

# Walraven VibraTek® SB-FF Silentblock

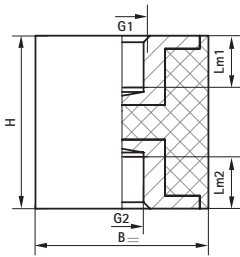
A rubber silentblock with two internal threads



## Features and Benefits

- A universal rubber absorber, ideal for use with all kinds of elastic suspension or mounting of equipment
- Ideal for use with machinery and equipment mounted on metallic surface
- SB-FF with two internal threads
- For use in compression only
- Working temperature range -20 °C till 90 °C

## Technical Drawing



## Applications

- All types of machinery with working RPM speeds of 1000 or more

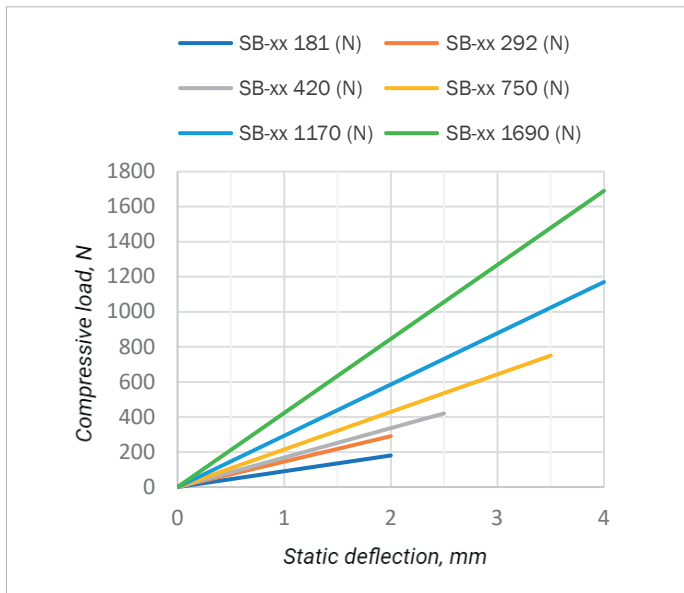
## 1. Product and packaging details

Part No.	Description	Dimension	Piece		Pack 1	
			(pcs)	EAN13	(pcs)	EAN13
2801600181	VibraTek® SB-FF Silentblock	180/M8	1	8719942068802	100	8719942068819
2801600291	VibraTek® SB-FF Silentblock	290/M8	1	8719942068833	100	8719942068840
2801600420	VibraTek® SB-FF Silentblock	420/M8	1	8719942046794	100	8719942046800
2801600750	VibraTek® SB-FF Silentblock	750/M8	1	8719942046824	100	8719942046831
2801601170	VibraTek® SB-FF Silentblock	1170/M10	1	8719942046855	100	8719942046862
2801601690	VibraTek® SB-FF Silentblock	1690/M12	1	8719942046886	100	8719942046893

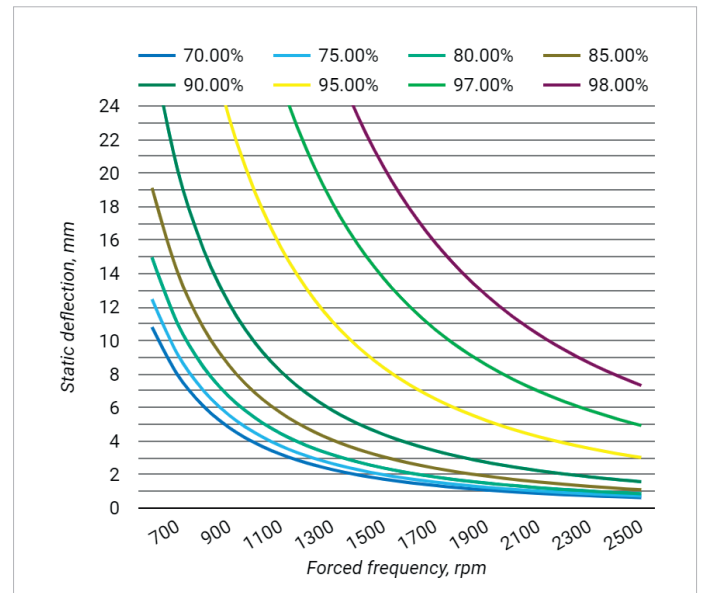
## 2. Performance data

Part No.	Description	Dimension	Max. deflection (mm)	Min. load (N)	Max. load (N)	Optimal load (N)
2801600181	VibraTek® SB-FF Silentblock	180/M8	2.0	15	180	90-180
2801600291	VibraTek® SB-FF Silentblock	290/M8	2.0	25	290	190-290
2801600420	VibraTek® SB-FF Silentblock	420/M8	2.5	36	420	300-420
2801600750	VibraTek® SB-FF Silentblock	750/M8	3.5	46	750	450-750
2801601170	VibraTek® SB-FF Silentblock	1170/M10	4.0	102	1170	780-1170
2801601690	VibraTek® SB-FF Silentblock	1690/M12	4.0	122	1690	1300-1690

