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Agrément Certificate  
**14/5141**  
Product Sheet 1

## RENTOKIL DAMP ROD SYSTEMS

### DAMP ROD

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Damp Rod, a 12 mm diameter controlled-release fibre rod containing silane concentrate for insertion into mortar courses to form a remedial damp-proof course (dpc) in existing walls, and the associated replastering.

(1) Hereinafter referred to as 'Certificate'.

#### CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



#### KEY FACTORS ASSESSED

**Effectiveness against rising damp** — when inserted into suitable substrates in accordance with BS 6576 : 2005, the product diffuses to form an effective barrier against rising damp in existing walls (see section 6).

**Drying time** — after treatment, a 230 mm solid brick wall previously affected by rising damp should normally dry out in 6 to 12 months (see section 7).

**Durability** — the product will remain effective against rising damp in walls for at least 20 years (see section 9).

The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 21 August 2014

Simon Wroe  
Head of Approvals — Materials

Claire Curtis-Thomas  
Chief Executive

*The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)*

*Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.*

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# Regulations



## The Building Regulations 2010 (England and Wales) (as amended)

In the opinion of the BBA, the use of Damp Rod in an existing building is not subject to these Regulations, but action to satisfy Requirement C2(a) and Regulation 7 may be necessary for a 'Material change of use' as defined in Regulation 5(a) (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):

Requirement:	C2(a)	Resistance to moisture
Comment:		The product satisfies the BBA rising damp test and adequately resists the passage of moisture. See section 6 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The product is acceptable. See section 9 and the <i>Installation</i> part of this Certificate.



## The Building (Scotland) Regulations 2004 (as amended)

In the opinion of the BBA, the use of Damp Rod in an existing building is not subject to these Regulations, but action to satisfy the Regulations and related Mandatory Standards below may be necessary for a 'Conversion' as defined in Regulation 4 (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):

Regulation:	8(1)	Durability, workmanship and fitness of materials
Comment:		The product can contribute to a construction satisfying this Regulation. See section 9 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	3.3	Flooding and ground water
Standard:	3.4	Moisture from the ground
Comment:		The product satisfies the BBA rising damp test and adequately resists the passage of moisture, and can contribute to satisfying these Standards with reference to clauses 3.3.1 <sup>(1)(2)</sup> , 3.4.1 <sup>(1)(2)</sup> and 3.4.5 <sup>(1)(2)</sup> . See section 6 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The product can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.
Regulation:	12	Building standards applicable to conversions
Comment:		All comments given for this product under Regulation 9, Standards 1 to 6 also apply to this Regulation, with reference to clause 0.12.1 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup> . (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).



## The Building Regulations (Northern Ireland) 2012

In the opinion of the BBA, the use of Damp Rod in an existing building is not controlled by these Regulations, but action to satisfy Regulations 23(a)(i)(ii)(iii)(iv) and 28(a) may be necessary for a 'Material change of use' under Regulation 8 (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):

Regulation:	23(a)(b)(i)	Fitness of materials and workmanship
Comment:		The product is acceptable. See section 9 and the <i>Installation</i> part of this Certificate.
Regulation:	28(a)	Resistance to moisture and weather
Comment:		The product satisfies the BBA rising damp test and adequately resists the passage of moisture. See section 6 of this Certificate.

## Construction (Design and Management) Regulations 2007

## Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See sections: 3 *Delivery and site handling* (3.1 and 3.4) and 11 *Precautions* of this Certificate.

# Additional Information

## NHBC Standards 2014

NHBC accepts the use of Damp Rod, provided it is installed, used and maintained in accordance with this Certificate, in relation to *NHBC Standards*, Chapter 5.1 *Substructure and ground floors*.

# Technical Specification

## 1 Description

Damp Rod is a 12 mm diameter controlled-release fibre rod containing a silane concentrate, used to form a barrier against rising damp in walls where there is no dpc, or where the existing dpc has failed.

