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**Compostable
Materials**
Certification Scheme



REAL Home Compostable Products Scheme Rules

according to

NF T 51-800

and / or

AS 5810

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Foreword

Renewable Energy Assurance Limited (REAL) is a wholly owned subsidiary of a not-for-profit organisation, the Association for Renewable Energy and Clean Technology (REA), carrying out a range of third-party certification and consumer protection activities. REAL owns and administers the Compostable Materials Certification Scheme (CMCS).

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REAL appoints certification bodies to provide certification services, organisations with product certification expertise within their businesses. The certification bodies confirm to REAL whether products meet the requirements for use of the REAL 'Home Compostable' certification mark. The certification bodies operate according to EN ISO/IEC 17065 or EN ISO/IEC 17020 and show compliance by holding and maintaining such accreditation.

Products certified under the CMCS can be certified as meeting the requirements of this scheme and/or the 'REAL Industrially Compostable Products' scheme. More information on the 'REAL Industrially Compostable Products' scheme can be found on www.compostablematerials.org.uk.

This certification scheme is maintained by REAL and will be continuously improved, when applicable. For this, REAL will appoint a committee of dedicated experts with the certification bodies participating and a group of interested parties in order to harmonise the scheme.

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1 SCOPE

The “REAL Home Compostable Products” is a certification scheme for the United Kingdom, which provides services to producers for the independent assessment and labelling of home compostable products.

The “REAL Home Compostable Products” scheme provides consumers with assurance and confidence in certified products. It also provides consumers with a platform to check the certification status of products and identify the appropriate end-of-life options on the website:

www.compostablematerials.org.uk.

1.1 Product types

This certification scheme applies for the following products:

a) Shopping bags, b) Waste bags, c) Packaging, d) Films, e) Tableware, f) Cups, g) Trays, h) Food containers, i) Straws, j) Cutlery, k) Coffee capsules, l) Lids, m) Teabags, n) Coffee filters, o) Coffee pods, p) Cling film, q) Dental floss, r) Tea filters, s) Cosmetic face masks, t) Coffee stirrers, u) Wipes, v) Tablecloths, w) Single use place mats, x) Baking paper, y) Plant pots

NOTE: Metal clips on teabags are not permissible or compliant with this scheme.

NOTE: Certification does not cover the possible presence of toxic or non-biodegradable residues on wipes. Certificate holders will be required to make this clear to customers.

1.2 Product units

Product units are distinguished as easily manually separable units and not easily manually separable units.

- Easily separable units (packaging units according to BS EN 13432).

These products will be processed as one product unit. If both parts of a product unit are certified separately, both parts must independently show conformity with this certification scheme. Therefore, the calculation of potential additives will be required for each single unit. Nevertheless, the complete and un-separated product unit needs to meet the requirements as well.

- Not manually separable units

These products will be processed as one unit. Any additives contained are related to the whole unit.

NOTE: Easily separable units refer to products like cups with lids. Not manually separable units refer to products like labels on packaging. The certification bodies will determine whether the product will be assessed as components or as one unit.

1.3 Definition of types, subtypes, and product families

Products relevant to certification, as listed in section 1.1, are defined as types. An individual certificate will be issued for each type.

A subtype is defined as the (end) product that is different based on dimensions. Different sub-types are grouped into one product family of alternative dimensions or alternative compositions. Multiple subtypes can be grouped onto one certificate.

NOTE: There is no legal right to receiving a certificate or any other confirmation of conformity.

1.4 Applicants

Applicants can be both initial applicants (businesses applying for certification), or certificate holders (businesses manufacturing or distributing certified products) according to this scheme.

2 TEST AND CERTIFICATION SPECIFICATIONS

For home compostable product certification, products are assessed against and certified to the standard:

NF T 51-800:2015-11 ('Plastics — Specifications for plastics suitable for home composting).

Additionally, or alternatively, products can also be assessed and certified against:

AS 5810:2010 ('Biodegradable plastics—Biodegradable plastics suitable for home composting).

The obligation to comply with laws and regulations governing the respective products is in no way affected by this certification scheme.

3 PRODUCT REQUIREMENTS

According to NF T 51-800 and/or AS 5810, the following requirements apply:

- Compliance with the threshold values named in Table 1 in AS 5810 and/or Table 1 in NF T 51-800, respectively, and the control of constituents mentioned in Section 5.1 of NF T 51-800.
- Per- and polyfluoroalkyl substances (PFAS) not intentionally added.

NOTE: PFAS's are defined by the OECD as 'fluorinated substances that contain at least one fully fluorinated methyl or methylene carbon atom (without any H/Cl/Br/I atom attached to it), i.e., with a few noted exceptions, any chemical with at least a perfluorinated methyl group (-CF3) or a perfluorinated methylene group (-CF2-) is a PFAS'.

NOTE 2: For initial applicants, a declaration is required in the signed and completed application form. For producers with already certified products, a transition period is allowed and will cover the remaining period of certificate validity.

