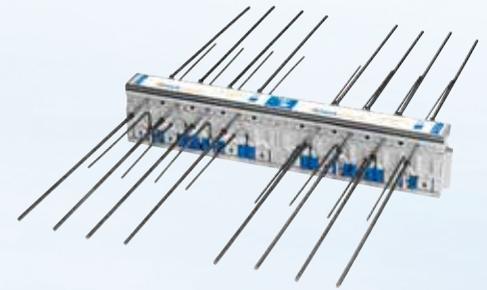




Chelsea Green luxury condominium is located in historic Chelsea neighborhood, New York.



Schöck Isokorb® type CM for concrete balcony connections.

Reference

Chelsea Green, 151 West 21st Street, New York, NY

Schöck's structural thermal break product contributes to the holistic, "healthy lifestyle" vision of New York City's Alfa Development

Just a few blocks from the High Line, the now-famous restored elevated railway bed that today sports pedestrian walkways amid a landscape of greenery chosen for its hardiness and sustainability, a 14-story building is rising in New York's historic Chelsea neighborhood that promises its future residents a better way to live.

Chelsea Green is a 14-story, luxury condominium by Alfa Development that has fused wellness with luxury to create the most luxurious advancement in energy efficiency, resource conservation and indoor air quality.

Every aspect of the 74,000 square foot concrete structure is designed to consider its impact on the environment, from the cabinets to the heating and cooling systems, the rainwater irrigation system and the green roof. Schöck Isokorb® type CM structural thermal break connec-

tions were installed in the balconies to further enhance the building's energy performance.

The structure contains 52 concrete-to-concrete Isokorb® structural thermal break elements installed on the ten, 7 ½ X 16 foot balconies; providing a solution to one of the most critical areas of energy loss in building construction: thermal bridges. These structural thermal breaks occur whenever there is a penetration of the building's envelope.

Each cantilevered balcony at Chelsea Green is an 8-inch-thick tapered concrete slab. "Traditional balcony attachments deal primarily with only the structural cantilever and as a result transmit exterior temperatures to the interior floor slabs, adding to the energy use of the unit," said Frank Mattiello, Senior Project Manager at Alpha Development. "This thermal bridge effect can be felt when walking barefoot in one's apartment, even when the heating or cooling systems are in operation."

Isokorb® thermal breaks provide load-bearing thermal insulation for these slabs and transfers bending moment stress and shear forces. Its integrated hanging and tensile



Interior and balcony view at Chelsea Green luxury condominiums.

reinforcement mitigates the use of other costly elements like stirrups or hooped mat. "Their modular configuration enables simple installation and submittal design," Mattiello added.

In a recent post to Schöck's blog, Omalawa Abdullah-Musa of Stephen B. Jacobs Group, Chelsea Green's architectural firm noted, "This is a major breakthrough for combating

thermal bridging in New York City residential buildings. Chelsea Green has set the tone for future projects and we are looking forward to working with Schöck and spreading the word about this innovative technology."

Alfa Development is currently installing Isokorb® structural thermal breaks in additional projects including 199 Mott Street, New York, NY.

Details:

Architect:	Stephen B. Jacobs Group
Structural Engineer:	WSP Cantor
Construction Company:	DJM Construction
Products:	Schöck Isokorb Type CM
Start of construction:	Winter 2011
End of construction:	Summer 2013



Schöck USA Inc.
 info@schock-us.com
 www.schock-us.com
 Phone: 855-572-4625

