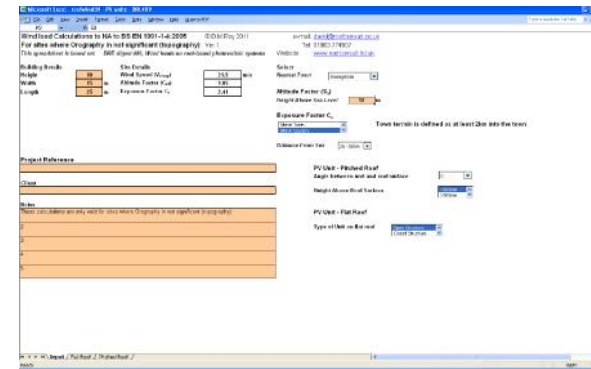


## RoofwindEN

RoofwindEN is a spreadsheet for calculations to the UK National Annex to Eurocode 1 – Actions on structures Part 1-4: General actions – Wind actions, where the orography (topography) is not significant.

BRE digest DG 436-1 Determining wind actions using Eurocode 1Part 1: Guidance on the use of BS EN 1991-1-4 States:

*The simplest and most conservative approach is to calculate a single value of peak velocity pressure irrespective of wind direction. In this approach,  $c_{dir}$  is taken as 1.0 for all wind directions and the closest distance to the shore in any direction is taken. This approach will be the most conservative choice and if the structure can be justified using this approach then no further calculation is necessary.*



RoofwindEN takes this approach, just select the nearest town from a drop down list, enter the height above sea level and distance from the sea (available from Google Earth) and click onto the type of roof to view the results.

Versions are available to calculate wind loads for:

- Roof-based photovoltaic systems
- Single ply fixings
- Composite panel fixings
- Spacer bar bracket centres
- Inverted roof loadings

These aids have been developed to help with the use the standard, and are only offered as such. Roofconsult Limited accepts no liability or responsibility whatsoever for any loss or damage suffered by any user of these spreadsheets.

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