CLAIMS

1. Insulating glass wall for a building comprising at least two glazed panels (12), characterized in that:

a. in each pair of adjacent glazed panels, the panels (12) are connected to one another by at least one translucent connection element having a structuring function (7a);

b. each glazed panel is a multiple glazing comprising several glass sheets (11) containing at least one closed space (13) between the sheets and comprising at least one translucent sealing joint (6), (7) along its connecting edge facing the other adjacent glazed panel; and

c. each glazed panel is a multiple glazing comprising at least a first glass sheet and a second glass sheet (11) which are joined together by means of a spacer frame (1) which holds them at a certain distance from one another and which comprises at least one vertical spacer made of translucent organic resin (2) and at least two horizontal spacers (3) each composed of a profile comprising at least one attachment piece, said spacers being connected together in order to form said frame.

2. Insulating glass wall according to the preceding claim, characterized in that in at least one glazed panel (12), at least one closed space (13) between a pair of adjacent glass sheets is filled with a dry gas selected from air, nitrogen, argon, xenon, krypton and a mixture of at least two of these gases.

3. Insulating glass wall according to either one of the preceding claims, characterized in that the glazed panels joined by means of at least one translucent connection element (7a) have a gas leakage of

less than 3% per year measured according to the EN1279-3 standard, and a moisture tightness corresponding to an index I of less than or equal to 25% measured according to the EN1279-2 standard.

4. Insulating glass wall according to any one of the preceding claims, characterized in that the translucent connection element (7a) is a structuring joining means selected from a translucent mastic such as translucent silicone, translucent modified silicone (MS-Polymer), translucent polyurethane (PU), a translucent hybrid mastic comprising silicone and polyurethane, a translucent adhesive of translucent acrylic or epoxy type, a translucent organic sheet of polyvinyl butyral (PVB), polyurethane (TPU), ethylene/vinyl acetate copolymer (EVA) or ionomer type or a combination of two or more of these compounds.

5. Insulating glass wall according to any one of Claims 1 to 3, characterized in that the translucent connection element (7a) is a beam consisting of a profile of elongated shape made from a material selected from rigid and flexible translucent materials or a combination of these two materials.

6. Insulating glass wall according to claim 5, characterized in that the beam is a glass beam that comprises a laminated glass (16) comprising at least one organic translucent sheet.

7. Insulating glass wall according to Claim 5 or 6, characterized in that each glazed panel is structurally connected to the beam by means of translucent connection means (7a) selected from a translucent mastic such as translucent silicone, translucent modified silicone (MS-Polymer), translucent polyurethane (PU) and translucent hybrid mastic comprising silicone and polyurethane, a translucent adhesive of translucent acrylic or epoxy type, a translucent organic sheet of

polyvinyl butyral (PVB), polyurethane (TPU), ethylene/vinyl acetate copolymer (EVA) or ionomer type or a combination of two or more of these compounds.

8. Insulating glass wall according to any one of the preceding claims, characterized in that at least one translucent connection element (7a) is reinforced by a translucent wind brace (10) connected to this connection element, the wind brace (10) being located on a side of the glass wall which is a side inside the building.

9. Insulating glass wall according to any one of the preceding claims, characterized in that all the sealing joints (6), (7) of each glazed panel are translucent.

10. Insulating glass wall according to the preceding claim, characterized in that the sealing joints (6), (7) are selected from a translucent mastic, a translucent adhesive and a translucent organic tie sheet for tying to the glass or a combination of at least two of these compounds.

11. Insulating glass wall according to any one of the preceding claims, characterized in that at least one glass sheet (11) of each glazed panel (12) is coated with a layer of metal or metal oxide that makes it possible to improve the thermal insulation and/or solar control performance of the glazed panel.

12. Insulating glass wall according to any one of the preceding claims, characterized in that at least one glass sheet (11) of at least one glazed panel (12) is replaced by a laminated structure (14) having a safety or acoustic function comprising at least one sheet made of translucent organic material adhesively bonded on both sides thereof to a glass sheet.

13. Insulating glass wall according to the preceding claim, characterized in that at least one glass sheet (11) of at least one glazed panel (12) is a tempered glass.

14. Insulating glass wall according to any one of the preceding claims, characterized in that at least one glass sheet (11) of at least one glazing (12) is made of an enamelled, screenprinted or matt glass.

15. Process for manufacturing an insulating glass wall for a building according to any one of the preceding claims, characterized in that at least two glazed panels (12) are hermetically assembled at one of their edges at least with the aid of a translucent connection element having a structuring function (7a).