## 2 Manufacture

2.1 The silane concentrate element of the product is manufactured in a controlled batch blending process. The silane concentrate is incorporated into ridged fibre rods during the manufacturing process.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

## 3 Delivery and site handling

3.1 The product is supplied in the lengths and pack sizes shown in Table 1:

Table 1 Product lengths and pack sizes

Length (mm) <sup>(1)</sup>	Pack quantities
180	10 (standard), 40, 50 and 100 (bulk)
90	20 (standard), 40, 50 and 100 (bulk)
45	40 (standard), 50 and 100 (bulk)

(1) Where required, the product can also be cut to length.

3.2 It is recommended that, where possible, standard lengths (ie uncut – see section 3.1) of the product are used to fill drilled holes according to the thickness of the walls.

3.3 The product should be stored in a cool, dry place and protected from frost.

3.4 The product is classified as 'skin irritant' under *The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP4)/Classification, Labelling and Packaging of Substances and Mixtures (CLP Regulation) 2009*.

# Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Damp Rod.

## Design Considerations

### 4 Use

4.1 Damp Rod is satisfactory for use in forming a damp-proof course in accordance with BS 6576 : 2005 in existing:

- solid walls of brickwork, blockwork or natural stone (including flint), up to 600 mm thick
- conventional cavity walls, or
- walls of rubble-filled construction of any thickness.

4.2 The installation process involves inserting the product into a series of holes drilled into the mortar course, and the subsequent replastering.

4.3 Where existing plaster is contaminated by salts, replastering is necessary to retain the salts in the body of the wall and prevent damage to subsequent redecoration. This should be carried out in accordance with a BBA-Certified Replastering Specification.

### 5 Practicability of installation

Installation must be carried out by contractors with experience of this type of product.

## 6 Effectiveness against rising damp



When installed in the substrates defined in section 4.1 in accordance with BS 6576 : 2005, the product forms an effective barrier against rising damp.

## 7 Drying time

After treatment, a 230 mm thick solid brick wall previously affected by rising damp should normally dry in 6 to 12 months provided normal heating is used during the winter months. A thicker wall may take longer. Where hygroscopic salts are present, the wall may not dry completely but the replastering system will prevent damage to internal decorations.

## 8 Maintenance

The product does not require maintenance.

## 9 Durability



Excluding use in new repair work (where highly-alkaline mortars are present), the product is expected to remain effective against rising damp for at least 20 years.

# Installation

## 10 General

10.1 Installation of Damp Rod is carried out by a contractor in accordance with BS 6576 : 2005 and The Property Care Association's *Code of Practice for Installation of Remedial Damp-proof Courses in Masonry Walls*.

10.2 The original survey may have identified other possible causes of dampness, and measures to rectify these must be taken as necessary.

10.3 Split responsibility can be avoided if any replastering is carried out by the installer or its approved agent.

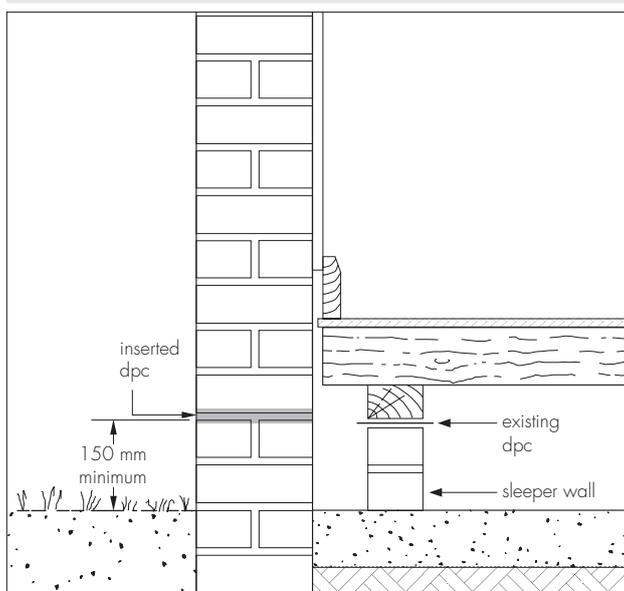
## 11 Precautions

The dpc concentrate contained in the product does not present a flammability hazard. It is recommended that protective gloves (such as nitrile gloves) are used during handling.

