



**NSAI**  
Agrément

**IRISH AGREEMENT BOARD  
CERTIFICATE NO. 03/0180**

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## Weber Monocouche Rendering System

**Enduit de Surface  
Oberflächenbeschichtung**

**NSAI Agrément (Irish Agrément Board)** is designated by Government to issue European Technical Approvals.

NSAI Agrément Certificates establish proof that the certified products are 'proper materials' suitable for their intended use with TGD Part D of the second schedule of the Building Regulations 1997 to 2023.



### **PRODUCT DESCRIPTION:**

This Certificate relates to Weber Monocouche Rendering System developed by Weber as a single coat rendering system for application externally on masonry walls. It is a factory batched render and differs from traditional render in the use of special admixtures and specific selected aggregates. It is applied in one coat or through a number of passes as a single layer render. It is available in a range of colours. It can also be applied as an internal plaster on the inner face of masonry walls. Overall thickness generally varies from a minimum of 15mm to a maximum finished thickness of 25mm. Unless the background masonry has too high or too low a suction, the Weber Monocouche Rendering System can be applied without a scud (splatter dash) coat. For higher and lower suctions, or where mechanical key is poor, a scud coat of weberend aid is necessary. This Certificate certifies compliance with the requirements of the Irish Building Regulations.

### **USE:**

The Weber Monocouche Rendering System is designed principally for weatherproofing external vertical concrete block or brick masonry walls but can also be used for external or internal decorative renders. Weber renders are applied over rigid masonry and concrete substrates that have been designed for cement-based render application.

### **MANUFACTURE AND MARKETING:**

The product is manufactured by Weber at their factory in Telford, Shropshire. The product is marketed by Saint-Gobain Construction Products UK Ltd t/a Saint-Gobain Weber Ltd., Dickens House, Enterprise Way, Flitwick, Bedfordshire MK45 5BY.

**Readers are advised to check that this Certificate has not been withdrawn or superseded by a later issue by contacting NSAI Agrément, NSAI, Santry, Dublin 9 or online at <http://www.nsai.ie/modules/certificates/uploads/pdf/IAB030180.pdf>**

### 1.1 ASSESSMENT

In the opinion of NSAI Agrément, the Weber Monocouche Rendering System, if used in accordance with this Certificate, can meet the requirements of the Irish Building Regulations as indicated in Section 1.2 of this Certificate.

### 1.2 BUILDING REGULATIONS REQUIREMENTS:

#### Part A - Structure

##### A1 – Loading

The Weber Monocouche Rendering System, as certified in this Certificate, has adequate strength and stability (see Parts 3 and 4 of this Certificate).

#### Part B Vol 1 – Fire Safety

##### B2 – Internal Fire Spread (Linings)

##### B3 – Internal Fire Spread (Structure)

##### B4 – External Fire Spread

#### Part B Vol 2 – Fire Safety

##### B7 – Internal Fire Spread (Linings)

##### B8 – Internal Fire Spread (Structure)

##### B9 – External Fire Spread

The Weber Monocouche Rendering System, as certified in this Certificate, is non-combustible and achieves a Class A1 combustibility rating to EN 13501-1<sup>[1]</sup>. It is readily amenable to fire safety design across the range of fire resistance requirements for buildings of all-purpose groups and can meet the requirements for fire safety.

#### Part C – Site Preparation and Resistance to Moisture

##### C3 – Dangerous Substances

##### C4 – Resistance to Weather and Ground Moisture

The Certificate holder has taken the responsibility of classifying and labelling the system components under CLP Regulation (EC) No. 1272/2008<sup>[2]</sup> on the classification, labelling and packaging of substances and mixtures. Users must refer to the relevant Safety Data Sheets.

The Weber Monocouche Rendering System does not compromise the fitting of adequate damp-proof courses, appropriate radon and dangerous substances protection membranes and gas handling systems to meet the requirements. The Weber Monocouche Rendering System, when a cement-based rendering is deemed appropriate to SR 325 - *Recommendations for the design of masonry structures in Ireland to Eurocode 6*<sup>[3]</sup> and EN 13914 - *Design, preparation and application of external rendering and internal plastering - Part 1: External rendering*<sup>[4]</sup> will provide adequate weather resistance as specified in Part 4 of this Certificate.

