

Isotop® SE

Sandwichelement

by getzner
isotop®

Design

Isotop® SE is an element used for efficient anti vibration isolation consisting of a hot-galvanized 10 mm steel plate for load distribution with 6 mm antislip-plate and up to 3 isolation layers made of Sylomer®/ Sylodyn® Material. A hot-galvanized base plate and an additional non-slip plate are available as an option. As a result of calculation and best selection of materials the structure borne noise can be systematically reduced to a level of 8 Hz, thus achieving the exact natural frequency.

Field of application

Isotop® SE could be used as various elements for straight to the point bearing and/or in devices which are determined by its design with small steel frames e.g.:

Examples:

- Elevatordrives
- HVAC-plants
- Cooling machines
- Cogeneration units
- Presses and punching machines
- All kind of machines and subunits, which needs source- or recieverisolation

Required data for selection

- Total weight to be absorbed
- Number and location of points of support
- Centre of gravity
- Structural shape of the device (dimensions)
- Direction of load
- Lowest disturbing frequency (rotational speed or number of strokes)

Advantages

- Fast assembly
- Construction area is identical for all types, which guarantees exchangeability.
- Exact nominal frequency could be achived
- Easy to use
- Low cost
- High corrosion resistance
- Multi purpose application



Isotop® SE

Selection table

-X	-X	-MAX. LOAD	-COLOUR	-OPTION
5		500	orange	without antislip-plate
8	Nominal load x 100 N 1/2/3-layer	800	blue	with foot plate
12		1,200	pink	
15		1,500	green	
30		3,000	brown	
50		5,000	red	
100		10,000	grey	
170		17,000	turquoise	
300		30,000	purple	

Example: Isotop® SE-X-X-max. load-option;
 Isotop® SE-50-2-5000-with foot plate

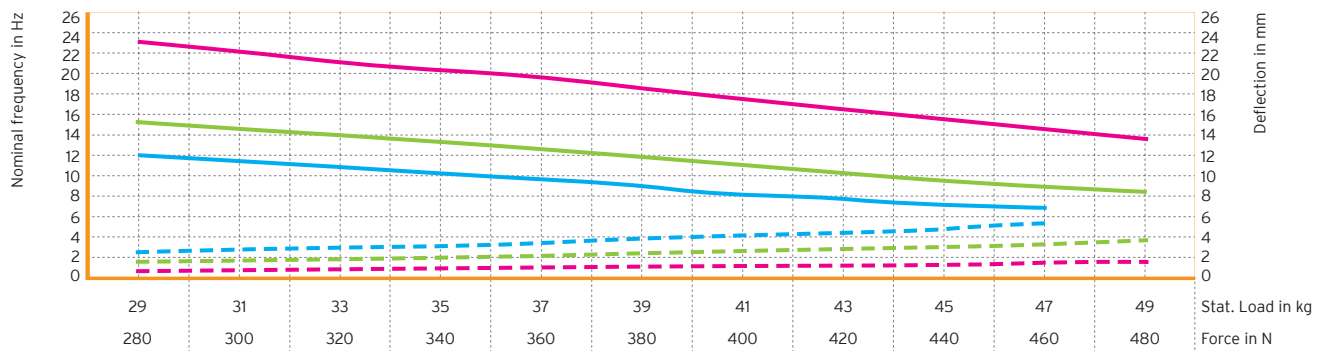
Installation information

SE elements can be screwed on top of the device with M12 thread. For screwless bearing a non-slip plate is available as an option. An even surface level will be required as well as an all-over contact of the element with the device and the floor is important. The element has to be placed in the centre.

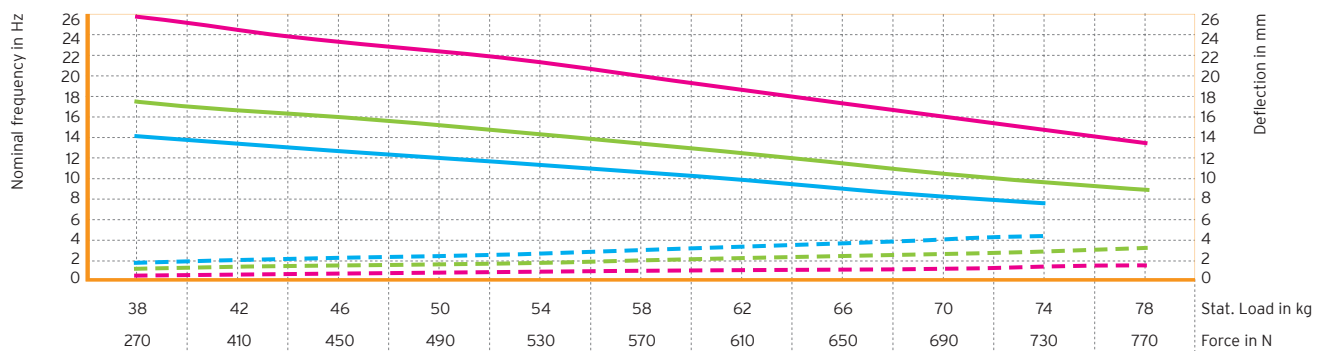
Our service

Make use of our know-how on questions about vibration technology. We will gladly consult you and will calculate customized solutions for vibration isolation.

