

Wind Protection Effect by the Wall for a Vehicle with Strong Wind

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Parapets, noise barriers and through girders which have a solidity ratio of 100% are not built for the wind protection. Hereafter, parapets, noise barriers and through girders are referred to as the wall. However, a wind protection effect can be expected as long as the height of the wall and the distance between the wall and the vehicle meet certain criteria. Then, in order to confirm the wind protection effect, a wind tunnel tests were carried out. As a result, the conditions under which the wall has the wind protection effect equivalent to the windbreak fence (60% solidity) were clarified. In this paper, we report these conditions.