

OBPlus™ Wall System

Typical homes are built with studs every 16" and insulation in between. That insulation (typically fiberglass) has to be meticulously installed on the job site (and rarely is) just to prevent settling and air leakage; plus, the studs themselves create thermal bridges, conducting valuable heat from the inside of the home in cold weather. R-values are usually less than R-20.

The walls and roofs of Unity homes are constructed of panels we have manufactured off-site to 1/16" tolerances—including cutouts for doors and windows—and then packed with dense cellulose. These waterproof and airtight structural members have insulation values of R-35 in the walls and R-38 to R-48 in the roofs. To minimize air infiltration, we tape every joint and put gaskets at intersections. A service layer separates the mechanical systems from the thermal shell, eliminating any on-site drilling and cutting during construction or later for renovations. The result is that our homes can be built up to 10x tighter than the industry standard.



A cross-section of Unity's OBPlus Wall System wall panel, featuring moisture barriers, cellulose fill, and service layer.