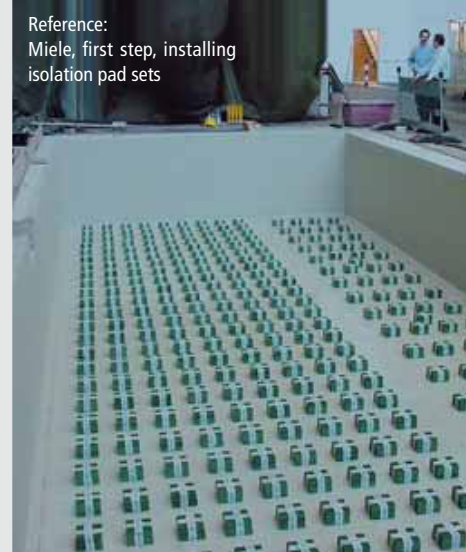


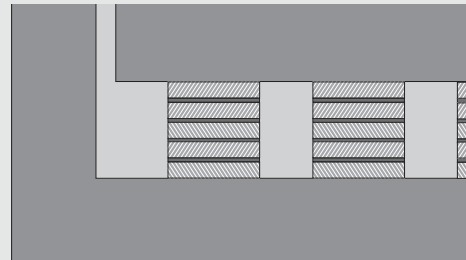
Isolation pad sets

By using multiple layers of isolating pads it is possible to reach a very low natural frequency which enhances the isolation in comparison with single isolating pads. In particular these sets of pads are ideal for big machines and vibration isolation foundations. Even with a long lasting dynamic load, the high developed material holds its isolation properties. BILZ Isolation pads are resistant against oils, fats, coolant, acids, bases and cleaners.



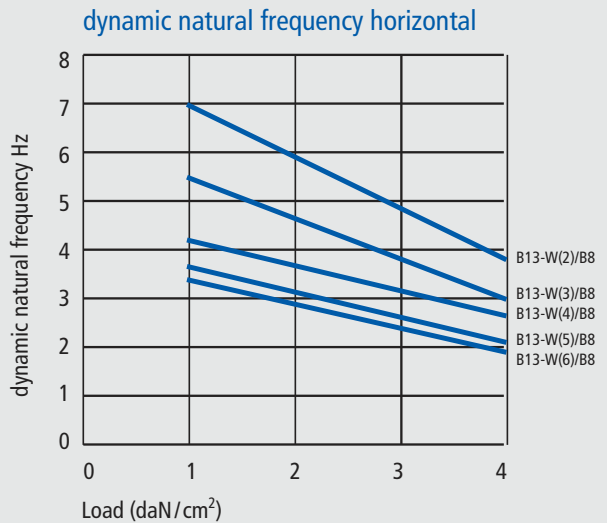
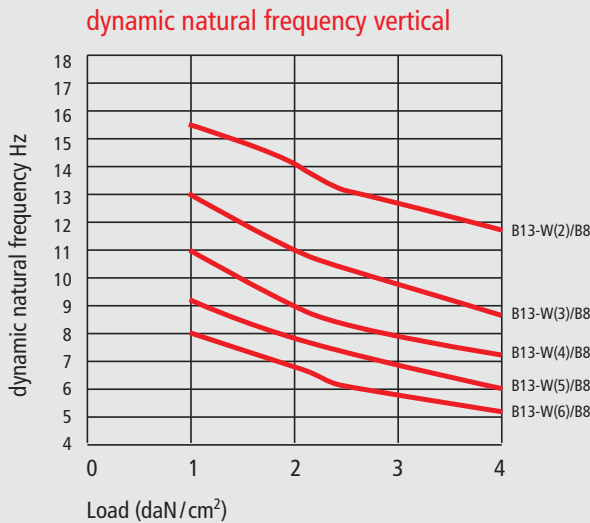
Standard sizes