#### Part D – Materials and Workmanship

**D1** – The Weber Monocouche Rendering System, as certified in this Certificate, can meet the requirements for workmanship.

**D3** – The Weber Monocouche Rendering System, as certified in this Certificate, is comprised of 'proper materials' fit for their intended use (see Part 4 of this Certificate).

## 2.1 PRODUCT DESCRIPTION

Weber Monocouche Renders provide a one coat solution that protects and decorates the exterior walls of buildings, providing a weatherproof finish. They are supplied pre-blended and bagged under factory conditions and only require clean water to be added on site prior to use. Renders are cement based containing a water retention additive and a colouring pigment. These factory batched renders differ from traditional render in the use of special admixtures and specifically selected aggregates. Application is as a single coat system in which the thickness can be built up through a number of closely spaced passes. As the system has greater workability and adhesion in the plastic stage, it is easier to apply than traditional renders. It is available in a range of colours. It can also be applied as an internal plaster on the inner face of masonry walls. Overall thickness varies from a minimum of 15mm to a maximum finished thickness of 25mm. Weber Monocouche Renders can normally be applied without a scud (splatter dash) coat. However, for higher and lower suction areas and areas with inadequate suction a scud coat of weberend aid is necessary.

Weber Monocouche Renders are available in various colours but are marketed under one distinct variant in Ireland:

### WEBERPRAL D

weberpral D is mechanically mixed and pump applied normally in two passes direct onto the prepared substrate. It is finished with a variety of textures with the use of hand tools. Finishes include scraped, scraped ashlar, spray roughcast and dry dash finishes. Weber.pral D is also suitable for manual application.

#### 2.1.1 ANCILLARY ITEMS

Materials required with the renders include:

- Rigid PVC or stainless-steel drip, stop, movement and corner beads.
- Alkali resistant fibreglass mesh.
- weberend aid.
- Weber approved 6mm dry dash aggregate.

Special equipment and tools required include:

- Render pump.
- Mechanical drill and whisk.
- Spray gun.
- Plasterer's knife.
- Trowel.
- Steel trowel.
- Long and short-toothed scrapers.
- Ashlar cutter with fixed blades.
- Ashlar cutter with interchangeable blades.
- Plasterer's straight edge.

- I profile scraper.
- Thickness gauge.
- Soft bristle brushes.
- Measuring bucket.

## 2.2 MANUFACTURE

Weber Monocouche Renders are manufactured to specially formulated batched mixtures of white cement, silica sand, calcium hydroxide (lime), selected aggregates, performance enhancing admixtures, and a range of mineral pigments. Admixtures include organic additives and waterproofing agents. All individual components of each specific batch mixture are tested for conformance with the particular specifications before manufacture. Component materials which are supplied by others are accepted only from qualified suppliers. Aggregates are supplied fully graded and to tight specification tolerances.

### 2.2.1 QUALITY CONTROL

The manufacturer operates and maintains a documented quality system to ensure that product conforms to the specified requirements. The quality control system includes handling, storage, packaging and delivery. Product is bagged in moisture resistant paper bags with printed instructions on storage requirements. A test laboratory is operated at the factory where routine quality control testing is carried out on the Weber Monocouche Renders. The laboratory is subject to third party surveillance.

## 2.3 DELIVERY, STORAGE AND MARKING

### 2.3.1 MARKING AND PRODUCT IDENTIFICATION DETAILS

Weber Monocouche Renders are bagged into sealed moisture-resistant paper bags at the end of the production run and stored on pallets. Each bag has printed on it the manufacturer's name, a production trace number, the NSAI Agrément logo with the number of this Certificate, date of manufacture, manufacturing address, name of particular product, and weight of contents.

### 2.3.2 DELIVERY

Weber Monocouche Renders are delivered on pallets in 25kg sealed, moisture resistant paper bags. Each pallet contains 40 bags and weighs approximately 1000kg.

### 2.3.3 PROTECTION OF MATERIALS

Weber Monocouche Renders must be stored in dry conditions, off the ground and in a proper store. Bags should be used in rotation.

## **2.4 INSTALLATION**

### **2.4.1 INSTALLATION CONTROL**

Application of the Weber Monocouche Renders must be carried out in accordance with the Certificate holder's instructions and the relevant recommendations of IS EN 13914-1:2016 *Design, preparation and application of external rendering and internal plastering – External rendering*<sup>[4]</sup>.