## 12 Timber floor — inspection, preparation and repair

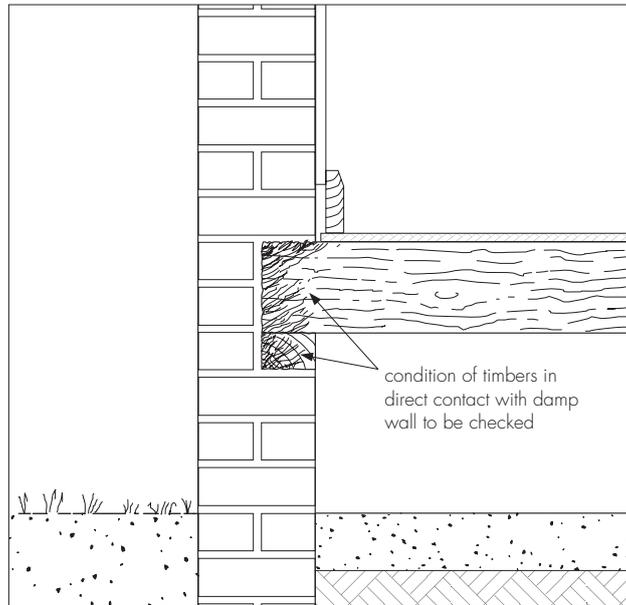
12.1 Sleeper walls which are independently supporting suspended timber floors and which are not showing signs of dampness do not require treatment (see Figure 1).

Figure 1 Suspended timber floor on sleeper wall



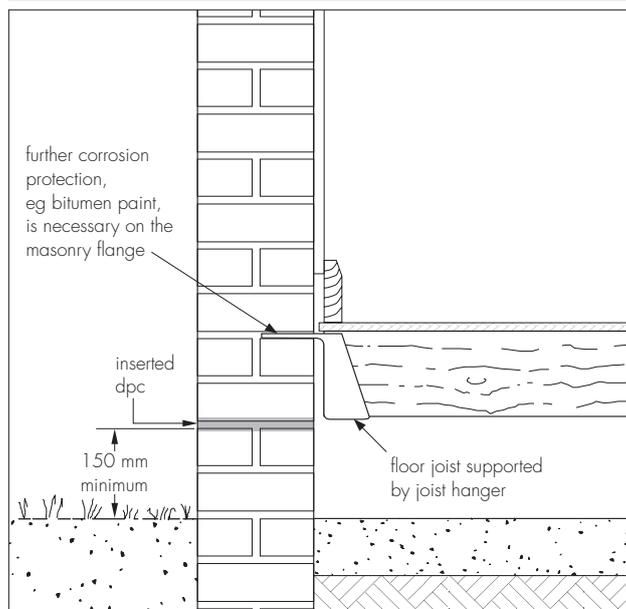
12.2 Where a suspended timber floor is supported on joists and/or a wall plate is bearing on, or embedded in, the wall, there is a possibility of decay, particularly where concealed timbers are in contact with the damp wall. The condition of these timbers should be ascertained and remedial action taken if necessary (see Figure 2).

Figure 2 Checking embedded timbers for decay



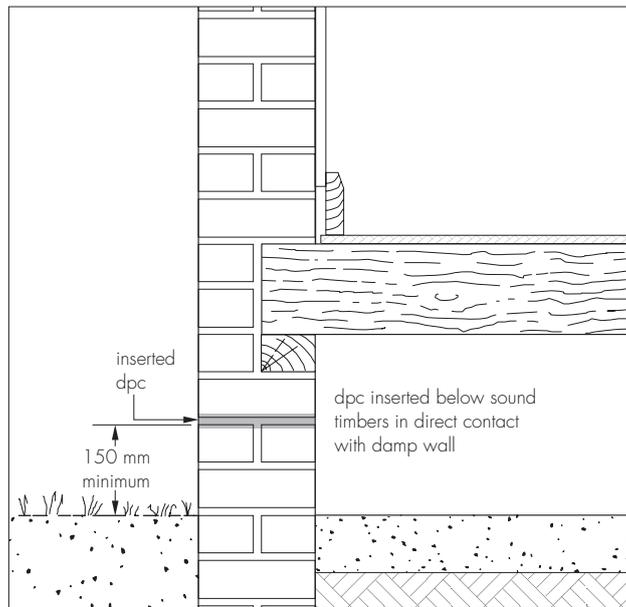
12.3 If damage is limited to the joist ends, the floors may be re-formed, using sleeper walls or joist hangers to isolate the timbers from the damp wall (see Figure 3).

