EXPERIMENTAL INVESTIGATION INTO THE STRENGTH AND DEFORMABILITY OF CORRUGATED STEEL PROFILED SHEETS

In the paper the testing method and the results of experimental investigation into the strength and deformability of corrugated steel profiled sheets are derived. It was defined that the Eurocode methodology for trapezoidal profiled sheets testing may also be used for corrugated decking. The determined resistance of corrugated sheet suggests the possibility of using it as a load-bearing element or permanent shuttering in the construction of composite steel-concrete ceiling.

Keywords: cold-formed steel structures, decking, testing method, Eurocode.