

# PAS 2030:2012 Edition 2

## Improving the energy efficiency of existing buildings

Specification for installation process, process management and service provision



Department  
of Energy &  
Climate Change

**bsi.**

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# Foreword

This second edition of PAS 2030:2012 has been facilitated by BSI Standards Limited in response to changes to the list of energy efficiency measures (EEM) included under the Green Deal. This PAS continues to provide a specification for the installation of such measures, using products and systems approved for use in the installation of EEM as recognized in the UK Government's Standard Assessment Procedure (SAP) in relation to the Green Deal and the Green Deal Code of Practice, in existing buildings. This will be particularly but not exclusively where such installation is undertaken within the remit of the United Kingdom Green Deal Financing Mechanism.

The development of this PAS was sponsored by the Department for Energy and Climate Change (DECC).

Mr Tom Lock of the Energy Saving Trust Limited the Technical Author for the first edition of PAS 2030, has also participated in the preparation of the second edition.

Recognition is given to the following organizations that, through nomination of experts have assisted with the development of edition 1 and/ or edition 2 of this specification through direct technical input and through the provision of liaison with other bodies not directly represented on the group:

- Asset Skills
- Association of British Certification Bodies
- Bathroom Manufacturers Association
- British Blind and Shutter Association
- British Board of Agrément
- British Electrotechnical and Allied Manufacturers Association
- British Gas
- British Pump Manufacturers Association
- British Standards Institution Consumer & Public Interest Network
- Building and Engineering Services Association
- Chartered Institution of Building Services Engineers
- Construction Products Association
- CITB-ConstructionSkills
- Cotherm UK Ltd.
- Department of Communities and Local Government
- Electrical Contractors Association
- Energy Retailers Association
- Energy Saving Trust
- Federation of Master Builders
- Federation of Environmental Trade Associations
- Gemserv
- Glass and Glazing Federation
- Grundfos UK
- Hot Water Association
- Insulated Render and Cladding Association
- Kingfisher plc
- Kingspan Insulation Limited
- Lighting Industry Association Ltd
- National Insulation Association
- Royal Institute of British Architects
- Summit Skills
- The Association of Controls Manufacturers
- United Kingdom Accreditation Service
- University College London.

Comments from other parties were also sought by BSI, particularly through the Expert Review and Public Comment process, which took place during September 2012. The expert contributions from all the organizations and individuals consulted in the development this PAS are gratefully acknowledged.



## Publishing information

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This PAS is not to be regarded as a British Standard, European Standard or International Standard. In the event that this PAS is put forward to form the basis of a full British Standard, European Standard or International Standard, it will be withdrawn.

## Presentational conventions

The provisions of this PAS are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall". Its recommendations are expressed in sentences in which the principal auxiliary verb is "should".

*Commentary, explanation and general informative material, e.g. Notes, are presented in italic type, and do not constitute a normative element.*

## Contractual and legal considerations

Attention is drawn to the fact that the Green Deal Code of Practice requires installers of energy efficiency measures installed under the Green Deal Financing Mechanism to be certified as conforming to this PAS.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Attention is drawn to the principle, applicable in British Standards generally, that they do not require actions that are the subject of legal requirement. Therefore, this PAS does not include, for example, requirement to observe Health and Safety, Building Regulations, Gas Safety Regulations, Water Regulations, etc. with which it is assumed users of this PAS will be in compliance.

**Compliance with this PAS does not in itself confer immunity from legal obligations.**



# Introduction

The second edition of this PAS continues to provide a specification for the installation of energy efficiency measures (EEM) in existing buildings although the list of EEM to which it relates has been changed in line with changes to the list of measures permitted under the Green Deal. The primary objective for the PAS remains as the provision of a robust, uniformly applicable specification that will assist installers that comply with its requirements in full to demonstrate that their installation processes are capable of providing installation of energy efficiency improvement measures to specification and in accordance with the customer's expectations.

This PAS has been produced to work alongside, but not exclusively in connection with, the Green Deal Financing Mechanism. The Green Deal is the Coalition Government's flagship policy for improving the energy efficiency of buildings in Great Britain. It is a market framework based on a key principle that some energy efficiency related changes to properties pay for themselves, in effect, through the resulting savings on fuel bills.

The Green Deal creates a financing mechanism that will allow a range of energy efficiency measures to be installed in both dwellings and non-dwellings at no upfront cost. DECC is using this PAS:

- to set the requirements for the installation of the measure(s) under the Green Deal and in accordance with the requirements of the Green Deal Code of Practice; and
- as a good practice benchmark for installations carried out on their flagship policy.

