



VELVENTI RELEASE NOTES



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Release Notes

Thank you for upgrading to the latest version of CADS VelVenti.
These release notes summarise the enhancements and corrections made.

Version 2.0 (Build 119): July 2018

Enhancements:

1. Automatic determination of snow load at sites based in the UK and Ireland.



2. Automatic assessment of site terrain. If the site is in town, then the distance inside town is automatically assessed in different wind directions. In addition, the terrain category of sites at the edge of town is reported as: Country (Edge-of-Town).

Corrections made:

1. Better estimate of the distance to sea between wind sectors. Any inland water whose length in the wind sector direction is less than 1 km is not considered as sea.

Version 1.01 (Build 91): November 2017

Enhancements:

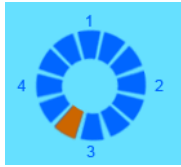
1. Branding and icons have been updated.

Version 1.0 (Build 90): October 2016

Enhancements:

1. Major improvement to automatic assessment of site topography.

2. Customised topography graph with options to display different ground profiles: base, extended, or all points.
3. Wind direction indicator in the topography idealisation.
4. Graphical selection of wind sector by clicking on the selected wind sector graphics.



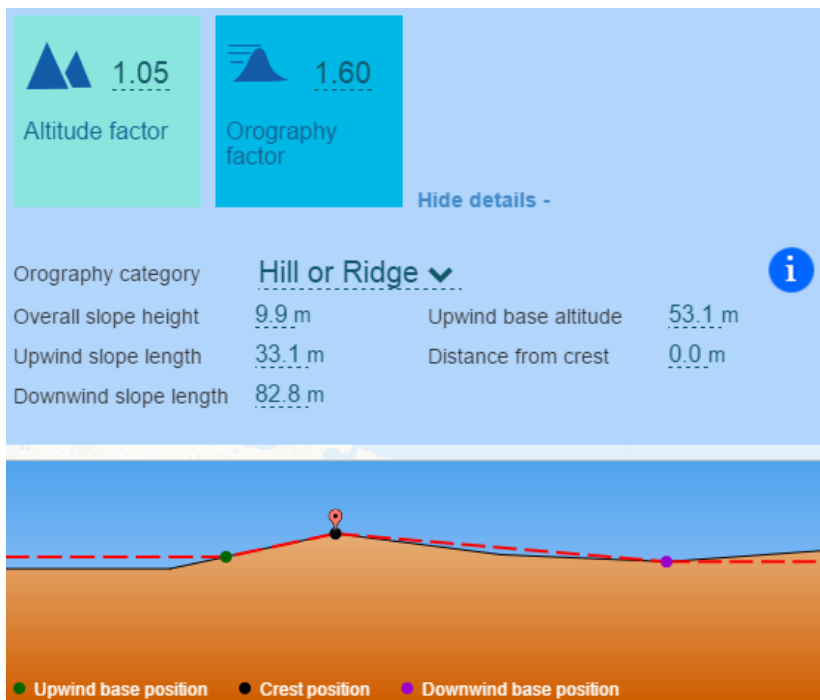
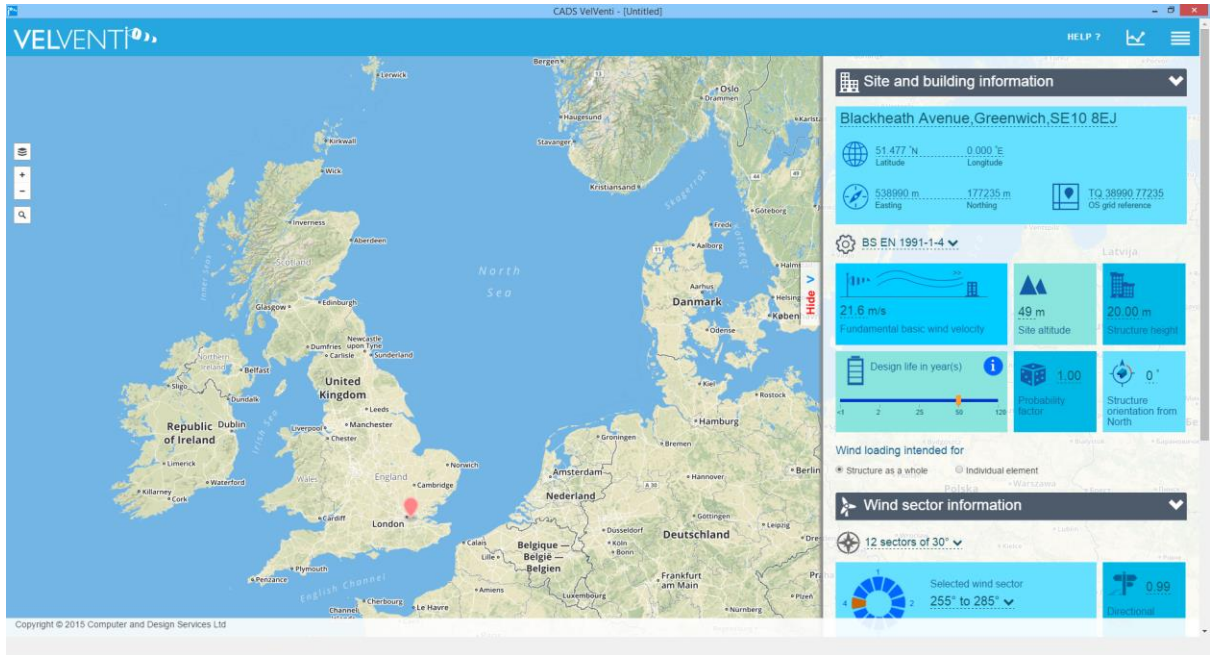
5. Enhancement to the report: options to include dominant or selected wind direction profiles.
6. Introduction of *local effects factor* to model valley funnelling effects or shelter in a steep sided enclosed valley in accordance to BS 6399-2 cl.3.2.3.4.6.

