
WORLD TRADE CENTER TOWER 7

New York, New York, U.S.A.



TYPE OF PROJECT:	New Construction
BUILDING TYPE:	Commercial
OWNER/CLIENT:	Silverstein Properties, Inc.
ARCHITECT:	Skidmore, Owings & Merrill LLP
START DATE:	2003
COMPLETION DATE:	2007
FLOORS:	52
HEIGHT:	741 ft
TOTAL SQUARE FEET:	1.68 Million
USGBC® RATING:	LEED Gold
SERVICES:	Exterior Wall, Roofing and Waterproofing Consulting, Blast Mitigation, Energy Conservation, and Flood Mitigation Consulting



7 World Trade Center has been a fresh image representing new growth in downtown Manhattan. This 52-story tower is a model of simple form and functional representation, but moves beyond these precedents through contemporary building enhancements that have created a new model for life safety and sustainable design. It was the first building in New York City at the time to receive a U.S. Green Building Council Gold Certified rating. As one of the first buildings to be completed near the World Trade Center site after September 11, and as the building envelope consultants, Vidaris worked closely with architect Skidmore, Owings & Merrill (SOM) to ensure that this building was not only sustainable, but safe. Vidaris monitored the blast mitigation for the glass and cable net wall testing. The curtainwall employs a low-iron glass with a reflective glass cladding and blue stainless steel trim, designed to reflect and transmit light which produced a highly variable façade. The highly luminous façade includes glass panels that overlap the building's floor plates and a spandrel system that reflects light from behind the panels, creating light. The storefront or lobby utilized a blast mitigated cable net curtainwall system.

Vidaris was also retained by Silverstein to provide Flood Mitigation Consulting Services at existing ground floor pedestrian and overhead doors, and basement level spaces. Our consulting services consist of: shop drawing review and coordination; anchorage details; mock-up reviews; inspections; design of cellar level strategies including floodproof doors and structural hardening and waterproofing of existing walls; and, peer review of flood mitigation strategies for the ConEd Substation.