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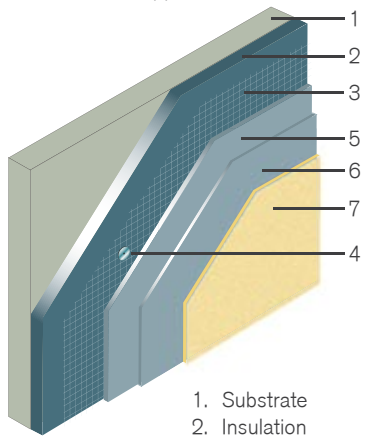
External Wall Insulation
Heavy Duty System - NSC5 - Low Rise Applications

Diagram 4
Heavy Duty System - NSC5 - sequence of layers for low rise applications



1. Substrate
2. Insulation
3. Mesh
4. Fixing
5. Basecoat render
6. Basecoat render
7. Finish

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Product Sheets 2

Characteristics
The system uses a thicker build up of polymer modified renders with a steel mesh, through fixed, to provide a more robust build up, ready for the decorative finish. Used generally in more exposed and coastal and on buildings with high usage levels such as schools.

Benefits
- Fast installation
- High thermal efficiency
- Maximum level of impact resistance
- Vapour permeable
- Flexible choice of final texture, colour and effect

Insulants
Insulants available are:
- Expanded Polystyrene
- Mineral Wool

All insulants are available as rigid boards in standard sizes of 1200 x 600mm and in a range of thicknesses typically in increments of 10mm.

Mesh
Stainless or galvanised steel reinforcing mesh in sheet form is fixed to the insulation panels with fixings.

Fixings
Selected proprietary insulation fixings nominally at the rate of 6-8 per m^2. Fixing type is dependant on existing substrate.

Basecoat Render - First Layer
First layer of polymer modified basecoat render incorporating lightweight aggregates and reinforcing polyester fibres applied to a thickness of 8mm.

Basecoat Render - Second Layer
In addition to the initial 8mm basecoat, a second layer of render is applied to a thickness of 6mm, giving an overall thickness of 14mm.

Accessories
A wide range of bellcast, capping, bead and joint profiles are available in aluminium, polyester powder coated galvanised steel, stainless steel and PVCu to suit requirements.

Finishes
- Acrylic

Areas Of Application
Structherm NSC5 Low Rise system is suitable for any of the following provided that the substrate is structurally sound:

1. Refurbishment of low rise social housing in exposed and coastal areas
2. Refurbishment of private housing in exposed and coastal areas
3. Commercial premises under 18m high
4. Schools, colleges and other educational establishments
5. Refurbishment of low rise housing where a heavy duty system is required
6. Buildings up to 18m high

Finishes

To complete the NSC5 system, an acrylic finish is applied:

Contemporary	
Acrylic	✓

For more details, please see our Renders & Finishes Datasheets.

Basecoat Render Application Procedures

The notes below are intended to give general guidance on the application of a basecoat render.

1. To prevent the appearance of efflorescence, do not render in cold, damp weather. Do not allow downpipes, sills and scaffolding to throw water onto setting render. Protect render from rain for at least 48 hours after application.
2. Where possible, application on individual wall surfaces should be completed in one operation. Where this is not practical, the location of day work joints should be agreed with the architect.
3. The basecoat, should be applied with a hawk and trowel using the normal method.
4. A darby float or straight edge must be used to ensure that the finishing coat (or coats) is applied to a uniformly levelled surface.
5. Allow 24 hours curing time before application of finishing coats.
6. Work must NOT be carried out in temperatures less than 5°C or more than 35°C.
7. During hot weather, it is recommended that work is started on the shady side of the building and continued round following the sun.
8. Drying conditions will vary according to wind, temperature and humidity.
9. Always protect window frames, quoins, etc.

For further advice call our technical department on 01484 850098.

Social Housing Refurbishment Project: Heavy Duty NSC5 EWI System

School Newbuild Project: Heavy Duty NSC5 EWI System

DS 209 Rev.1

Structherm Ltd is part of the Hanson-HeidelbergCement Group

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