



# New Zealand Building Code H1 Changes Implications For Windows & Doors Double Glazing

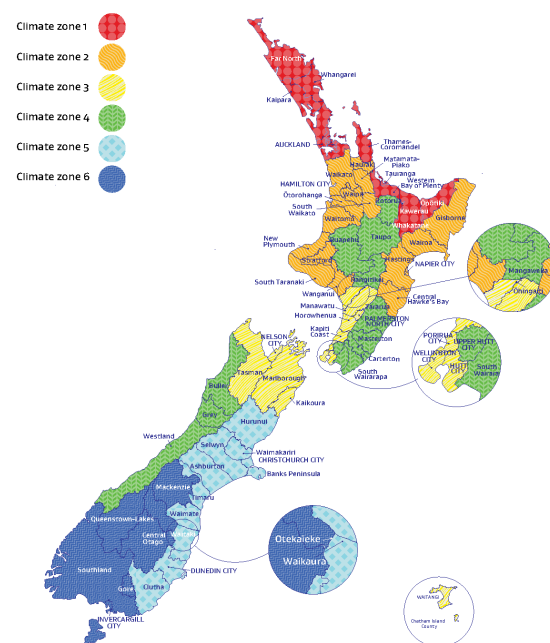
MBIE have finalised the Building Code changes and implementation time frames. For windows and doors this still means a change for all new Housing consents from the 3rd of Nov 2022.

The first step change is a minimum  $R_{window}$  Ug of 0.37 across New Zealand for all climate zones. For most of the housing, one of the new compliance verification methods allows for simple selection from the H1  $R_{window}$  Schedule method table. Also covered in this table are generic frame types to aid in selection options.

To achieve  $R_{window}$  Ug 0.37 in the first stage of implementation there are options from the Metro Glass Low E Range:

- Standard Aluminium Frame options are  
Low E Xcel or Xtreme
- Thermally Broken Aluminium Frame options  
Low E Max, Xcel, Grey or Xtreme

**TABLE C.1.1.2:** Climate zones by territorial authority  
Paragraph C.1.1.2



The next two stages of implementation occur on the 1st of May 2023 for Climate Zones 3-6 and on Nov 2023 for Climate Zones 1-2 completing the full implementation of the window changes. The table overleaf shows the double glazing and frame options for each stage.

Climate Zones	1	2	3	4	5	6
Current Standard Double Glazing	R0.26		R0.26		R0.26	
Interim minimum $R_{window}$ value 3 November 2022 all Climate Zones	R0.37 ↑		R0.37 ↑		R0.37 ↑	
1 May 2023 Climate Zones 3-6 move to final $R_{window}$ performance levels	R0.37		R0.46 ↑		R0.50 ↑	
2 November 2023 Climate Zones 1-2 align to Climate Zones 3-4 for final $R_{window}$ performance levels	R0.46 ↑		R0.46		R0.50	

The market leading Metro Performance Glass Low E range continues to provide compliant solutions across the new Climate Zones. The latest addition to the range “Low E Grey” adds a further solar control Low E to partner Low E Xtreme.

**Stage One**  
Consents lodged for Housing  
3<sup>rd</sup> Nov 2022 – 30<sup>th</sup> Apr 2023

Based on 14mm Spacer\*

Climate Zones  
1, 2, 3, 4, 5 & 6  
R<sub>window</sub> R0.37

<b>Classic</b> Double Glazing	<b>Low E Max</b> Double Glazing	<b>Low E Xcel</b> Double Glazing	<b>Low E Grey</b> Double Glazing	<b>Low E Xtreme</b> Double Glazing
Standard clear double glazing -std spacer need to add argon**	Entry level soft coat Low E, argon gas thermal spacer	Extra clear soft coat Low E, argon gas, thermal spacer	Grey tone soft coat Low E, argon gas, thermal spacer	High performance soft coat Low E, argon gas, thermal spacer + solar control
U <sub>g</sub> Value 2.6	U <sub>g</sub> Value 1.5	U <sub>g</sub> Value 1.1	U Value 1.3	U <sub>g</sub> Value 1.1
uPVC   Timber	uPVC   Thermal Aluminum	Standard Aluminum   Thermal Aluminum	uPVC   Thermal Aluminum	Standard Aluminum   Thermal Aluminum

**Stage Two**  
Consents lodged for Housing  
1<sup>st</sup> May 2023 – 1<sup>st</sup> Nov 2023

Based on 14mm Spacer\*

Climate Zones  
1 & 2  
R<sub>window</sub> R0.37

Climate Zones  
3 & 4  
R<sub>window</sub> R0.46

Climate Zones  
5 & 6  
R<sub>window</sub> R0.50

<b>Classic</b> Double Glazing	<b>Low E Max</b> Double Glazing	<b>Low E Xcel</b> Double Glazing	<b>Low E Grey</b> Double Glazing	<b>Low E Xtreme</b> Double Glazing
Standard clear double glazing -std spacer need to add argon**	Entry level soft coat Low E, argon gas thermal spacer	Extra clear soft coat Low E, argon gas, thermal spacer	Grey tone soft coat Low E, argon gas, thermal spacer	High performance soft coat Low E, argon gas, thermal spacer + solar control
U <sub>g</sub> Value 2.6	U <sub>g</sub> Value 1.5	U <sub>g</sub> Value 1.1	U Value 1.3	U <sub>g</sub> Value 1.1
uPVC   Timber	uPVC   Thermal Aluminum	Standard Aluminum   Thermal Aluminum	uPVC   Thermal Aluminum	Standard Aluminum   Thermal Aluminum
N/A	uPVC   Timber	uPVC   Thermal Aluminum	uPVC   Thermal Aluminum	uPVC   Thermal Aluminum
N/A	uPVC   Timber	uPVC   Thermal Aluminum	uPVC   Timber	uPVC   Thermal Aluminum

**Stage Three**  
Consents lodged for Housing  
and Buildings upto 300m2  
From 2<sup>nd</sup> Nov 2023

Based on 14mm Spacer\*

Climate Zones  
1, 2, 3 & 4  
R<sub>window</sub> R0.46

Climate Zones  
5 & 6  
R<sub>window</sub> R0.50

<b>Classic</b> Double Glazing	<b>Low E Max</b> Double Glazing	<b>Low E Xcel</b> Double Glazing	<b>Low E Grey</b> Double Glazing	<b>Low E Xtreme</b> Double Glazing
Standard clear double glazing -std spacer need to add argon**	Entry level soft coat Low E, argon gas thermal spacer	Extra clear soft coat Low E, argon gas, thermal spacer	Grey tone soft coat Low E, argon gas, thermal spacer	High performance soft coat Low E, argon gas, thermal spacer + solar control
U <sub>g</sub> Value 2.6	U <sub>g</sub> Value 1.5	U <sub>g</sub> Value 1.1	U Value 1.3	U <sub>g</sub> Value 1.1
N/A	uPVC   Timber	uPVC   Thermal Aluminum	uPVC   Thermal Aluminum	uPVC   Thermal Aluminum
N/A	uPVC   Timber	uPVC   Thermal Aluminum	uPVC   Timber	uPVC   Thermal Aluminum

Resources

<https://www.metroglass.co.nz/window-glazing/window-specifying-new-homes-and-housing>

Sept 2022