

Zeitschrift: IABSE congress report = Rapport du congrès AIPC = IVBH
Kongressbericht

Band: 14 (1992)

Artikel: Effective protection against natural disasters

Autor: Lazovsky, D.N. / Avdoshka, A.V. / Maslennicov, S.D.

DOI: <https://doi.org/10.5169/seals-853220>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Siehe Rechtliche Hinweise.

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. Voir Informations légales.

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. See Legal notice.

Download PDF: 21.05.2025

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

**Effective Protection against Natural Disasters**

Protection efficace contre les catastrophes naturelles

Systeme zum effektiven Schutz gegen Naturkatastrophen

D.N. LAZOVKSYDocent
Novopolotsk Polytechn. Inst.
Novopolotsk, USSR**A.V. AVDOSHKA**Eng.
Novopolotsk Polytechn. Inst.
Novopolotsk, USSR**S.D. MASLENNICOV**Eng.
Novopolotsk Polytechn. Inst.
Novopolotsk, USSR

At interactions between concrete structures and dynamic loads during earthquakes, high temperatures, fire, aggressive surroundings, oil products, often reduces their load-carrying capacity : for further usage of such structures, they either have to be strengthened or change out-rigth.

At Novopolotsk polytechnic institute in Bielorussia was innovated new methods of reconstructions and reinforcing concrete construction LAM with in essence is a fast and effective solution to sush reconstruction problems.

Reconstruction methods LAM conditionally could be divided into four groups :

- devices for strengthening concrete beams which have lost anchorage with private steel reinforcement;**
- devices for strengthening concrete coloumns;**
- methods for reinforcing concrete slabs with multiple hollows;**
- local changes of prefabricated concrete slabs.**

Principal schemes of some of the methods are shown on figures 1;2;3.



Fig. 1

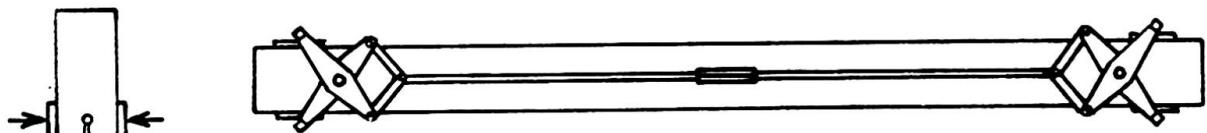


Fig. 2

Beneficial to already deformed constructions as a result of accidents, natural disasters or aggressive environments, witnesses the following quality indicators for any of these devices :

- 15-30 minutes for mounting;
- labour input 0,6-0,75 Man/hour for mounting;
- increase in load-bearing capacity 2-3 times.

Experimental and theoretical researches have been fully carried out with reinforced constructions. A set of project documentations and working guidelines with engineering drawings have been worked out.

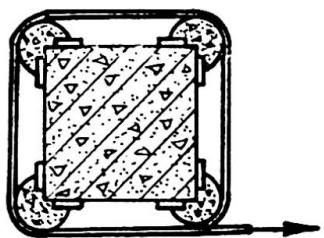


Fig. 3

Leere Seite
Blank page
Page vide