

Title (en)
BALLISTIC RESISTANT INSULATED GLAZING UNITS

Title (de)
BESCHUSSSICHERE ISOLIERVERGLASUNGSEINHEITEN

Title (fr)
VITRAGES ISOLANTS ANTIBALLES

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Application
EP 19773409 A 20190919

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Abstract (en)
[origin: WO2020058439A1] The present invention discloses an insulated glazing unit configured for resisting to a projectile (6) with an kinetic impact energy, E, comprised between 1750 J and 1850 J, extending along a plane, P, defined by a longitudinal axis, x, and a vertical axis, y, comprising a front laminated pane, F, facing the projectile, having a total thickness, ZF, and comprising m glass sheets, f, each having a sheet thickness, Zf, bonded by m-1 polymer interlayers, fi, each having a polymer thickness, Zfi, wherein m is a positive integer greater than or equal to 2 ($m \geq 2$), a back laminated pane B, having a total thickness, ZB, comprising at least n glass sheets, each having a sheet thickness, Zb, bonded by n-1 polymer interlayers, bi, each having a polymer thickness, Zbi, wherein n is a positive integer greater than or equal to 2 and a spacer, S, maintaining a distance, D, between the front laminated pane F and the back laminated pane, B; wherein the thicknesses are measured in the direction normal to the plane, P, in the axis, z, wherein the total thickness of the front laminated pane, ZF, equals the sum of the thicknesses of the m glass sheets and the m-1 polymer interlayers, and wherein the total thickness of the back laminated pane, ZB, equals the sum of the thicknesses of the n glass sheets and the n-1 polymer interlayers wherein $ZB \leq 1/3 \cdot (ZF + ZB)$ and at least 2 glass sheets of the back laminated pane (B) are tempered.

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