STUDY COMPARASSION SOME SECTION OF BUCKLING RESTRAINED BRACES ON STELL BUILDING BY USE ABAQUS V 6.7 CAUSED BY EARTHQUAKE LOAD

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Abstract

Buckling Resistant Brace (BRB) has a function which receives quake load on the building’s structure, so can reduce deflection on that structure. Beside that BRB can reduce the dimension of element’s structure so make it more economic.

This Final project compare three section of BRB that is square section, circle section and multibox section. From 10 th floor stell building taked one beam-colum structure which get maximum load for analyzed more deep by ABAQUS v 6.7. The parametric which used to compare that three section are deflection, stress and strain of each section. Beside that price of each section also used to compare that section.

Output from this final project are deformation, stress and strain of each section which have different value. According to the price, the most expensive section is multibox and then square section. And the cheapest is circle section.

Keyword : Buckling Resistant Brace; deformation; stress; strain.