Claims

1. A modular residential building at least comprising:
   a) a building framework, where the building framework comprises a plurality of vertical columns (4.02), each vertical column is provided with a plurality of contact surfaces (4.11) wherein each contact surface is a part of a carrying structure for flat modules (1.0),
   b) a plurality of flat modules (1.0), said flat modules preferably being modified ISO-containers, secured to the vertical columns (4.02);
   c) at least two gable elements (6.03);
   d) a plurality of vertical front elements (6.04);
   e) at least one roof element (6.02), and
   wherein the assembly of framework and flat modules are covered with an insulating outer shell, wherein said outer shell is created by the at least two gable elements (6.03), the at least one roof element, and the plurality of vertical front elements (6.04);

the building being characterised in that
the building framework includes fastening means (5.02) for securing the flat modules (1.0) to the vertical columns (4.02) of the building framework with a horizontal and vertical distance between neighbouring flat modules (1.0) thereby creating cavities there between wherein said cavities are utilised as a plurality of horizontal and vertical heating and cooling canals, and
wherein sound reduction material (5.01a) is provided between each contact surface (4.11) and the flat module (1.0) being carried by said contact surface (4.11).

2. A modular residential building according to claim 1, where the flat modules (1.0) include a container framework (1.01).
3. A modular residential building according to claim 1 or 2, where each of the corners of the flat module (1.0) includes connections (1.02) configured to be secured to bolt holes (4.14) of the vertical columns (4.02).
4. A modular residential building according to any of the claims 1 - 3, where between two floors and overlapping downwards it is provided front elements (6.05), these front elements covers the space between two floors in the X-direction, which effectively provides for an internal canal between floors.

5. A modular residential building according to any of the previous claims, where bolts (5.02) secures flat modules (1.0) to columns (4.02) through bolt holes (4.14) in the columns (4.02).
6. A modular residential building according to any of the previous claims, where the modular residential building further comprises at least one technical room (2.01).
7. A modular residential building according to claim 6, where the at least one technical room (2.01) is arranged in the middle of the modular residential building on the ground floor.
8. A modular residential building according to claim 7, where the technical room at least comprises one of a fan, a dehumidifier (heat pump) and a reheating battery.