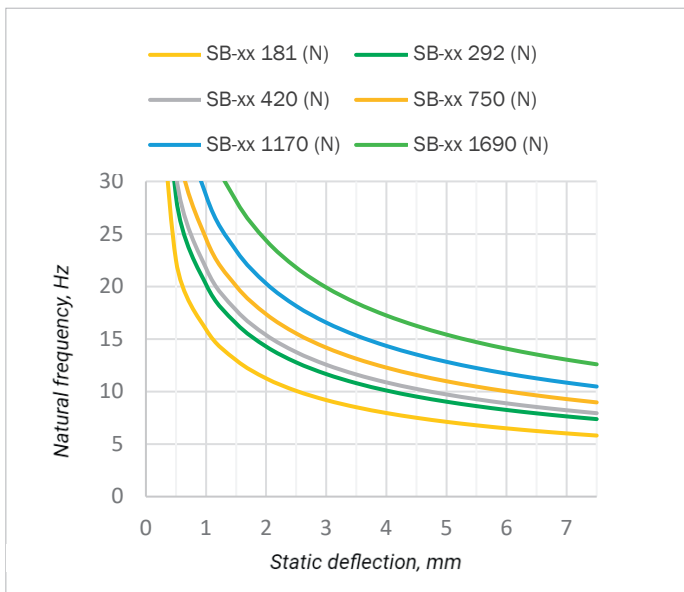
### 2.1 Static deflection



### 2.2 Isolation efficiency



### 2.3 Natural frequency



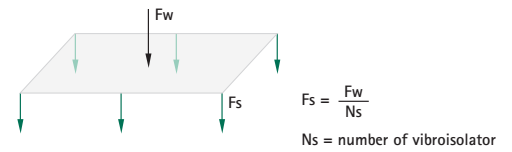
### 3. Dynamic properties

Description	Value
Damping factor	0.005
Maximum transient overload % on maximum load	50 %
Working temperature range	-20 °C till 90 °C

4. Estimation of performance

Part No.	Applied load		Deflection (mm)	rpm Hz	Damping efficiency upon disturbing vibration (%)							
	(N)	(~kg)			500	800	1000	1200	1500	2000	2500	
					8.3	13.3	16.7	20.0	25.0	33.3	41.7	
2801600181	150	15	1.7					40.3	68.5	84.4	90.6	
	180	18	2.0					54.7	75.1	87.4	92.3	
2801600291	250	25	1.7					43.4	69.9	85.0	90.9	
	290	30	2.0					54.7	75.1	87.4	92.3	
2801600420	350	36	2.1					24.3	57.3	87.9	92.6	
	420	43	2.5					44.0	66.8	81.0	90.1	
2801600750	450	46	2.4					40.3	64.9	80.1	89.7	
	550	56	2.9			8.4		55.9	73.0	84.3	91.7	
	750	76	4.0			46.0	71.1	81.5	88.9	94.1	96.3	
2801601170	1000	102	3.4			30.4	64.4	77.7	86.8	93.0	95.6	
	1170	119	4.0			46.0	71.1	81.5	88.9	94.1	96.3	
2801601690	1200	122	2.8			2.5	53.8	71.9	83.7	91.4	94.7	
	1500	153	3.6			34.7	66.2	78.7	87.3	93.3	95.8	
	1690	172	4.0			46.0	71.1	81.5	88.9	94.1	96.3	

- 1 Select vibroisolator load capacity in the table - greater or equal to Fs
- 2 Horizontally to the left you can see the product number of Walraven VibraTek®
- 3 Horizontally to the right, you can read the deflection
- 4 Locate the column with a frequency lower than 2300 rpm
- 5 Read the damping performance at: cross deflection and frequency



V (%)	Description of damping efficiency		
99	Excellent	Hospitals, hotels, facilities cultural (theaters, centers congress, auditorium)	Residential and office buildings, adjoining rooms to living spaces
93	Perfect		
88	Very good		Normal requirements: cellars, facilities industrial, shopping centers
81	Good		
67	Sufficient		
20	Medium	Low attenuation or negative impact - contact with the Technical Sales Support Department, to get an alternative solution	
0	No change		
Resonance	Better without insulation		

## Find out how we can support you

Would you like to find out more about any of the solutions described in this Technical Data Sheet?  
Or would you like to discuss how we could help you find the best possible solution for your project?  
Get in touch today!

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### Walraven Group

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Technical Data Sheet Walraven VibratEK® SB-FF Silentblock (INT) – 03/2024 – PDF – Full content subject to modifications  
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