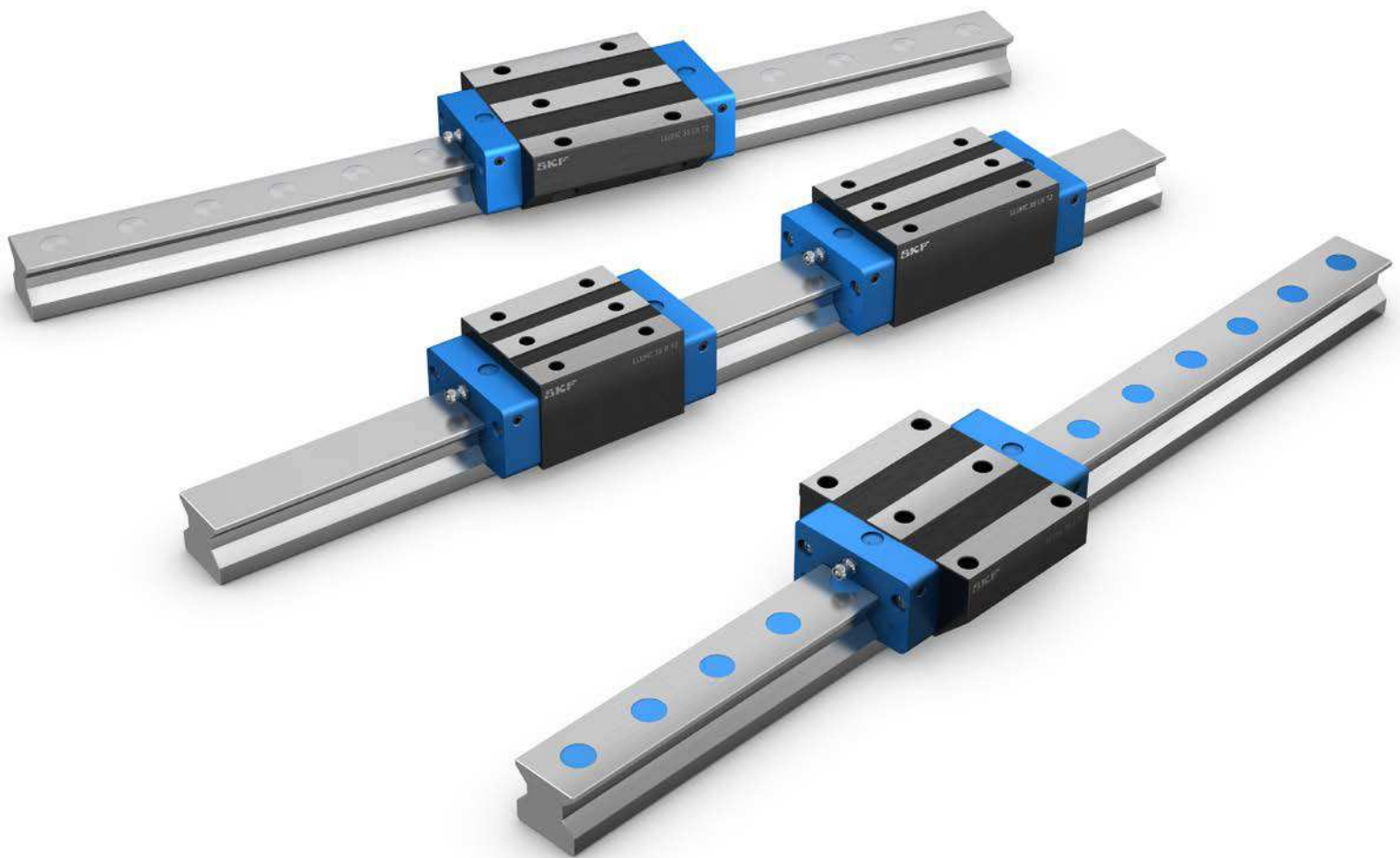


# Roller profile rail guide

LLU stiffness curves

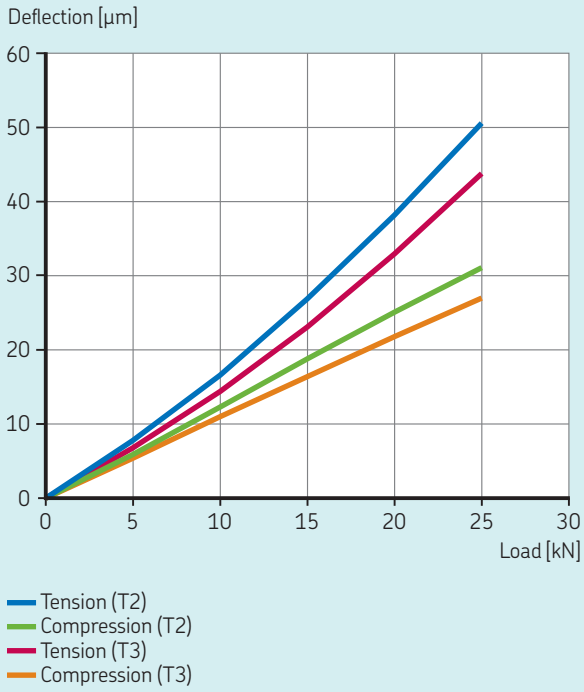


The rigidity is one of the most important criteria in product selection of LLU roller profile rail guides. Rigidity is defined as the deformation characteristics of a guidance system under external load. The rigidity of a system depends on the magnitude and direction of the external load, the type of guidance system (size, carriage type, preload) and the mechanical properties of adjacent support structure.

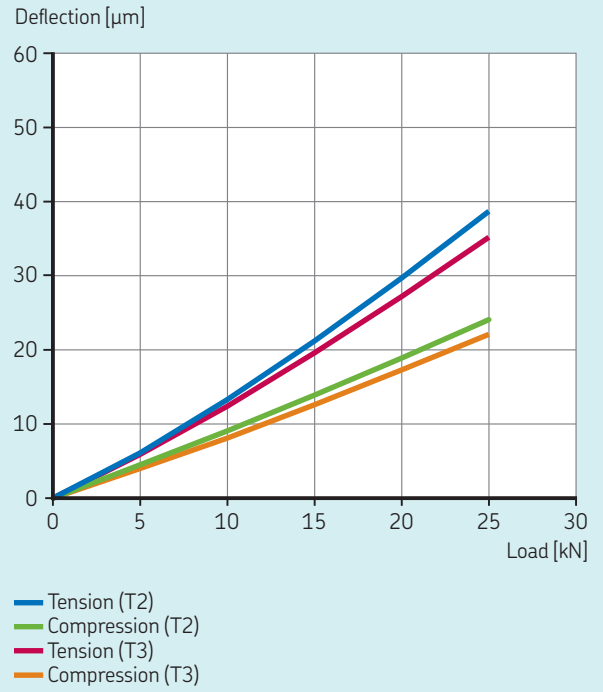
Following diagrams provide the behavior for each LLU carriage type in vertical tension and compression direction depending on their preload classes T2 and T3. Derived from the real application, the known external load with its orientation is to be put on horizontal axis "Load (kN)". Thus the amount of deflection can be easily read from the vertical coordinate "Deflection ( $\mu\text{m}$ )". The determined value indicates the deformation of the center of associated top datum plane on the carriage. This methodology assumes carefully mounted and adjusted linear guidance systems in appropriately machined surrounding mechanical structures with all attachment screw positions provided by carriage and rail in use.

Due to its nature, deflection is a complex phenomenon which might differ from case to case. Therefore values from diagram below can only give an indication of amount of deflection. In reality they can deviate to a certain extent from the information provided herewith.

