

An ACI Standard

Thermal Bridge Mitigation for Buildings Having Concrete and Masonry Walls and Masonry Veneer— Code Requirements and Commentary

Reported by Joint ACI-TMS Committee 122

ACI CODE-122.1-21



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This code prescribes minimum design and construction requirements for mitigating thermal bridges in the building envelopes of new buildings and additions to existing buildings. It applies to buildings having concrete or masonry walls; masonry veneer, including veneer attached to frame walls; and balconies or components that extend through the building envelope. It also has criteria for metal thermal bridges in these buildings.

This code is applicable to commercial and mid- to high-rise residential buildings that use either electricity or fossil fuel (regardless of the generation source). It can be used with applicable energy codes and standards.

Keywords: thermal bridge.

PREFACE

This code provides requirements for mitigation of thermal bridges for use with energy efficiency codes and standards that have been adopted by a jurisdiction, such as **ASHRAE/IES 90.1**, the IECC, or a state energy code. The code has three alternative paths: a prescriptive path, a building envelope trade-off methodology, and a whole building energy simulation trade-off methodology.

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