

GUIDANCE ON BUILDING ENERGY STANDARDS

FenestraPro is happy to provide general information on Local Building Regulations for your country. As Regulations get updated and new Standards are approved, rather than prescribing a limited list of Standards, we think it is best to allow our users to control the Standards that they wish to use. To facilitate this, we now allow users to set their own values for Glazing, Wall, Floor and Roof U-Values and R-Values in FenestraPro Version 4.1.

We provide here some general guidance on current regulations for various countries and links to useful websites where users may find more detailed information. We recommend that users check with their current local Standards so that the figures applied are up to date and relevant to your project site location.

A useful link is provided below to The Global Buildings Performance Network where Energy Standards are listed for various countries.

ENERGY STANDARDS GUIDANCE

<http://www.gbpn.org/databases-tools/bc-detail-pages/new-york-city#Values%20for%20New%20Buildings>

For new users of FenestraPro, we provide here a sample of Energy Codes for some regions. They are provided here as general guidance to allow users to commence analysis but since values may not always be current to your location or region, users are advised to check with current regulations applicable for their location.

(FenestraPro assumes no responsibility for the accuracy of these values as they may change from time to time and users are advised to confirm with their regulatory bodies and government publications as to the current applicable Standards and Building Codes that are relevant and in effect for your region/jurisdiction).

SAMPLE ENERGY STANDARD VALUES

Metric Table (Units in W/m² K)

Standard	% Glazing	Overall U-Value	Exposed Floor U-Value	Ground Floor U-Value	Glazing U-Value	Wall U-Value	Roof U-Value
UK Part L - Limiting Fabric	100	0.39	0.25	0.25	2.2	0.35	0.25
UK Part L - Concurrent	100	0.39	0.22	0.22	1.6	0.26	0.18

Imperial Table (Units in BTU/hr/ft²/ F)

Standard	% Glazing	Overall R-Value	Exposed Floor R-Value	Ground Floor R-Value	Glazing U-Value	Wall R-Value	Roof R-Value
ASHRAE 90.1 Zones 1-4	40	14.56	3.10	3.10	0.65	6.6	21.03
ASHRAE 90.1 Zones 5-8	40	14.56	37.86	37.86	0.32	29.89	56.78
IECC – Lower Climate	30	14.56	29.89	29.89	0.29	21.03	47.32
IECC – Upper Climate	30	14.56	3.10	3.10	0.65	6.6	21.03

(These are sample values only and may not be applicable/current to your region or country, they may be used for initial simulations and learning the software. Please check with your relevant Building Codes which Standard is applicable to your project)