The system can only be installed where a render specification has been completed to clause 2.4.2 of this certificate. The system must be installed by installers who have been trained and approved by the Certificate Holder.

### **2.4.2 SITE SURVEY AND PRELIMINARY WORK**

A pre-application survey of the property is carried out to determine the suitability of the substrate to receive the render and whether repairs to the building structure are necessary before application. A specification is prepared by a building professional competent in rendering specifications to SR 325 - *Recommendations for the design of masonry structures in Ireland to Eurocode 6*<sup>[3]</sup> and EN 13914 - *Design, preparation and application of external rendering and internal plastering - Part 1: External rendering*<sup>[4]</sup> for each project taking due account of:

- Preliminary treatment of the background
- Position of beads
- Detailing around windows, doors and eaves
- Damp-proof course level
- Exact position of movement joints
- Area where flexible sealants must be used
- Any alterations to external plumbing

Older buildings at coastal locations should be checked for salt content of the substrate in accordance with EN 772-5<sup>[5]</sup>. Test results will determine the suitability of the substrate to receive a render. In addition, the Weber Monocouche Renders should not be applied to any area where there is evidence of corrosion of steel reinforcement in the masonry.

### **2.4.3 PREPARATION OF SUBSTRATE**

Weber Monocouche Renders should only be applied to mature stable surfaces. A minimum of one month should be allowed following completion of the wall construction before application of the render commences. In slow drying situations, a longer interval should be allowed. All substrates must be clean, sound and dust free. As with traditional renders, Weber Monocouche Renders rely on a combination of suction and surface texture to achieve bond. The recommendations set out in IS EN 13914 should be followed. It is essential that all steps are taken to ensure that a satisfactory bond is achieved between the render and the substrate.

#### **(i) CONCRETE BLOCK AND CLAY BRICK SURFACES**

All blockwork and brickwork must be designed and

constructed in accordance with current standards and good building practice. In particular, the requirements of I.S. EN 1996-1-1:2005+A1:2012 *Eurocode 6 – Design of masonry structures – Part 1-1: General rules for reinforced and unreinforced masonry structures (including Irish National Annex)*<sup>[6]</sup> must be met.

#### **(ii) CONCRETE SURFACES**

For concrete surfaces, all dirt, dust, loose matter, efflorescence, formwork oil and organic growth must be removed by suitable methods, including washing with suitable solutions, as required, before render is applied. In all situations, smooth surfaces should be keyed before applying Weber Monocouche Renders. This can be achieved mechanically by using a bush hammer or needle gun or by applying a stipple coat of Weberend aid of 2 to 3mm maximum thickness. The Weberend aid stipple coat should be left with a textured/keyed surface and allowed to cure before application of Weber Monocouche Render. High suction surfaces should be prepared by pre-dampening with water at least 24 hours before application of Weber Monocouche Renders. Alternatively, a stipple coat of Weberend aid may be applied as described above.

### **2.4.4 APPLICATION**

It is essential that application of Weber Monocouche Renders is carried out by Weber trained rendering contractors, strictly in accordance with the Weberpral Monocouche Render Application Guide and the rendering specification for the project, Certificate holder's instructions and this Certificate. Weber Monocouche Renders are mixed with a drill and whisk or a free fall mixer and are normally applied by traditional methods in a one coat operation to a minimum thickness of 15mm. Although usually hand applied, weberpral D may be spray applied with a continuous mixing and pumping machine with separate mixing and pumping chambers. The finished thickness for Weber Monocouche Renders must satisfy the weatherproof and decorative requirements of the installation.

Weber Monocouche Renders should not be applied onto saturated surfaces and should also be protected from rainwater during application and for at least 5 to 10 hours after application. Finished render should be protected from weather and ongoing site work until fully cured. As with all cement based products, application should not be carried out in freezing or thawing conditions, in temperatures below 5°C, or above 30°C, and where there is a risk of frost damage to freshly applied render. For porous or high suction backgrounds, the working surface should be wetted on the day before rendering is to be applied. Use of an appropriate render thickness gauge is recommended throughout the application of Weber Monocouche Renders. To maintain consistency, panels should be completed in sequence around the building.



