

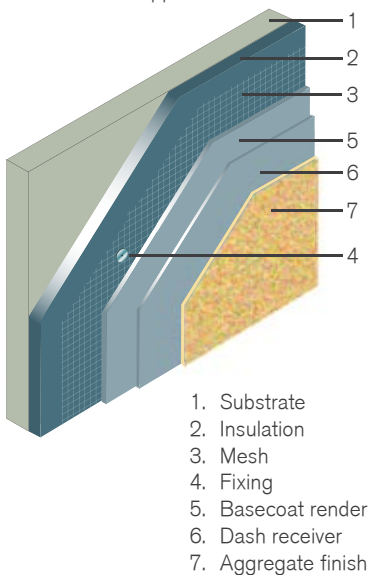
## External Wall Insulation Heavy Duty System - NSC3 - Low Rise Applications

### External Wall Insulation



**Diagram 3**

Heavy Duty System - NSC3 - sequence of layers for low rise applications



### 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

Both 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<sup>2</sup>. Fixing type is dependant on existing substrate.

### Basecoat Render

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

### Dash Receiver

In addition to the initial 8mm basecoat, a layer of dash receiver 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

- Dash Aggregate

### Areas Of Application

*Struchterm NSC3 Low Rise system is suitable for any of the following provided that the substrate is structurally sound:*

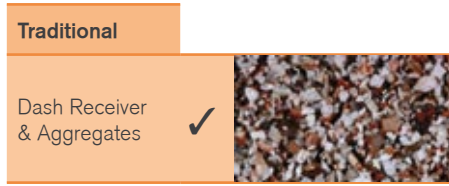
1. Refurbishment of low rise social housing in exposed and coastal areas
2. Refurbishment of private housing in exposed and coastal areas
3. Commercial premises under 18m high
4. Schools, colleges and other educational establishments
5. Refurbishment of low rise housing where a heavy duty system is required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



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**Product Sheets 1**

## Finishes

To complete the NSC3 a dash aggregate finish is applied:



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



**Social Housing Refurbishment Project:** Heavy Duty NSC3 EWI System with Dash Aggregate finish

## 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.**



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Structerm Ltd is part of the **Hanson-HeidelbergCement Group**

Structerm Ltd, Bent Ley Road, Meltham, Holmfirth, West Yorkshire, HD9 4AP  
t: 01484 850098 f: 01484 851388 e: info@structerm.co.uk www.structerm.co.uk

