

Changes to glazing requirements – NZS4223:2016

In January 2017 the Ministry of Business Innovation and Employment announced changes to the requirements for glazing in buildings.

NZS4223 Part 3 Dual pane glass panel barrier systems



All toughened or heat strengthened laminated (dual pane) glass panel barrier systems must be tested for dual pane fracture. The glass must be tested for its ability to resist a load in the case of dual pane fracture.

Testing comprises a 20kg load which is applied for 1 minute; the maximum deflection allowable is 250mm.

Testing must take into account the different deflection rates for various substrates i.e. concrete, steel or timber; barrier fixing methods and whether it has an interlinking rail or clamps.

This requirement was notified by MBIE on 1 January 2017 and comes into effect on 31 May 2017. Refer to B1 Structure (amendment 15) for further information.

NZS4223 Part 2 Insulated glazing units

Insulated glazing units (IGU) or double glazing as it is more commonly known has also undergone changes. Manufacturers must have test results to show how the IGU's meet durability requirements. Specifically, that moisture is restricted from entering the frame. The moisture penetration test results from an independent and certified testing facility must be less than 2 years old.



All IGU's must be permanently marked showing the name of the manufacturer; the date the IGU was manufactured and the performance standard the IGU has been manufactured to.

All IGU's manufactured from 31 May 2017 must meet this requirement. The mark must be clearly visible on the frame

This change comes into effect from 31 May 2017.