



Fatigue resistance of anchors in concrete under shear load with lever arm

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Abstract. In the case of fatigue-relevant actions, bending stresses represent an unfavorable loading scenario particularly for threaded anchors, which may lead to a considerable reduction of the fatigue resistance of fastenings in concrete. As there is limited knowledge on this subject so far, the fatigue verification in the current design regulations is limited to shear loads without lever arm and the design of fasteners under cyclic shear loads acting with lever arm is not covered.

This paper presents the findings of an experimental study on the fatigue behavior of fastenings in concrete subjected to bending with regard to steel failure of the anchor. Post-installed bonded anchors of size M20 were tested in uncracked concrete C20/25, where the fatigue failure was characterized by formation of cracks in the area of the thread. The test program therefore included pulsating shear tests on single anchors with different lengths of lever arm. Within the experiments strain measurements were performed to analyze the bending strains in the anchor.

The test results were used to evaluate the fatigue resistance in relation to the nominal stress range acting in the edge fibre of the decisive cross-section that fails. A direct comparison with further fatigue data available from the literature shows that the fatigue strength for bending stresses is larger than for axial tension or pure shear stresses.

Keywords: Fastenings, Bonded Anchors, Fatigue, Shear Load, Steel failure, Bending Strength.

1 Introduction

In construction practice, steel connections to the concrete structure are often provided with a levelling layer of mortar between the anchor plate and the concrete surface or as a stand-off installation in which the anchor plate has no contact to the concrete. Fig. 1 shows typical applications including connections between steel plates and concrete foundations with a lower adjusting nut or fastenings of façade systems having a large distance to the base material through the insulation layer. If a shear load is applied in these cases, the anchors are subjected not only to shear forces, but also to additional bending moments due to the increased lever arm. Since the bending stress increases significantly with the eccentricity of the shear force, the capacity of such anchorages is usually limited by flexural failure of the anchor. Therefore, existing design provisions, e.g. EN 1992-4 [1] and fib Bulletin 58 [2], require a verification of the anchor resistance against steel failure under shear load with lever arm.

The fatigue design of anchorages is becoming important, where fasteners are exposed to repeated cyclic actions. Fatigue loads can be relevant for fastenings of elevators, cranes, crane girders, industrial robots, rotating machines or infrastructure systems. But also anchorages of façade systems that exhibit

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