[CLAIMS]

[Claim 1]

A building panel structure in which a wall panel which covers a main surface is disposed on a building frame structure in a contact manner, wherein

the building frame structure cross-connects a building frame, wherein the building frame comprises:

U-shaped parts disposed on left and right sides so as to sandwich a center space in a cross-sectional view; and

a connection part which connects top portions of the left and right U-shaped parts on a center side and thus constitutes a reverse U-shaped part,

wherein longitudinal sides, on a side away from a center portion, of the U-shaped parts disposed on the left and right sides in a cross-sectional view are shorter than longitudinal sides thereof, on a center side, connected by the connection part,

concrete is filled between the wall panels including each of the U-shaped parts of the building frame of the building frame structure, and the wall panel is configured to be removably attached to the building frame structure, and

each of the U-shaped parts has a bent portion formed in a curved shape in a cross-sectional view and a width, and the bent portion has a radius of curvature in a range of 3% to 20% of the width.

[Claim 2]

The building panel structure according to claim 1, wherein a thickness of the building frame ranges from 0.4 mm to 2.0 mm.

[Claim 3]

The building panel structure according to claim 1, wherein a thickness of the building frame ranges from 0.6 mm to 1.2 mm.