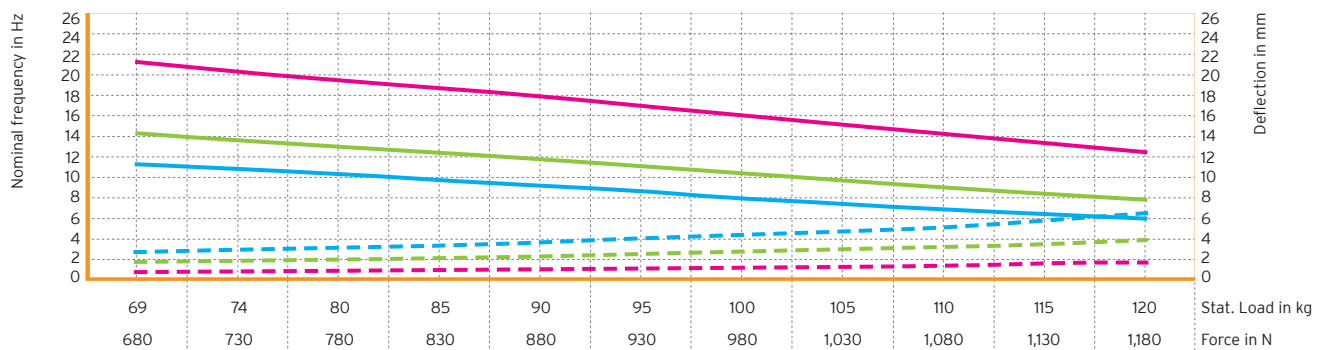
Isotop® SE 5



Isotop® SE 8



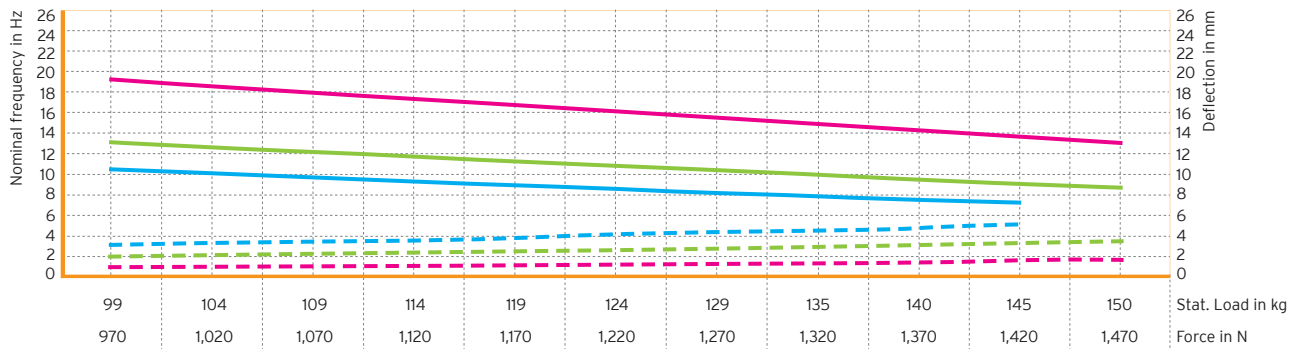
Isotop® SE 12



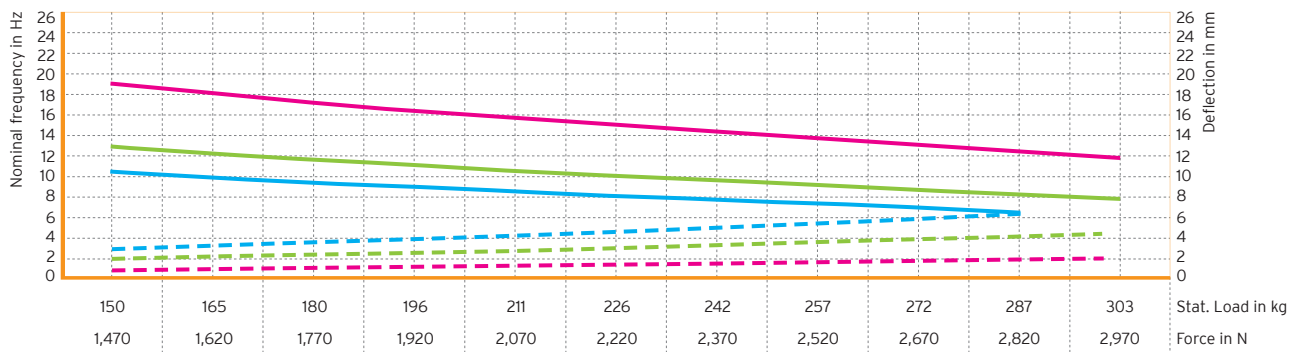
Nominal frequency per layer: — 25 mm — 50 mm — 75 mm

