



NBS model specification

M21 insulation with rendered finish

Dryvit Outsulation[®] Plus System

Incorporating:

SG M21-Dryvit/210A



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DRYVIT OUTSULATION PLUS

PRODUCT DESCRIPTION

Dryvit Outsulation® Plus is high-performance EIFS with moisture drainage incorporating an Air & Moisture Protective Barrier and grade SD type FRA expanded polystyrene (EPS) insulation for thermal rating.

The system is suitable for a wide range of applications in commercial (institutional, office, healthcare, retail, hotel, industrial, government) and residential buildings.

SCOPE

This specification is based on NBS standard version M21 dated September 1999 and is intended to be used with the standard or intermediate version of this section to produce project specifications.

For guidance on the specification of other Dryvit products see specification guides:

H20 – Rigid Sheet Cladding

SG H20-Dryvit/150, Dens-Glass® Gold

H92 - Rainscreen System: Insulation with render

SG H92-Dryvit/120A, Infinity® Wall System

M20 - External Insulation and Finish Systems

SG M20-Dryvit/160A, Dryvit ACR 300™
SG M20-Dryvit/160B, Dryvit ACR 200™
SG M20-Dryvit/160C, Dryvit ACR 150™
SG M20-Dryvit/160D, Dryvit ACR 100™
SG M20-Dryvit/160E, Dryvit ACR 50™

M21 – Acrylic Based Anti -Crack Render Systems

SG M21-Dryvit/210B, Outsulation® System
SG M21-Dryvit/210C, Roxsulation® System
SG M21-Dryvit/210D, Residential MD System®
SG M21-Dryvit/220A, Dryvit Rail System™

M60 - Acrylic-based finish coatings

SG M60-Dryvit/110A, Dryvit Finish Coats



Dryvit specification clauses are also available in NBS Plus to registered subscribers.



GUIDANCE ON USE

INTRODUCTION

Specification Guides

These are produced by manufactures to facilitate the specification of their products in NBS. A license must be obtained from NBS Services prior to publication, which requires model specifications to be compatible with the correspondence NBS work section.

Specification Guides contain a set of 'proprietary' clauses-edited versions of generic NBS clauses, and new clauses written by the product manufacturer. To specify the product, some or all of these clauses are incorporated in the corresponding NBS work section. It is not possible to produce a project specification by using the clauses from the Specification Guide in isolation-generic clauses must also be used.

An unlimited number of Specification Guides can be used to specify products in an NBS work section, e.g. Specification Guides by several manufactures could be used to specify Insulation with Rendered Finish in section M21.

Specification Guides are based on the corresponding NBS Standard Version, but can generally be used in conjunction with the Standard or Intermediate Version.

Reference numbers

Each NBS specification guide is identified by a unique reference number, e.g. SG M21-Dryvit/210A (Specification Guide M21-Dryvit210A Outsulation Plus System).

Clause numbers

Edited versions of NBS clauses are given a new clause number with a single character suffix, e.g. clause M21/210 might become M21/210A to M21/210D etc.

Clauses written by the product manufacturer are allocated a new clause number - these also include a single character suffix, e.g. M21/210A.

Model specifications index

This is located in the first ring binder, and in the NBS for Windows and Specification Manager manuals. It comprises a 'Model Specifications Index' which lists the model specifications available in each work section, and a 'List of Manufactures' which lists the model specifications produced by each company.

Specification Guides need to be revised when the manufacturer makes changes to the product of product range. They may also need to be revised following an update of the NBS work section on which they are based. Appropriate details will be provided in the Model Specifications Index, which should be checked to ensure a current Specification Guide is being used. The index is revised twice a year to coincide with NBS updates, but if in doubt about the status of a Specification Guide, check with the manufacturer using the telephone or fax numbers shown at the front of this document.

SPECIFICATION PRODUCTION

Using a computer

These instructions will be appropriate if you are producing a product specification 'on screen' using Specification Manager or a word processing package - for the latter it is necessary to have access to NBS text files through membership of the NBS disc service or NBS for Windows.

If you also have access to a text file containing the Specification Guide, copy and paste the clauses you require into the appropriate NBS text file(s). Otherwise, edit the text file(s) in accordance with the alterations shown in the Specifications Guide - the following conventions are used:

- **'Proprietary' text is shown in bold italics.**
- Irrelevant or inappropriate NBS text is shown ~~struck out~~.

