

Method of Wind Tunnel Test for Evaluation of Wind Load on Platform Shed

Minoru SUZUKI Katsuhiro KIKUCHI Katsuyuki SHIMIZU

Platform shed constructed at ground level is classified as a building in a free-standing canopy roofs. Since these roofs are supported by columns and no walls, wind exerts its force directly on both the top and bottom roof surfaces. In addition the wind forces on the roofs are influenced by many factors such as roof shapes, blockage arrangements under the roof and wind directions. In general the wind load acting on these roofs is larger than that of enclosed building roofs. In this report, wind tunnel tests were conducted on two types of roof geometries, i.e. typical butterfly roof type and mono-sloped roof to evaluate the peak wind force coefficient.