

Energy Hierarchy Stage 1

NZC2(A): % improvement of energy efficiency against Building Regulations

Target Fabric Energy Efficiency (TFEE) of notional building of Building Regulations Part L 2021.		
Dwelling Fabric Energy Efficiency (DFEE) after the proposed improvements have been applied.		
DFEE as a % improvement on TFEE (Target Fabric Energy Efficiency)		
Building fabric element:	Part L 2021 notional dwelling²⁸ (provided as baseline)	Proposed Specification
External walls (including semi-exposed walls)	U value 0.18 W/(m ² .K)	
Floors	U value 0.13 W/(m ² .K)	
Roofs	U value 0.11 W/(m ² .K)	
Doors* (*whether opaque or up to 60% glazed)	U value 1.0 W/(m ² .K)	

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²⁸ HM Government Department for Levelling Up, Housing and Communities and Ministry of Housing, Communities & Local Government (2023) Building Regulations Part L ("Conservation of Fuel and Power Approved Document L) 2021 edition incorporating 2023 amendments. https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1133079/Approved_Document_L_-_Conservation_of_fuel_and_power_Volume_1_Dwellings_2021_edition_incorporating_2023_amendments.pdf

Part 1A - Residential Dwellings

Building fabric element:	Part L 2021 notional dwelling ²⁸ (provided as baseline)	Proposed Specification
Windows and glazed doors (>60% glazed)	U value 1.2 W/(m ² .K)	
Roof windows** (*If vertical. If not vertical, see conversions in SAP Appendix R)	U value 1.2 W/(m ² .K)	
Rooflights** (*If horizontal. If not horizontal, see conversions in SAP Appendix R)	U value 1.7 W/(m ² .K)	
Air permeability (air tightness)	5 m ³ /(h·m ²) at 50	
Glazing ratio (% of total floor area, and area broken down by each façade direction)	North	
	East	
	South	
	West	
Informative:	<p>These calculations are to demonstrate how energy improvements have been applied in pursuit of NZC2(A). For residential dwellings a 10% improvement on the Part L 2021 Target for Fabric Energy Efficiency is sought. The accompanying Energy Statement should outline in detail the energy efficiency measures employed in the development.</p> <p>Where full compliance is demonstrated the Energy Statement should justify how energy efficiency measures have been incorporated to the greatest extent feasible and viable.</p> <p>See SPD Section 4 for further information.</p>	