Deflection per layer: - - - 25 mm - - - 50 mm - - - 75 mm

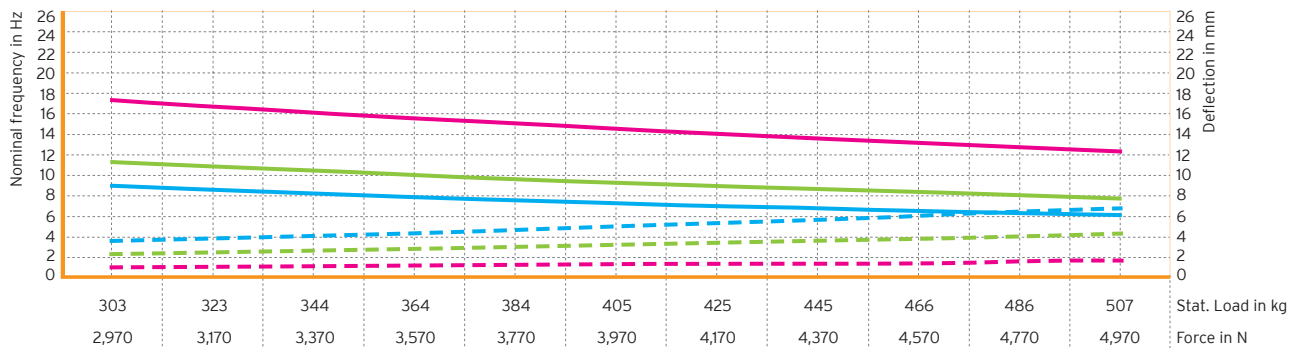
Isotop® SE 15



Isotop® SE 30



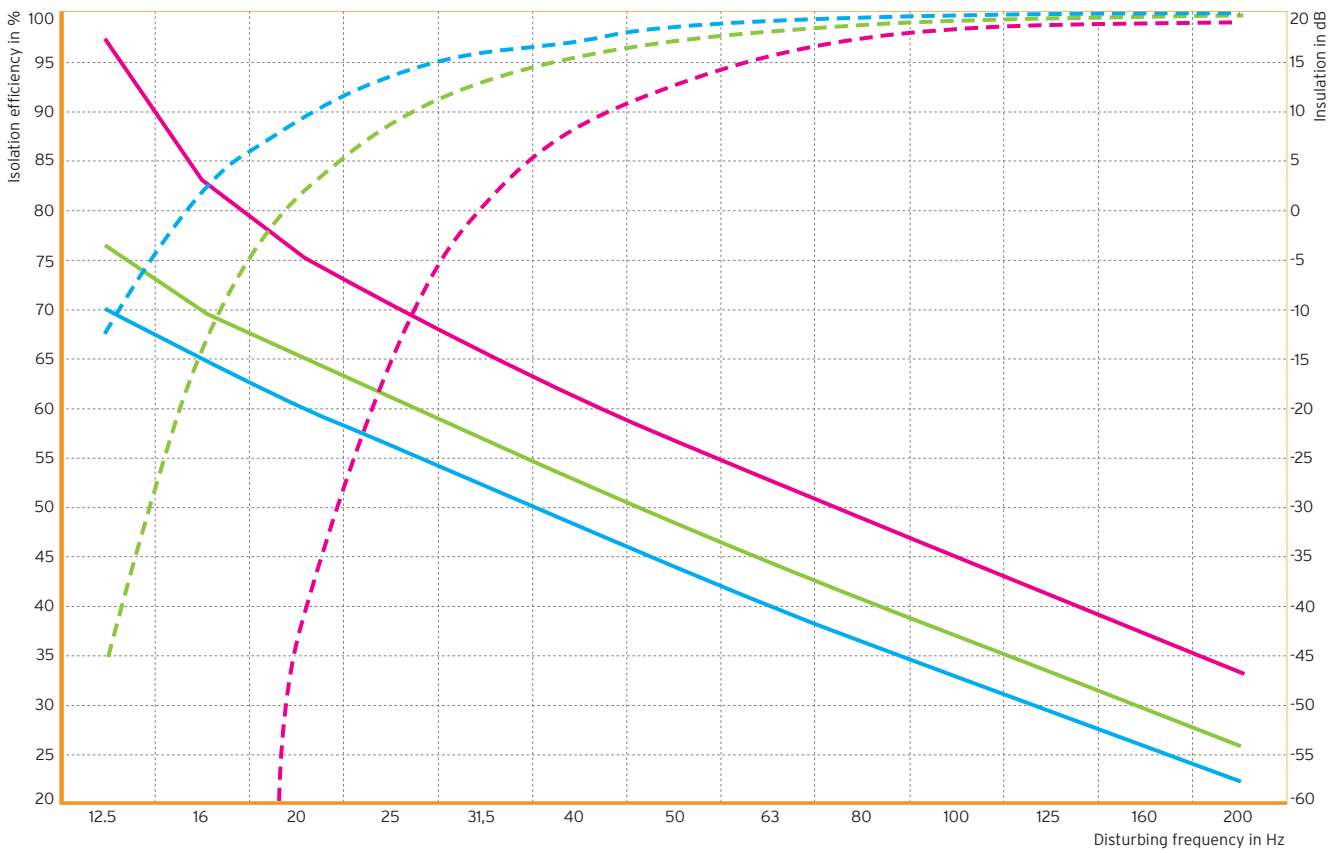
Isotop® SE 50



Nominal frequency per layer:
— 25 mm
— 50 mm
— 75 mm

Deflection per layer:
- - - 25 mm
- - - 50 mm
- - - 75 mm

**Example of isolation efficiency (SE-50-X-XX-X)
in depending of layer thickness**



- Isotop SE 50 Isol. eff. in % at 75 mm
- Isotop SE 50 Isol. eff. in % at 50 mm
- Isotop SE 50 Isol. eff. in % at 25 mm
- Isotop SE 50 Insulation in dB at 75 mm
- Isotop SE 50 Insulation in dB at 50 mm