### Spray Roughcast

Depending on the required finished thickness, a first pass is spray applied to a minimum thickness of 10mm and ruled level. A second texture pass is applied between 1 and 2 hours after the first to form a single monolithic coat with a minimum thickness of 15mm. Total finished thickness should be between 15 and 25mm.

### Scraped Finish

The Weber Monocouche Render should be applied to the suitable substrate in a one or two pass operation to a minimum thickness of 18mm, or to a maximum thickness of 28mm (2 – 3mm will be removed by the scraping process to give a finished thickness of minimum 15mm, maximum 25mm). It should then be ruled level and allowed to harden for between 5 and 16 hours (sometimes a longer period may be necessary depending on weather and background conditions).

When the Weber Monocouche Render is green (set but not fully hardened) it should be scraped with a circular action using a scraping tool. It is essential that this is done carefully and evenly, ensuring all laitance is removed and that not part is missed. Thoroughly brush down the surface of the scraped finish using a soft bristle brush.

### Dry Dash Finish

Weber Monocouche Render is designed for accepting dry dash aggregate finishes. It can be machine render pump applied and/or by traditional hawk and trowel. It should be applied to the suitable substrate in a one or two pass operation to a minimum thickness of 18mm, or to a maximum thickness of 25mm. In many circumstances it may be possible to apply the total thickness of the render in a single pass however this will depend upon criteria such as construction alignment, suction and mechanical key offered by the substrate, weather conditions and method of application.

Alternatively, Weber Monocouche Render can be applied in two passes ensuring that the secondary pass is approximately 6mm in thickness. The first pass ideally should be left to pick up before application of the second pass. It should then be ruled level and spatula flat before casting into the freshly applied render with Weber approved dry dash aggregate of 6mm nominal size. The embedment depth of the aggregate must be a minimum of 3mm.

### Ashlar Features

Apply the Weber Monocouche Render in two passes to an initial thickness of between 20mm and 28mm to allow for an ashlar recess from 2mm deep up to a maximum of 10mm. Ensure a minimum of 15mm thickness is maintained at the base of the recess for sheltered to moderate exposure.

Rule level and spatula flat. When the material is still green, scrape the surface as detailed in the guidance notes for scraped finish.

Immediately after scraping, mark out and cut the ashlar effect using Weber ashlar tools to produce the desired profile. Thoroughly brush down the surface of the render using a soft bristle brush.

The Weber Monocouche Render will set and gain hardness in a similar manner to conventional renders.

Protection from unfavourable weather conditions should always be provided during application and early age curing.

**2.4.5 DESIGN DETAILS**

**(i) Parapets**

Weber Monocouche Renders must not be applied onto flat or sloping surfaces. An adequate flashing must always be provided to prevent water penetrating behind the render.

**(ii) Window and Door Reveals**

Alkali resistant mesh reinforcement must be included in rendering along the lintel. External arises are formed using beveled timber battens or by using stainless steel beads. In the interest of durability, stainless steel expansion joint beading should be used (see Part 4 of this Certificate). Beads must not be used at corners where ashlar features are being formed.

**(iii) Ground Level Detail**

A bell cast should be provided 150mm above ground level or above the DPC where the DPC is at a higher level. The mesh should be bedded in a thin coat of the Weber Monocouche Render as a preliminary process to the first coat.

**(iv) Dissimilar Backgrounds**

Where different backgrounds meet, in areas of weak substrate or areas subject to high stress (corners of doors, windows), joints should be covered by alkali resistant mesh reinforcement prior to applying the Weber Monocouche Render. The mesh should be bedded in a thin coat of Weber Monocouche Render as a preliminary process to the first coat.

**(v) Expansion Joints**

Where expansion or movement joints occur they should be brought through to the surface and not covered by the Weber Monocouche Render. Advice should be sought from the Certificate holder on movement beads that can be used at expansion joint locations. In the interest of durability, stainless steel expansion joint beading should be used (see Part 4 of this Certificate).