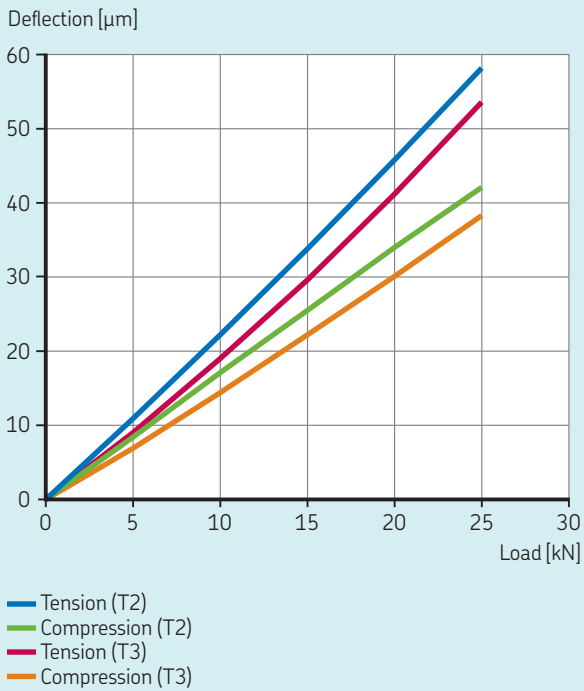
LLUHC 25 AT2 and T3



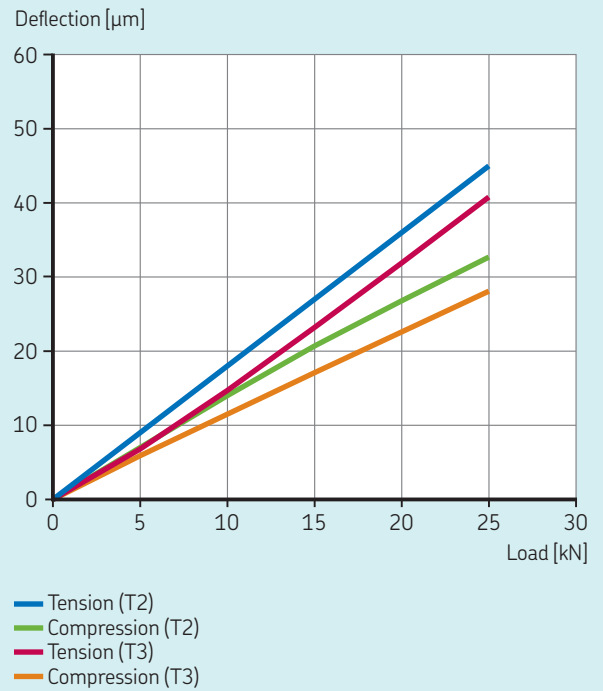
LLUHC 25 LAT2 and T3



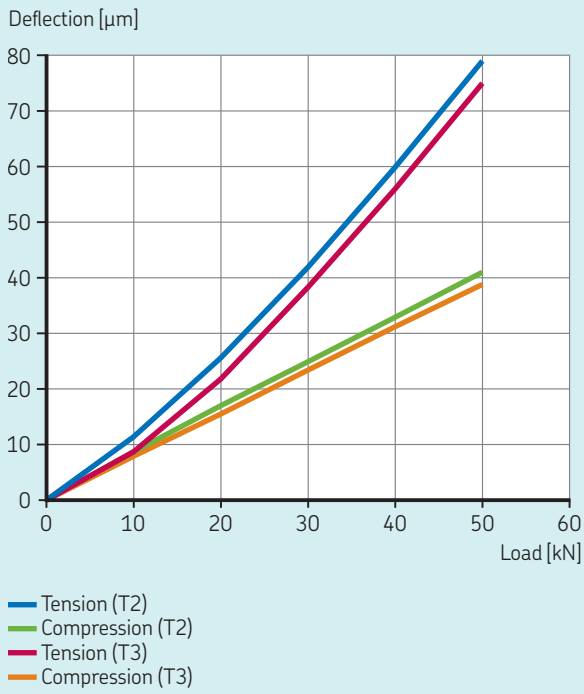
LLUHC 25 RT2 and T3



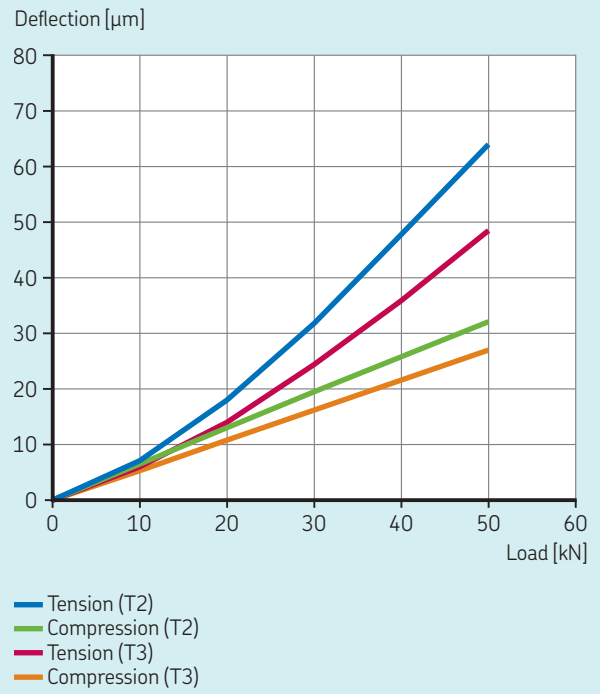
