

Vibrex® Spring Strips

for Vibration Isolation and Structure-Borne Noise Reduction

Load capacity up to 30 kN/m
Vertical natural frequency 8.2 Hz (minimum)

Operative application

- Structure-borne noise reduced bedding of constructions and construction elements (e.g. measuring stations, buildings); bedding of inner shell in double-shell designed rooms (e.g. radio and television studios, measuring rooms)
- Structure-borne noise line-up of heating boilers, cooling towers, fans and similar devices.

Mode of function

The transmission of intermittent or periodic impact forces is considerably reduced by bedding machines, plants, measuring rooms and buildings on Vibrex® Spring Strips.

Advantages

- Low installation height (41 mm)
- As a result of its shape the frequency of the lowest inherent bending oscillation is so high that penetration of the structure-borne noise damping is, as a rule, not experienced in the frequency ranges of interest. To optimize the structure-borne noise damping the Vibrex® Spring Strips are fitted with a special structure-borne noise reduction coating.
- Large surface construction elements (such as sheets/plates) can be executed with a low bending rigidity as a result of the stream-lined load distribution surface. Edge beams or supporting beams are made redundant.

Design

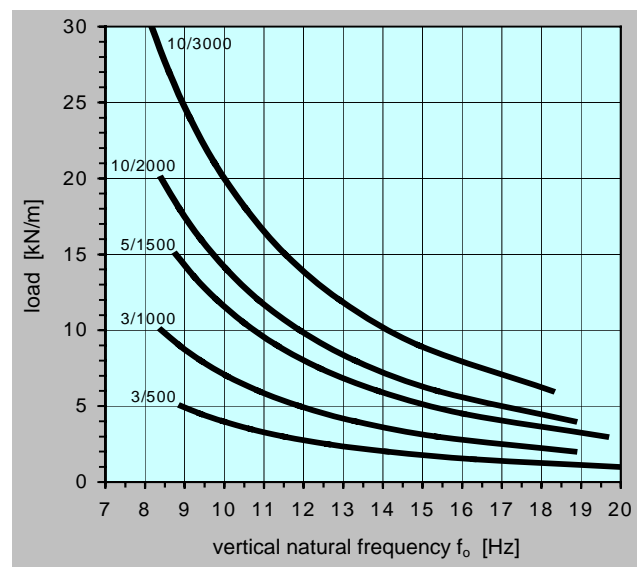
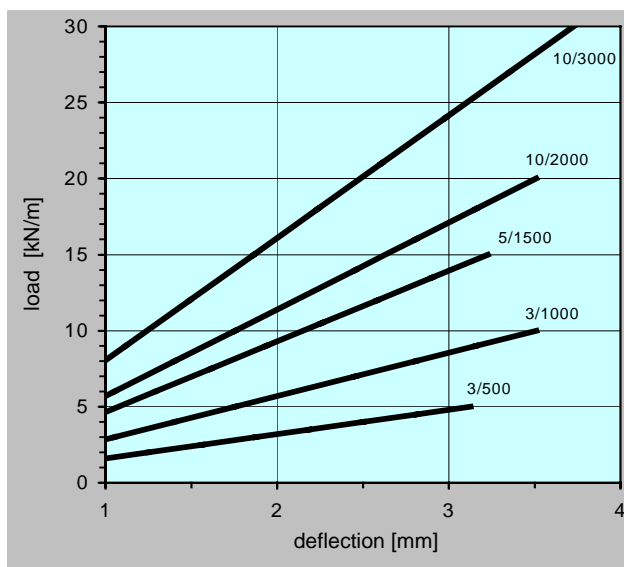
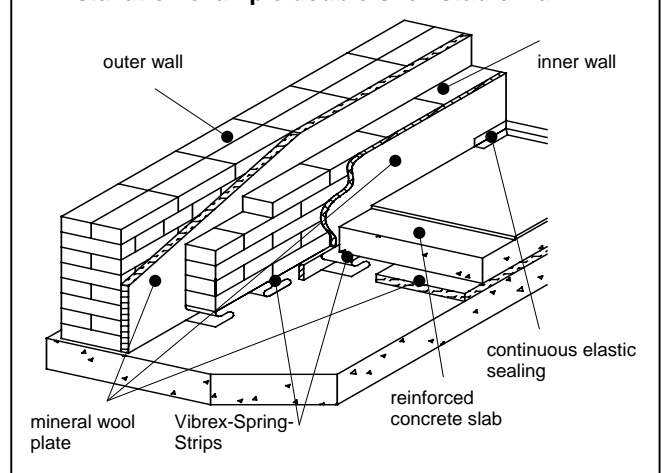
Stainless steel - spring steel with vibration and structure borne reduction coating



