



WHY IS OUR BASEMENT BETTER?

Just ask any homeowner with a **FOX BLOCKS** basement and you will find one of our greatest supporters.

Traditional Foundation

- Foundations are formed using heavy wood or steel formwork that needs to be removed, extra labor, equipment and time
- Foundations walls are typically 8" – 10" wide to meet code and often may not be plumb or straight.
- Extra material and labor to add insulated stud wall and maintain air tightness to meet energy codes
- Wood studs provide a thermal bridge dramatically reducing the thermal efficiency of the whole wall.
- Wood and fiberglass insulation are susceptible to rot, mildew and mold.
- Contact with moisture severely compromises the R-value in fiberglass batt insulation
- Penetration through the concrete from form ties provide access points for water
- No insulation between wall and edge of floor slab, creates a serious thermal bridge.

vs

Fox Blocks Foundation

- Provides full height continuous EPS insulation, eliminating cold spots and thermal bridging on both above and below grade walls.
- Fox Blocks walls exceed current IECC energy codes by 20% for below grade thermal effectiveness
- EPS insulation prohibits mold, mildew, or rot. Does not degrade.
- EPS and concrete work together as an air and vapor barrier. An additional waterproof or dampproof membrane is required on below grade walls.
- Double insulation layers dramatically reduce the thermal transfer rate across the wall, saving energy.
- Fox Blocks engineering allows for a thinner reinforced concrete wall (6" or 8") in most areas, reducing concrete costs.
- EPS insulation at footing eliminates thermal bridging through wall at edge of floor slab.
- Fox Blocks provides a 6 in 1 construction solution.

THE FOX BLOCKS BASEMENT SOLUTION

Building technology has advanced and we have the solution that has been proven time and time again to address the issues that plague conventionally formed basement and foundation walls.

Create an additional and comfortable living space while bringing more value and enjoyment to your home.



FOX BLOCKS BASEMENT DIFFERENCE

Conventional Construction

Basements can be a source of mold, mildew and rot.

Conventional below-grade foundation walls are susceptible to condensation, creating an ideal environment for mold and mildew growth.

Wood studs and fiberglass batt insulation will absorb moisture either from the wall or condensation on the vapor barrier, promoting mold and rot behind the wall covering



FOX BLOCKS Difference

Eliminates the risk.

Fox Blocks encapsulates the foundation wall with closed cell, inorganic EPS insulation eliminating the potential for condensation, and prohibiting the growth of mold, mildew, and rot.

Two layers of continuous interior and exterior EPS insulation provide additional protection against water intrusion. EPS and concrete provide the air/vapor barriers on both sides of the wall. A benefit in any season or temperature range.

Water Intrusion and Wet Basements are a common problem.

Conventional forming techniques use form ties that can allow water intrusion into the wall cavity.

A lack of rebar in a conventional concrete foundation can lead to cracks in the below-grade wall, opening a pathway for water intrusion and requiring a costly repair.



Eliminates cracking in the wall, eliminate water intrusion.

Concrete ideally cures within the insulating EPS panels, providing a stronger concrete and superior foundation structural solution.

Waterproofing and/or dampproofing on the exterior of a foundation wall provides the final barrier to preventing water intrusion into the basement.

Some insulation is compromised by exposure to moisture.

When moisture comes in contact and is absorbed by fiberglass batt insulation, the R-value is severely compromised.

Moisture problems often remain hidden in the wall cavity, not drying out, creating health hazards, reducing energy efficiency, and attracting insects such as ants and termites.



Problem free, high performance insulation.

Moisture does not effect Fox Blocks, so there is no compromise of the R-value of the continuous EPS insulation.

The EPS insulation does not absorb moisture and is not a food source for insects. Fox Blocks are suitable for all climate zones for below grade and above grade walls.

Uncomfortable, cold, and damp.

Wood framing provides a thermal bridge at each stud, dramatically reducing the overall thermal efficiency of the wall assembly, making the space cold and uncomfortable.

Air tightness may also be compromised at the sill and top plates allowing for condensation creating a damp and musty condition.



Comfortable, warm, and dry.

Fox Blocks provides high-performance, full-height continuous rigid insulation from the footing to the sill plate, maintaining the effective R-value without any loss from thermal bridging, compromised batt insulation, or cold spots in the wall cavity.

Convert that cold damp basement into a comfortable, warm, cozy usable living space.

Inefficient, outdated construction methods and materials.

Traditional concrete formwork is difficult to work with requiring more steps, specialized trades and equipment, more man-power, and may create walls that are not smooth, square, or plumb with form tie holes.

Utilizing concrete formwork links the project to the availability of that contractor, which may have a major impact on the project



Fast, easy, and cost-efficient.

Fox Blocks are lightweight, easy to handle modular blocks that are available across the US and Canada.

The forms provide structure, insulation, fastening strips, vapor, air, and sound barrier into a one-step application. Fox Blocks are easy to cut to meet any dimension in length and height, used for radius walls and to build on radius walls, bear on bedrock, footing or slab-on-grade.

Requires more material and labor.

Foundations built using traditional forming methods typically need to be 8" to 10" wide to meet code – requiring more concrete increasing material costs. These foundations now require wood studs, insulation, vapor barriers, and air sealing to meet code, resulting in more material and labor costs.



Less material and labor, higher strength.

Optimum concrete curing happens within the EPS panels of Fox Blocks, resulting in stronger concrete than in a conventional concrete wall. This means that in normal soil and loading conditions, foundations can be reduced to a 6" concrete core. (Local building code approval may be required).

Fox Blocks solution is the ability to provide a 6 in 1 wall high-performance wall assembly from one contractor.

Find more information on Fox Blocks on our website.

FOXBLOCKS.COM | TRUEGRIDPAVER.COM | 877.369.2562