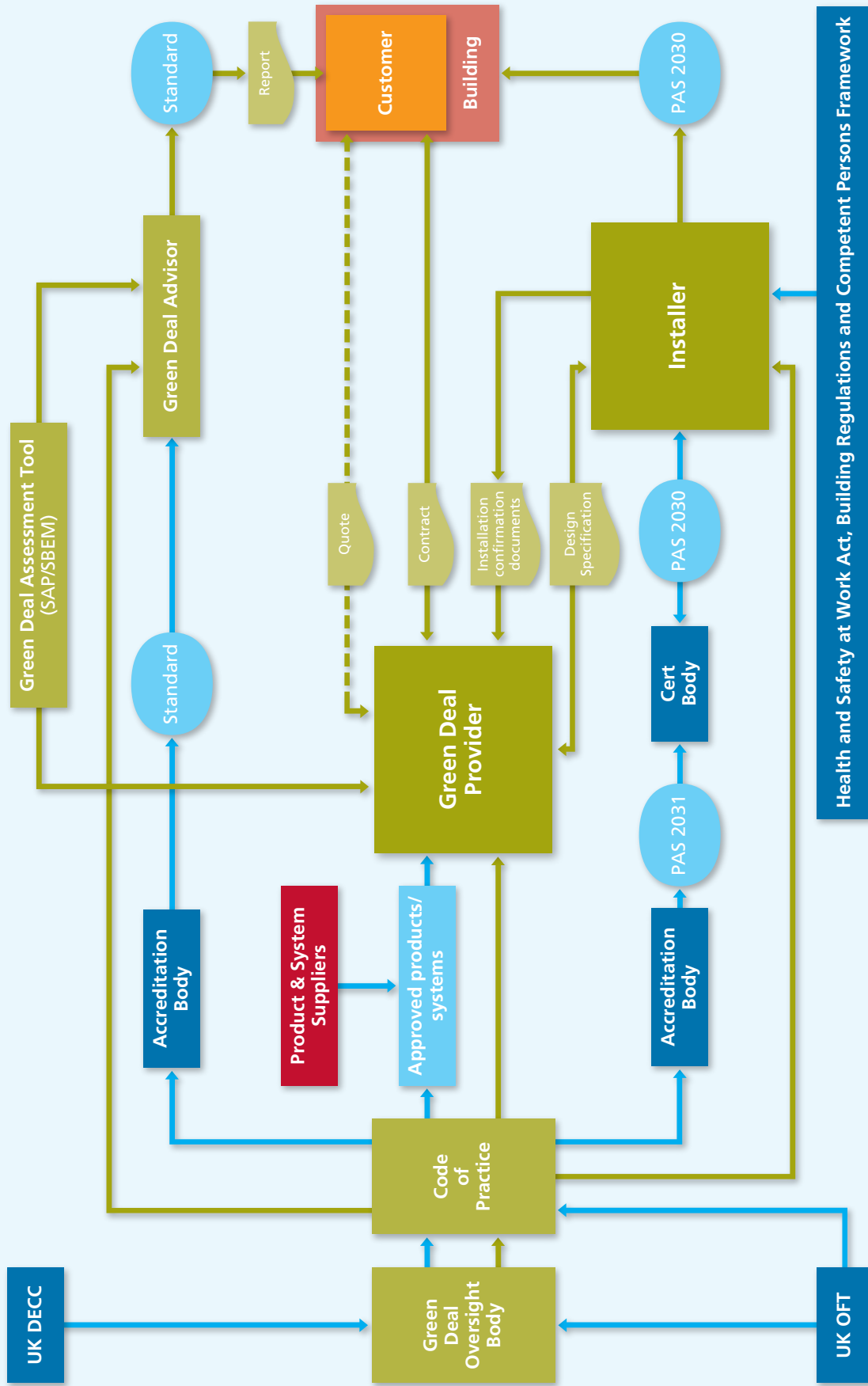
This PAS is primarily intended for the installer of energy efficiency measures, but other parties may also find it useful (e.g. Green Deal Providers).

Each of the energy efficiency measures permitted under the Green Deal is provided for in a measure-specific Annex to this PAS. Compliance with this PAS require that for each installation, the installer has to meet all the requirements of Clauses **1** to **8** of PAS 2030 together with those set out in the Annex relevant to each measure to be installed.

It is expected that the list of permitted measures will continue to change over time and therefore a procedure has been agreed that will facilitate the amendment of the PAS to align with any such changes twice each year (April and October). It is therefore envisaged that PAS 2030 could be published in two editions each calendar year, for the foreseeable future.



Figure 1 – Green Deal overview – Key stakeholder relationships



## 1 Scope

The second edition of this Publicly Available Specification (PAS) continues to set out requirements for the installation of energy efficiency measures (EEM) in existing buildings used for both dwelling and non-dwelling purposes. It is intended for use by any entity undertaking the installation of any products and/or systems designed to improve the energy efficiency of existing buildings but particularly where those products and systems are to be installed within the remit of the United Kingdom Green Deal Financing Mechanism. For those installations funded under the Green Deal this PAS should be read in conjunction with the relevant sections of the Green Deal Code of Practice.

This PAS includes requirements in respect of installation processes, process management and service provision and includes criteria relating to installation methods, equipment, tools, product or system and material suitability, the commissioning of installed measures and the training, skills and competence of the people undertaking such installation.

This PAS is constituted of core requirements to be met by any entity claiming conformance to it, supplemented by Annexes setting out additional requirements for each measure type. This PAS requires claims of conformance to be in respect of the core requirements and all Annexes relevant to the installation to be undertaken by the claiming entity.

Annex A provides detail of the PAS 2030 Annex structure and its relationship to the list of approved measures. This annex also provides cross-reference to the annex references for equivalent measures in edition 1 of this PAS.

Annexes B, C & D provide specific requirements relating to particular energy efficiency measures for application by installers undertaking installation of those measures. These Annexes also include requirements in respect of the provision of information to customers.

This PAS does not include requirements for the technical specification of the energy efficiency measures to be installed.

This PAS no longer includes requirements for the installation of measures for the micro-generation of energy in respect of which the Green Deal Code of Practice requires compliance with the Microgeneration Certification Scheme.

This PAS does not include requirements relating to the certification of PAS 2030 compliance by independent third parties which subject is covered by PAS 2031:2012, developed in conjunction with this PAS.

## 2 Normative references

### Green Deal Code of Practice

*NOTE: The application of this PAS requires users to select measure-specific Annexes that are relevant to the measure to be installed from the range of Annexes provided. Because of this all other normative references are Annex specific. Clause 8 lists all documents that are considered indispensable for the application of particular Annexes.*

