CLAIMS

1. A prefabricated profiled concrete wall panel for use in the assembly of a PPVC module, the wall panel having opposing exterior and interior faces bounded along their perimeter by a pair of vertical side edges and a pair of horizontal top and bottom edges, end flange on the bottom edge and comprising one or more detachable segments

   wherein an exterior vertical face of the wall panel is profiled to partly define a space to receive prefabricated column, wall and/or beam reinforcement and adapted to be part of a permanent formwork for cast-in-situ concreting operation when the assembled PPVC module is positioned in place on a building.

2. The prefabricated profiled wall panel of claim 1 wherein the concrete profiled wall panel consists of at least one recessed channel spanning vertically between the horizontal top and bottom edges on its exterior vertical face.

3. The prefabricated profiled concrete wall panel of according to claims 1 or 2, wherein the detachable segments are adapted to be mechanically connectable to adjoining detachable segments.

4. The prefabricated profiled concrete wall panel of according to claim 3, wherein the detachable segments are mechanically connected by bolts and nuts.

5. The prefabricated profiled concrete wall panel of according to any one of claims 1-5 wherein the concrete wall panel is cast from RC, SCC, FRCC, HPCC or UHPC.

6. A PPVC module for a building comprising at least one prefabricated profiled concrete wall panel according to any one of claims 1-5.

7. A PPVC module according to claim 6 comprising a façade that can be constructed of cement-based panels, aluminium panels or curtain wall systems.

8. A PPVC module arrangement for a building comprising a plurality of PPVC modules according to claim 7.