full containers must be secure, and used containers must be disposed of in accordance with Health and Safety guidelines.

**Base Bead: UPVC** or other base beads 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 and can be hammer fixed or adhesive fixed.

**Adjoining Private Properties:** At the junction of properties to be treated the insulation shall be fitted 10mm short of the centre line of the party wall, allowing for the base coat and the finish to be returned to meet the existing wall. Alternatively, and in accordance with the Architects instructions, a full system render stop bead may be substituted and the insulation and render finished to the bead.

**Overcills:** Made to measure overcills are to be fitted where required, prior to applying the system.

**Expansion Beads:** Expansion beads with upvc nose, shall be fitted as required.

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

**Application:** The dry mortar is intensively mixed with 5 litres of clean water to each sack. When preparing the mortar, make sure that the mixing time and consistency are constant, as this ensures the render is consistent texture. When mixing the mortar by hand, allow the material to mature for approx 3 minutes before stirring once again.

For the application you should use a stainless steel trowel or corresponding spray equipment in grain size, after which you rub evenly with a synthetic trowel or wooden mortarboard.

The fresh render must be protected against driving rain and from drying out too quickly. Special protective measures e.g. shrouding the façade or the scaffold, are required in the event of direct sunlight or wind effects. Do not apply at substrate and/or ambient temperatures below +5 degrees Celsius. Clean tools and equipment with water immediately after use.

**Inspection:** All work is to be executed in compliance with the employer's requirements, good practice and in strict accordance with manufacturers installation instructions.

Any work failing to comply with any of the above shall be taken down and made good at the contractor's own expense.

**Removal of Rubbish:** Remove and dispose of all debris, surplus material and redundant protective material during the course of the work.

**External Plumbing:** Modification of overflows shall be made to accommodate the new finish.

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 Wall-Reform system.

## Typical Application – Wall-Reform I

### Wall-Reform 1 Insulating Render System

1. Remove all extraneous and loose fittings and leave temporarily supported but brought away from wall surface to enable insulation and render works to proceed.
2. Extend any existing service and waste pipework.
3. Extend any existing balanced flues and air grates and provide temporary protection.
4. Hammer test and hack off any loose or defective render and remove from site.
5. Remove any adjacent growth or cut back to suit, away from the new working area.
6. Dub out any bare areas or low spots where applicable
7. Brush down loose particles and apply stabilising solution to existing sub-strate
8. Apply tinted fungicidal wash to existing substrate where necessary
9. Install bellcast bead/starter track and all ancillary full depth beads where required, including movement joint stop beads, and capping beads. Shim out to true line and level where necessary.
10. Install undercill sections where applicable.
11. Install where applicable purpose made, powder coated aluminium ductwork sections for major service pipework e.g external gas, oil or LPG service
12. Fix Tanalised timber pattresses to receive fixings for extraneous items e.g RWPS, satellite dishes etc. Nominal size 150 x 225mm x 38mm. Note position of each pattress with a prominent temporary central fixing, proud of subsequent render coats highlight with chrome headed stainless steel screw
13. Fix UPVC overcills and bed on silicone mastic seal. Fix trims corner beads etc. use Wall-Reform no-nails adhesive.

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14. Brush apply, Wall Reform liquid primer to all wall surfaces immediately prior to basecoat application.
15. Apply Wall Reform basecoat – 1<sup>st</sup> pass pricking up coat nominal thickness 15mm to all wall areas working between profiles using up strokes only
16. Apply final pass of Wall-Reform basecoat render working to 25mm thickness into corner beads and under cills and full depth cappings. Float finish and rasp down with rasping float on completion, to remove high spots and leave smooth and level to receive thin coat finish.
17. Press into wet material reinforcing mesh patches at reveal corner positions at 45 deg mesh size 300mm x 225mm. Maintain a clearance of 75mm to reveal corner.
18. Apply Walltransform sealer coat to Wall-Reform application.
19. Apply Granol or chosen BBA top coat render immediately whilst primer is still tacky 1.5 mm - 5mm quartz grain size to all general areas with stainless steel float and finish with plastic float to form random pattern
20. Apply silicone mastic seals at all junctions and to new overcill and undercill positions
21. **Alternative fixing methods for heavy extraneous items e.g satellite dishes. Resin anchor bolt fixing or captive expanding anchor bolt with spacers and neoprene/stainless steel washers.**
22. EXTERNAL PLUMBING: Modification of overflows shall be made to accommodate the new finish.
23. 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 Wall-Reform system.
24. FINAL CLEANING: Remove polythene sheets, masking tape and clean off any blemishes, splashes and all traces of render and mastic from windows, door frames cills and any other affected areas.
25. Ensure all profile nosings are thoroughly cleaned. This should be carried out whilst render products are still wet.

26. Ensure any loose wiring removed during the preparatory works is refitted and replace rainwater goods, repair any broken brackets and clean down and retained rainwater goods. Refit all other fittings, which were removed prior to the application of the system.
27. Remove any excess materials and equipment from the site and dispose of all waste in accordance to Health and Safety guidelines.
28. All work is to be executed in compliance with the employer's requirements, good practice and in strict accordance with manufacturer's installation instructions.
29. Any work failing to comply with any of the above shall be taken down and made good at the contractor's own expense.
30. Remove and dispose of all debris, surplus material and redundant protective material during the course of the work.
31. Obtain signature from the client confirming the job has been completed satisfactorily.