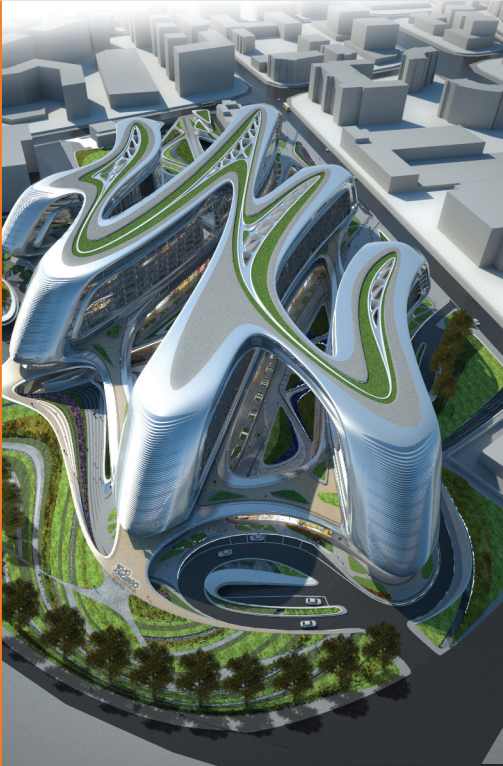


Thornton Tomasetti

Building Solutions

Building Skin



Building Skin

Our multidisciplinary team of building skin specialists has decades of experience providing design, consulting, engineering and construction support to clients around the world. We integrate building skin and structural designs in new buildings, renovations and re-cladding projects, with scope and service offerings that can be tailored to accommodate the specific needs and budget of any project.

As architects push building forms into new territory, building skin designs have evolved to meet new geometric complexities. Faceted designs and thinner, more delicate enclosures are becoming the norm. These aesthetic qualities must be achieved without sacrificing performance requirements dictated by unique local conditions, sustainability objectives, demanding schedules and budget constraints.

We provide façade consulting and engineering services to architects, building owners and developers at all project stages. We offer a

suite of specialty analyses, either as stand-alone services or as part of a broader scope, that solve complex design challenges, improve constructability, maximize energy efficiency and increase security. We also perform a range of construction support consulting services to assist contractors during bidding, negotiation, value engineering, post-contract review and site supervision.

Building skins vary as widely as an architect's imagination, with equally diverse solutions by engineers, contractors and manufacturers. Our expertise in systems and materials ranges from traditional curtain walls to innovative custom design solutions. Our capabilities in 3D parametric and building information modeling allow us to work directly with a variety of manufacturers worldwide on design, consulting, engineering and installation of these systems.



From left: Victoria Circle, London (courtesy PLP Architecture); Basrah Sport City's main stadium façade, Basrah, Iraq.

Façade Consulting

Material Research & Concept Design
Schematic Design & Engineering
Detailed Design & Engineering
Bidding & Value Engineering
Construction Administration
Glass & Façade Failure Investigation

Specialty Skin Analysis

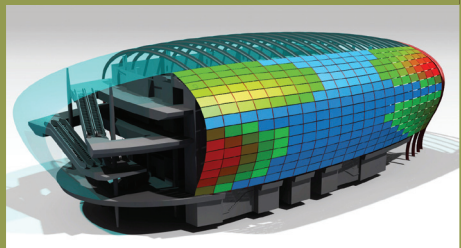
Advanced Geometry Analysis
Skin Structural Analysis
Thermal & Daylighting Analysis
Blast & Security Analysis

Skin Construction Support

BIM for Building Skin
Contractor Support
Façade Commissioning & Peer Review
Test Laboratory Observation

Materials & Systems

Curtain Wall & Window Wall Systems
Structural Glass
Membrane Structures
Composites
Cladding Systems
Cable Nets & Tensegrity Systems



Images, from top: Tencent Headquarters, Shenzhen, China (courtesy NBBJ); Federation of Korean Industries Headquarters, Seoul, South Korea; Chelsea Modern, New York City (courtesy Audrey Matlock Architect); Federation Tower, Moscow (courtesy Enka).

Firm Overview

Practice Areas

Building Structure

Building Skin

Building Performance

Construction Support Services

Property Loss Consulting

Building Sustainability

Thornton Tomasetti provides engineering design, investigation and analysis services to clients worldwide on projects of every size and level of complexity. Our six integrated practices address the full life cycle of structures.

Founded in 1956, today Thornton Tomasetti is a 700-person organization of engineers and architects collaborating from offices across the United States and in Asia-Pacific, Europe, Latin America and the Middle East.

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