

PRODUCT VERIFICATION – BREEAM

COMPANY

Schüco International KG
Karolinenstraße 1-15
33609 Bielefeld
Germany

PRODUCT SYSTEM

Schüco Aluminium Door Systems (ADS)

GREEN BUILDING CERTIFICATION SYSTEM

BREEAM International New Construction
SD5075 – 1.0:2013, Issue date 09.04.2014



A handwritten signature in blue ink, appearing to be "P. Mösle".

Peter Mösle
Managing Director Drees & Sommer

A handwritten signature in blue ink, appearing to be "Thomas Haun".

Thomas Haun
BREEAM Assessor

1st January 2016

Date

GREEN BUILDING CERTIFICATION SYSTEM

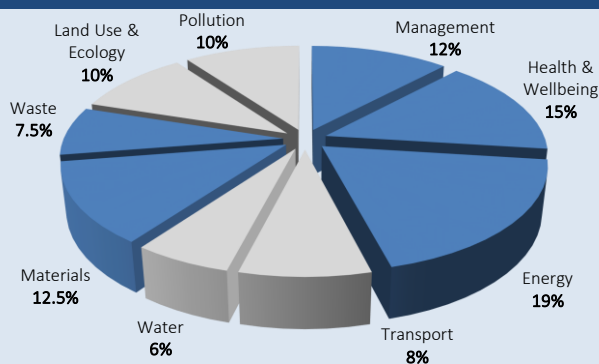
BREEAM is an internationally recognised measure and mark of a building’s sustainable qualities. Since its launch in 1990, BREEAM has certified over a half of a million buildings and is now active in more than 70 countries around the world. Wherever they are, these buildings are immediately identifiable as having been planned, designed, constructed and operated in accordance with best practice sustainability principles. Credits can be achieved in 9 categories of the system with the possibility to earn innovation credits. During a building certification the ratings on a scale of ‘Pass’, ‘Good’, ‘Very Good’, ‘Excellent’ and ‘Outstanding’ can be achieved.

BREEAM is managed and continually developed by BRE Global and supported in certain countries by a number of National Scheme Operators (NSOs). NSO's are independent organisations who develop and own country specific ‘local’ schemes that are affiliated to BREEAM¹.

¹ cf. BREEAM International New Construction; Technical Manual

CERTIFICATION SYSTEM AND CATEGORIES

Category Weighting



Category

Product Influence to Category

Criteria Influence to Category

Criteria Influence to System

| Category | Product Influence to Category | Criteria Influence to Category | Criteria Influence to System |
|-----------------------------|-------------------------------|--------------------------------|------------------------------|
| Management | Yes | 52.2% | 6.3% |
| Health and Wellbeing | Yes | 35.6% | 5.3% |
| Energy | Yes | 46.9% | 8.9% |
| Transport | No | - | - |
| Water | No | - | - |
| Materials | Yes | 81.8% | 10.2% |
| Waste | Yes | 50.0% | 3.8% |
| Land Use & Ecology | No | - | - |
| Pollution | No | - | - |

PRODUCT VERIFICATION

Aim of the verification is to illustrate how the use of **Schüco Aluminium Door Systems** can influence the criteria of the BREEAM certification system in a positive way. The **Schüco Aluminium Door System** meets the set requirements of the relevant topics of the certification system, thus adding value to the certification process.

In principle the BREEAM System certifies only the total performance of a building and not products. Therefore, Door Systems can achieve a total credit only in combination with several trades.

To achieve a BREEAM criteria fulfillment a wide range of technical data is necessary. Additionally to this product verification, evidences can be provided by the producer. For this purposes the Window, Façade, Door, Fire and Smoke Protection System related **BREEAM Guide** of **Schüco International KG** provides an overview.

AUTHOR

Drees & Sommer has been working on topics related to sustainable buildings for over ten years. The company employs, among others, LEED Accredited Professionals, Licensed BREEAM Assessors and Auditors for the German Sustainable Building Council (DGNB). In addition, Drees & Sommer has Auditors for certification processes for urban neighborhoods and existing buildings, and for other less well-known certification systems on the market.

PRODUCT EVALUATION

| Category | Criteria | Criteria Title | Max. Credits | Kriterieneinfluss in der Kategorie | Criteria Influence to System | Product Verification |
|--|----------|---|--------------|------------------------------------|------------------------------|----------------------|
| MANAGEMENT | Man 01 | Sustainable procurement | 9 | 39.13% | 4.70% | ✓ |
| | Man 05 | Life cycle cost & service life planning | 3 | 13.04% | 1.57% | ✓ |
| HEALTH AND WELLBEING | Hea 03 | Thermal comfort | 2 | 13.33% | 2.00% | ✓ |
| | Hea 05 a | Acoustic performance (non residential) | 2 | 13.33% | 2.00% | ✓ |
| | Hea 05 b | Acoustic performance (residential) | 4 | 22.22% | 3.33% | ✓ |
| ENERGY | Ene 01 | Energy efficiency | 15 | 46.88% | 8.91% | ✓ |
| MATERIALS | Mat 01 | Life cycle impacts | 6 | 54.55% | 6.82% | ✓ |
| | Mat 03 | Responsible sourcing of materials | 3 | 27.27% | 3.41% | ✓ |
| WASTE | Wst 01 | Construction waste management | 3 | 50.00% | 3.75% | ✓ |
| TOTAL DEGREE OF FULFILLMENT NON RESIDENTIAL BUILDINGS | | | 43 | | 33.14% | |
| TOTAL DEGREE OF FULFILLMENT RESIDENTIAL BUILDINGS | | | 45 | | 34.48% | |

LEGEND VERIFIED 

EXPLANATION

| | |
|---|---|
| <p>Max. Credits Maximum reachable points within the evaluation of criterion</p> <p>Criteria Influence to Category The influence of criteria in its category</p> | <p>Criteria Influence to System This value specifies the percentage of fulfillment (whole system)</p> <p>Total Degree of Fulfillment Those Criteria, where a product influence of Schüco Door System is present, up to 33.14% can be achieved within the assessment of residential and 34.48% within the assessment of non residential buildings (whole system)</p> |
|---|---|

DISCLAIMER

Aim of the verification is to illustrate how the use of Schüco Aluminium Door Systems can influence the criteria of the BREEAM certification system in a positive way. In principle the BREEAM System certifies only the total performance of a building and not products. To achieve a BREEAM criteria fulfillment a wide range of technical data is necessary. The project team (e.g. design team or Assessor) is responsible to declare the compliance with respect to the BREEAM criteria. This document does not contain any detailed information whether the Schüco product system meets the requirements of the listed criteria. Within this verification the background of a BREEAM certification evidence or a third party declaration is not intended. During a building certification process the project team has the responsibility to declare the relevant product features by using specific and suitable evidences. For this purposes the Window, Façade, Door, Fire and Smoke Protection System related BREEAM Guide of Schüco International KG provides an overview.

Notice

This verification is a product of Schüco International KG. The distribution or publication by third parties is not permitted. The data sheet is not a BREEAM certification document. The information is based on manufacturer's specifications. Despite a diligent treatment of all information Schüco International KG can not make any warranties about the completeness, reliability and accuracy of this information. The requirements of BREEAM can be interpreted differently and depend on the project and scope of application. Therefore, Schüco International KG cannot accept any liability for the evaluation in terms of the BREEAM criteria. The user of this product verification, the user / purchaser of the product and the consultant / planner, who is advising on this product has the duty to check the product for the intended application at their own responsibility. If a new version of product verification is produced, the previous version loses its validity.

