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Effective Protection against Natural Disasters

Protection efficace contre les catastrophes naturelles

Systeme zum effektiven Schutz gegen Naturkatastrophen

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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-right.

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 such 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 columns;
- 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

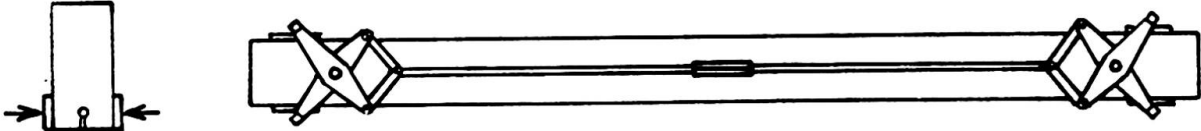


Fig. 2

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.

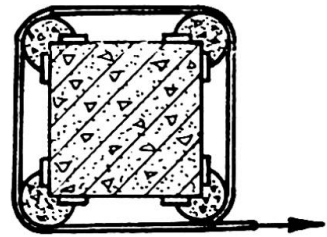


Fig. 3

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.

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