The 'proprietary' text added to the NBS computer file should be formatted in a plain font style, not in bold italics. The latter is only reproduced on paper copy for the identification purposes explained above.

Complete the specification in the normal manner, with the help of clause guidance from the NBS section and the Specification Guide.

Ensure that clause numbers are not duplicated - especially where they have been incorporated from more than one Specification Guide.

Using mark-up copy

You need an NBS mark-up copy of the relevant work section (or a print out from your computer), and a photocopy of the Specification Guide to use as supplementary mark-up copy. Use these side by side and complete the specification in the usual manner, selecting NBS and Specification Guide clauses as appropriate.

As work proceeds, record the selection of Specification Guide clauses in the margin of the NBS mark-up copy, e.g. Insert 210A [refer to separate page] between NBS clauses 210 and 220.

Ensure that clause numbers are not duplicated - especially where they have been incorporated from more than one Specification Guide.

Inform the person who is going to word process the specification about the text formatting conventions described above (see 'Specification production using a computer'). They should also understand that mark-up copy which includes a company name or logo in the header originates from a Specification Guide - the clauses on these pages will not be found in the NBS text file and will need to be copied across or keyed in as described above. The specification is completed in the normal manner by editing the NBS text file in accordance with the hand-written notes on the mark-up copy.

GUIDANCE NOTES

Dryvit UK Ltd.

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Dryvit has been part of the External Insulation and Finish Systems (EIFS) industry for over 30 years with a world-wide portfolio of projects of various sizes. An RPM Company with ISO 9001.

All Dryvit EIFS offer unlimited design freedom with high performance properties. The Dryvit range of systems are specified to meet all the functional and aesthetic needs of a building's external envelope, allowing the designer to select from a large variety of textured finishes and colours.

We suggest the designer contact Dryvit in the first instance to discuss specific needs, so that the appropriate EIFS can be recommended. You can contact us directly by telephone, fax, email and also visit our web site as detailed above.

Dryvit also manufactures and supplies system products suitable for rainscreen applications, anti-crack renders and acrylic textured and non-textured coatings. Please refer to additional work sections H20, H92, M20, and M60.

Dryvit External Wall Insulation and Finish Systems (EIFS) are available for a variety of applications suitable for commercial and residential projects. The Dryvit EIFS holds BBA Agrément Certificate No. 98/3548 Detail Sheet 1.

A. Commercial Systems are suitable for projects including institutional, offices, healthcare, retail, hotel, industrial, public buildings and multi-storeyed, residential buildings with the option of on-site or pre-fabricated panelled applications, of any size. They are:

1. **Dryvit Outsulation® Plus System:** A high-performance EIFS with moisture drainage incorporating an Air & Moisture Protective Barrier and grade SD type FRA expanded polystyrene (EPS) insulation for thermal rating.
2. **Dryvit Outsulation® System:** A polymer polymer-based barrier EIFS incorporating grade SD type FRA expanded polystyrene (EPS) insulation for thermal rating. Agrément Certificate No. 98/3548 Detail Sheet 2.
3. **Dryvit Roxsulation® System:** A polymer-based barrier EIFS incorporating mineral wool (slab or lamella) insulation for thermal rating. Agrément Certificate No. 98/3548 Detail Sheet 3.

MODEL SPECIFICATION CLAUSES

M21 DRYVIT OUTSULATION® PLUS

To be read with Preliminaries/General conditions.

GENERAL/SYSTEM REQUIREMENTS

4. **Dryvit Rail System™**: A mechanically fastened rail EIFS, to be used over walls with damaged or brittle substrates or irregular surfaces on retrofit or new construction. Incorporates grade SD type FRA expanded polystyrene (EPS) insulation for thermal rating.
5. **Dryvit Infinity® System**: A commercial pressure-equalised and moisture drained engineered rainscreen EIFS with thermal properties. Incorporates grade SD type FRA expanded polystyrene (EPS) insulation for thermal performance. See *Work Section H92.120A*.

