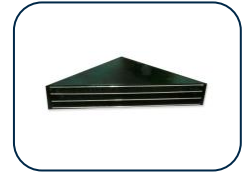


**PLAKA dBREAK - ISOSTRUCT**  
Acoustic laminated bearings for structural applications

REF 12.05.01 - Version V01 - 21/08/2020



**Description**



Plaka dBreak ISOSTRUCT solution cares for the acoustic decoupling and for the isolation of concrete and steel structures, usually at the level of the foundations of the building. ISOSTRUCT is applied in order to isolate the building from noise and vibrations from outside and to avoid the propagation of this noise and these vibrations through the building structure.

**Application fields**

- Residential buildings and offices close to railways and roads with heavy traffic, concert halls, night clubs,
- Theatres, cinemas, schools
- Industrial equipment (e.g. power presses, gensets,...)
- Electrical power generation (ex. foundations of turbines ...)

**Properties**

Mechanical properties	
Material	Natural rubber Steel plates fully wrapped with rubber
Attenuation of noise and vibration frequencies	Frequencies ranging from 12 to 300 Hz
Deflection	Minimal to achieve low natural frequencies through minimal damping / low ratio of dynamic-to-static stiffness (approx.. 4 to 5 mm for a natural frequency of 10 Hz)
Ozone resistance	Good (built into the compounds)
Low temperature performance	Good (better than CR)
Creep	Very low
Does not require any maintenance	

The used compounds have been externally certified based on the most appropriate / stringent test requirements of all the criteria of EN 1337-3 and BS6177.

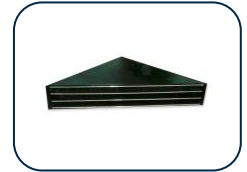
The bearings have been designed and tested compliant with EN 1337-3 and BS6177.

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**Dimensions**

Standard range of “ready to go” bearings, but bespoke bearings can be designed and manufactured to meet exact project requirements. The following table shows the resonance frequencies according to the applied forces and the dimensions of the bearings.

Freq.	Bearing type ref	Length (mm)	Width (mm)	Height (mm)	Min. load (kN) to achieve « Freq »	Max. SLS load (kN)	Max. ULS load (kN)
12 Hz	D12-0023-008-3	500	500	98	1060	2324	3300
	FLB2005-2	500	500	81	850	1866	2650
	FLB2000-20-3	450	450	107	540	1479	2100
	FLB2002-2	350	350	72	300	648	920
	D12-0023-007-3	250	250	63	220	370	525
	D12-0023-006-2	250	250	69	61	204	290
11 Hz	D12-0023-008-4	500	500	127	950	2359	3350
	FLB2000-20-3	450	450	107	650	1479	2100
	FLB2002-2	350	350	72	330	648	920
	D12-0023-007-4	250	250	81	160	370	525
	D12-0023-006-2	250	250	69	73	204	290
10 Hz	D12-0023-008-5	500	500	156	910	2359	3350
	D12-0023-008A-3	500	500	94	650	1831	2600
	FLB2000-20-4	450	450	134	590	1338	1900
	FLB2000-3	450	450	103	280	1092	1550
	FLB2002-3	350	350	103	240	655	930
	D12-0023-007-5	250	250	99	111	324	460
	D12-0023-006-2	250	250	69	110	204	290
	FLB2009-2	250	250	69	27	106	150
9 Hz	D12-0023-008-5	500	500	156	1122	2359	3350
	D12-0023-008A-4	500	500	122	600	1831	2600
	FLB2000-20-4	450	450	134	1000	1338	1900
	FLB2002-3	350	350	103	240	655	930
	FLB2001-3	350	350	99	117	440	625
	D12-0023-007-5	250	250	99	136	324	460
	D12-0023-006-3	250	250	99	72	165	235
	CDM Basher	200	100	60	45	49	70
8 Hz	D12-0023-008-6	500	500	185	1200	2254	3200
	D12-0023-008A-5	500	500	150	600	1831	2600
	FLB2006-4	500	500	146	500	1444	2050
	FLB2000-4	450	450	134	330	1092	1550
	FLB2002-4	350	350	129	280	563	800
	FLB2001-3	350	350	99	162	440	625
	D12-0023-006-3	250	250	99	115	165	235
	FLB2009-3	250	250	99	28	85	120
7 Hz	D12-0023-008A-6	500	500	178	660	1725	2450
	FLB2006-5	500	500	180	460	1338	1900
	FLB2002-5	350	350	159	290	451	640
	FLB2001-4	350	350	129	160	380	540
	D12-0023-006-5	250	250	159	72	99	140
	FLB2009-4	250	250	129	28	63	90
6 Hz	D12-0023-008A-7	500	500	190	665	1373	1950
	FLB2001-5	350	350	159	175	299	425
	FLB2009-5	250	250	159	30	51	73

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