

Safety Conditions Analysis of Scaffolding on Construction Sites

Authors : M. Pieńko, A. Robak, E. Błazik-Borowa, J. Szer

Abstract : This paper presents the results of analysis of 100 full-scale scaffolding structures in terms of compliance with legal acts and safety of use. In 2016 and 2017, authors examined scaffolds in Poland located at buildings which were at construction or renovation stage. The basic elements affecting the safety of scaffolding use such as anchors, supports, platforms, guardrails and toe-boards have been taken into account. All of these elements were checked in each of considered scaffolding. Based on the analyzed scaffoldings, the most common errors concerning assembly process and use of scaffolding were collected. Legal acts on the scaffoldings are not always clear, and this causes many issues. In practice, people realize how dangerous the use of incomplete scaffolds is only when the accident occurs. Despite the fact that the scaffolding should ensure the safety of its users, most accidents on construction sites are caused by fall from a height.

Keywords : façade scaffolds, load capacity, practice, safety of people

Conference Title : ICCEE 2018 : International Conference on Civil and Environmental Engineering

Conference Location : Melbourne, Australia

Conference Dates : February 01-02, 2018