

## BREEAM STATEMENT

BREEAM sets the standard for the best practice in sustainable building design, construction and operation and has become one of the most comprehensive and widely recognised measures of a building's environmental performance.

A BREEAM assessment uses recognised measures of performance, which are set against established benchmarks, to evaluate a building's specification, design, construction and use. The measures used represent a board range of categories and criteria from energy to ecology.

BREEAM addresses wide-ranging environmental and sustainability issues and enables developers, designers and building managers to demonstrate the environmental credentials of their buildings to clients, planners and other parties. BREEAM uses a straight forward scoring system that is transparent, flexible, easy to understand and supported by evidence-based science and research.

HOISTWAY have worked on many BREEAM compliant buildings and gained a wealth of knowledge on what is required for you to gain maximum BREEAM credits from your lifts. It is important to understand what is required by BREEAM to comply and therefore qualify for the credits available for lifts.

Firstly, please note that BREEAM credits are not applicable to Disable Access Platform Lifts or any lift / elevator that complies with the European Machinery Directive 2006/42/EC and the Lift Directive EN81-41.

The BREEAM scoring system works by awarding credits to the building for different energy efficient aspects of the building. Once all credits are accumulated, the total will then offer a rating for that building. Under the lift section of BREEAM, up to two credits are available, where evidence provided demonstrates the installation of energy efficient lifts. These two credits are split and issued on evidence being submitted as follows;

### CREDIT 1:

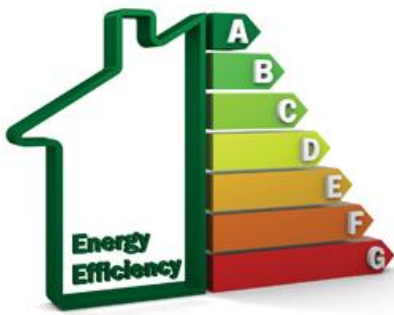
1. *"An analysis of transport demand and patterns for the building has been carried out by the design team to determine the optimum number and size of lifts and counterbalancing ratio on the basis of anticipated passenger demand."*

In most cases these days, there is a lift specification issued at tender stage, which will for the evidence of the above. To form this specification, the lift consultant company should carry out the traffic analysis required to determine the speed, size and number of lifts required.

2. *"The energy consumption of at least two types of lift or lift strategy, "fit for purpose", has been estimated and the system with the lowest energy consumption specified."*

Further to Item 1, the consultant should also have carried out a product comparison, on at least two systems, to determine the type of lift drive that would offer the most energy efficient solution for the specific building. Both these systems should be capable of handling the passenger demand that has been calculated by the traffic analysis performed as part of Item 1.

So, where the project has a lift specification, the evidence for credit 1 will be produced by the lift consultant and not the lift company. If you have a project that has BREEAM requirements but does not have a consultant involved, please feel free to contract HOISTWAY and we'll be happy to carry out this analysis for you and specify your lift requirements.



CREDIT 2:

3. *The first Credit must be achieved.*

Credit 2 will not be achieved, without the correct evidence required to achieve Credit 1.

4. *Of the following energy efficient features, the three that offer the greatest potential energy saving are specified.*
  - The lift operates in a stand-by mode during off peak and idle periods. For example, the power side of the controller and other auxiliary equipment such as car lighting and ventilation switch off when the lift is not in motion.*
  - Where lift motors use a drive controller capable of variable speed, variable voltage control of the drive motor.*
  - The lift has a regenerative unit, so that energy generated by the lift (due to running up empty and down full) is returned back to the grid or used elsewhere on site.*
  - The lift car uses energy efficient lighting and display lighting (>60 Lumens/watt or fittings that consume less than 5W e.g. LED's).*

HOISTWAY have developed a range of lift products that have items a, b & d as standard and thus will always comply. There is the rare occasion in high rise, multi occupancy buildings where item c, may well prove to have worth above that of one of the other items. However, this can be determined at the time of tender and would not mean that we remove one of the other features, we would just add the regenerative drive to the lift.

HOISTWAY can offer solutions for low rise buildings in both MRL traction and MRL Hydraulic lifts and for high rise in both MRL and traditional top drive systems. Please contact a member of our experienced sales team to discuss your needs in more detail.

Signed:

Name: Chris Miller

Position: Technical Sales Director