Elastomer NOVODAMP®

NOVODAMP® Closed-Cell Polyurethane is the premium solution for elastic support and vibration isolation for buildings and rail infrastructure. Developed and manufactured in Germany under the strictest quality controls, NOVODAMP® ensures durable, reliable, and precisely engineered performance for demanding applications.

NOVODAMP® T045

NOVODAMP® Closed-Cell Polyurethane T045 is the premium solution for elastic support and vibration isolation in buildings, rail infrastructure, and mass-spring systems. Developed and manufactured in Germany under the strictest quality controls, NOVODAMP® ensures durable, reliable, and precisely engineered performance for demanding applications.

Product Characteristics

Nominal static load capacity:

- Shape factor 6.0: 0.33 N/mm²
- Shape factor 3.0: 0.31 N/mm²
- Shape factor 1.5: 0.28 N/mm²

Dynamic load capacity:

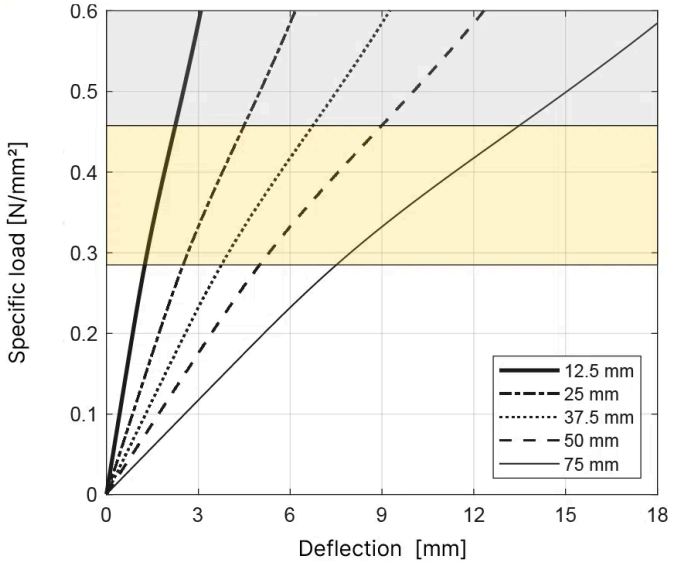
- Shape factor 6.0: 0.53 N/mm²
- Shape factor 3.0: 0.50 N/mm²
- Shape factor 1.5: 0.46 N/mm²

Product Applications

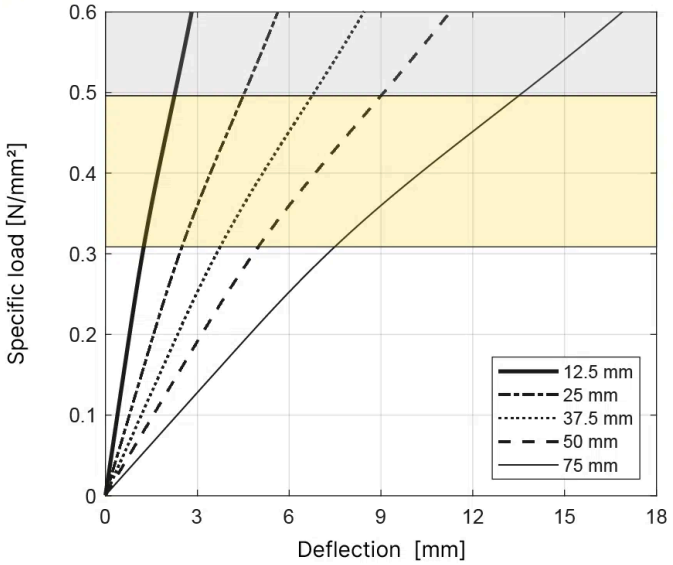
NOVODAMP® Closed-Cell Polyurethane T045 is the premium solution for elastic support and vibration isolation in rail infrastructure.

Technical Specifications

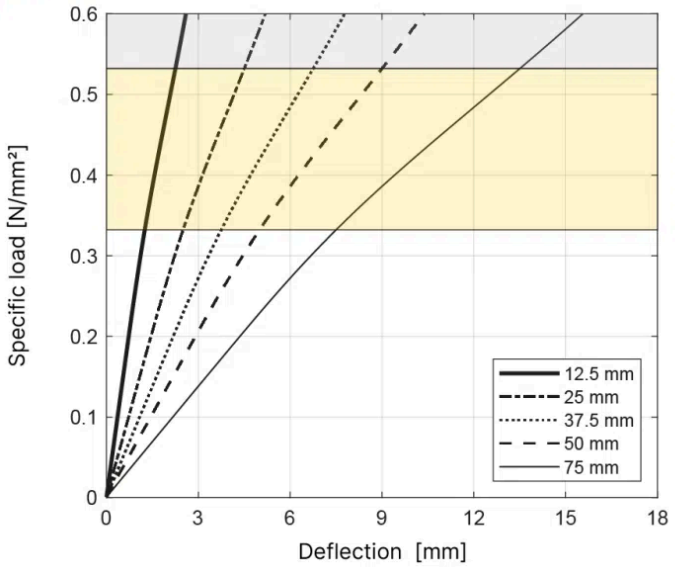
T045 **Load deflection - Shape factor 1.5**