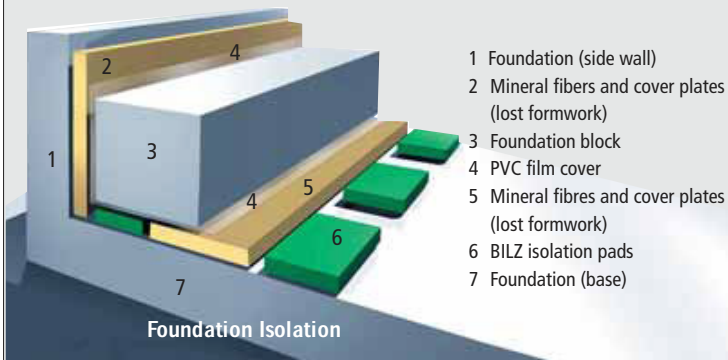
type	Free height in mm	dynamic natural frequency vertical (Hz)	dynamic natural frequency horizontal (Hz)
B13-W(2)/B8	34	12	4
B13-W(3)/B8	55	9	3
B13-W(4)/B8	76	7	3
B13-W(5)/B8	97	6	2
B13-W(6)/B8	118	5	2



The allowable load of a set of pads with 500x500 mm is 2.5-20 tons. BILZ can deliver the pad sets in sizes up to 1000 x 500 mm base. BILZ can create a custom pad set using other combinations of isolation

pads to fine tune the isolation properties. Your local BILZ representative can meet with you to discuss your application in detail.





BILZ isolating pads are ideally suited for vibration suppression of foundations and base plates

The main purpose of the foundation is to stabilize the machine as well as to increase the moment of inertia. The foundation thus positively influences machine vibration by reducing the amplitude of oscillation. It is wrong, however, to assume that any foundation large enough would eliminate all vibration problems. It is important that as much information as possible be supplied regarding the machine to be isolated, this will include machine size and weights, any dynamic features of its operation, location including ground type, condition where optimal performance is required and a vibration analysis of the machine and site conditions. A correct isolation between machine foundation and the surrounding area will result in trouble free operation.

As a result of years of experience we have the necessary experience in this field. At your request we can offer all other related services including measuring of vibrations, planning and construction design.

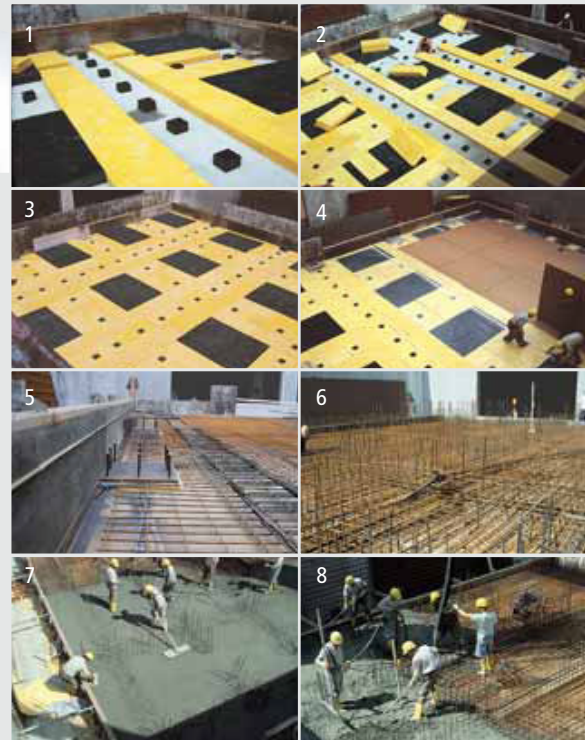


Illustration 1, 2, 3: Depositing of BILZ isolation pads (green) and padding of the spaces with mineral fiber isolation plates (sacrifice formwork). Illustration 4: Covering of the entire area first with PVC sheeting as used for construction work, and then with mineral fiber cover plates. All joints must be pasted/glued together. Illustration 5, 6: Mounting of reinforcement. Illustration 7, 8: Filling in of concrete.

Application example in the plant of a major automobile manufacturer. Passive isolation protection of a Waldrich-Coburg portal milling machine from the pressing mechanism sector. Total mass: approx. 1200 ton

Foundation Isolation with Air Springs:

Equipment: vibration isolated Inertia Block (approx. 20 ton) on BILZ® Membrane Air Spring System – BiAir® 4-ED with mechanic-pneumatic level control MPN-LCV-HF

Special request: Because of surrounding machines, crane runaway etc. installation of an isolation system is difficult. Work pieces, approx. 10 ton, create a large change in loading on the isolation system. To compensate for this, a high flow mechanic-pneumatic level control with level accuracy approx. 0.1 mm is needed.