LLUHC 25 LRT2 and T3



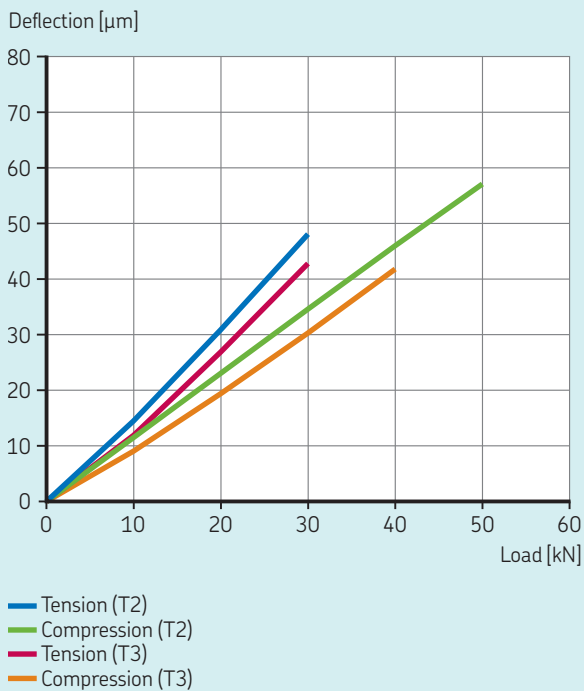
### LLUHC 35 A T2 and T3



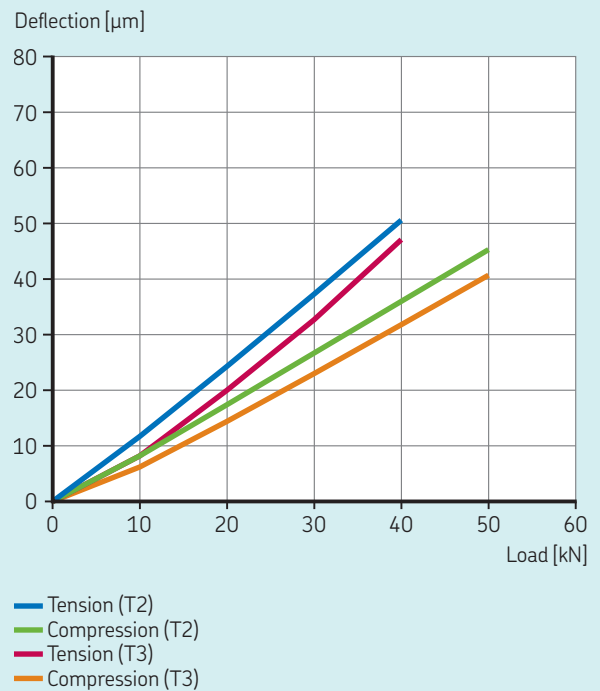
### LLUHC 35 LAT2 and T3



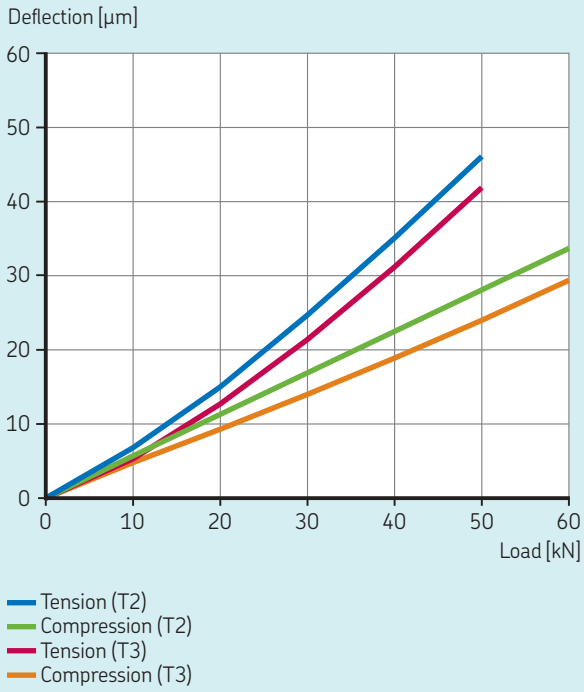
