
Examination Inspection of the Quantity of Strain Measurement by OSMOS Embedded in a Reinforced Concrete Specimen

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As a measure that contributes to the maintenance of reinforced concrete structures and on-site safety management, the application of OSMOS using an optical sensor was considered. In this study, in order to confirm the precision and reliability of data measured by OSMOS, this sensor was embedded in a reinforced concrete specimen and long-term data acquisition was performed. Strain data with a temperature change and the concrete autogenous-shrinkage inside the specimen from the casting of the concrete were obtained and evaluated, and inspection was performed.