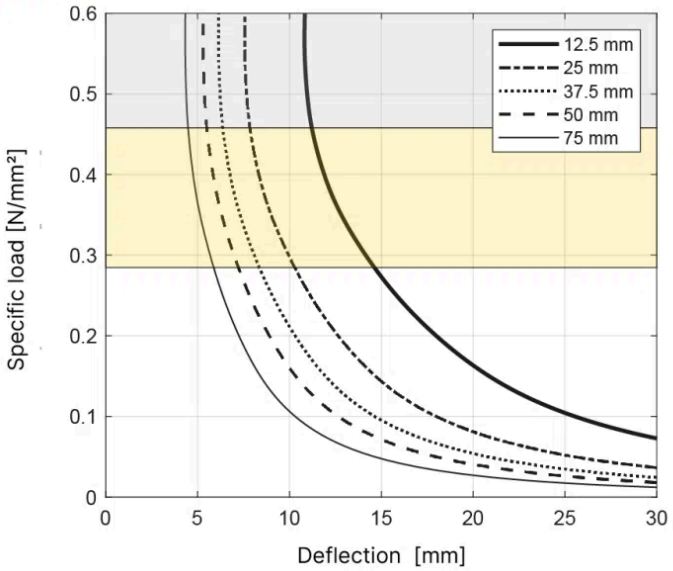
T045 **Load deflection - Shape factor 3.0**



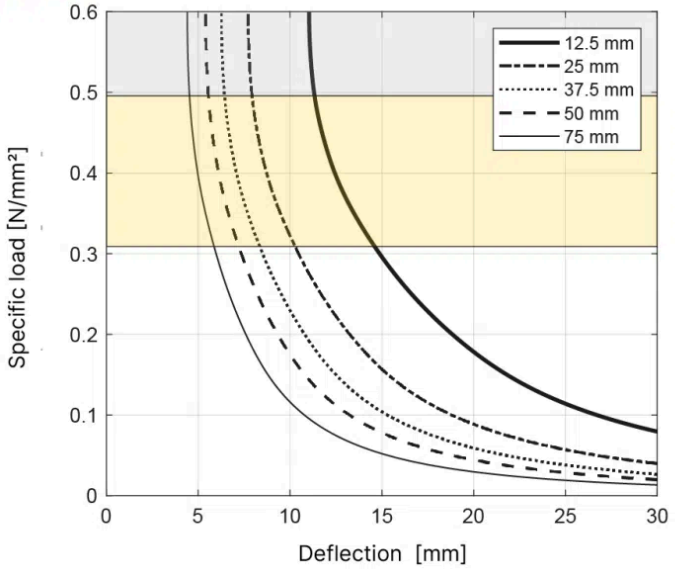
T045 **Load deflection - Shape factor 6.0**



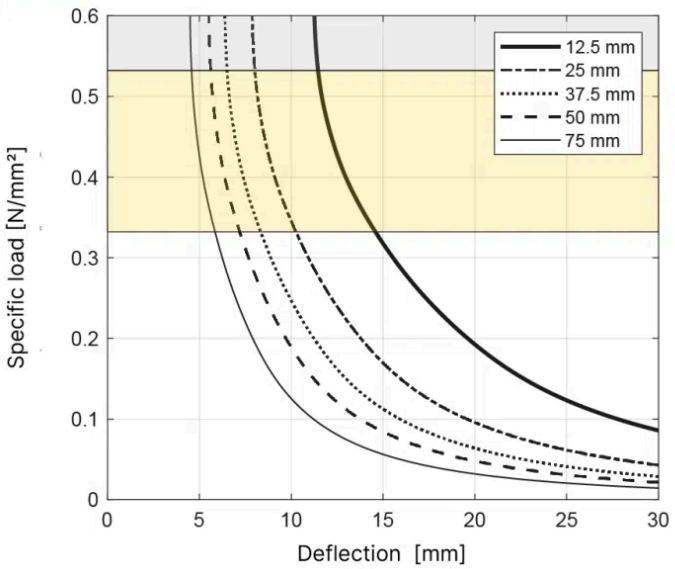
T045 **Natural frequency - Shape factor 1.5**



T045 **Natural frequency - Shape factor 3.0**



T045 **Natural frequency - Shape factor 6.0**



Elastomer NOVODAMP® T045 technical specifications

elastomer-novodamp-t045-technical-specifications.xlsx

NOVODAMP® T045 properties

Permissible horizontal deformation:	~ 25 % of material thickness*
Horizontal stiffness:	~ 20 % of vertical stiffness*
Mechanical loss factor:	< 0.1 (DIN 53513; depending on frequency, amplitude, preload and temperature)
Operating temperature:	-25 °C to 55 °C
Flammability:	Class E (DIN EN ISO 11925-2), B2 (DIN 4102-1)
Specific volume resistance:	> 10^8 Ωm (DIN EN 62631-3-1; for dry material)

*Design reference value

Downloads

GERB NOVODAMP®
for Rail Isolation

VIBRATEC

Contact information

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