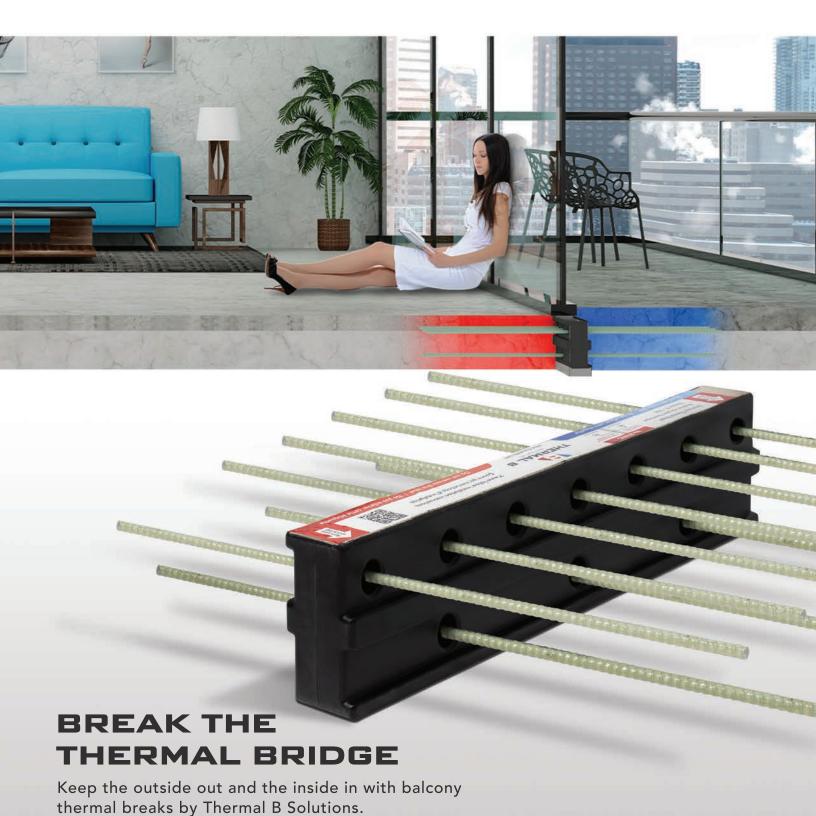


SOLUTIONS INC.



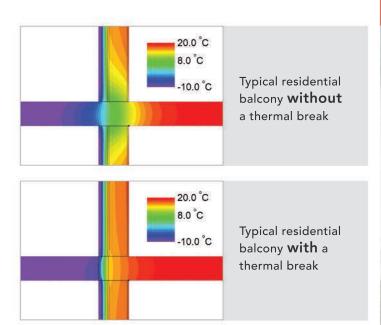


SAVE ENERGY. STAY COMFORTABLE.

Reducing heat transfer through balcony penetrations from outdoor concrete balconies to indoor living spaces, Thermal B Solutions is a significant tool in reducing a building's thermal energy demand while providing a more comfortable living environment with consistent floor temperature from edge to edge.

WHAT IS THERMAL BRIDGING?

In conventional building construction, a concrete balcony slab is simply an extension of the inside floor. The outside slab passes cold or heat through the concrete into the interior living space resulting in energy loss and uncomfortable living conditions.



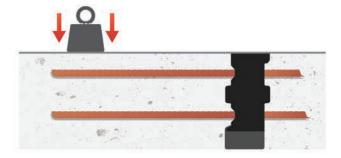
CREATING HEALTHIER ENVIRONMENTS

Bolstering the building envelope at the balcony connection using the TBS thermal break, reduces the likelihood of condensation and mould growth, creating a high quality living space that is healthier to live and breathe in.



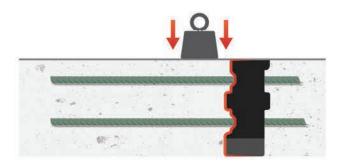
ENGINEERED STRUCTURAL INTEGRITY

Designed for concrete-to-concrete balcony connections, the TBS thermal break includes unique features that provide the required strength and stiffness.



FLEXURAL STRENGTH

The combination of high-strength GFRP rebars in tension and ultra-high performance concrete blocks in compression provides the necessary flexural strength.

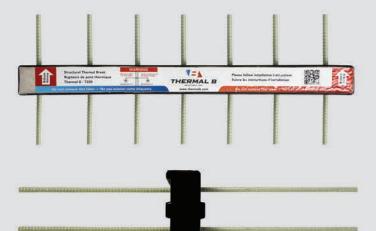


SHEAR STRENGTH

The concrete protrusions on each side of the thermal break act as shear locks and transfer shear forces from the balcony to the thermal break to the internal slab.

Combining the use of high-density insulating foam with low conductivity concrete breaks the transfer of heat and cold, using the TBS thermal break. This combination reduces energy demand by up to 15% without compromising structural integrity of the balcony.





75% INSULATING FOAM

25% LOW CONDUCTIVITY CONCRETE

#5-15MM GRADE III 1000MPa - 60GPa ASTM-D7957 15M. VER10

MADE WITH MST-BAR FIBERGLASS REBAR

MST-Bar is the leading fiberglass rebar that is ICC approved and ISO certified. MST-Bar is used globally for bridge construction, ICF construction, buildings, and parking garages. The integrated rib design along with the proprietary manufacturing formula gives MST-Bar strength that is 3X stronger than steel. Fiberglass is also a low thermal conductor which supports its use as a thermal break.









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