



JANE'S CAROUSEL IN BROOKLYN

BATOR CONSTRUCTS IN PARTNERSHIP WITH JEAN NOUVEL.

On the East River, between the Brooklyn Bridge and Manhattan Bridge, doors constructed by BATOR add the finishing touches to a striking, yet intricate structure.

THE SETTING

A glass pavilion, by leading star architect Jean Nouvel, is to house a stunningly beautiful, historic carousel. Built in 1922 by the Philadelphia Toboggan Company, the carousel has now been lovingly restored by Jane Walentas.

The light-suffused cuboid will have a floor area measuring approx. 82 x 82 ft. and will be just under 33 ft. high. The east and west-facing facade of the steel-framed design will be enclosed with solid acrylic panels.

DESIGN

Door Type	Bottom-running, automatic sliding folding door, 2 door leaves, each with a barrier-free escape door
Dimensions w x h	82 x 33 ft.
Production Time	9 weeks

THE COMMISSION

BATOR was tasked with the construction and installation of a full-width sliding folding door along the entire height of both the north and south-facing pavilion side.

The doors were also to have a continuous 1 inch thick, solid acrylic flush-mounted infill panel. Constituting a particular challenge, it was necessary to design the drive mechanism so as to be completely invisible. In addition, the floor channels were to close upon the opening of the doors. And finally, the doors needed to withstand the climatic conditions, i.e. extreme temperature fluctuations, strong winds and salt-laden air.

COATING

DOOR ELEMENTS	Duplex (galvanized and powder coated)
LOWER TRACK / OTHER ELEMENTS	Stainless steel quality V2A

THE OUTCOME

After two years of intensive design work with the renowned architectural consultancy, the doors were produced in the short space of nine weeks.

In the spring of 2011, 55 tons of material and associated equipment were air freighted from the production facility in Herzogenbuchsee to the construction site. Specialists from BATOR also arrived at the same time to fit the doors within a matter of weeks.

At the opening ceremony in mid-September, New York City Mayor Michael Bloomberg presented the approx. 12 million dollar construction to the public. Since then, the pavilion has attracted over 3,000 visitors daily.

DRIVES

SLIDING FOLDING DOOR	2 BATOR linear drives, 0.18 kW, reinforced
DOOR LEAVES	2 linear drives, 120 V
FLOOR FLAPS	20 x 24 V linear actuators installed in the lower track
CONTROL SYSTEM	Operator Presence Control PLC
SPEED	2 x 1 ft. / sec.
ENERGY CHAIN	Integrated in the upper track along the entire length



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