



PLANNING GUIDE

The Barndominium Process

Section 11:

Insulation Options

www.mrpostframe.com

INSULATION OPTIONS

In this section we will cover:

Spray Foam

Fiberglass- Bat

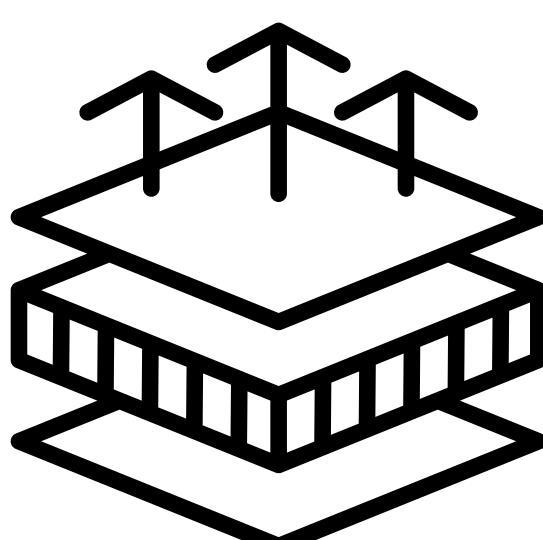
Fiberglass- Blown-In

Rockwool

Combining Insulation Types

It goes without saying that insulating your barndominium properly should be at the top of your priority list.

There are many options when it comes to insulation products, but we will cover the most common ones used by MR Post Frame and in residential building.



CLOSED CELL SPRAY FOAM

Spray foam comes as a closed or open cell. They are very different in their performance and cost while their application process is similar.

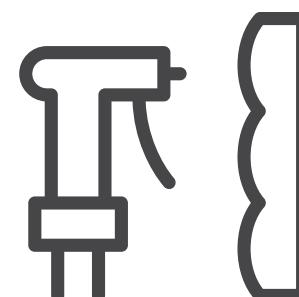
Closed cell spray foam is a solid product once it has cured, and doesn't allow air leakage and helps act to "glue" the structure together.

Some things to know about CCSP:

- It's one of the pricier insulation types, making it a luxury build product
- It is NOT DIY friendly- you need a qualified professional for install
- Great for adding structural integrity (usually at 3")
- Can serve as a vapor and air barrier when applied at the proper thickness

Closed cell spray foam is MR Post Frame's insulation preference
When budget allows, it's even better to spray both the walls and the ceiling.

OPEN CELL SPRAY FOAM



Open cell spray foam is as the name suggests and will be a lightweight, highly expanding form of insulation that is sprayed on to the walls and/or ceiling. While it is not technically a DIY friendly install, there are some at home kits.

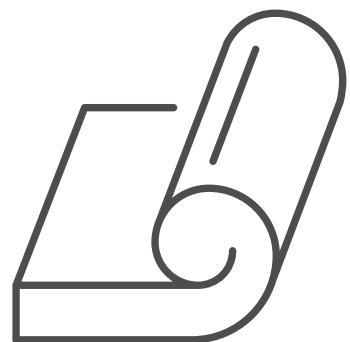
Please note-those were not designed to be used across an entire build. Open cell is less expensive than closed cell, but still more than other types of insulation.

This insulation type is not used in MR Post Frame builds. Even though some contractors recommend this, MR Post Frame highly discourages you from using both closed and open in your wall system. This can lead to condensation issues and mold growth.



Check out the YouTube channel Spray Jones for more in depth education on spray foam - follow the QR code!





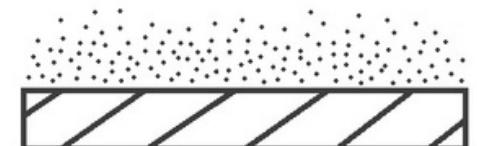
FIBERGLASS BAT

This is a common insulation type for homes. The rolls of insulation will go in between the studs. This is a DIY friendly install.

It has flexibility which makes it great for insulating small spaces and getting into crevices.

You can readily find it at home improvement stores, and it's considered a cost effective option.

FIBERGLASS BLOW-IN

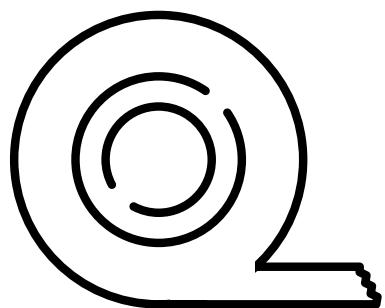


Blown-In insulation is an option that is used commonly for unconditioned attic spaces. It does not settle as quickly as cellulose, making it a more ideal choice.

It does require air sealing, so it shouldn't be installed prior to all of the ceiling penetrations being cut such as recessed lights, etc.

Home improvement stores offer machine rentals for this type of install making it a DIY install option.

Even when hiring a professional, this can be a really cost effective option.



ROCKWOOL

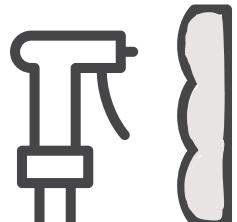
Rockwool is a mineral wool insulation that comes in a bat. It is used by those who desire a more sustainable “green” building material. You will see it used often in luxury barndominium projects.

It does not have the flexibility of a fiberglass bat which can make it more difficult to DIY install.

The option rated for sound proofing is an excellent choice for insulating between floors or around bedroom walls.

It is going to be the most expensive option outside of spray foam insulation.

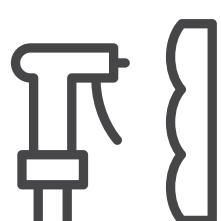
INSULATION PRICING



CLOSED CELL SPRAY FOAM

Price Per Sq Ft: _____

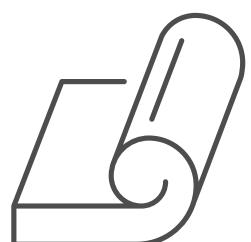
Estimated Cost: _____



OPEN CELL SPRAY FOAM

Price Per Sq Ft: _____

Estimated Cost: _____



FIBERGLASS BAT

Price Per Sq Ft: _____

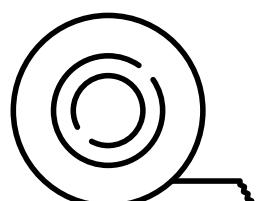
Estimated Cost: _____



FIBERGLASS BLOW IN

Price Per Sq Ft: _____

Estimated Cost: _____



ROCKWOOL

Price Per Sq Ft: _____

Estimated Cost: _____

CAN I MIX Insulation Types?

The short answer is - NO!

Whatever type of insulation you choose for your build, stick with that type by itself. You can block the attic from the walls and use different insulation types, but your wall system should NEVER have more than one insulation in it.

You might remember during the construction of the Mad County (MR Post Frame's personal home) it was recommended by the spray foam contractor to use closed cell and fiberglass bats over the top in the walls.

This resulted in altering the wall science which led to condensation being trapped in the walls, mold growth, and necessitated tearing out the drywall to remove the bats.



View our entire Insulation playlist on youtube!

My wall insulation selection: _____

My ceiling insulation selection: _____

Any other plans for garage/shop space:



ADDITIONAL NOTES

- | | |
|--------------------------|-------|
| <input type="checkbox"/> | _____ |
