

# Case Study



**Schöck USA, Inc.**  
500 Fifth Avenue, 4810  
New York, NY 10110  
Tel.: 855 572 4625  
E-mail: [press@schoeck.com](mailto:press@schoeck.com)

## **Reaching the Sky - Europe's tallest building incorporates Schöck thermal break technology**

**The unusual shape, size and characteristics of Mercury City Tower required careful planning and the design of a unique Isokorb® insulation element**

Some of Europe's most sophisticated buildings incorporate thermal break technology from Schöck, but the new Mercury City Tower in Moscow is, to date, possibly the most iconic and certainly the tallest to utilize the Isokorb®. Rising 1,070 feet above the Moscow skyline, the Mercury City Tower is currently the tallest building in Europe, beating London's Shard into second place by approximately 55 feet. This remarkable building is the centrepiece of an \$8.5 billion International Business Center development known as Moscow City, located about two and a half miles to the west of Red Square.

Mercury City Tower is built on a 150 acre site that used to be an old stone quarry area consisting of derelict factories and industrial complexes and will shortly become the first zone in Russia to combine business activity, living space and entertainment in one single development. Claimed to be the first truly sustainable building in Russia, it will house the offices of some of the world's leading companies; along with five-star hotels, luxury apartments,

prestigious clubs, fitness centres, fashion boutiques – even Moscow’s largest concert hall will be relocated there – it is effectively a city within a city.

A key design feature of the building is the use of inclined planes at various levels of the structure, which support vertical posts on which the facade cleaning system is installed. To prevent any of the risks associated with thermal bridging, it is necessary to separate the vertical posts from the thermal contour of the building. The unusual shape, size and characteristics of Mercury City required careful planning and the design of a unique Isokorb® insulation element which, in addition to its exceptional thermal performance requirements, also has to bear loads on two of the inclined planes.

The proven high technical performance values and adaptability of the Isokorb® range have been the main drivers in helping establish and maintain the leading market position for Schöck across Europe. In addition, significant attention has also been given to providing specifiers, structural engineers and contractors across all regions the highest level of design and technical input.

For more information please contact Schöck USA Inc. at 855 572 4625 or visit [www.schock-us.com](http://www.schock-us.com).

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#### Notes to the editor

Schöck Bauteile: The Leading Thermal Break Supplier.

Schöck develops and produces innovative components, solving thermal bridges and impact noise in buildings. For almost thirty years, the Schöck Isokorb product range has led the market in providing exceptionally high performance thermal break and reinforcement solutions for houses, industrial

and commercial buildings with balcony, canopy, and beam connections. Schöck Isokorb type CM and S provide solutions to prevent thermal bridging and allow design freedom for concrete-to-concrete and steel-to-steel cantilever connections.

The Schöck group of companies had over 36 million linear feet installed with headquarters in southern Germany. Schöck provides high-quality, easy-to-install products with the highest level of technical back-up and comprehensive customer service to the construction industry – for simply better building.

approx. 3,445 characters

### **Details**

**Project:** Mercury City Tower, Moscow

**Architect:** M.M.Posokhin, Frank Williams and partners, G.L.Sirota

**Structural Engineer:** OSK Mosprojekt 2

**Construction Company:** LLC Rasen Stroy

**Products:** Schöck Isokorb

**Start of construction:** 2006

**End of construction:** 2012

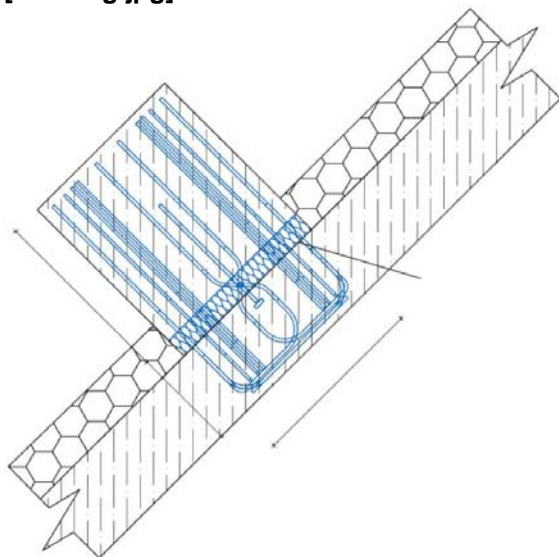
## Project Photographs

[Isokorb Installation.jpg]



*The unusual shape, size and characteristics of Mercury City required careful planning and the design of a unique Isokorb® insulation element.*

[Drawing.jpg]



*In addition to its exceptional thermal performance requirements, the Isokorb® also has to bear loads on two of the inclined planes.*

[Tower under Construction.jpg]



*The Mercury City Tower is built on a 150 acre site that used to be an old stone quarry area consisting of derelict factories and industrial complexes, and will shortly become the first zone in Russia to combine business activity, living space and entertainment in one single development.*

[Skyline.jpg]



*Rising 1,070 feet above the Moscow skyline, the Mercury City Tower is currently the tallest building in Europe and includes Schöck Isokorb®.*

Media Inquires:

**Schöck**  
Rosa Weimer  
Telephone: +49 7223 967 410  
Mail: [press@schoeck.com](mailto:press@schoeck.com)  
[www.schock-us.com](http://www.schock-us.com)

**Counsel Public Affairs**  
Dorenda McNeil  
Telephone: +1 416 961 5895 x 216  
Mail: [dmcneil@counselpa.com](mailto:dmcneil@counselpa.com)  
[www.counselpa.com](http://www.counselpa.com)