B. Residential Systems are suitable for residential projects with the option of on-site or pre-fabricated applications. They are:

1. **Dryvit Residential MD System®**: A residential EIFS with moisture drainage, incorporating grade SD type FRA expanded polystyrene (EPS) insulation for thermal rating. The system has a specially designed fibrous mat that is installed between the secondary weather barrier and the insulation board, to create a drainage plane. The system is mechanically fastened over a weather barrier to plywood. This system can also be applied in commercial use, contact Dryvit.
2. **Dryvit Outsulation® System**: A polymer polymer-based barrier EIFS incorporating grade SD type FRA expanded polystyrene (EPS) insulation for thermal rating. Agrément Certificate No. 98/3548 Detail Sheet 2..
3. **Dryvit Roxsulation® System**: A polymer-based barrier EIFS incorporating mineral wool (slab or lamella) insulation for thermal rating. Agrément Certificate No. 98/3548 Detail Sheet 3.

- 110 SURVEY OF EXISTING WALLS: A survey has been carried out and the report is available to tenderers.
- 120 SURVEY OF EXISTING WALLS:
 - Before _____ carry out a survey to confirm suitability for application of external wall insulation system and submit a report covering all relevant matters listed below:
 - The form and condition of the structural background
 - A schedule of repairs and/or additional works necessary to render the background suitable to receive the system
 - A schedule of services, fixtures and fittings requiring removal to facilitate installation of the system
 - Proposals for treatment of potential cold bridges, e.g. reveals, concrete floor edges
 - Any other information considered relevant.
- 130 REMEDIAL WORK: Include in the tender for remedial work shown to be necessary by the preliminary survey.
- 140 REMEDIAL WORK shown to be necessary by the preliminary survey will be the Employer's responsibility.
- 150 REMEDIAL WORK shown to be necessary by the preliminary survey is covered _____.

210A EXTERNAL WALL INSULATION SYSTEM:

(SG M21-Dryvit/210A)

Dryvit Outsulation® Plus System

- **Location:** [Insert, e.g. Project title & or external walls, from first to tenth Floor Levels, facing south and east elevations (as applicable)].
- **Drawing reference(s)** [Insert, e.g. Drawing numbers or See Drawing Schedule].
- **Manufacturer:** Dryvit UK Ltd, Unit 4 Wren Park, Hitchin Road, Shefford, Beds. SG17 5JD Telephone: 01462 819555; Facsimile: 01462 819556; www.dryvit.co.uk; email: ukenquiries@dryvit.com.
- **System reference:** [**Dryvit Outsulation® Plus**]. Read in conjunction with Dryvit's current literature. The Outsulation Plus system expands upon the proven weatherability and insulating qualities of Outsulation by adding a second line of defence against air, moisture and weather. This is accomplished with a coating of Backstop™ and by applying Dryvit's waterproof flashing tape at all system openings. Outsulation Plus also goes one step further through the strategic placement of adhesive channels to provide moisture drainage. These channels work in tandem with either of two system termination options, resulting in an efficient and economical system that is easy to install.
Typical system build up:
 1. Approved substrate
 2. Backstop™/NT air/moisture barrier
 3. Dryvit Flashing™ Tape & Surface Conditioner™
 4. AP Adhesive™ to adhere Dryvit Starter Track or Dryvit Drainage Strip™
 5. Adhesive in vertical notched trowel configuration
 6. Insulation board
 7. Base Coat
 8. Reinforcing Mesh
 9. Finish Coat
- **Structural Background:** Insert details of fabric/structure to which the insulation will be fixed for example: [
 1. Brickwork
 2. Blockwork
 3. Metal stud frame with Sheathing board.
 4. Timber Frame with plywood or other sheathing board].

See Work Section H20.150 for Dryvit recommended sheathing. Consult Dryvit UK Ltd. for advice on sheathing board selection.
- **Preparation:** See clauses M21.430A & M21.450 [Can also insert - Co-ordinate the work with that for all adjacent and related works, actual site conditions and accommodation of movements and building tolerances for related work as specified in the Structural Engineers' Document &/OR
Set out the work accurately within the permitted tolerances and in accordance with the

210A EXTERNAL WALL INSULATION SYSTEM:

