

عنوان مقاله:

Comparing the behavior of confined HSC beams with AFRP sheets under bending

محل انتشار:

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خلاصه مقاله:

By increasing the use of FRP composites in civil engineering, they seem highly essential to be studied. The purpose of the study is comparison of the behavior of steel reinforced HSC beams which confined with AFRP sheets under bending. 12 steel reinforced HSC beams which confined with AFRP sheets (with different number of laminates) have been modeled. In addition three simple steel reinforced HSC beams have been modeled as the base of comparison. At the end behavior of aforementioned beams has been compared and corresponding graphs have been sketched. It concluded that maximum deflection in HSC beams reinforced with AFRP is higher than HSC beams reinforced with steel bars. Failure force of AFRP reinforced and covered HSC beams are much higher than steel reinforced

کلمات کلیدی:

HSC beams, AFRP sheets, Bending, Modeling

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