### LLUHC 35 R T2 and T3



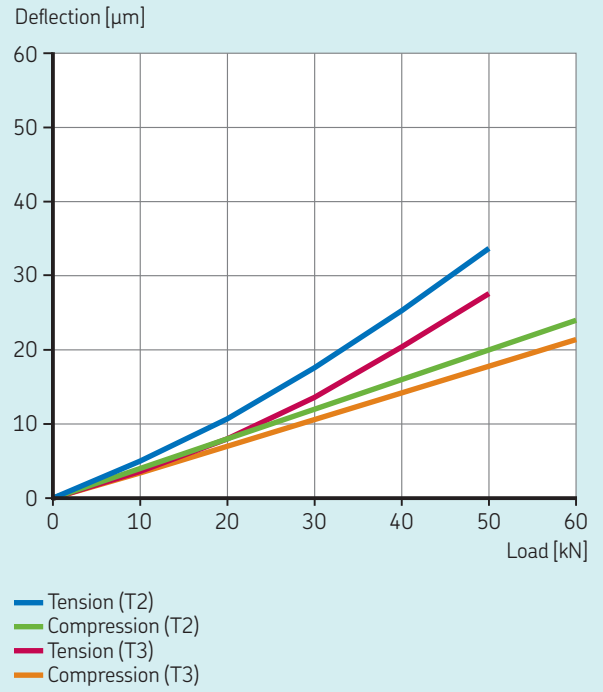
### LLUHC 35 LRT2 and T3



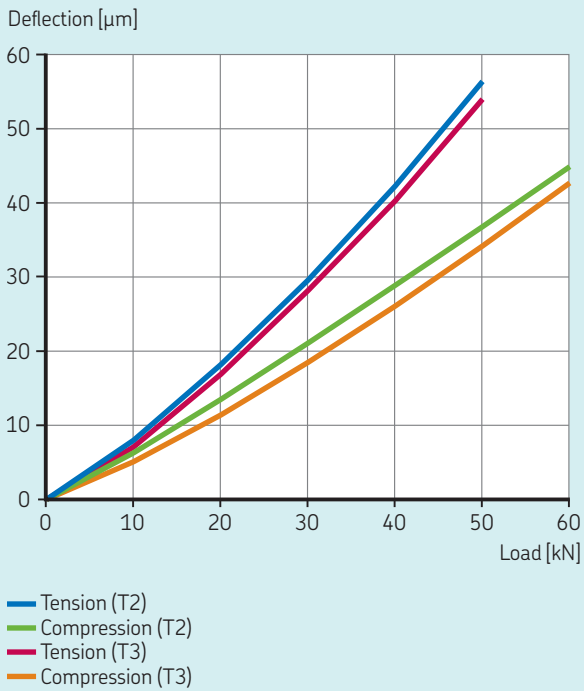
LLUHC 45 A T2 and T3



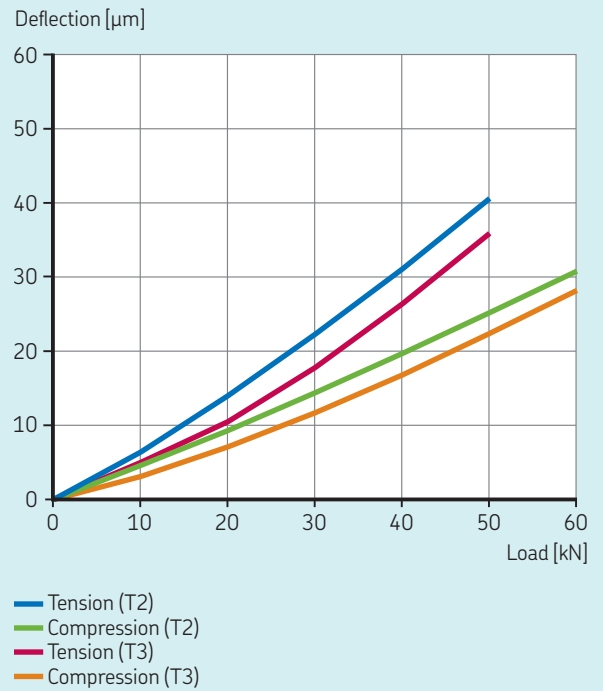