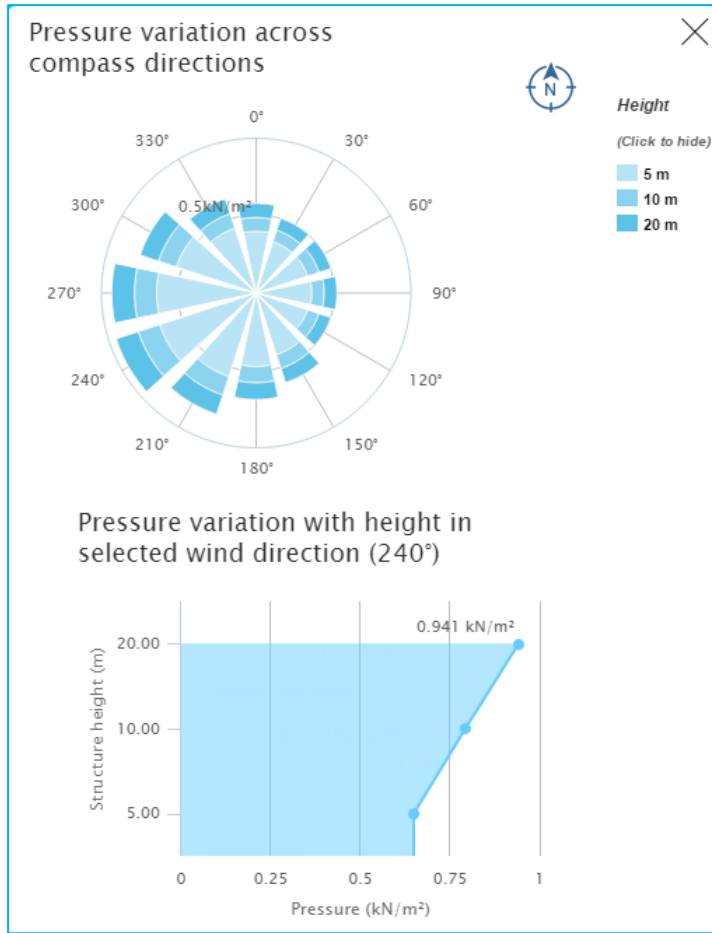
Version 1.0 Beta (Build 50): December 2015

VelVenti is a site specific wind pressure calculation software from CADS. It is based on the latest technology offering a brand new user interface and automated detailed calculation in a number of directions. It is compatible with Microsoft Windows 10. Some highlights of the software include:

- ▶ Selection of site on an interactive map;
- ▶ Support for multiple design standards: British/European/American (BS 6399-2, EN 1991-1-4 with UK and Irish national annexes and ASCE 7-10);
- ▶ Automatic determination of wind speeds for the UK, Ireland and the USA;
- ▶ Automatic assessment of site orography/topography with internet connection;
- ▶ Detailed calculation in multiple directions;
- ▶ Option to orient the wind sectors to suit your building for maximum economy;
- ▶ Option to edit calculated factors;
- ▶ Graphical representation of results;
- ▶ Clear and concise printed reports;
- ▶ Works standalone or fully integrated with CADS SMART Portal;
- ▶ Provides API support for integration with custom applications.

VelVenti Release Notes





Project no: 001-23-10

Calculation no: 23a

Prepared by: DV

Date: 04-08-2015

Checked by: SJ

Page no: 1

Site reference: Marwood Road,Leicester,LE4 2EL

Peak velocity pressure calculation to BS EN 1991-1-4:2005+A1:2010 and UK national annex

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Description	Value
Site location	52.663°N -1.143°E
Fundamental basic wind velocity, $V_{b,map}$	21.7 m/s
Site altitude, A	88 m
Seasonal factor is based on all year.	
Probability factor, C_{prob}	1.00
Altitude factor, C_{alt}	1.08
Orography factor, C_o	1.00
Exposure factor, C_e	2.78
Peak velocity, V_p	39.2 m/s

(Figure NA.1)

(NA.2.8)

(NA.2.5)

(A.3)

(Figure NA.7)

(2.2.3)

Description	Value
OS grid reference	SK 58087 07606
Structure height, h	20.00 m
Structure orientation from North	0°N
Seasonal factor, C_{season}	1.00
Directional factor, C_{dir}	1.00
Orography	Not significant
Distance to shoreline	176.85 km
Zone for size factor, C_s	B
Peak velocity pressure, q_p	0.941 kN/m²

(Table NA.2)

(Table NA.1)

(NA.8)

(NA.2.17)

