

breglobal BREEAM Gulf

BREEAM Gulf

This presentation aims to give the reader a general overview of the operational and technical aspects of the BREEAM Gulf

Scheme specifically.





Key objectives of BREEAM Gulf

- To assess the most common building types in the region using one scheme
 - One common generic manual
 - Same assessment methodology for all buildings
 - Mandatory Credits
- Comparison against national baseline
 - Measure the improvement compared to the national Building Regulations/Guidelines
 - Use of national best practice standards
 - The option to propose the use of other more onerous local codes and standards



Key factors taken into account to "tune" BREEAM to suit the region

- Climate
- Ecology
- Construction materials
- Culture
- Construction practices
- Building Regulations
- Infrastructure
- Historical context
- Political decisions
- Geography…

Scope of the BREEAM Gulf Scheme



BREEAM Gulf

For the purposes of BREEAM, the Gulf is defined as follows;

- United Arab Emirates
- Oman
- Qatar
- Bahrain
- Saudi Arabia
- Kuwait

For other countries please contact the BREEAM office



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Stages of Assessment

Design Stage

Post Construction Stage

•Operational Stage (BREEAM in Use in development for projects outside the UK)

Types of buildings which can be assessed under the BREEAM Gulf Scheme

- Whole new buildings
- Major refurbishments of existing buildings
- New build extensions to existing buildings
- A combination of new build and existing building refurbishment
- New builds or refurbishments which are part of a larger mixed use development
- Existing building fit out

(for further information regarding the function areas of buildings falling under each scheme, please look at the scope of the schemes document on the BREEAM international website)

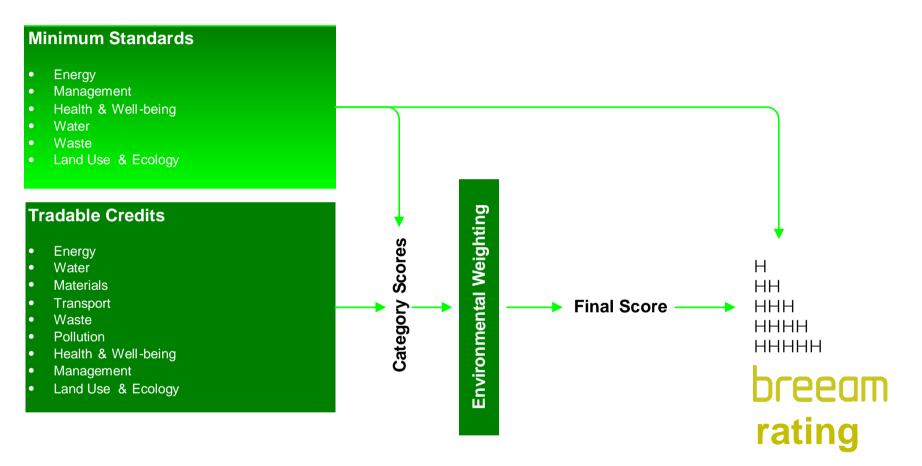


Scoring and Rating



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BREEAM Gulf Scoring process





BREEAM Gulf Environmental Section Weightings

	Weighting %		
BREEAM Section	New builds, extensions and major refurbishments		
Management	8		
Health & Wellbeing	15		
Energy	14		
Transport	5		
Water	30		
Materials	9		
Waste	5		
Land Use & Ecology	7		
Pollution	7		



Minimum standards

	BREEAM Rating / Minimum number of credits				
BREEAM credit	One Star	Two Stars	Three Stars	Four Stars	Five Stars
Man 1 - Commissioning	-	-	-	1	2
Man 3 - Construction site impacts	-	-	-	1	2
Man 4 - Building user guide	-	1	1	1	1
Hea 4 - High frequency lighting	1	1	1	1	1
Ene 1 - Energy Efficiency	-	-	-	6	10
Ene 2 - Sub-metering of substantial energy uses	-	-	1	1	1
Ene 5 - Low or zero carbon technologies	-	-	-	1	1
Wat 1 - Water consumption	-	-	1	1	2
Wat 2 - Water meter	-	-	-	1	1
Wst 3 - Storage of recyclable waste	-	-	-	1	1
LE 4 - Impact on site ecology	-	-	ŀ	2	2
Pol 9 – Refrigerant ODP	-	-	1	1	1