Accessories

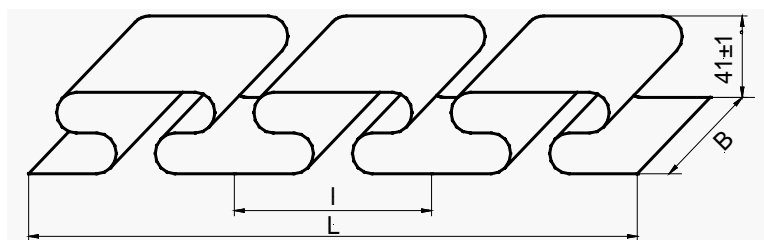
- Adhesive sheet at bottom –Gu, Adhesive sheet on top –Go:**
For mounting and fixing as well as uneven surfaces at erection site. Due to their good adhesive features, the adhesive sheets are in most cases suitable for mounting (not using additional screws). Thickness: 2 mm
- Riveted steel plates –B**
Galvanized steel plate (2 mm thick, riveted on one side)
- Riveted U-shaped beam –U**
U-shaped beam, riveted on one side, for load distribution and limitation of spring range
- Gemak®-Glue:**
- To glue spring strips with adhesive sheet with surfaces

Installation example double-shell studio wall



Technical Data, Dimensions, Weight

Type	Length L [mm]	Load Capacity Maximum F_{vzul} [kN]	Spring Constant vertical C_v [N/mm]	Natural Frequency		Dimensions			Weight approx. [kg]
				vertical ¹ n_o [1/min]	f_o [Hz]	Width B [mm]	Wave- length l [mm]	Number of Waves z	
3/500-1	200	1,00	320	535	8,9	30	200	1	0,08
3/500-2	400	2,00	640					2	0,16
3/500-3	600	3,00	960					3	0,25
3/500-4	800	4,00	1280					4	0,33
3/500-5	1000	5,00	1600					5	0,41
3/1000-1	125	1,25	356	505	8,4	30	125	1	0,07
3/1000-2	250	2,50	713					2	0,13
3/1000-3	375	3,75	1069					3	0,20
3/1000-4	500	5,00	1425					4	0,26
3/1000-5	625	6,25	1781					5	0,33
3/1000-6	750	7,50	2138					6	0,39
3/1000-7	875	8,75	2494					7	0,46
3/1000-8	1000	10,00	2850					8	0,52
5/1500-1	125	1,88	581	527	8,8	50	125	1	0,11
5/1500-2	250	3,75	1163					2	0,21
5/1500-3	375	5,63	1744					3	0,32
5/1500-4	500	7,50	2325					4	0,42
5/1500-5	625	9,38	2906					5	0,53
5/1500-6	750	11,25	3488					6	0,63
5/1500-7	875	13,13	4069					7	0,74
5/1500-8	1000	15,00	4650					8	0,84
10/2000-1	167	3,33	950	505	8,4	100	167	1	0,25
10/2000-2	333	6,67	1900					2	0,50
10/2000-3	500	10,00	2850					3	0,75
10/2000-4	667	13,33	3800					4	1,00
10/2000-5	833	16,67	4750					5	1,25
10/2000-6	1000	20,00	5700					6	1,50
10/3000-1	125	3,75	1006	490	8,2	100	125	1	0,22
10/3000-2	250	7,50	2013					2	0,44
10/3000-3	375	11,25	3019					3	0,65
10/3000-4	500	15,00	4025					4	0,87
10/3000-5	625	18,75	5031					5	1,09
10/3000-6	750	22,50	6038					6	1,31
10/3000-7	875	26,25	7044					7	1,52
10/3000-8	1000	30,00	8050					8	1,74

¹ at maximum load capacity


The data given in this product information correspond to the state-of-the-art and our know-how and is subject to alterations. Guarantees are only valid on individual contracts when executed by G+H Akoestiek