LLUHC 45 LAT2 and T3



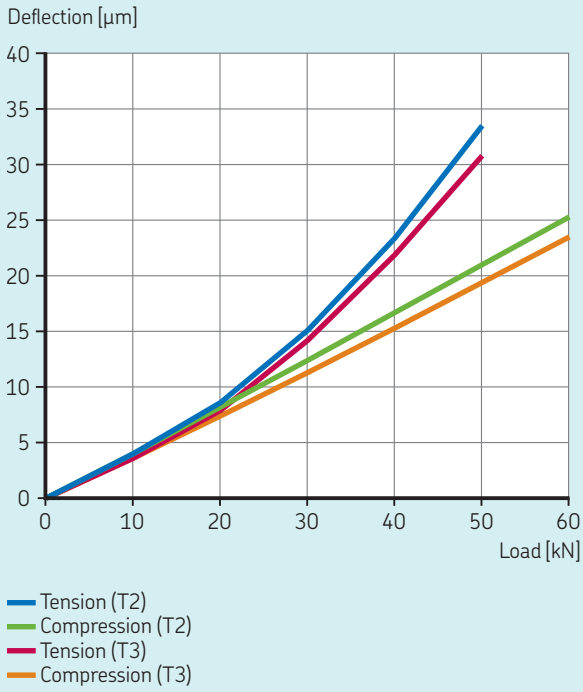
LLUHC 45 R T2 and T3



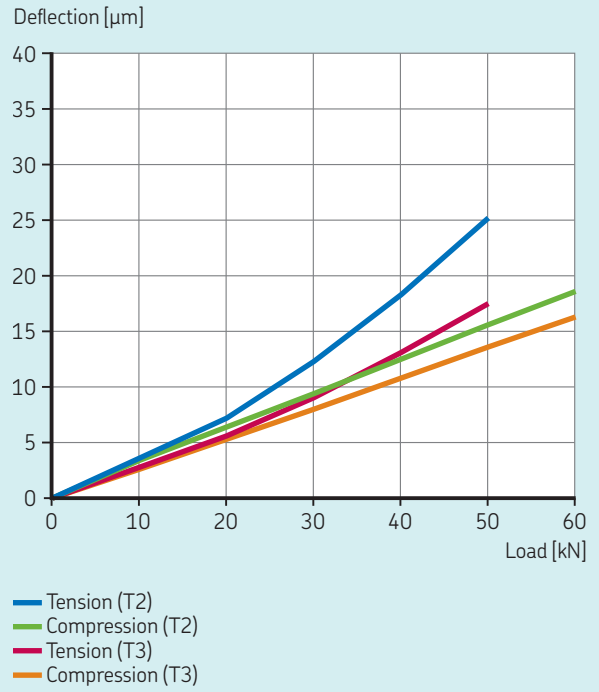
LLUHC 45 LR T2 and T3



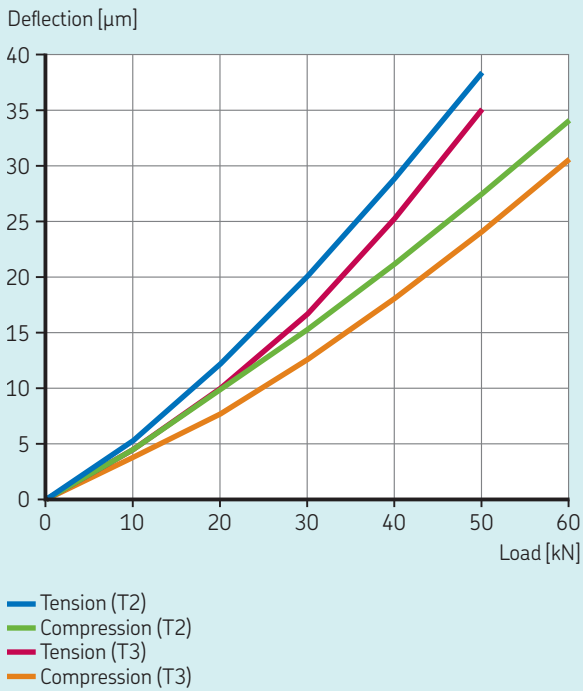
LLUHC 55 AT2 and T3



