
Applicability and Construction Example to the Seismic Strengthening of the Sheet Lining Method of Construction in Sewer Facilities

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For application to the repair/reinforcement method of old manholes by sheet lining method, bending tests using simulated deterioration specimens that have been repaired by this method were carried out. As a result, specimens repaired by this method were recovered at approximately 90% of cracking load and 100% of breaking load in comparison with the standard specimen. The strength of mortar and sheet material of this method has been confirmed to compensate or the loss of the reinforcing rods.

In addition, evaluation using dedicated software showed that earthquake-resistant concrete structures constructed according to this method would be able to resist the tension force and compensate for the lack of reinforcing rods.