



ENCLOSURE SOLUTIONS TECHNICAL BULLETIN

BUILDING INSULATION APPLICATION FULL CAVITY FILL

TECHNICAL BULLETIN

When insulating wood and metal frame wall assemblies, always use a product that completely fills the cavity spaces — top to bottom, side to side, and front to back. On occasion, walls may be constructed with framing members that create cavities that are deeper than what is needed to meet the applicable energy code. For example, a wall may be framed with 2x6s or even 2x8s, for structural requirements, but the energy code can be met with a 3.5-inch-thick product — R-13 or R-15. Even so, the Owens Corning recommendation is to use a product that completely fills the cavity space.

The primary reasons for this are:

- Thermal Performance — To deliver full R-value, fiberglass building insulation must be in contact with the air barrier, either the interior finish or exterior sheathing. Using a product with a thickness less than the depth of the cavity will not ensure full, continuous contact.
- The portion of the cavity that is not filled does not provide maximum thermal value to the assembly and may in fact diminish the thermal value of the insulation by allowing cyclical air movement within the cavity.
- Installing insulation that completely fills the cavity ensures it will not move over time, creating gaps or voids in the cavity. This is especially true for those products installed by “friction-fit” or “pressure-fit” application.
- Filling the cavity completely is the **BEST** opportunity to maximize the thermal value for insulation.

CONTACT

Please contact (419) 248-6557 for additional information or email gettech@owenscorning.com.

Disclaimer of Liability

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Owens Corning makes no representation about, and is not responsible or liable for, the accuracy or reliability of data associated with particular uses of any product described herein.

OWENS CORNING INSULATING SYSTEMS, LLC

ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659 USA

1-800-GET-PINK®
www.owenscorning.com