- **Location:**[_____].
- Drawing reference(s):[_____].
- Manufacturer and reference: **Dryvit UK Ltd, Unit 4 Wren Park, Hitchin Road, Shefford, Beds. SG17 5JD Telephone: 01462 819555; Facsimile: 01462 819556; www.dryvit.co.uk; email: ukenquiries@dryvit.com**
- **System Reference:** **Dryvit Outsulation® Plus System**
- Structural background: [e.g. **simply metal stud frame with sheathing board. See work section H20.150 for Dryvit recommended sheathing board**].
- Preparation: **See clauses M21.430A & M21.450 [Co-ordinate the work with that for all adjacent and related works, actual site conditions and accommodate movements and building tolerances for related work as specified in the Structural Engineer's document]**.
- Pretreatment: Fungicidal wash if recommended by system manufacturer. [e.g. **Not required for Sheathing Board OR Fungicidal wash and/or Dryvit Prymit® adhesion promoter if required to Dryvit recommendations**].
- **Air & Moisture Barrier:** [**Dryvit Backstop NT applied to substrate and using Dryvit Grid Tape™ at sheathing board joints if applicable to manufacturer recommendations**].
- **Seal to penetrations & terminations:**[**Dryvit Flashing Tape™, Dryvit Drainage Strip & Dryvit AP Adhesive™ to all (windows, doors and other) openings to manufacturer recommendations**].
- Insulation: **Expanded polystyrene boards (EPS) grade SD type FRA to BS 3837, with staggered bond joints rasped prior to base coat application.**
- Thickness: [_____]mm.
- Density: [**15 kg/m³**].
- Method of fixing: [**Adhesive fixing using _____ adhesive. Applying to manufacturer recommendations with a notched trowel to provide beads of adhesive of a specified size**].
- Beads/Trims: [**Dryvit Starter Track or Dryvit Drainage Strip™ using AP Adhesive™ to fix at base of system**].
- ~~Render carrier~~Reinforcement:
 - a. **Mesh Reinforcement: Standard Plus mesh to all areas Panzer 20 & Standard Plus Mesh to areas subject to impact. See Clause M21.330 & 340 to meet the requirement of BS 8200.**
 - b. **Detail Mesh: Dryvit Detail® Mesh for:**
 1. **Back wrapping EIFS at termination details as per detail drawings.**
 2. **Forming reveals.**
 3. **For masking fire barriers prior to placing general reinforcing mesh.**
 4. **Forming groove details, to manufacturer recommendations**].
- Method of fixing: [**Reinforcing and Detail**

- requirements of Table 4 of BS 5606.
- **Pretreatment:** Existing substrates may require a fungicidal wash and/or Dryvit Prymit® adhesion promoter. Newly applied sheathing board should not require any preparation.. Consult Dryvit for guidance if required.
- **Air & Moisture Barrier:** [*Dryvit Backstop or Backstop NT using Dryvit Grid Tape™ at sheathing board joints if applicable.*] Consult Dryvit UK Ltd for product selection.
- **Seal to penetrations & terminations:** [Dryvit Flashing Tape™, Dryvit Drainage Strip to all windows, doors and other openings to manufacturer recommendations.]
- **Insulation:** Thickness, Density and minimum compressive strength, to suit as recommended by Dryvit Ltd. [Expanded polystyrene boards (EPS) grade SD type FRA to BS 3837, with staggered bond joints.]
- **Thickness:** To Architect/CA requirements & or Dryvit recommendations [____] mm.
- **Density:** 15 kg/m³.
- **Method of fixing:** Dryvit Genesis/GenesisDM /Adeps Adhesive/Rapidry DM 30-50/Rapidry DM 50-75 and/or mechanical fixing to Dryvit recommendations. Select the relevant adhesive and/or mechanical fixings based on project requirements.
[*Insert :- adhesive fixing using _____ adhesive. Applying to manufacturer recommendations with a notched trowel to provide beads of adhesive of a specified size.*]
- **Beads/Trims:** [Dryvit Starter Track or Dryvit Drainage Strip™ using AP Adhesive™ to fix at the base of the system.]
- **Reinforcement:**
 - a. Mesh Reinforcement: [See Clause M21.330]. [*The selected mesh/s can be listed here if you wish*]
 - b. **Detail Mesh** [Dryvit Detail® Mesh is used to form all architectural features e.g.
 1. Back Wrapping (closure) of EIFS system at termination details e.g. windows, doors, movement joints etc.
 2. Forming reveals.
 3. For masking fire barriers prior to placing main reinforcing mesh.]
 4. [*Forming rustication, or other architectural features.*]
 5. *Forming – cornices or other architectural features. To Dryvit recommendations*].
- **Method of fixing:** [Reinforcing and Detail meshes are embedded within base coat (render).]
- **Render (Base Coat):** [*Dryvit Genesis/GenesisDM/ NCB/Rapidry DM 30-50/Rapidry DM 50-75 or Dryflex to manufactures recommendations*]. Select the relevant base coat based on project requirements.
- **Finish Coat:** [100% acrylic coatings with PMR & DPR technology.
 - A. *Colour: See Dryvit standard colour chart or as instructed by the Architect/CA.*
 - B. *Texture: See Dryvit standard range or as agreed with the Architect/CA as per sample panel.*] Dryvit High performance finishes and coatings are available in standard colour range