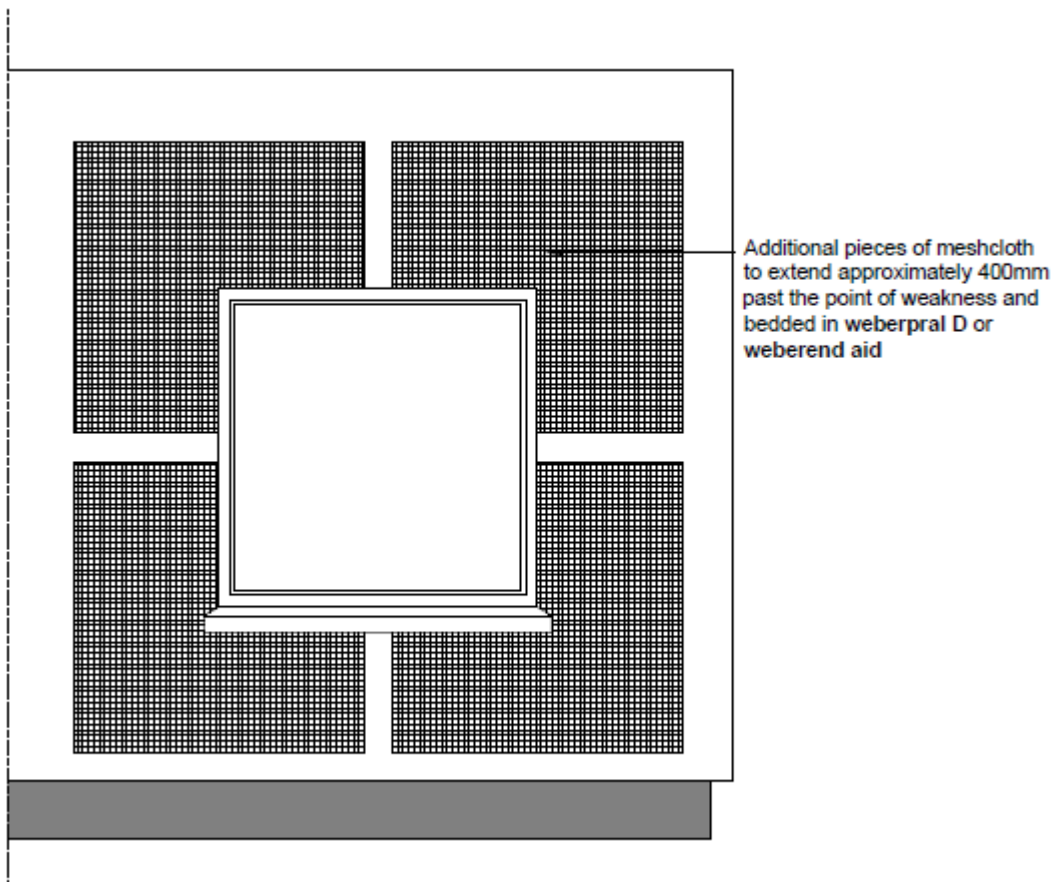


Figure 1 - Installation of reinforcement mesh around openings where specified by the render design.

### 3.1 GENERAL

Weber Monocouche Renders will enhance the weather resistance of concrete and masonry walls and provide a decorative finish. The renders are satisfactory for external application to suitably prepared brickwork, blockwork and concrete suited to receive a rendered finish. Wall design should be in accordance with that described in Part 2 of this Certificate (see Section 2.4 in particular).

### 3.2 STRENGTH AND STABILITY

Weber Monocouche Renders comply with the relevant sections of *I.S. EN 998-1 - Specification for mortar for masonry - Part 1: Rendering and plastering mortar*<sup>[7]</sup>. The renders must not be applied in areas where there is evidence of corrosion of steel reinforcement or other metal products in the background. Weber Monocouche Renders are not suitable for application over gypsum plaster or previously decorated surfaces.

The product has adequate resistance to impact damage. Where the product is exposed to severe impact (e.g. some industrial sites) or applied over existing static background cracks, precautions may be required to reduce the risk of damage.

### 3.3 STRUCTURAL FIRE SAFETY

Weber Monocouche Renders are non-combustible and have a Class A1 combustibility rating to EN 13501-1<sup>[1]</sup>. The renders, being non-combustible, do not contribute to either fire propagation or surface flame spread.

### 3.4 WEATHER RESISTANCE

Weber Monocouche Renders, when used on properly designed masonry construction, and applied in accordance with this Certificate, the manufacturer's instructions and the sections of I.S. EN 13914<sup>[4]</sup> regarding thickness and exposure will have adequate resistance to wind and wind-driven rain. Appendix C of BS 8104:1992 - *Code of practice for assessing exposure of walls to wind driven rain*<sup>[8]</sup>, together with information from the Irish Meteorological Office must be consulted as part of the render design and specification. It is important that application and building design/construction details take full account of likely weather exposure conditions.