- Ultimate biodegradability based on testing mentioned in the Normative References of NF T 51-800 and/or AS 5810, respectively. Evaluation criteria of both standards apply, respectively.
- After composting for no more than 180 days at ambient temperatures, not more than 10 % of the original dry weight of a test material shall fail to pass through a > 2 mm fraction sieve. Evidence must be demonstrated via a test according to Section 6.4 of NF T 51-800 and/or Section 5.5 of AS 5810.

- The germination rate and plant biomass of two plant species shall be more than 90 % of those from the corresponding blank compost according to OECD 208 with the modifications stated in BS EN 13432, Annexes A.4 and E. Evaluation criteria of Section 6.5 of NF T 51-800 and/or Section 5.6 of AS 5810 apply, respectively.
- According to AS 5810, the survival rate and mean weight of selected earthworm species *Eisenia fetida* should be more than 90 % of those from the corresponding blank compost according to ASTM E 1676. Test and evaluation criteria according to Section 5.6 of AS 5810.
- Additives present in a manufactured item at concentrations of less than 1 % of dry mass of the finished item must be harmless for the composting process.
- The total sum of the organic compounds for which biodegradability need not to be determined may not exceed 5 % of mass.
- Residues remaining in packaging or substances that may be disposed together with the product must be suitable for composting.
- According to NF T 51-800, the plastic product assessed shall not include any endocrine disruptor, any of the carcinogenic, mutagenic, or toxic for reproduction (CMR) substances appearing on the candidate list of substances of very high concern for authorization, published in accordance with Article 59(10) of Regulation (EC) No. 1907/2006.

4 TESTING

4.1 General information

To carry out the inspections and tests necessary for the evaluation and certifications, the certification body uses testing laboratories it has recognised in line with its accreditation according to EN ISO/IEC 17065 or EN ISO/IEC 17020 and based on EN ISO/IEC 17025.

The certification body shall have a monitoring system in place to demonstrate competence and quality of the recognised testing laboratories in accordance with its accreditation.

Test reports submitted for certification, verification and/or renewal shall be in compliance with EN ISO/IEC 17025. Additional test report requirements of the test method standards apply.

Test reports according to other certification systems could be accepted, if they meet the requirements of this certification scheme and that testing laboratory is recognized by the respective certification body.

All documents must be submitted in English.

4.2 Types of tests

Applicants provide the testing laboratories and the certification body with samples, as required; applicants shall bear all costs applying for sampling, transport, testing, and similar.

4.2.1 Initial test

The initial test is a type test intended to establish whether the products meet the requirements according to Section 3 of this certification scheme.

4.2.2 Verification test (Control test)

All certified products undergo verification testing by means of IR spectroscopy, thick-ness/grammage and chemical characterisation.

The certification body alerts the certificate holder about upcoming verification tests due.

4.2.3 Additional testing

Additional testing may be required if any changes are intended for a certified product that may have an influence on conformity with the underlying requirements.

The certification body will assess if such additional testing is required.

5 APPLICATION PROCESS

5.1 Process flow

a) For products that have not yet been tested



b) For products that have already been tested



5.2 Initial application documents

Applicants (producers of compostable products or sub-licensees) submit the following application documents to the scheme owner and the certification body:

- Signed and completed Application Form (and Data Sheet attached)
- Safety Data Sheets/Material Safety Data Sheets according to REACH for all substances used to determine the additives' suitability for composting
- Up to date (maximum three years old by default) test report (if the product has already been tested for the scope of this scheme at a recognized testing laboratory)

NOTE: The certification body will check if the test report is still valid through seeking confirmation from the laboratory and will seek confirmation from the applicant that the product has not changed since testing.

- Test reports or certificates for materials, intermediates, or additives (if components of the product have already been tested and/or certified for the scope of this scheme)

5.3 Technical pre-assessment

- 5.3.1 Where an up-to-date test report for the final/end product is not available, the applicant can apply for a technical pre-assessment and obtain a full detailed quotation for testing and certification.
- 5.3.2 The certification body determines whether the product is suitable for certification and whether any tests can be omitted from the full suite of tests specified in the applicable standard.
- 5.3.3 If the applicant does not wish to apply for a technical pre-assessment, the quotation for the full certification process will itemise the full suite of tests required for compostable certification. The applicant can decide whether to proceed with testing samples of their product at one of the recognized testing laboratories. Certification is only possible on the basis of positive test results. Therefore, if the applicant does not wish to apply for a technical pre-assessment or to send product samples for testing to a recognized testing laboratory for the full suite of tests, it will not be possible to certify the product under this scheme.

6 VERIFICATION PROCESS

6.1 Verification procedures

- 6.1.1 Verification testing is performed in predefined intervals. During the term of certificate validity, the certification body alerts the certificate holders to when testing is due for a product. The certification body sends the certificate holder a written request to supply the samples required for testing to a specified address. The sample quantity for each product is assessed by the certification body and confirmed to the applicant.
- 6.1.2 Samples of the certified product are tested for IR spectroscopy and thickness/grammage once a year at the approved testing laboratory where initial testing was performed or the certification body (in-house) where initial IR and thickness/grammage testing was performed. If the samples are tested at an approved laboratory, the reports are provided by the laboratory to the certification body which issued the respective certificate. The results are assessed by said certification body.
- 6.1.3 After receiving the alert from the certification body, product samples are sent to an approved testing laboratory for chemical characterisation testing. Product samples are tested for chemical characterisation according to Table 1 in NF T 51-800 and/or Table 1 of AS 5810, respectively, once during the period of certificate validity and the report is provided by the laboratory to the certification body which issues the respective certificate. The results are assessed during the conformity assessment for certificate renewal.
- 6.1.4 These samples are taken from various production sites and marked accordingly. If more than three production sites are available, samples are submitted from alternating sites on the basis of \sqrt{n} . The number is rounded up to the next integer.

