

# East Gate of Odawara Festival



Year: 1990  
Location: Japan  
Program: Culture and Leisure

Status: Completed  
Type: Temporary  
Structure: Paper Tube Structure

Because building codes did not require official permits for the construction of gates, the East Gate of the Odawara Festival was able to become a real paper tube structure. In this Vierendeel gate structure, the primary structural members were the paper tubes, which were connected by steel joints and braced by steel tensile members. Post-tensioned members also ran within the tubes, further stabilizing the structure.