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INFLUENCE OF STRESSES IN A STRUCTURE ON THE LOK-TEST PULLOUT FORCE

The influence of stresses standing in a structure on the pullout force by the Lok-Test system was investigated.

200 mm cubes were prepared in 4 strength classes, ~5 Mpa, ~10 Mpa, ~28 Mpa and ~40 Mpa. Lok-Test inserts were cast-in the vertical faces of 200 mm cubes.

The cubes were loaded in the compression machine of the laboratory at various load levels up to about 60% of the failure load. At the various load levels Lok-Test was performed on a free surface of the cubes perpendicular to the direction of loading as indicated in fig. 1.

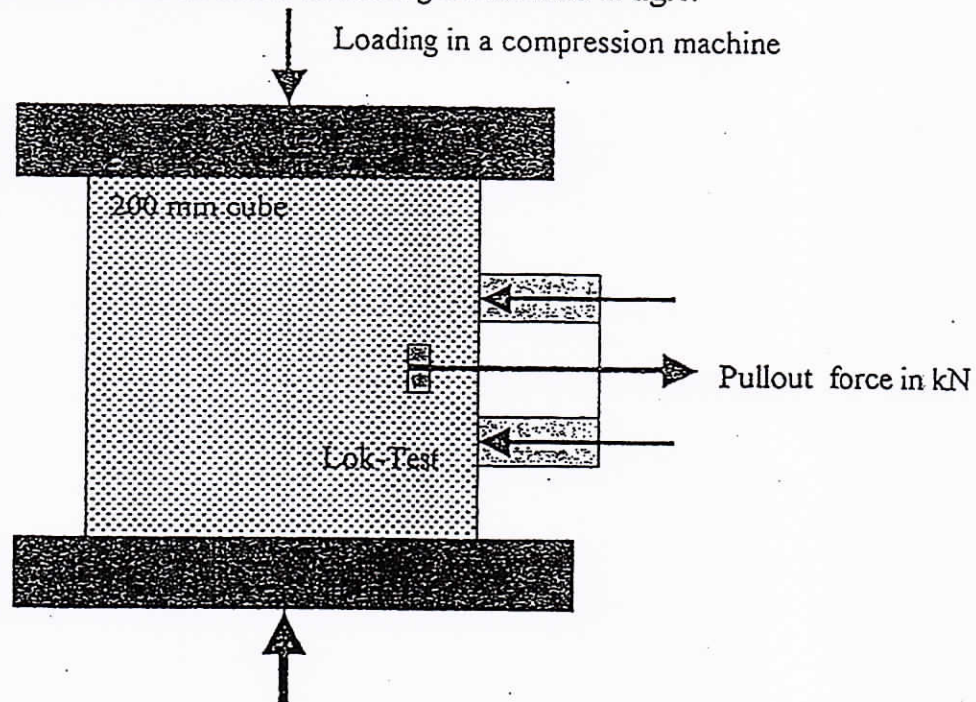


Fig1. Test set-up for investigating the influence on the Lok-Test pullout force of the stresses standing in a structure

The pullout forces measured in relation to the load levels in percentage are illustrated in the enclosed figure 2.

Conclusion

As will be seen from fig.2, the stresses standing in the cube, are not influencing the pullout force for the investigation made up to about 60% of the failure stresses.

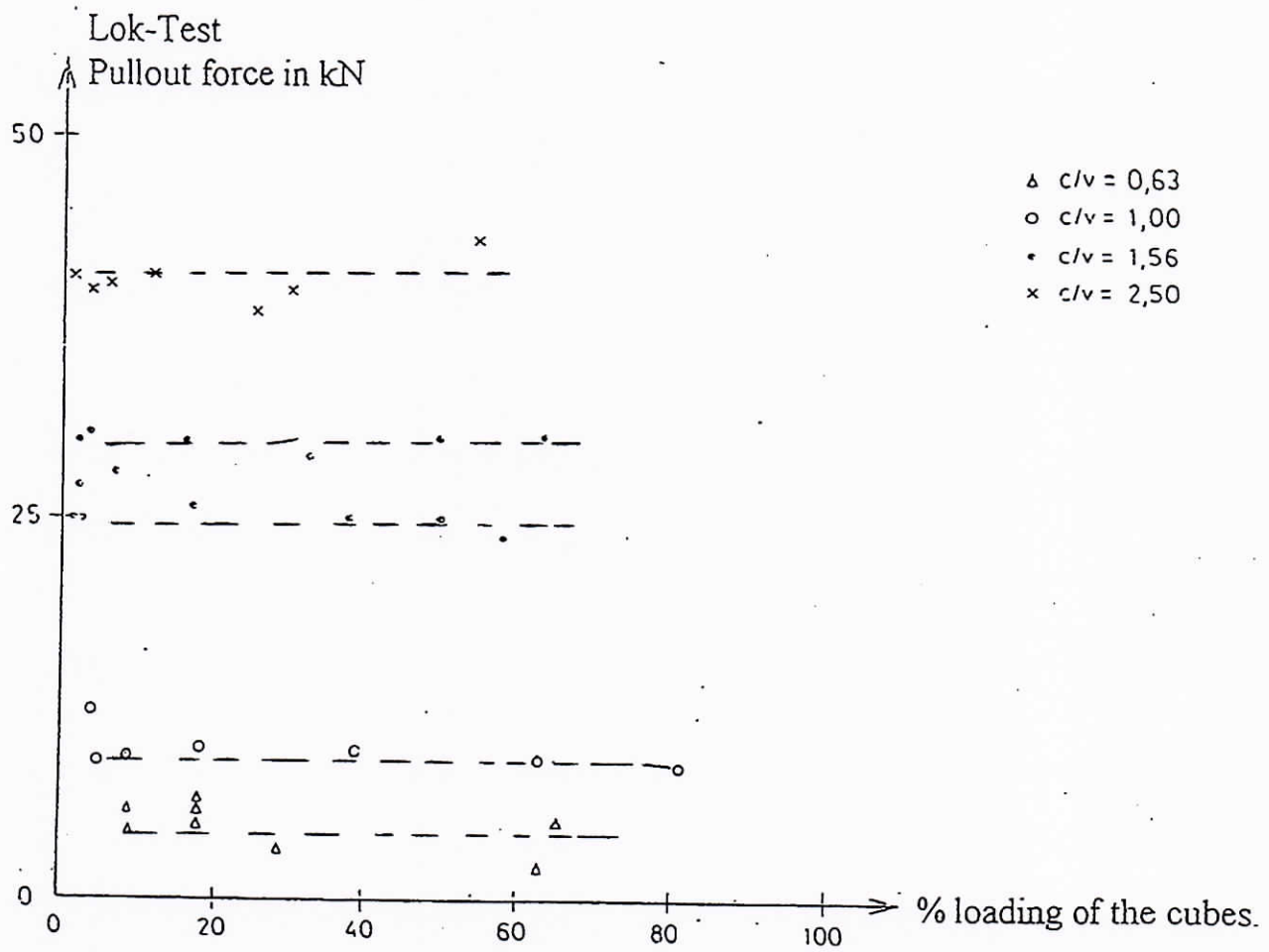


Fig. 2. The Lok-Test pullout force in kN in dependence of the stresses standing in a 200 mm-cube