



A Better Way to Build

6 Blackjack Crossing, Walpole NH 03608 · tel: (877) 203-3562 · unityhomes.com

Cellulose Insulation

We use dense-packed cellulose insulation in our OBPlus Wall® panels because it offers many advantages over fiberglass and foam insulation.

Cellulose insulates, minimizes air infiltration, maintains humidity, and keeps things quiet.

Dense-packed cellulose delivers a greater R-value per inch compared to fiberglass batting. And, while the R-value per inch of most foam insulations is higher, foam can crack as it cures, especially around framing members, which allows significant air infiltration.

In addition, cellulose fiber maintains even humidity levels throughout the building. This is due to its hygroscopic buffering capabilities—i.e., ability to take up and release moisture. Fiberglass and foam, on the other hand, are hydrophobic, which means they do not absorb water. This can cause a home's interior to experience significant and uncomfortable swings in humidity when the weather changes.

There's an important lifestyle advantage to cellulose also: its combination of density and consistency deliver far superior sound dampening. Clients are always surprised just how quiet Unity Homes are.

Cellulose is really green.

Cellulose insulation is one of the greenest building products available, featuring up to 85% recycled content, compared to 40% for fiberglass and little or none for foam.

It also takes less energy to manufacture. If you take all the energy required to transport the raw material and then manufacture and distribute the finished product, fiberglass uses up to 10 times more and foam products as much as 64 times more of this embodied energy than cellulose.

Cellulose insulation is made from recycled paper that might otherwise end up in landfills where it will release methane as it decomposes or CO₂ if it is burned. This sequestration results in a positive carbon balance that lowers the material's impact on climate change. It serves the same function in your own environment, where it sequesters carbon rather than releasing it into the home.

Finally, most cellulose manufacture is regional, providing jobs and taking advantage of local recycling programs.