

“Full scale tests of Racks under Vertical and Horizontal Load”

Title: Experimental investigation of pallet racking systems to vertical and pushover load

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Summary

Experimental investigations have been carried out on industrial shelves of 7,70 m height, four levels and two openings, which consist of cold-rolled thin sections. Tests under vertical static load and horizontal static load were performed to determine load bearing capacity. The behavior factors 1 have been determined from the experiments

Publications

Research Report EMK – TR 012018: Investigation of shelves under vertical load

Research Report EMK – TR 032018: Experimental investigation of shelves under horizontal load

Experimental investigations

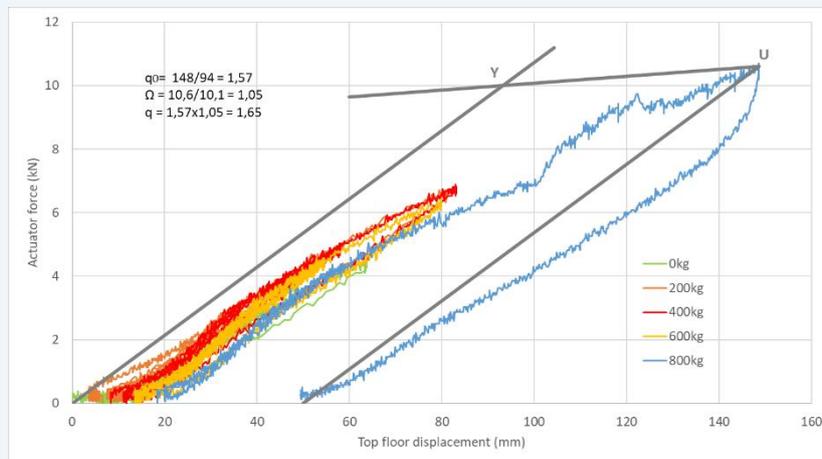
- Static tests under Vertical load
- Static tests under Horizontal load (push over)



Static test under horizontal loading



Static test under pushover loading



Determination of the Behavior Factor q from the tests