Claims.

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1.- Curtain wall of a modular type, constructed from prefabricated connecting wall elements (2) mounted in rows next to and above each other,

wherein each of the wall elements (2) comprises a frame (3) comprising mullions (9) and transoms (10), said mullions and said transoms defining at least a part of a perimeter for a plurality of open compartments,

wherein said plurality of open compartments are formed by at least two of said mullions (9) connected to at least two of said transoms (10),

wherein at least one of the plurality of open compartments is filled using a fixed infill element (6) that is attached directly onto the frame (3) and at least one other of the plurality of open compartments is filled using a wing with an infill element (6) attached on a wing frame (3") that is attached in a rebate (40) formed in at least one mullion (9) forming the frame (3),

wherein the infill elements (6) are all aligned and wherein the mullions (9) of the frames (3) are formed from one-piece profiles with an internal chamber (23b) bounded by an outside wall (19) and a side wall (20) of the mullion (9),

wherein in the case that the at least one of the plurality of open compartments is filled with the fixed infill element the infill element (6) is attached directly against the outside wall (19) of the mullions (6) and wherein in the case that the at least one of the plurality of open compartments is filled with the wing, the rebate (40) in the mullions (9) is formed by locally removing a part of the outside wall (19) and the side wall (20) of the internal chamber (23b) of the mullions (9) level with the compartment (3a).

2.- Curtain wall according to claim 1, wherein the transoms (10) are in the form of one-piece profiles which, for the at least one of the plurality of open compartments (3a) filled with the wing, the transoms (10) are equipped during their fabrication with a rebate (40) or which are obtained from one-piece profiles with an internal chamber (23b), wherein an outside wall (19) and side wall (20) of the internal chamber (23b) are removed across an entire length of the transom (10a,10b) to form the rebate (40).

3.- Curtain wall according to one of the previous claims, wherein the mullions (9) and transoms (10) have perpendicular ends, wherein the transoms (10) with their perpendicular ends are attached between the mullions (9).

4.- Curtain wall according to one of the previous claims, wherein the mullions (9) and transoms (10) along an outer perimeter of one of the wall elements (2) are fitted with female coupling parts (12) and with complementary male coupling parts (13) with which adjacent frames (3) can fit into each other.

5.- Curtain wall according to claim 4, wherein the profiles of the mullions (9) and transoms (10) are such that the female and male coupling parts (12-13) are found beyond the outer perimeter of the internal chamber (23b), so that these coupling parts (12-13) remain after removal of the outside wall (19) and side wall (20) to create the rebate (40).

6.- Curtain wall according to one of the previous claims, wherein in the case of a compartment (3a) with the fixed infill element (6), said fixed infill element (6) is attached against the outside wall (19) of the transoms (10) and mullions (9) using slats (27) which are stuck to the inside of the infill element (6) using structural silicone (28).

7.- Curtain wall according to one of the previous claims, wherein in the case of a compartment (3a) with the wing, the infill element (6) on the wing frame (3") is attached using slats (27) which are stuck against the inside of the infill element (6) using structural silicone (28) and wherein when seen from the outside (7) of the curtain wall (1) the compartment (3a) of this wing frame (3") is entirely or almost entirely covered by the infill element (6).

8.- Curtain wall according to claim 5, wherein an internal chamber (23b) is bound by a partition (21) and an adjoining connecting wall (24) which respectively connect to the aforementioned side wall (20) and outside wall (19) of the internal side chamber (23b).

9.- Curtain wall according to claim 8, wherein the rebate (40) is formed by the partition (21) after removal of the side wall (20) up to the partition (21) to form a first stop for the wing frame (3") and by the connecting wall (24) after partially removing this connecting wall (24) up to a protrusion (26) fitted on this connecting wall (24) to create a second stop for this wing frame (3").

10.- Curtain wall according to claim 9, wherein at the site of the stops a seal (38,39) is fitted against which the wing frame (3") can be drawn.

11.- Curtain wall according to one of the previous claims, wherein the wing frame (3") is formed by predominantly L-shaped profiles (41) which are attached with a first leg (41a) along the edges of the infill element (6) against the inside of this infill element (6) and with a second leg (41b) at a distance from these edges.

12.- Curtain wall according to claim 11, wherein, in an assembled condition, the wing frame (3") rests on the protrusion (26) with its first leg (41a) with an intervening seal (39), acting as a stop for the remaining part of the connecting wall (24) of the fixed part frame (3') and rests with the free edge of its second leg (41b) with the intervening seal (38) on the partition (21) that acts as a stop.

13- Curtain wall according to one of the previous claims, wherein the wall elements (2) are fitted around their perimeter with insulation profiles (30) which are attached to the frame (3) and overlap towards the outside reaching over the edges of the infill elements (6).

