Kuat Tekan Dan Kuat Tarik Belah Sebagai Nilai Estimasi Kekuatan Sisa Pada Beton Serat Kasa Aluminiumakibat Variasi Suhu

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Author Order	2 of 2
Accreditation	
Abstract	This study was aimed to determine influence of temperature variation to the compressive strength and split cylinder strengthÃƒÂ,Ã‚Â of aluminium wire-mesh fibre concrete. Specimen was concrete cylinder with 15 cm in diameter and 30 cm in high, and the volumeÃƒÂ,Ã‚Â fraction of aluminium wire-mesh fibre was specified equal to 0.2%. Temperature variations applied in this research were 25oC (roomÃƒÂ,Ã‚Â temperature), 400oC and 800oC. The result showed that increasing of temperature had caused compressive strengthÃƒÂ,Ã‚Â reduction.Compressive strength at temperature 400oC and 800oC for both normal concrete and wire-mesh fibre concrete were equal toÃƒÂ,Ã‚Â 22.04%, 39.21%, 21.68% and 45.81%. Split cylinder test at temperature 400oC and 800oC for both normal concrete and wire-mesh fibreÃƒÂ,Ã‚Â concrete showed reduction which were equal to 20.36%, 51.27%, 21.98% and 56.30%. On the other hand modulus of elasticity reductionÃƒÂ,Ã‚Â at temperature 400oC and 800oC for both normal concrete and wire-mesh fibre concrete were 2.20%, 65.22%, 6.79% and 61.33%, whereÃƒÂ,Ã‚Â all of tests werecompared to normal concrete and wire-mesh fibre concrete at room temperature (25oC).
Publisher Name	Jenderal Soedirman University
Publish Date	2013-02-28
Publish Year	2013
Doi	DOI: 10.20884/1.dr.2013.9.1.98
Citation	
Source	Dinamika Rekayasa
Source Issue	Vol 9, No 1 (2013): Dinamika Rekayasa - Februari 2013
Source Page	21-28
Url	https://dinarek.unsoed.ac.id/jurnal/index.php/dinarek/article/view/98/pdf
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