#### 4.1 BEHAVIOUR IN FIRE

The system is non-combustible and achieves a Class A1 combustibility rating to EN 13501-1<sup>[1]</sup>.

#### 4.2 THERMAL CONDUCTIVITY

On the basis of material composition and density, the thermal conductivity ( $\lambda$ ) value of the Weber Monocouche Renders is 0.48W/mK.

#### 4.3 WATER VAPOUR PERMEABILITY

Tests show that Weber Monocouche Renders, have a water vapour permeability ( $\mu$ ) of 15 in accordance with EN 1015-19<sup>[9]</sup>.

#### 4.4 DURABILITY

An assessment of the durability of the system indicates that it can last in excess of 30 years. It is important to note that the durability of the render system is entirely dependent on the correct installation of the product in accordance with this Certificate, the manufacturer's instructions, IS EN 13914<sup>[4]</sup> and ongoing care and maintenance as described in Section 4.5 of this Certificate. Critical details include rendering at window sills, raised features, junctions with eaves and verges, and the use of suitably designed overhangs and flashings. Reference should be made to IS EN 13914<sup>[4]</sup> for general advice on design, in particular on the use of angle, stop and movement joint beads. For advice on details outside of EN 13914<sup>[4]</sup>, Weber should be contacted for technical support.

The product may become discoloured with time depending on the local environment. Appearance can normally be restored by cleaning with water and a stiff brush. In industrial atmospheres light colours should be avoided. The product may suffer from algae or lichen growth in a similar manner to traditional finishes; proprietary treatments are available to treat these and the Certificate holder should be contacted for advice on these treatments. In order to avoid lime bloom staining, the manufacturer recommends that the product should not be used below DPC level.

#### 4.5 MAINTENANCE AND REPAIR

While Weber Monocouche Renders can be assumed to be low maintenance, it is recommended that periodic checks are carried out to ensure that architectural details for shedding water clear of the building are still functioning properly.

Repairs may be necessary occasionally and an assessment of the cause should be undertaken before repairs are carried out. The advice of the Certificate holder should be sought for particular installations, and repairs shall be carried out in accordance with IS EN 13914<sup>[4]</sup>.

#### 4.6 TESTS AND ASSESSMENTS WERE CARRIED OUT TO DETERMINE THE FOLLOWING:

- Flexural and compressive strength of mortars
- Consistency (flow table)
- Workable Life
- Dry Bulk Density
- Effect of accelerated ageing on bond strength\*
- Water absorption\*
- Initial surface absorption
- Water vapour permeability\*
- Resistance to hard body impact

#### 4.7 OTHER INVESTIGATIONS

- (i) Existing data on product properties in relation to weather resistance and the effect on mechanical strength/stability and durability were assessed.
- (ii) The manufacturing process was examined including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.
- (iii) Site visits were conducted to assess the practicability of installation and the history of performance in use of the product.

#### 4.8 CE MARKING

The manufacturer has taken responsibility of CE marking the Weber Monocouche Rendering System in accordance with harmonised European Standard EN 998-1:2010 *Specification for mortar for masonry – Part 1: Rendering and plastering mortar*. An asterisk (\*) appearing in this Certificate indicates that data shown is an essential characteristic of the product and declared in the manufacturer's Declaration of Performance (DoP) <sup>[10]</sup>. Reference should be made to the latest version of the manufacturer's DoP for current information on any essential characteristics declared by the manufacturer.



National Standards Authority of Ireland ("NSAI") following consultation with NSAI Agrément has assessed the performance and method of installation of the product/process and the quality of the materials used in its manufacture and certifies the product/process to be fit for the use for which it is certified provided that it is manufactured, installed, used and maintained in accordance with the descriptions and specifications set out in this Certificate and in accordance with the manufacturer's instructions and usual trade practice. This Certificate shall remain valid for five years from date of latest revision so long as:

- (a) the specification of the product is unchanged.
- (b) the Building Regulations and any other regulation or standard applicable to the product/process, its use or installation remains unchanged.
- (c) the product continues to be assessed for the quality of its manufacture and marking by NSAI.
- (d) no new information becomes available which in the opinion of the NSAI, would preclude the granting of the Certificate.
- (e) the product or process continues to be manufactured, installed, used and maintained in accordance with the description, specifications and safety recommendations set out in this certificate.
- (f) the registration and/or surveillance fees due to NSAI Agrément are paid.

