

PRODUCT SHEET

INTRODUCTION

Emu Analytics' 'Building Heights - Wales' product contains simple building outlines and associated height information for nearly one million buildings within Wales.

BENEFITS

The Building Heights product is an easy-to-use, viable alternative to more expensive offerings such as Ordnance Survey Mastermap. It is used by various organisations including Local Authorities, Architects and Engineering Firms to:

- Rapidly understand the built environment
- Produce simple 3D models for place analysis
- Assess health and safety planning
- Plan emergency service provision
- Assess building insurance



Building Heights Example

DATA

Building outlines are sourced from Ordnance Survey Open Map and combined with LiDAR (Light Detection and Ranging) data from Natural Resources Wales to produce height information.

Maximum, minimum and average heights are provided for each building.

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Coverage

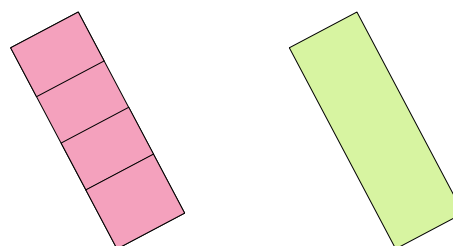
The product covers the majority of built-up area within Wales, with 75% coverage of urban areas. Emu Analytics provides a coverage checker at <http://buildingheights.emu-analytics.net>. The data is available up to 2015.

Accuracy

Horizontal accuracy is +/- 40cm at a resolution of 1m.

Vertical accuracy is less than +/- 15cm however this is aggregated across the whole building. For example a church with a steeple will have a higher average height. To deal with this the product includes maximum and minimum height information.

Building outlines are simplified e.g. a block of terraces is represented as a single polygon.



Building Simplification. Individual residences (left) amalgamated into a single polygon (right)

Delivery

The data is delivered in Shapefile format for use in standard GIS software such as Esri ArcMap/Pro and QGIS.

Building outlines are in the British National Grid (BNG OSGB 1936) coordinate system.

Licensing

Two licenses are available, Internal Project and Commercial Usage. More details can be found at www.emu-analytics.com/datapacks