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BREEAM Gulf Rating Benchmarks

BREEAM Rating	% Score
Unclassified	< 30% plus minimum standards
Н	≥ 30% plus minimum standards
НН	≥ 45% plus minimum standards
ННН	≥ 55% plus minimum standards
НННН	≥ 70% plus minimum standards
НННН ¹	≥ 85% plus minimum standards

¹BREEAM 5 Star Rating

The following conditions must be met in order to certify a building at the BREEAM 5 Star rating level:

- The building must achieve a final BREEAM Score ≥85%
- Provision of material for the production and publication of a case study



BREEAM Gulf Assessment Tool

BREEAM International: Gulf	Building Areas and Associated Features Please select from the options below the building areas, functions and features that are part of the development that is being assessed, and then press next.			
Assessment Profile	Building Areas			
Please select at least one option from each category and press 'Next':	Reception / Foyer	Laboratories	Sports Facilities	
Stage of assessment	C Offices	🔽 Food Retail Space	Changing Rooms	
Design & Procurement (new builds & major refurbishment)	Meeting Rooms	🔲 General Retail Space	Creche	
C Post Construction Review	Kitchen	🔽 Library	Exhibition Space	
Building size band	🔽 Dining / Bar Areas	🔽 Industrial / Workshops	Residential	
C Less than 500 sq.m	☑ Integral Cold Storage (Food)	🔲 Auditoria / Performance Spaces	Hotel Bedrooms	
	☑ Integral Cold Storage (Non-Food)	Teaching Rooms	C Ancillary	
Heating, Ventilation or Air Conditioning (HVAC) services are fitted out?	Associated Features			
	Carpark (internal or external)	🔽 Lifts	🔲 External surfaces/hard landscaping	
<< Back Defintions Next >>	✓ Delivery yard (internal or external) ✓ Waste disposal area	 Escalators and/or travelling walkways Vehicle wash 	☐ Soft landscaping and planting (internal or external)	
	<< Back	Defintions	Next >>	

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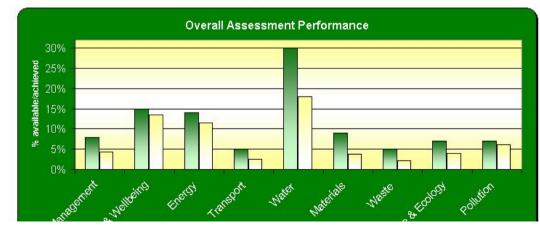
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Assessment Tool

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BREEAM International:Gulf

BREEAM Rating:			***			
Section	Env Weighting	Percentage section credits achieved	Overall Weighted Percentage	Mandatory Credits Achieved	BREEAM Rating System	
Management	8%	54.55%	4.36%	YES		Mandatory credits not achieve
Health & Wellbeing	15%	89.71%	13.46%	YES	*	≥30 - <45
Energy	14%	82.77%	11.59%	YES	**	≥45 - <55
Transport	5%	50.00%	2.50%	YES	***	≥55 - <70
Water	30%	60.00%	18.00%	YES	****	≥70 - <85
Materials	9%	41.67%	3.75%	. 	*****	≥85
Waste	5%	42.86%	2.14%			
Land Use & Ecology	7%	55.56%	3.89%	YES		
Pollution	7%	87.50%	6.13%	YES		
		Total Score >>	65.81%			



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BREEAM Gulf Technical Sections



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BREEAM is split into the following categories:

- Management
- Health and Wellbeing
- Energy
- Transport
- Water
- Materials
- Waste
- Land use and Ecology
- Pollution





Examples of issues assessed under the Management section

- Man 1 Commissioning
- Man 2 Considerate constructors
- Man 3 Construction site impacts
- Man 4 Building user guide
- Man 12 Life cycle costing



Examples of issues assessed under the Health & Wellbeing section

- Hea 1 Daylighting
- Hea 2 View out
- Hea 3 Glare control
- Hea 4 High frequency lighting
- Hea 5 Internal and external lighting levels
- Hea 6 Lighting zones and controls
- Hea 7 Potential for natural ventilation
- Hea 8 Indoor air quality
- Hea 9 Volatile organic compounds
- Hea 10 Thermal comfort
- Hea 11 Thermal zoning
- Hea 12 Microbial contamination
- Hea 13 Acoustic performance
- **Hea 14** Office space (issue not assessed in the offices scheme)



