

# BREEAM International Refurbishment and Fit-out 2015



## bre

BRE making a **positive difference** in the built environment since 1921



We use cutting edge **research...** 





Our vision: To make an unmistakeable imprint on a highly regarded built environment Our mission: To build a better world together





...to bring about positive **change** to the built environment.







Our internationally recognised measure of a building's sustainability helps drive sustainable performance and value.

www.breeam.com



#### The business case for Green Buildings

A growing body of evidence that Green Buildings pay



Examples:

- 'Certificated buildings are definitely higher valued and create safer long-term investments' NCC, Norway
- 71% of investors would accept higher costs for sustainable real estate.
- Rents are 21% higher and transactions are 18% higher
- 46 mins more sleep per night on average for office workers with windows

#### **Business case for Green buildings**

Environmental

Social

**Reduced CO<sub>2</sub>** 

Less waste

Lower water consumption

Reduced pollution (air, water, land)

Improves biodiversity

**Resource efficiency** 

**Occupant health Occupant satisfaction** Air quality Thermal comfort Visual quality (light) **Acoustics** Access **Responsible / ethical** sourcing **Economic prosperity** 

#### Economic

Lower risk for investment (resilience) Increased return on investment **Higher value** Lower running costs Reduced sick leave **Resource efficiency** Better retention of staff and tenants Staff productivity Reputation

#### BREEAM

- Driving sustainability in real estate
- Independent, third party certification, based on sound science
- Communities, Infrastructure, New Buildings, Refurbishment, Fit-out and Existing Assets





#### **BREEAM International Refurbishment and Fit-out**

- Draft scheme published 10<sup>th</sup> March 2015
- Live for assessments in May
- Based on UK version, adapted for international/local standards and conditions
- E.g. precipitation zones,

climatic zones, regulations





World map of BREEAM precipitation zones

### **Piloting**

 Identifying opportunities and limitations in refurbishing existing buildings







#### Structure

- Modular structure
- Clients can gain certification against the parts relevant to their scope of work
- Provides flexibility
- Provides
  comparability across
  the property market



#### How it works:

- The online assessment tool will filter the applicable criteria automatically based upon rules set out in the technical manual
  - The criteria not applicable to an assessment part are filtered out from the assessment
- The separate parts combine to provide a single score and rating e.g. a parts 2 & 3 assessment with an 'Excellent' rating
- All assessments are capable of achieving a rating from 'Pass' to 'Outstanding' to recognise the performance of that project



Interim Certificate - Design The is to certify that Greenstores Warehouse 75 Eco Street London N5 181	
has been assessed to BREEAM Refurbishment and Fit-O industrial by a learned assessor for Greenstores UK Ltd and has achieved a score of #7%	hut 2014:
Outstanding	
the building has a 'Green Lasse' agreement in place Parts Assessed:	Smith & Sons assessing Ltd
Part 1: Base Build - Structure & Fabric Outside of scope Part 2: Base Build - Core Services Dutise of scope Part 8: FIF-OUT - Local Services Assessed Part 4: FIF-OUT - Interior Design Assessed	Jon Smith Trained Rasses JS99 Konser kenter EcoDespress Ltd Conser a two Smith & Son's Assessing Ltd
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Shell

Fit-out

Part 2

Part

1

## Fabric and Structure: external envelope including walls, roof, windows & floor

**Core Services:** centralised M&E plant including heating, cooling & ventilation

Part

3

**Local Services:** localised services including lighting, local heating, cooling & ventilation

Part 4

Interior Design: Interior Finishes, Furniture, Fittings & Equipment

#### Part 1 Fabric and structure

- Covers external fabric of the building
- Key issues include:
  - o Daylighting
  - Energy performance
  - Passive design
  - Acoustics
  - Flood resilience
  - Materials and waste
  - Durability and adaptability



#### Part 2 Core services

- Covers core building services plant e.g. central boiler, AHU's
- Key issues include:
  - Overall project management e.g. commissioning
  - Energy performance
  - Pollution issues e.g. GWP of refrigerants, NOx emissions etc.
  - Health issues e.g. indoor air quality, ventilation rates, thermal comfort
  - Resilience and adaptability



#### **Part 3 Local services**

- Covers local building services e.g. local cooling, heating, ventilation and lighting (as relevant) e.g.
  - Lighting efficiency & controls
  - Local metering of services
  - Other issues as applicable to core services but tuned to be more applicable to local services



#### **Part 4 Interior Design**

- Main focus on management, health, waste, materials including:
  - Overall project management
  - Measures to design out waste
  - Impact of work on health & wellbeing e.g. VOCs, thermal comfort
  - Use of sustainable materials e.g. LCA of products
  - Low use water fittings (where within scope of refurbishment zone)



## BREEAM<sup>®</sup> UK

#### **Register and assess on www.breeam.com/projects**



#### Getting Started with BREEAM Projects - BETA

#### WELCOME

Welcome to BREEAM projects, the one stop shop for assessing and certifying your project against BREEAM.

If you're a RREEAM assessor you can use Already registered? Log in her

REGISTER FOR YOUR FREE ACCOUNT

#### WHAT YOU GET

Signing up will give you access to the information and tools you need to apply BREEAM to your project. You'll get access to performance data from certified projects to help communicate strategies, an area where you can create and





#### Understand

- Based on UK scheme, see here:
  www.breeam.com/ndrefurb
- Draft International version will be available here:

http://www.breeam.com/resources



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#### **Create a pre-assessment**

BREEAM®UK	BREEAM UK Refurbishment & Fit-out 2014 - Pre-assessment	bre
Pre-assessment details Issues	Reports	
	Pre-assessment : test1 (test1)	
Pre-assessment details	Initial Details	
Initial Details	Stage 1 filtering: Scope of the assessment	
Issues	Part 1 : Fabric and structure Yes V	
Management	Part 2 : Core services	
Health & Wellbeing	Part 3 : Local services	
Energy		
Transport	Yes ▼	



#### Explore BREEAM data: <a href="https://www.breeam.com/projects/explore">www.breeam.com/projects/explore</a>

### Explore BREEAM

EXPLORE THE DATA BEHIND BREEAM PROJECTS

Explore Listings Maps Data Lab Explore 4225,000+ Certificates 1,900,000+ Registered Buildings 60+

# New paper: Sustainable refurbishment of heritage buildings

**Key finding:** Heritage buildings tend to out-perform standard refurbishment projects and almost perform as well as new build projects!

- Outlines the common challenges and solutions for heritage buildings in achieving high BREEAM ratings
- Includes example solutions from case study buildings

### BREEAM®

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#### **Briefing Paper**

Sustainable Refurbishment of Heritage Buildings – Can BREEAM help to deliver it?

Kiruthiga Balson, Gavin Summerson and Steven Stenlund



## **Benefits of BREEAM Refurbishment and Fit-out**

- Flexible whilst being transparent about your scope of works
- Can be used for all building types (including mixed new build/refurb)
- Provides comparability between projects
- Empathetic with historic buildings e.g. grade 1, 2, 2\* listed buildings
- Assists with Corporate Social Responsibility (CSR) obligations

## **Benefits of BREEAM Refurbishment and Fit-out**

- Get ahead of your competition & showcase industry best practice
- Save operating costs and reduce risk
- Minimise water use, CO<sub>2</sub> emissions and waste
- Enhance occupant comfort and increase productivity



## Thank you.

## www.breeam.com/ndrefurb www.breeam.com/projects



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