



CONSULTING ENGINEERS

# BREVe2

## How can we help?

- Expert advice
- Desk studies
- Wind tunnel testing
- Failure investigation
- Software design
- Training / Seminars

We're on the web  
[www.rwdi-anemos.com](http://www.rwdi-anemos.com)

*"...BREVe2 gives the user full site control and reporting in a stand-alone program..."*

### What BREVe2 does

BREVe2 automates the design wind speed methods in British Standard BS6399 Loading for buildings, Part 2. Code of practice for wind loads, 1997 for any site in Great Britain (excludes Northern Ireland).

BREVe2 reports design wind speed and dynamic pressure from both the Standard and Directional methods of the BS, the hybrid method of BRE Digest 436 (as recommended by DETR) and the full method of the "Designer's Guide to Wind Loading", from which the BS was derived. BREVe2 also reports the mean wind speed and turbulence intensity for use in dynamic design methods.

BREVe2 gives the user full site control and reporting in a stand-alone program. Alternatively, the full functionality of BREVe2 can be integrated directly into other applications, including Microsoft Word documents or Excel spreadsheets, using the BREVe2 ActiveX component.

### How BREVe2 does it

From just the National Grid reference of the site, BREVe2 determines the site parameters automatically from extensive databases of ground roughness, altitude and topographic slope to a resolution of 1km for sites in the UK (excluding Northern Ireland). The Automatic Wizard adjusts the site exposure and topography to give the optimum safe results within each 1km grid square without any need for the user to enter data. Alternatively, the Manual Wizard offers a series of standard choices to obtain only such additional information as is needed about the site to refine the site location to 100m resolution. The safe choice used by the Automatic Wizard is always pre-selected



(see figure over the page). The Site Editor allows all the site parameters to be adjusted individually and parameters for sites outside the UK to be entered by hand.

### Key improvements over Version 1

BREVe2 uses the BRE database of roughness categories from the "Designer's Guide", but the rules for significant roughness changes have been upgraded to comply with BRE Digest 436.

Automation has been improved by a new Ordnance Survey database of maximum slope in each 1km square that allows BREVe2 to define conservative topography for that 1km square, irrespective of direction. The user may refine this by entering the directional topographic parameters using the Site Editor.

BREVe2 now gives a low-cost option of safe, automatic results to 1km resolution only.

The new "engine" of BREVe2 is an ActiveX component. This component can be integrated into any compatible software, including spreadsheets such as Excel. This allows the user to integrate BREVe2 into customized applications. RWDI-Anemos have done this for clients with applications for roof tile fixing, timber frame specification and conservatory design.

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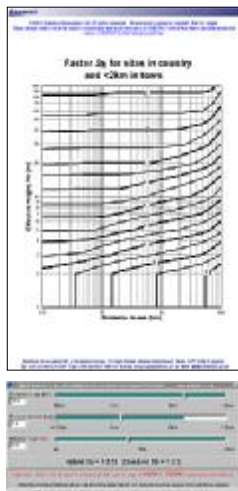


BREVe2 should be used in conjunction with a current copy of British Standard BS 6399 Part 2. BREVe2 must be registered before it may be used in design



Screen shots from BREVe2

*“...full access for a trial period of 5 days free of charge...”*



Other free BS6399 design aids from [www.rwdi-anemos.com](http://www.rwdi-anemos.com)

**Instructions and support**

BREVe2 comes with an on-line context-sensitive Help system covering the BREVe2 application and the Active X component.

Support for BREVe2 is provided through a telephone help-line free of charge. However, we reserve the right to charge an agreed consultancy rate for any additional support and advice that is not directly connected with the operation of BREVe2.

**System requirements**

BREVe2 requires 32-bit Windows ME, 2000, NT, XP or Vista. The Help system requires the standard Windows HTML Help API. Installation and registration must be done by a system Administrator, after which BREVe2 can be operated by any User.

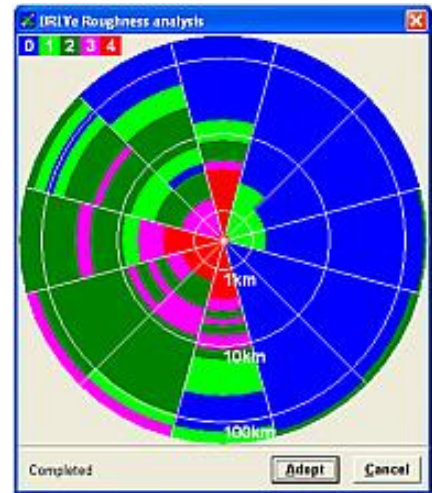
**Licensing**

The previous licence contract with Ordnance Survey allowed BREVe2 to be sold with a perpetual transferable licence. OS no longer permits this and BREVe2 is now provided with a single-PC non-transferable licence for a period of one year or 1000 accesses to the Ordnance Survey database, after which the licence must be renewed. Separate access-limited licences are also available for individual BREVe-enabled applications and, depending on the application, may require separate registration or may be registered automatically.

NOTE also that BREVe2 currently does not cover Northern or Southern Ireland. This is because it has not been possible to secure a suitable licence agreement with OSI or OSNI.

**Updates**

Although we are not obliged to update BREVe2, our policy is to correct any defects and include any amendments to BS 6399-2.



BREVe2 analysis of terrain roughness

Updates are supplied through Internet download. We reserve the right to change the fee structure for any update that extends the functionality of BREVe2, or is required as a result of a revision of BS6399-2:1997.

The current version (2.2) implements the new annual licence method without any change of function from the previous (perpetual) version (2.0). There is no need to update from 2.0 at this time.

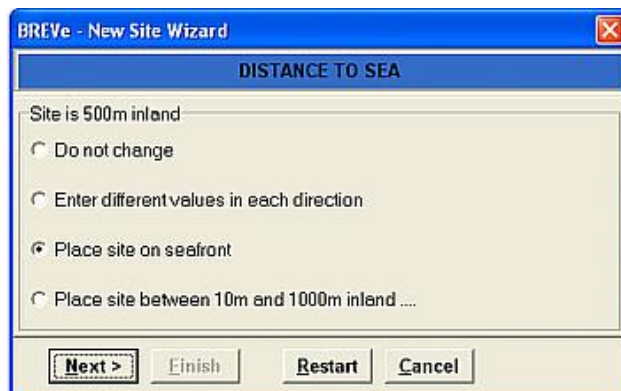
The next version (2.3) will improve the automated topography assessment and implement the Eurocode BS EN 1991-1-4 (UK) method.

**Free restricted-access trial period**

You may download BREVe2 from

<http://www.rwdi-anemos.com>

And install to give full access to the automated site roughness analysis and reporting for a trial period of 7 days, but the automated topography analysis will be disabled. You must register and pay the appropriate fee to use BREVe2 for design and to get full access.



Manual Wizard - with automatic selection of safest option