- meshes are embedded within base coat (render)].
- Render (**Base Coat**): [_____ to manufactures instructions].
- Decorative finish:
- Finish Coat: [**100% acrylic coatings with PMR & DPR technology.**]
 - A. **Colour: From Standard Range.**
 - B. **Texture: e.g. Selected finish Dryvit finish options, as indicated on Architects' Design Drawings**].
- **Attachments:** [e.g. **Dryvit architectural prefabricated standard and/or bespoke mouldings**].
- **Other requirements:** [e.g. *Co-ordinate the Work with interfacing building elements, as indicated on Design Drawings, including:*
 1. *Electrical fittings by others.*
 2. *Mechanical Services by others.*
 3. *Windows by others.*
 4. *Doors by others*].

and can be customised to achieve special finishes providing protective and decorative properties to suit substrate. The finishes offer low maintenance advantages with DPR™ (Dirt Pickup Resistance) and PMR™ (Proven Mildew Resistance) technology.

The various texture and finish types are:

1. Standard 100% acrylic textured finishes incorporating the Proven Mildew and Dirt Pick Up resistance technology (PMR & DPR).

Colorprime primer.

- a. Freestyle®
- b. Sandblast®
- c. Sandpebble Fine™
- d. Sandpebble®
- e. Quarzputz®

2. Elastomeric 100% acrylic textured finishes with crack bridging capabilities including the DPR & PMR technology:

Weatherprime primer.

- a. Weatherlastic™ Quarzputz
- b. Weatherlastic Sandpebble
- c. Weatherlastic Sandpebble fine
- d. Weatherlastic Adobe
- e. Weatherlastic Smooth

3. Standard non-textured acrylic finishes containing the DPR & PMR technology :
 - a. Demandit® (Weathercoat™ Smooth)
 - b. Revyvit® (Weathercoat Textured)
 - c. Sealclear

4. Speciality Acrylic Finishes:

- a. Ameristone
- b. Stone Mist®
- c. Metallics
- d. Custom Brick®/Stone
- e. Interior Finishes

Customisation of finishes can be obtained to the Architect/CA requirements. Contact Dryvit to discuss various possibilities prior to specifying non-standard options.

- **Attachments:** [*Dryvit architectural prefabricated standard and/or bespoke mouldings, feature/surround bands around windows/door/louvre opening e.g. arc, ledges, moulding, billet, pier, architrave, fillet or chamfer, plinth, quoins.*] Quote any references to moulding etc. where applicable.

- **Other requirements:** [*Co-ordinate the Work with interfacing building elements*
 1. *Electrical fittings by others.*
 2. *Mechanical Services by others.*
 3. *Hydraulic Services by others .*
 4. *Access equipment bracket penetrations by others.*
 5. *Metal coping by others.*
 6. *Windows by others.*
 7. *Doors by others.*
 8. *Roof flashings by others.*
 9. *Roof eaves boards by others.*
 10. *Signage by others*].

330 IMPACT LOADING: The finished wall(s) must have the impact resistance(s) as recommended by BS 8200 or BRE information paper No. IP 19/81 or as specified by the Structural engineer or as recommended by the manufacturer from standard/combination options:

Dryvit mesh options	
Standard™	4 Nm
Standard Plus™	6 Nm
Intermediate®	12 Nm
Panzer® 15/Standard™	18 Nm
Panzer® 20/Standard™	40 Nm
Panzer® 15/Standard Plus™	20 Nm
Panzer® 20/Standard Plus™	42 Nm

Note: Dryvit systems can be designed to achieve desired impact loading by combining the above options, e.g. to achieve 42Nm impact loading insert, [42 Nm, using Panzer 20 and Standard Plus Dryvit mesh or as advised by the manufacture].