5.1 The NSAI Agrément mark and certification number may only be used on or in relation to product/processes in respect of which a valid Certificate exists. If the Certificate becomes invalid the Certificate holder must not use the NSAI Agrément mark and certification number and must remove them from the products already marked.

5.2 In granting Certification, the NSAI makes no representation as to;

- (a) the absence or presence of patent rights subsisting in the product/process; or

- (b) the legal right of the Certificate holder to market, install or maintain the product/process; or

- (c) whether individual products have been manufactured or installed by the Certificate holder in accordance with the descriptions and specifications set out in this Certificate.

5.3 This Certificate does not comprise installation instructions and does not replace the manufacturer's directions or any professional or trade advice relating to use and installation which may be appropriate.

5.4 Any recommendations contained in this Certificate relating to the safe use of the certified product/process are preconditions to the validity of the Certificate. However the NSAI does not certify that the manufacture or installation of the certified product or process in accordance with the descriptions and specifications set out in this Certificate will satisfy the requirements of the Safety, Health and Welfare at Work Act 2005, or of any other current or future common law duty of care owed by the manufacturer or by the Certificate holder.

5.5 The NSAI is not responsible to any person or body for loss or damage including personal injury arising as a direct or indirect result of the use of this product or process.

5.6 Where reference is made in this Certificate to any Act of the Oireachtas, Regulation made thereunder, Statutory Instrument, Code of Practice, National Standards, manufacturer's instructions, or similar publication, it shall be construed as reference to such publication in the form in which it is in force at the date of this Certification.

## NSAI Agrément

This Certificate No. **03/0180** is accordingly granted by the NSAI to **Saint-Gobain Construction Products UK Ltd t/a Saint-Gobain Weber Ltd.** on behalf of The Irish Agrément Board.

Date of Issue: **June 2003**

### Signed



**Kevin D. Mullaney**  
**Director of Certification NSAI**

Readers may check that the status of this Certificate has not changed by contacting NSAI Agrément, NSAI, 1 Swift Square, Northwood, Santry, Dublin 9, Ireland.  
Telephone: (01) 807 3800. [www.n sai.ie](http://www.n sai.ie)

### Revisions:

- **March 2010, November 2017:** Change of company name. References to Building Regulations and standards updated, product specifications updated to reflect manufacturer's DoP.
- **23 June 2023:** References to Building Regulations updated.
- **31 October 2024:** Revision assessment to include dry dash finishes.

## **BIBLIOGRAPHY**

- [1] I.S. EN 13501-1:2018 - *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire test.*
- [2] CLP Regulation (EC) No 1272/2008 - *Classification, labelling and packaging of substances and mixtures.*
- [3] S.R. 325:2013+A2:2018/AC:2019 - *Recommendations For The Design Of Masonry Structures In Ireland To Eurocode 6.*
- [4] I.S. EN 13914-1:2016 - *Design, Preparation and Application Of External Rendering And Internal Plastering - Part 1: External Rendering.*
- [5] I.S. EN 772-5:2016 - *Methods of Test For Masonry Units - Part 5: Determination Of The Active Soluble Salts Content Of Clay Masonry Units.*
- [6] I.S. EN 1996-1-1:2005+A1:2012/NA:2010+A1:2014 - *Eurocode 6 - Design of masonry structures - Part 1-1: General rules for reinforced and unreinforced masonry structures.*
- [7] I.S. EN 998-1:2016 - *Specification for Mortar for Masonry - Part 1: Rendering And Plastering Mortar.*
- [8] BS 8104:1992 - *Code of practice for assessing exposure of walls to wind-driven rain.*
- [9] I.S. EN 1015-12:2016 - *Methods of Test For Mortar For Masonry - Part 12: Determination Of Adhesive Strength Of Hardened Rendering And Plastering Mortars On Substrates*
- [10] Declaration of Performance Reference - *DoP-CE-weberpral D-150323*