

**Evaluation Method of Buckling Resistances of Steel Members based
on the Performance Based Design Method**

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In designs of steel structures, it is important to evaluate accurately the buckling resistances of steel members. In the performance based design method, the more general evaluation method that can be applied to various steel materials is needed. In this paper, we review the problems of the evaluation method provided by the previous design standard and newly propose the evaluation method of the buckling resistances of the steel members. We calculate provisionally the resistances of various steel members by using the proposed method. As a result, we confirm that the calculation results roughly correspond the results by using the previous method.