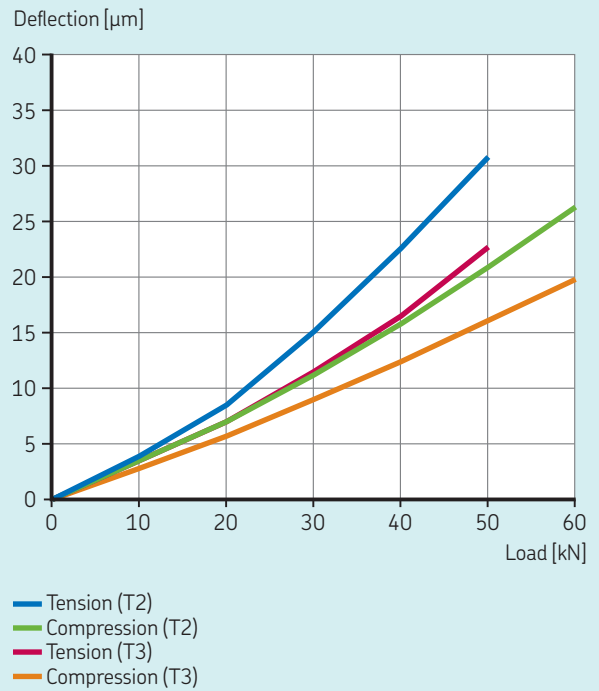
LLUHC 55 LAT2 and T3



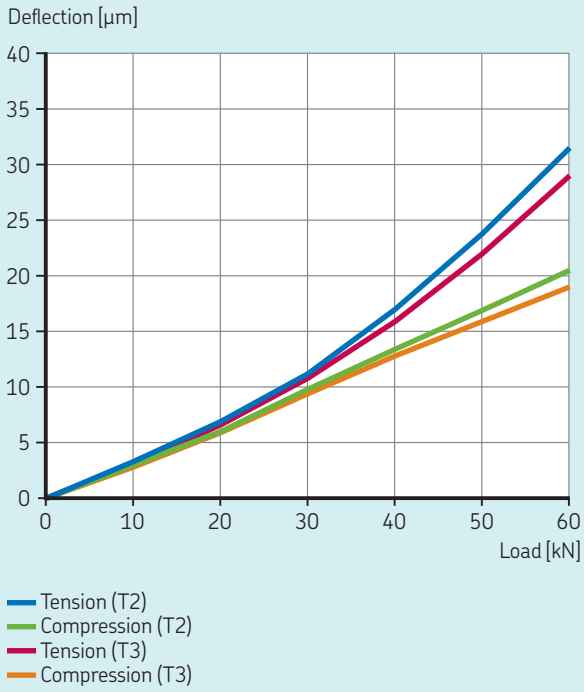
LLUHC 55 RT2 and T3



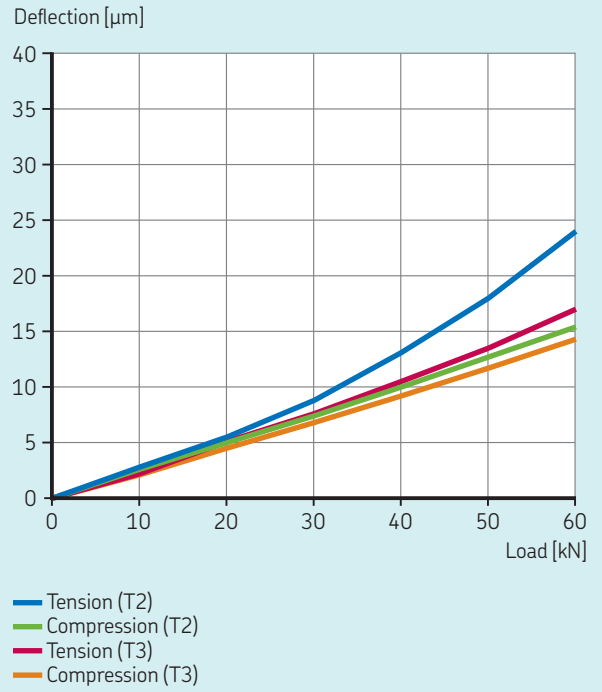
LLUHC 55 LRT2 and T3