14.- Curtain wall according to claim 13 wherein, in the case of a compartment with a wing, the insulation profiles (30) are attached to this wing frame (3").

15.- Curtain wall according to claim 13 or 14, wherein the insulation profiles (30) are sealed against the infill elements (6) using a silicone or other sealing kit.

16.- Curtain wall according to one of the claims 13 to 15, wherein the insulation profiles (30) are fitted along their outside perimeter with a first level of seals (36) at a fixed distance from the outside of the wall elements (2) which ensure a seal against adjoining wall elements (2) and with a seal with the underlying horizontal seal (34).

17.- Curtain wall according to claim 16, wherein a second level of seals (37) is fitted on the frame (3) of the wall elements (2) at a greater distance from the outside of the wall elements (2) which ensure a seal against adjoining wall elements (2).

18.- Curtain wall according to claim 17, wherein, in the case of the wing, the second level of seals (37) is attached in line with the rebate (40) of the frame (3").

19.- Curtain wall according to one of the previous claims, wherein, in the case of the wall element with the compartment (3a) with the wing, the rebate (40) in the corners where the ends of the transom profiles (10) connect to the mullion profiles (9) is sealed using an external corner piece (44) that is attached in a way that overlaps in the rebate (40) of the transom profiles (10) and that lies with a side edge (44e) touching the connecting mullion profile (9) and is fitted with a lip (44d) that touches the connecting wall (24) of the adjoining internal chamber (23b) and is fitted with an extended part (44d') that extends to seal up to the rebate (40) of the connecting mullion profile (10).

20.- Curtain wall according to one of the previous claims, wherein, in the case that the wing is one that opens, the wing frame (3") of this wing in the rebate (40) of the frame (3) is attached using window hardware (42).

21.- Curtain wall according to one of the claims 1 to 19, wherein, in the case that the wing is a wing of a replacement infill element that is attached to the wing frame (3"), the wing frame (3") of the replacing element in the rebate (40) of the frame (3) is attached to this wing frame (3") using clip connections (50a) which are compatible with complementary clip connections (50b) in the rebate (40).

22.- Curtain wall according to claim 21, wherein reinforcement lugs (51a) are featured on the lowest transom (10") of the wing frame part (3") of the replacement infill element, with which the wing frame (3") rests on complementary reinforcement lugs (51b) in the rebate (40) of the relevant compartment (3a) of the frame (3).

23.- Method for the replacement of a fixed infill element (6) of a wall element (2) in a curtain wall (1) according to one of the previous claims, wherein the method comprises the following steps:

- providing a replacement infill element on a frame in the form of a wing frame (3");
- clamping the infill element for replacement (6) from an inside position of the building to prevent the infill element from falling out of the building;
- loosening the infill element for replacement (6) from the inside by grinding or suchlike along a perimeter of the infill element (6), an outside wall (19), side wall (20) and a connecting wall (24) of a side chamber (23b) of the fixed frame (3) to which the infill element (6) is attached in such a way that a rebate (40) is formed in the remaining part of the fixed frame (3);

- removing the loosened infill element (6) with the loosened part of the fixed frame (3) from the inside;
- applying the replacement infill element with its wing frame (3") in the rebate (40) of the frame (3) from the inside;
- attaching the replacement infill element (6) with its wing frame (3").

24.- Method according to claim 23, wherein the wing frame (3") of the replacement infill element on a lowest transom (10") and on a mullions (9") is fitted with clip connections (50a) and the lowest transom (10") is fitted with a reinforcement lug (51a) and wherein, before the replacement infill element is fitted in the curtain wall (1), complementary clip connections (50b) and reinforcement lugs (51b) are attached in the formed rebate (40) which can cooperate with the clip connection (50a) and the reinforcement lugs (51a) on the wing frame (3") of the replacement infill element for the attachment of the replacement infill element in the curtain wall (1).

25.- Method according to claim 24, wherein for the attachment from the inside of the replacement infill element with its wing frame (3") in the rebate (40) of the frame (3) this is brought outside in its entirety and placed on the reinforcement lugs (51b) in the rebate in order for the wing frame (3") to then be tipped towards the inside with a pulling movement onto the reinforcement lugs (51b) until the clip connections (50a,50b) hook into each other.

26.- Method according to one of the claims 24 or 25, wherein before the replacement infill element is mounted, seals are provided to seal the wing frame (3") in the rebate (40).

27.- Method according to one of the claims 24 to 26, wherein before the replacement infill element is mounted, corner pieces (44) are attached in the corners of the rebate (40) according to claim 17.