- Isotop SE 50 Insulation in dB at 25 mm

Figure

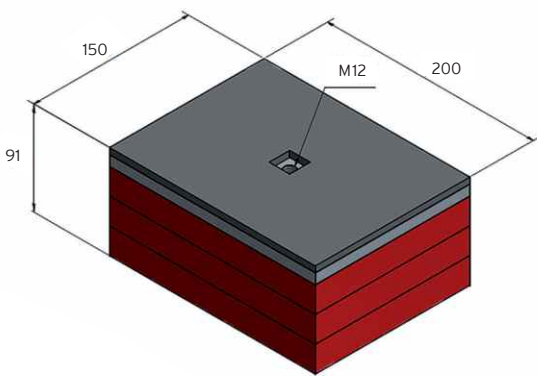


Fig. 1: Isotop® SE standard design including anti-slip plate

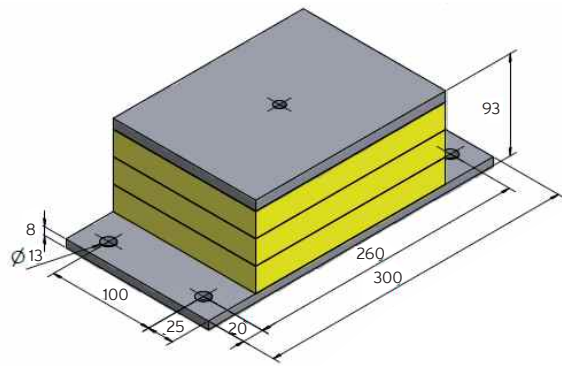


Fig. 2: Isotop® SE optionally with one footplate (screw-mountable)

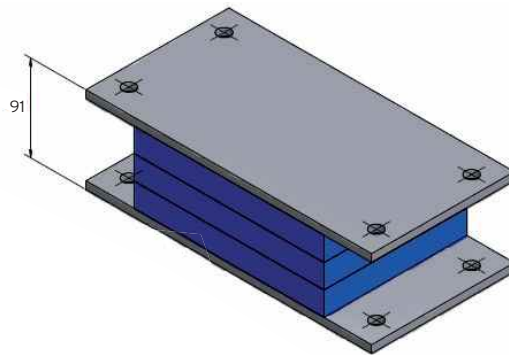


Fig. 3: Isotop® SE optionally with two footplates (screw-mountable)

All data indicated are based upon our current knowledge. They may be used as calculation and standard values and are subject to the usual machining tolerances. Subject to change and correction.

