

Pengaruh Fire Proofing pada Balok Beton Pasca Bakar

Title	Pengaruh Fire Proofing pada Balok Beton Pasca Bakar
Author Order	of
Accreditation	
Abstract	<p>Problem of building fire, which is often happened, cannot be avoided. Burning that happened generally reach temperature of above 200°C, what of course influence concrete strength. Concrete material will become brittle, spalling, and barest easy to and its strength is downhill effect of high temperature. In this research the specimens are cylinder shape of concrete and reinforced concrete beams. For this type of concrete cylinder specimens were made with size of 15 cm diameter and 30 cm high, while for the type of reinforced concrete beam specimens were made with size of 15 cm x 20 cm x 150 cm. Each type of specimen for each variety is made of 3 repetitions. Variations in temperature used are normal temperatures, 400°C, 600°C and 800°C. The results of research show that the use of fire proofing provide the value of concrete compressive strength better than the concrete without fire proofing. The fire proofing increased the compressive strength by 2.50%, 5.70% and 11.89% for temperature of 400°C, 600°C and 800°C respectively. While the influence of fire proofing on the flexural strength of reinforced concrete beams at the respective temperatures are 4.99%, 23.97% and 20.55%.</p>
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