310 DESIGN: Complete the detailed design of the system and associated features shown on the drawings to meet the requirements of this specification.

320 INTEGRITY: The installation must be:

- Weathertight under all anticipated conditions.
- Capable of resisting all dead loads and design live loads, including impact and wind loads, and accommodate all thermal movements without damage.

330 IMPACT LOADING: The finished wall(s) must be designed to withstand the following impact resistance(s):
 [Ground floor: 42 Nm, using Dryvit Panzer 20 + Standard Plus Mesh or as advised by the manufacture.
 First to fifth floors: 6Nm, using Standard Plus Mesh or advised by the manufacture]

340 WIND LOADING: Calculate wind loads in accordance with BS 6399:Part 2, Standard Method:
 Basic wind speed (V_b): _____ m/s.
 Altitude factor (S_a): _____
 Direction factor (S_d): 1.
 Seasonal factor (S_s): 1.
 Probability factor (S_p): 1.
 Terrain and building factor (S_b), determined from BS 6399:Part 2, table 4 _____.

350 WIND LOADING: For design purposes assume the following wind loads:

361 SAMPLE(S):

- Provide sample(s) of _____
- Obtain approval before starting work.
- Keep sample(s) available on site throughout the contract for inspection/comparison purposes.

380 UNIFORMITY OF COLOUR AND TEXTURE:
 Once samples of coatings have been approved do not change type or proportion of constituent materials. Ensure that supplies of materials are sufficient to give consistent and uniform colour and texture.

- 410A INSTALLATION: Dryvit operates a training programme for Specialist Installers of their manufactured EIFS systems. The levels of applicators to be employed to undertake the work depend upon the nature of the work to be carried out. Contact Dryvit for advice. There are three levels of training:
- Level 1: Applicator must attend a combined practical and theory training course to demonstrate they are conversant in the use of the Dryvit materials, associated tools and basic details skills.
- Level 2: Advanced Applicator level cardholder is a continuation of level 1 applicator but with advanced detail skills and a measure of the continued practical experience.
- Level 3: Supervisor level cardholder is a senior applicator and must provide references of Dryvit system applications to demonstrate their practical experience. Must complete a multiple choice paper on Dryvit materials and their applications and must be capable of training the applicators under their supervision

- 430A CONDITION OF BACKGROUNDS: Before application the relevant pretreatment and cleaning of the background must be carried out to ensure that it is ready to receive the Dryvit System. Dryvit/Specialist Installer must be consulted on obtaining the acceptance of the background, especially when a guarantee on materials supplied by Dryvit and the Installers guarantee on workmanship and installation are required.

INSTALLATION

- 410A INSTALLATION to be carried out only by a Specialist Installer using operatives participating in the Dryvit Applicator Training Programme. [**At least one applicator on site to be trained to level 3 - Supervisor level, as agreed with the Architect/CA**].
- 420 ADVERSE WEATHER:
- Do not use frozen materials and do not apply materials to frost bound surfaces.
 - Do not apply adhesive, mortar or render when the air temperature is at or below 5 °C on a falling thermometer or below 3 °C on a rising thermometer, or when the temperature of the air or wall surface is above 30 °C and the surface is not protected.
 - Maintain temperature of the work above freezing until adhesive/mortar/render has fully hardened.
 - Protect newly rendered surfaces against rain and snow by covering when precipitation occurs.
 - Replace coatings damaged by rain or frost.
- 430A CONDITION OF BACKGROUNDS: Before pretreatment or application of coatings ensure that backgrounds are structurally sound, adequately true and level, dry, free from contamination by dirt, dust, efflorescence or other deleterious substances, and in a suitable condition to receive specified coatings. [**Before preparation or application of coatings ensure that:**
1. **Backgrounds are secure, adequately true and level to achieve specified tolerances, free from contamination and loose areas, reasonably dry and in a suitable condition to receive specified coatings.**
 2. **All cutting, chasing, fixing of concealed conduits, service outlets and the like, and making good of the background, is completed**].

