

Effect of Opening on Walls of Small Train Sheds on Wind Pressure and Response of Shed Members

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It is important to evaluate wind loads on small train sheds constructed on passenger platforms, since they have relatively light mass and both upper and lower surfaces of the roofs are exposed to the wind. In this study, we examined differences in forms, conducting wind tunnel tests and frame analyses using the results of the wind tunnel test for small train sheds, and obtained following findings. Wind loads acting on the sheds and the stress of their members produced by the wind loads are smaller as the openings formed in the back walls of the sheds are larger, but do not depend on the arrangement of the openings.