Sylodyn® Construction Series Data Sheet

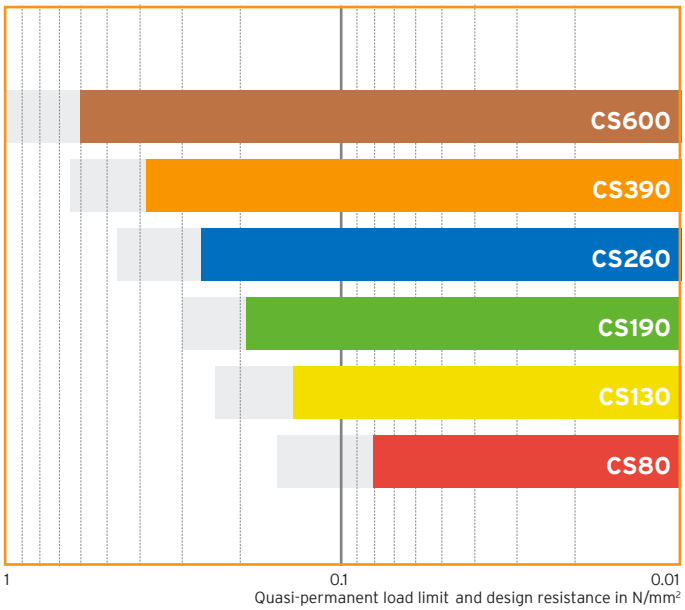
by getzner sylodyn®

Material closed-cell PU elastomer (polyurethane)
Application full-surface building isolation

Standard packaging
Thickness: 15 mm / 20 mm / 30 mm
Mats: 1.15 m wide, 1.50 m long

Other dimensions on request.

Sylodyn® Construction Series
Range of use



Range of use	
Quasi-permanent load limit [2]	up to 0.600 N/mm²
Design resistance in ULS [2]	up to 1.181 N/mm²

Material properties	Test methods	CS80	CS130	CS190	CS260	CS390	CS600
Colour		red	yellow	green	blue	orange	brown
Quasi-permanent load limit in N/mm²		0.080	0.130	0.190	0.260	0.390	0.600
Design resistance (GZT) in N/mm²	DIN EN 1990, Annex D	0.138	0.214	0.297	0.419	0.628	1.181
Dynamic modulus of elasticity [3] in N/mm²	DIN 53513 [1]	0.60	0.77	1.17	1.74	2.55	4.65
Dynamic shear modulus [3] in N/mm²	DIN ISO 1827 [1]	0.138	0.207	0.265	0.334	0.449	0.610
Mechanical loss factor	DIN 53513 [1]	0.07	0.07	0.07	0.07	0.07	0.07
Temperature range in °C		-30 to 70					
Flammability	EN ISO 11925-2	Class E/EN 13501-1					

[1] Measurement in accordance with the relevant standard
[2] For full-surface building isolation
[3] At quasi-permanent load limit

All information and data are based on our current knowledge. They can be used in calculations and for reference purposes, but are subject to product-specific and application-specific manufacturing tolerances and do not represent warranted properties. Material properties and their tolerances vary depending on the type of application and load and are available from Getzner on request. Subject to change without notice.

For further general information, see VDI directive 2062 and glossary. Further characteristic values available on request.

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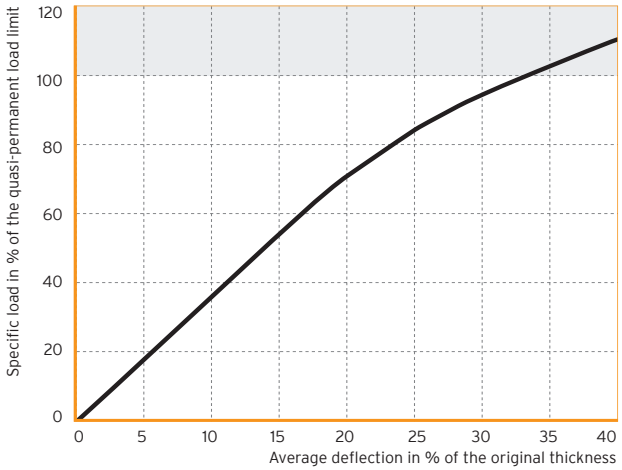
Load deflection curve



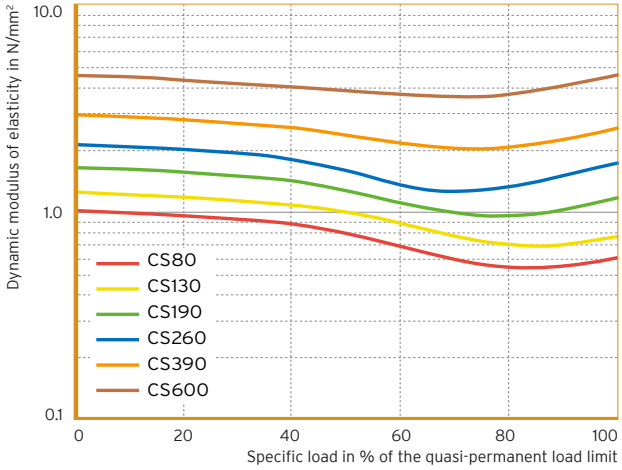
Load deflection curve under permanent load, valid for all types.

Testing between flat and plane-parallel steel plates, with filtered starting range, testing at room temperature.

For full-surface building isolation.

Fig. 1: Load deflection curve valid for all types

Dynamic modulus of elasticity



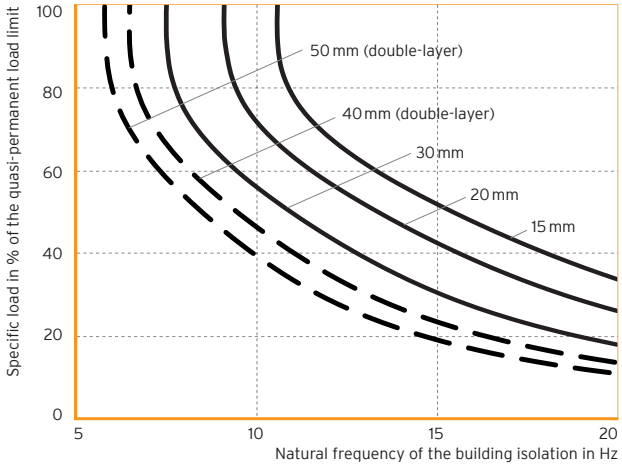
Dynamic modulus of elasticity under permanent load from sinusoidal excitation at a vibration velocity of 100 dBv re. $5 \cdot 10^{-8}$ m/s (corresponding to a vibration amplitude of 0.22 mm at 10 Hz).

Measurement in accordance with DIN 53513.

For full-surface building isolation.

Fig. 2: Load-dependency of the dynamic modulus of elasticity

Natural frequency



Average value of the anticipated natural frequency for systems with a single degree of freedom, consisting of a mass and an elastic bearing from the Sylodyn® Construction Series on a rigid subsoil.

Specifications for different bearing thicknesses.

For full-surface building isolation.

Fig. 3: Natural frequencies for different bearing thicknesses