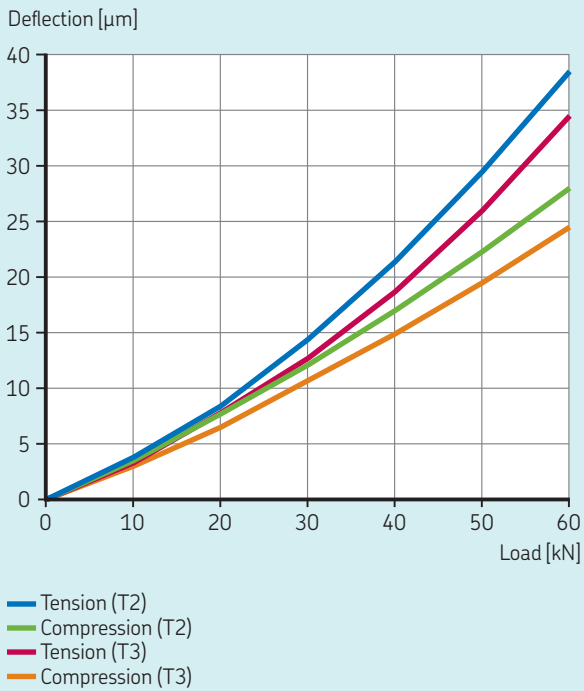
LLUHC 65 AT2 and T3



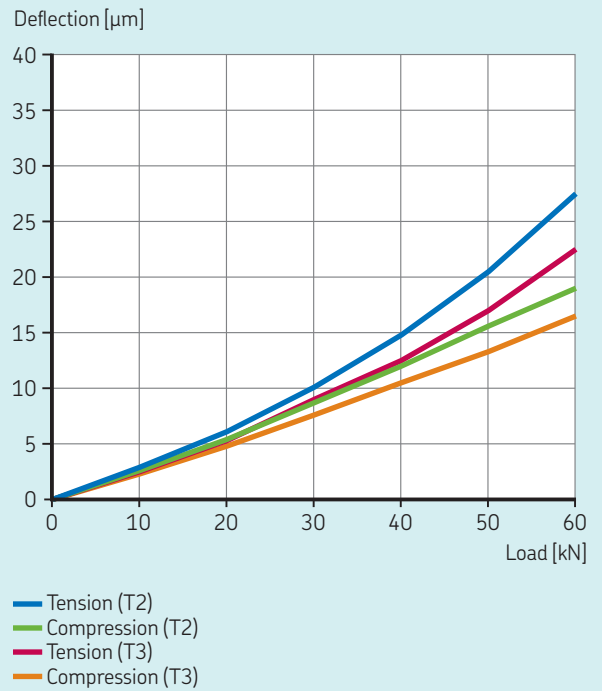
LLUHC 65 LAT2 and T3



LLUHC 65 RT2 and T3



LLUHC 65 LR T2 and T3





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