Examples of issues assessed under the Energy section

- Ene 1 Reduction of CO2 emissions
- Ene 2 Sub-metering of substantial energy uses
- Ene 3 Sub metering of high energy load and tenancy areas
- Ene 4 External lighting
- Ene 5 Low or zero carbon technologies
- Ene 6 Building fabric performance & avoidance of air infiltration
- Ene 7 Cold storage
- Ene 8 Lifts
- Ene 9 Escalators & travelling walkways



Examples of issues assessed under the Transport section

- Tra 1 Provision of public transport
- **Tra 2** Proximity to amenities
- Tra 3 Cyclist facilities
- Tra 4 Pedestrian and cyclist safety
- Tra 5 Travel plan
- **Tra 6** Maximum car parking capacity
- Tra 7 Travel information point
- Tra 8 Deliveries and manoeuvring



Examples of issues assessed under the Water section

- Wat 1 Water consumption
- Wat 2 Water Meter
- Wat 3 Major leak detection
- Wat 4 Sanitary supply shut-off
- Wat 5 Water recycling
- Wat 6 Irrigation systems
- Wat 7 Vehicle wash



Examples of issues assessed under the Materials section

- Mat 1 Materials specification (major building elements)
- Mat 2 Hard landscaping and boundary protection
- Mat 3 Reuse of building façade
- Mat 4 Reuse of building structure
- Mat 5 Responsible sourcing of materials
- Mat 6 Insulation
- Mat 7 Designing for robustness



Examples of issues assessed under the Waste section

- Wst 1 Construction Site Waste Management
- Wst 2 Recycled aggregates
- Wst 3 Recyclable waste storage
- Wst 4 Compactor / Baler
- Wst 5 Composting
- Wst 6 Floor finishes



Examples of issues assessed under the Land Use and Ecology section

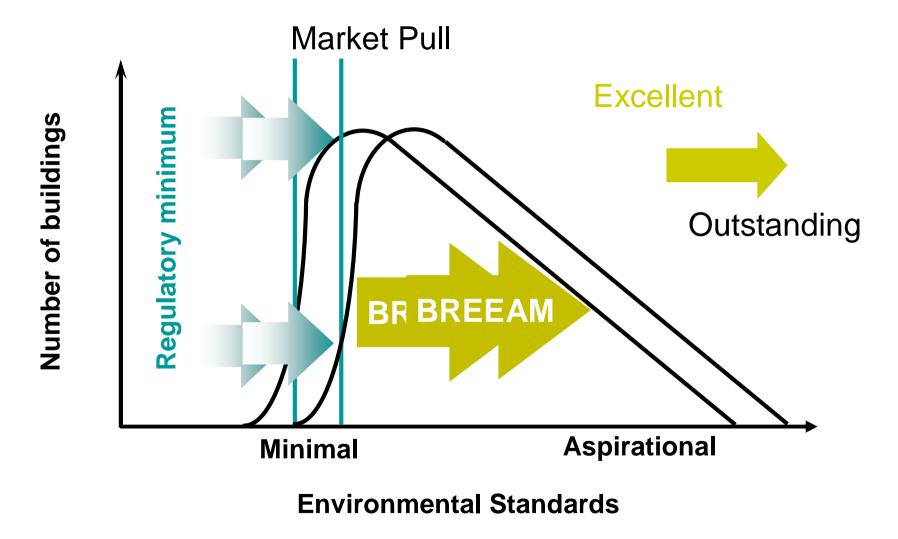
- Lue 1 Reuse of land
- Lue 2 Contaminated land
- Lue 3 Ecological value of site AND Protection of ecological features
- Lue 4 Impact on site ecology
- Lue 6 Long term impact on biodiversity

Examples of issues assessed under the Pollution section

- **Pol 1** Refrigerant GWP Building services
- **Pol 2** Preventing refrigerant leaks
- **Pol 3** Refrigerant GWP Cold storage
- Pol 4 NOx emissions from heating source
- Pol 5 Flood risk
- **Pol 6** Minimising watercourse pollution
- **Pol 7** Reduction of night time light pollution
- Pol 8 Noise attenuation



Setting the standard





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