Figure 3 Isolation of timber joists from damp wall



12.4 If the timbers are sound, the existing floor may be retained provided the inserted damp-proof course is formed below the timber joists and/or wall plate (see Figure 4).

Figure 4 Insertion of dpc below wall plate



## Installation

### 13 Preparation

13.1 The course to be treated is chosen so that the position of the horizontal dpc complies, as far as is practicable, with the recommendations of BS 6576 : 2005, clause 8.3 (see section 12.4 of this Certificate).

13.2 Internal walls on solid floors are treated as close to the floor as possible.

13.3 Complementary vertical dpc's are positioned, where necessary, to isolate treated walls from the effects of rising damp in adjoining walls or to maintain continuity between horizontal dpc's at different levels.

13.4 Internal skirtings and flooring are removed, as necessary, to expose the area for treatment. Externally, the proposed dpc line is exposed, where necessary, by removing any facing material. Internal plastering affected by hygroscopic salts is removed from the area to be treated to a height of at least 300 mm above the maximum level of the rising damp (subject to a 1 m minimum height). Where the plaster appears to be in sound condition, the extent of plaster to be removed may be minimised by delaying the removal of contaminated plaster until the drying period is complete, at which point the plaster contaminated by hygroscopic salts should be removed and replaced with plaster in accordance with a BBA Certified Replastering Specification.

13.5 It should be noted that, where the plaster is contaminated and left to dry out for an extended period rather than being replaced at the time of the dpc installation, there is a risk of damage to future decorations.

### 14 Procedure

14.1 Holes 12 mm in diameter are drilled horizontally at the base of perpend and at maximum intervals of 120 mm along the selected mortar course.

14.2 Solid walls of brick or stone should be drilled from one side to within 20 mm of the opposite face. Where this is not possible, advice should be sought from the Certificate holder.

14.3 Cavity walls should be treated from both sides, ensuring the cavity is clear before the insertion of Damp Rods.

14.4 If possible, in random stone and rubble infill walls, the mortar course should be followed at the appropriate selected level, or drillings may be made into porous stone. Where the variable thickness of stone walls and the possibility of rubble infill dropping and blocking insertion holes causes difficulties, it may be necessary to drill to 50% of the wall thickness from both sides at a corresponding height. Alternatively, additional holes should be drilled adjacent to obstructed holes to ensure that the area is adequately treated by the product.

14.5 For a standard 230 mm wall thickness, a 180 mm Damp Rod is inserted into the predrilled hole. For thicker walls, a combination of product lengths can be inserted to suit the wall thickness. The product can be cut to the required length where the exact wall thickness cannot be made up by the standard sizes alone.

14.6 Particular care must be taken to avoid bridging the dpc, either internally or externally. Where external rendering has been removed, it must be restored, ending in a bell casting above the injected dpc.

14.7 Holes in the external wall surfaces are plugged with sand/cement mortar coloured to match the existing wall surface.

14.8 Where existing plaster has been removed at the same time as the installation of the remedial dpc, the treated walls should be left for as long as possible (at least 14 days) to allow initial drying out. Internal plastering is applied in accordance with a BBA-Certified Replastering Specification.

## Technical Investigations

### 15 Tests

Tests were carried out on Damp Rod and the results assessed to determine effectiveness against rising damp.

### 16 Investigations

16.1 The manufacturing process was evaluated, and the raw material specifications, formulation and quality control procedures were established.

16.2 Existing data on the effectiveness of silane/silicone-based products as a chemical dpc were evaluated.

16.3 Existing data on the effectiveness and durability of similar materials used as external surface water repellents were evaluated and an assessment was made of the durability of the installed product.

16.4 An evaluation was made of the practicability of installation.

## Bibliography

BS 6576 : 2005 *Code of practice for diagnosis of rising damp in walls of buildings and installation of chemical damp-proof courses*

## 17 Conditions

17.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page — no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

17.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

17.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

17.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

17.5 In issuing this Certificate, the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

17.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.