<p>490A CONSTRUCTION/MOVEMENT JOINTS: The construction or expansion joints must align with the movement joints (note: movement joints are the responsibility of the Designer/architect and shall be indicated on Design Drawings, to be installed by others). Movement joints should be incorporated where:</p> <ol style="list-style-type: none"> 1. <i>Expansion joints occur in the substrate system.</i> 2. <i>Continuous elevations exceeding 23m.</i> 3. <i>Prefabricated panels abut one another.</i> 4. <i>The system meets floor lines in timber frame construction.</i> 5. <i>The EIFS butts dissimilar materials.</i> 6. <i>The substrate changes.</i> 7. <i>Significant structural movement occurs such as changes in roofline, building shapes or structural system.</i> 8. <i>Other special locations.</i> 	<p>440 PULL OUT TEST(S) ON FIXING PINS to be carried out on site to prove the suitability of the structural background and determine the size and number of fixings required. Give advance notice of testing to allow CA the opportunity to be present.</p>
<p>510A FIRE BARRIERS:</p> <ul style="list-style-type: none"> - [Lamella OR Slab] mineral wool non-combustible material to BS 476:Part 4. - Size: Minimum 100 mm x total thickness of external wall insulation. <ol style="list-style-type: none"> 1. [Install barriers at every floor level from third storey or as indicated on Design Drawings]. 2. Barriers to be [<i>adhesively or mechanically</i>] fixed with Dryvit Detail Mesh applied over barrier to lap adjacent EPS on either side a minimum of 50mm to manufacturer recommendations. 	<p>450 PREPARATION OF BACKGROUNDS: Remove efflorescence, dust and other loose material by thoroughly dry brushing. Remove all traces of paint, dirt and other substances incompatible with adhesive by scrubbing with water containing detergent and washing off with plenty of clean water. Allow to dry before applying coatings unless specified otherwise.</p>
	<p>460 CLEANLINESS: Carefully protect all existing work and approaches using suitable boards, sheets, etc. Clean off any droppings from finished work immediately.</p>
	<p>480 CURING:</p> <ul style="list-style-type: none"> - Allow primer coats and undercoats to dry out thoroughly before applying subsequent coats. - Take all necessary precautions to prevent newly rendered surfaces from drying out too rapidly.
	<p>490A CONSTRUCTION/MOVEMENT JOINTS: Form joints accurately to detail and in locations shown on the [<i>Design</i>] Drawings. If modifications to any joint location or design are necessary on site, agree revisions with [<i>Architect/CA</i>] before proceeding. [<i>Movement joints should be incorporated where:</i></p> <ol style="list-style-type: none"> 1. <i>Expansion joints occur in the substrate system.</i> 2. <i>Continuous elevations exceeding 23m.</i> 3. [<i>insert as applicable.</i>]
	<p>510A FIRE BARRIERS:</p> <ul style="list-style-type: none"> - [e.g. Lamella] mineral wool non-combustible material to BS 476:Part 4. - Size: Minimum 100 mm x total thickness of external wall insulation. <ol style="list-style-type: none"> 1. [<i>Install barriers at every floor level from third storey or as indicated on Design Drawings</i>]. 2. Barriers to be [e.g. <i>adhesively</i>] fixed with Dryvit Detail Mesh applied over barrier to lap adjacent EPS on either side a minimum of 50mm to manufacturer recommendations.
	<p>520 SUPPORTS FOR SERVICES/FITTINGS: Provide secure supports for soil and rainwater pipe brackets and the like in locations shown on drawings. Type as recommended by system manufacturer.</p>

- 530 SEALANT JOINTS:
- Location(s): [*Insert e.g. Seal around windows, doors where applicable and insert at building movement joints. See M21.490A*].
 - Sealant: [*Insert e.g. DryvitTM Low modulus sealant with backing filler or equal*].
 - Colour: [*Insert, e.g. White or to be selected from the standard range. See Work Section Z22*].

- 530 SEALANT JOINTS:
- Location(s): [**Seal around windows, doors where applicable and insert at building movement joints. See M21.490A**].
 - Sealant: [**DryvitTM low modulus silicone sealant with backing filler or equal**].
 - Colour: [_____].
 - Form in accordance with Work Section Z22 and system manufacturer's recommendations using any necessary joint fillers, backing strips, etc.

- 550 INSPECTION OF COMPLETED INSTALLATION: As soon as possible after completion of the work and before removing scaffolding, carry out an inspection with the CA to identify any defects.

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