

505 Brannan

San Francisco, CA, USA

Project Data Sheet

NOVUM



Specifications

Project: 505 Brannan
Application: Facade
Location: San Francisco, CA, USA
Size: 3,400 ft² / 320 m²
Architect: Heller Manus

Novum Systems

Structural

AES: To provide a minimal cross section, a custom Advanced Fabricated Steel Section is used for the architecturally exposed steel used to support the wall. These painted steel sections are created by welding steel plates together to create a custom I shape. The size of the plates needed is based on the structural requirements of the wall, and not based on what standard rolled sections exist in the steel market. By building custom sections, a minimal cross section is achieved.

Glazing

LSG: The glass is mounted directly to the steel cross section using the Novum Linear Supported Glazing System. Since an Advanced Fabricated Steel Section was used, the steel tolerances are very tight and similar to the small tolerances of the glass. To create the connection between the glass and the steel, a toggle was used. The toggle engages the glass along channels that run the entire vertical length of the panel. The glazing used on the project is laminated and low iron glass.



Design Solution

Novum helped through a Designer Assist process to develop, fabricate and install this fantastic two-story lobby façade for the new 505 Brannan building in downtown San Francisco, CA. Heller Manus Architects desired a highly transparent wall with very large glass panels at 26'-2" tall by 7'-6" wide. To keep the glass as clear as possible, low iron glass is used in the laminated glass makeup. To support the glass, a Novum Linear Supported Glass System is used along the vertical joints in the 26'-2" dimension of the panels. This allowed for the large glass panels to be sized economically, as the glass is only structurally spanning in the 7'-6" direction. For structural support along the vertical joints, the Novum Architecturally Exposed Steel System is used to support the wall. A vertical steel member is located behind each vertical joint. To create a minimal profile for the vertical steel member, a custom I shape was specifically developed for the project. The vertical steel member is made from multiple steel bars and plates that are combined to create an Advanced Fabricated Steel Section. The custom cross section was created based on what was needed for the specific geometry and loading for the 505 Brannan lobby wall.

