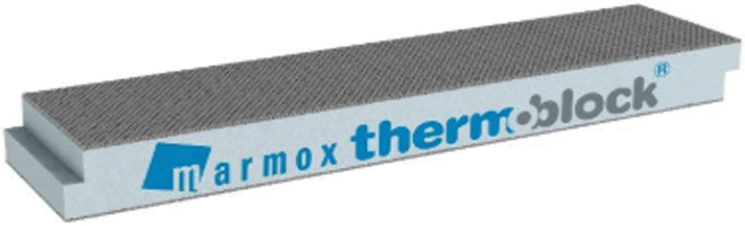
therm•block®

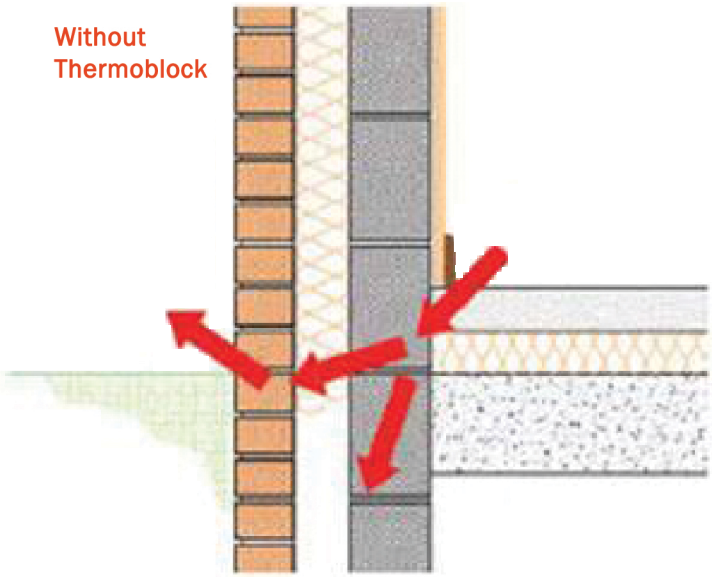
Prevents thermal bridging at the base of walls and roof parapets

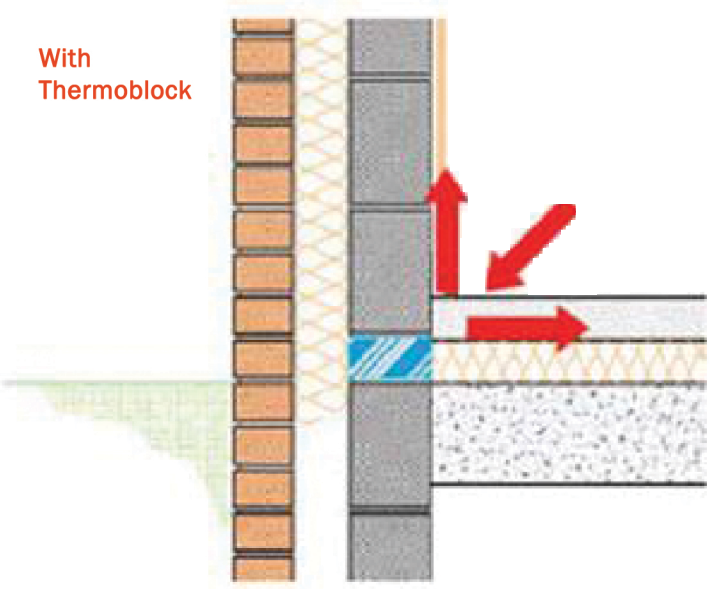
Thermoblock® thermal break blocks reduce heat loss at foundation to wall transitions and roof to parapet intersections. They can also be used as a thermal break under door thresholds.

Features and Benefits

- LBC Red List Free
- Thermal resistance of R 2.2 per inch
- Supports up to 1,300 psi
- Mildew, mold, rot resistant





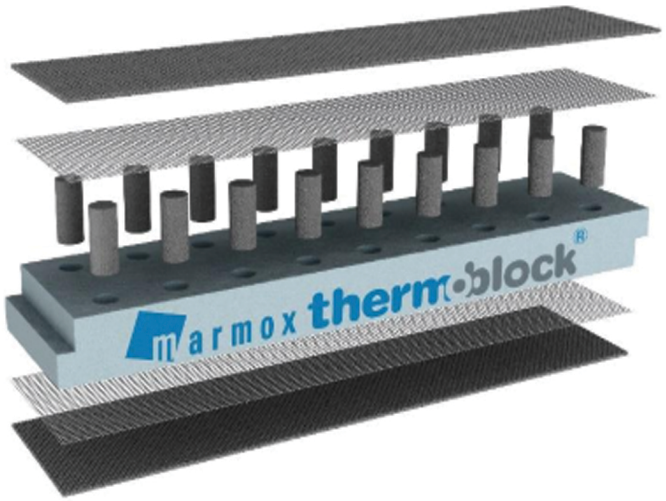


Foundation and roof perimeters are both locations in the building thermal envelope where heat is lost due to thermal bridging. Thermoblock® reduces energy lost by thermal bridging, providing continuous insulation at the base of a wall, slab edge or roof parapet intersection where insulation is normally interrupted. Thermoblock® has a thermal conductivity 2 times lower than timber and 30 times lower than concrete.

THERMAL™ BRIDGING SOLUTIONS

The Design Standard...

Thermoblock® is comprised of a 2 ½" or 4' thick core of fire resistant XPS insulation encasing two rows of high strength, low conductive, epoxy-concrete columns.
The columns are fixed to the top and bottom surfaces of the block providing load transfer and a high compressive strength.
The surfaces are made of fiber reinforced polymer concrete incorporating the latest innovation in building material technology – Carbon Nano Tubes.



Thermoblock® can be used to support masonry, wood or steel framed walls and parapets. Unlike other closed cell, foam type thermal break materials, Thermoblock® safely transfers load without deflection or long term creep. The top and bottom material surfaces provide for a mortar bond in masonry applications.
The width of the thermoblock should not be narrower than the wall or sill plate it is supporting. The thickness and corresponding R value is chosen based on the transition or interface design and the F factor or U value requirements by energy code and climate zone.

Physical Properties

TYPE	W	L	D	K	R
TBLK -1	4"	23 5/8"	2 ½"		5.5
TBLK -2			4"	0.46	8.8
TBLK -3	5 ½"	23 5/8"	2 ½"		4.4
TBLK -4			4"	0.46	8.8
TBLK -5	8 ½"	23 5/8"	2 ½"		4.4
TBLK -6			4"	0.46	8.8

Compressive Strength	ASTM D 1621	1,500 psi
Water Assumption	ATSM D 2812	0.2%
Thermal Conductivity	ASTM C518	0.46 / BTU/in/hr/ft^2/°F