7 RENEWAL PROCESS

7.1 Process flow



7.2 Application procedures

7.2.1 The certification body alerts the certificate holder six months prior to when chemical characterisation is due for a product renewal and before the certificate expires. The certification body sends the certificate holder a written request to supply the samples required for testing to a specified address and alerts the certificate holder to hand in an application for renewal.

NOTE: The timeframe for alerting the certificate holder will differ if any of the applicable standards have been updated during the period of certificate validity.

7.2.2 An application for renewal should be submitted sufficiently in advance prior to certificate expiry.

7.2.3 Any producer who intends to apply for renewal of certification can request an application form from the scheme owner or download the relevant form(s) from the scheme owner's website. The relevant application form is required to be completed with the attached data sheet.

7.3 Application for renewal documents

7.3.1 Applicants submit the following documents to the scheme owner:

- Signed and completed Application Form (and Data Sheet attached)
- Verification test reports (IR spectroscopy, thickness/grammage, and chemical characterization from a recognized testing laboratory of the respective certification body which issued the respective certificate(s))

7.3.2 The scheme owner reviews the application for renewal documents before supplying them to the respective certification body, which issued the respective certificate(s), for the conformity assessment.

8 AMENDMENT PROCESS

8.1 Application procedures

8.1.1 The certificate holder alerts the certification body as soon as they know they wish to change their certified product(s).

8.1.2 When notifying the certification body, the certificate holder confirms what they wish to change.

8.1.3 The certification body confirms when the certificate holder should apply for amendment.

- 8.1.4 Any producer who intends to apply for amendment can request an application form from the scheme owner or download the relevant form(s) from the scheme owner’s website. The relevant application form is required to be completed with the attached data sheet.

9 CONFORMITY ASSESSMENT

9.1 Initial certification

- 9.1.1 If the final product has been tested by one of its recognised testing laboratories, the certification body carries out the conformity assessment with the aid of the test report.
- 9.1.2 The certification body carries out the conformity assessment against the applicable standard, according to this certification scheme document in its latest version.
- 9.1.3 If the conformity assessment is successful, the certification body confirms to the scheme owner that the product conforms with the “REAL Home Compostable Products” requirements.
- 9.1.4 The certification body generates and issues the original PDF certificate and certification mark with the product registration number to the scheme owner. The scheme owner issues the PDF certificate and certification mark to the applicant.
- 9.1.5 The product is registered with the product details uploaded to and published on the CMCS and certification bodies’ databases and displayed on the CMCS website www.compostablematerials.org.uk.
- 9.1.6 The producer is granted the right to use the certification mark (the REAL ‘Home Compostable’ mark) by the scheme owner in line with the respective signed trademark licence agreement between the certificate holder and REAL.



9.2 Verification

- 9.2.1 The certification body carries out the conformity assessment against the applicable standard, according to the applicable certification scheme document.
- 9.2.2 If the results fulfil the necessary requirements, the certificate will remain valid, and the licence agreement will not be terminated by the scheme owner for use of the certification mark.
- 9.2.3 If there are deviations from the spectral analyses or the maximum applicable wall thickness/grammage submitted with the application, the certification body informs the scheme owner in written form, the scheme owner informs the certificate holder and requests a written

position statement. If the certification body cannot make a positive assessment on the basis of the position statement, 10 new samples are submitted for re-testing.

- 9.2.4 If the assessment does not meet the necessary requirements following the re-test, the certificate will be suspended.

NOTE: Additionally, the verification conformity assessment covers the checking of the product with the respective certification mark and corresponding registration number.

9.3 Renewal

- 9.3.1 The certification body carries out the conformity assessment with the application for renewal documents, including verification test reports.
- 9.3.2 If there were no deviations found during the verification tests, the certificate is renewed.
- 9.3.3 If any deviations were found during the verification tests, it will be considered by the certification body and the certificate may not be renewed.

10 CERTIFICATES

10.1 Validity of certificates

- 10.1.1 The certificate for products is valid for 5 years. The period of validity is shown on the certificate. On expiry of the certificate, the right to use the mark also expires.

10.2 Product registration numbers

- 10.2.1 Composition of the registration number:

UKHCxxxx

11 APPEAL PROCESS

11.1 Appeal procedures

- 11.1.1 Any producer that appeals against a decision taken by the certification body shall follow the certification body's relevant appeal procedures.
- 11.1.2 The producer makes known the reasons for the appeal and provides supporting evidence.
- 11.1.3 The certification body follows its own appeal procedures and keeps the scheme owner informed of all appeals received, their subjects and outcomes.