



BSI Standards Publication

# **Certification of energy efficiency measure (EEM) installation in existing buildings**

## **Publishing and copyright information**

The BSI copyright notice displayed in this document indicates when the document was last issued.

© The British Standards Institution 2017

Published by BSI Standards Limited 2017

ISBN 978 0 580 95094 0

ICS 91.120.10, 91.140.10, 03.120.20

*No copying without BSI permission except as permitted by copyright law.*

The following BSI Standards Limited references relate to the work on this standard:  
Committee reference ZZ/2

## **Publication history**

First edition March 2012

Second edition January 2015

Third edition March 2017

## **Amendments issued since publication**

<b>Date</b>	<b>Text affected</b>
-------------	----------------------

---

## Contents

Foreword *ii*

Introduction *iv*

<b>1</b>	Scope	1
<b>2</b>	Normative references	1
<b>3</b>	Terms and definitions	1
<b>4</b>	General requirements	2
<b>4.1</b>	Certification system	2
<b>4.2</b>	Record keeping	2
<b>5</b>	Evaluation requirements	2
<b>5.1</b>	Initial evaluation	2
<b>5.2</b>	Surveillance evaluation	3
<b>5.3</b>	Evaluation of installation process management	8
<b>5.4</b>	Evaluation of customer service capability	8
<b>6</b>	Non-conformity	8
<b>6.1</b>	Types of non-conformity	8
<b>6.2</b>	Action in the event of non-conformity	9
<b>7</b>	Scope and competency of certification bodies	9
<b>8</b>	Claims of conformity	9
<b>8.1</b>	Installer claims of conformity with PAS 2030	9
<b>8.2</b>	Certification body claims of conformity with PAS 2031	9

### List of tables

Table 1 – Inspection rates by tier 4

Table 2 – Measure inspection tier allotment and inspection distribution 5

### Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 10, an inside back cover and a back cover.

## Foreword

The revision of this Publicly Available Specification (PAS) has been facilitated by BSI Standards Limited, and is published under licence from The British Standards Institution. It comes into effect in March 2017.

The revision of this PAS was sponsored by the Department for Business, Energy and Industrial Strategy (BEIS) and undertaken by a group of experts nominated by:

Building Engineering Services Association  
Certsure  
Construction Industry Training Board  
Department for Business, Energy and Industrial Strategy  
Department for Communities and Local Government  
Fensa Limited  
Gemserv  
Mineral Wool Insulation Manufacturers Association  
Ofgem  
PAS 2030 Steering Group (Insulation Measures)  
SummitSkills  
TrustMark  
United Kingdom Accreditation Service

Comments from other parties were also sought by BSI, particularly through the Peer Group Review and Public Comment process which took place during October 2016 with a second review in December 2016/ January 2017. The expert contributions from all the organizations and individuals contributing to the development of this PAS are gratefully acknowledged.

## Publishing information

The British Standards Institution retains ownership and copyright of this PAS. BSI Standards Limited as the publisher of the PAS reserves the right to withdraw or amend this PAS on receipt of authoritative advice that it is appropriate to do so. This PAS will be reviewed at intervals not exceeding two years and any amendments arising from the review will be published as an amended PAS and publicized in Update Standards.

## Relationship with other publications

This PAS has been drafted exclusively for use in association with BSI PAS 2030:2017 *Specification for the installation of energy efficiency measures (EEM) in existing buildings* and is not intended for use in any other connection.

## Use of this document

It has been assumed in the preparation of this PAS that the execution of its provisions will be entrusted to a competent person or persons for whose use it has been produced.

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 standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

*Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.*

**Contractual and legal considerations**

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

**Compliance with a British Standard cannot confer immunity from legal obligations.**

## Introduction

This PAS is applicable to certification bodies that are providing, or intending to provide, conformity evaluation services in respect of PAS 2030, *Specification for the installation of energy efficiency measures (EEM) in existing buildings*.

Certification of any product or service is a means of providing assurance that it complies with specified standards and other normative documents. This PAS specifies requirements, the uniform observance of which is intended to demonstrate that certification bodies operate third-party certification systems in respect of the installation of energy efficiency measures, in a consistent and reliable manner.

This will facilitate the recognition nationwide of a good standard of EEM installation, promoting consumer and business interest and confidence in improving the energy efficiency of UK housing stock, and helping to achieve the UK Government's objectives for reductions in both energy consumption and CO<sub>2</sub> emissions whilst also ensuring that consumers are protected from poor standards of installation.

The requirements contained in this standard are founded on the general requirements provided by BS EN ISO/IEC 17065, *Conformity assessment – Requirements for bodies certifying products, processes and services*. They have been prepared so as to provide additional, specific criteria for organizations providing evaluation services and operating certification systems in relation to PAS 2030.

Installer claims of compliance with PAS 2030 will be in the form specified in Clause 8 of that PAS and where required, Certification Body assertion of conformity to that PAS will be in the form of certificates or marks of conformity authorised and issued by the certification body undertaking the validation process.

# 1 Scope

This PAS establishes the certification system to be followed by Certification Bodies providing evaluation services in respect of installers of EEM in accordance with PAS 2030:2017.

This PAS is not intended for application by EEM installers although an understanding of its requirements may be useful for installers intending to apply for evaluation.

# 2 Normative references

The following referenced documents are indispensable for the application of this PAS. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

**BS EN ISO/IEC 17020**, *Conformity assessment – Requirements for the operation of various types of bodies performing inspection*

**BS EN ISO/IEC 17065**, *Conformity assessment- Requirements for bodies certifying products, processes and services*

**PAS 2030:2017**, *Specification for the installation of energy efficiency measures (EEM) in existing buildings*

# 3 Terms and definitions

For the purposes of this PAS, the terms defined in BS EN ISO/IEC 17065 and PAS 2030:2017 together with those provided in this clause, apply.

## 3.1 audit

systematic, independent, documented process for obtaining records, statements of fact or other relevant information and evaluating them objectively to determine the extent to which specified requirements are fulfilled

*NOTE Based on BS EN ISO/IEC 17000 (4.4).*

## 3.2 certification body

entity providing conformity evaluation services

## 3.3 customer

property owner, landlord and/or tenant of a building at which EEM are being installed

[PAS 2030:2017 3.6]

## 3.4 evaluation

systematic, independent, documented process involving both audit and inspection for confirming that all specified requirements relating to EEM installation processes undertaken by an installer are fulfilled

## 3.5 energy efficiency measure (EEM)

planned work undertaken to improve the energy performance of a building by saving or generating energy

[PAS 2030:2017 3.11]

## 3.6 (at location) inspection

examination of pre-installation building inspection and/ or EEM installation activity at the building in which installation is to be, is being or has been, undertaken, either before, during or after its undertaking. This inspection will be at a level of detail sufficient to assess compliance of the installation with the relevant requirements of PAS 2030:2017, and in conjunction with evaluation of the installation process used