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ARCHITECTURAL ELEMENTS

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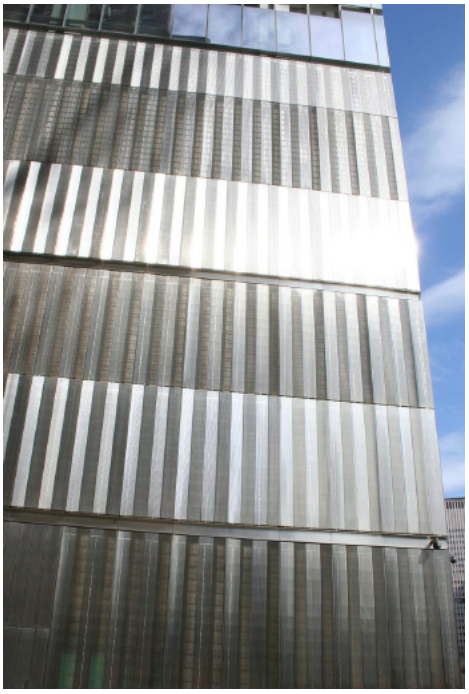
7 World Trade Center — Building from the Ground Up

Needing a building product that would be blast-resistant and able to mask and ventilate a power substation, designers of the 7 World Trade Center in New York, NY, USA, turned to Johnson Architectural Elements to create a stainless exterior panel that would be functional, as well as decorative.

U.S. Patent No. 7,303,078

SPECIFICATIONS

- Exterior double-layered podium panels that provide ventilation for electrical transformers in the lower levels
- 80 ft. tall stainless steel podium wall that is blast-resistant
- LED lights that change from white to cobalt blue and reflect off of the angled wires
- 58,000 sq. ft. of screen
- Exterior layer contains 124 miles of 1/2 in. Tri-Wire and 6.7 miles of 1 in. x 1/4 in. Strip Rod
- Interior layer contains 226 miles of 1/4 in. Tri-Wire and 12.6 miles of 1 in. x 3/8 in. Strip Rod
- Patented dual-screen design with wires in a different orientation to alter the reflectivity of the screen, house a lighting system and integrate a support frame that can connect to the surface of the structure.



"During daylight hours, the outer layer of triangular wire reflects direct and ambient light from the building's immediate surroundings in a dynamic way. At night, the outer layer of wire becomes a scrim through which the inner layer becomes visible. The LEDs, affixed to the back of the outer layer at the panels' intersections, project light onto the inner layer of wire. The inner layer of wire is also set at alternating angles. These angles cause the light to be reflected within the cavity and projected back out through the outer wire, amplifying the glowing quality of the light visible on the inner wire's glass-bead-blasted surface and again visually superseding any view into and through the transformer vaults."

— Podium Wall Designer, James Carpenter "Environmental Refractions"

Owner:	Port Authority of New York and New Jersey
Client:	Silverstein Properties and Consolidated Edison Co.
Location:	New York, NY, USA
Architect:	Skidmore, Owings & Merrill LLP
Construction Manager/ Contractor:	Tishman Construction Corp. of New York
Podium Wall Designer:	James Carpenter Design Associates, Inc.
Cable-Net Wall Engineer:	Schlaich, Bergermann and Partners
Lighting Consultant:	Cline Bettridge, Bernstein Lighting Design, Inc.
Landscape Consultant:	Ken Smith, Landscape Architect
Structural Engineer:	Cantor Seinuk Group

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