

# Walraven VibraTek® HR-1 Rubber Hanger

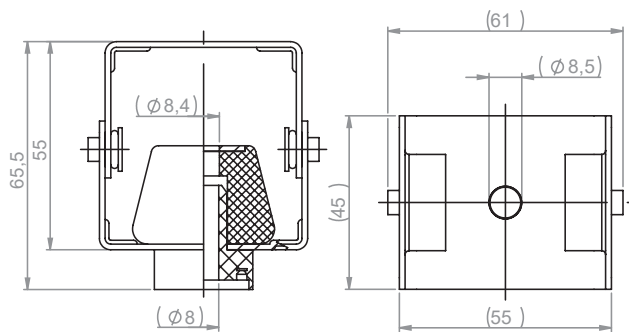
Rubber hanger for isolation of suspended ventilation and AC systems



## Features and Benefits

- Small footprint allows placement in compact spaces
- Simple to install and adaptable to a sloping roof or ceiling, part of the metal housing swivels
- Working temperature range -20 °C till 90 °C
- Hardness 45 / 50 Shore A
- Steel: zinc plated

## Technical Drawing



## Applications

- Ventilation boxes, acoustic ceilings, suspended pipes, suspended ducts

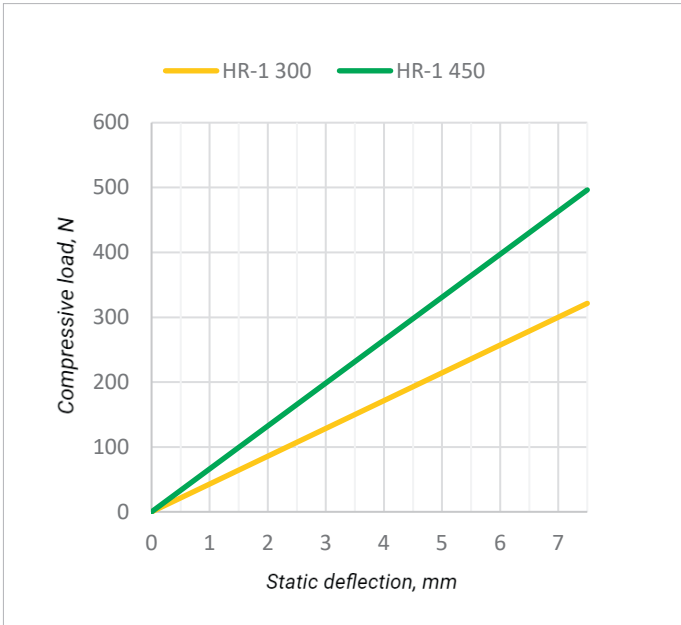
## 1. Product and packaging details

Part No.	Description	Dimension	Piece		Pack 1	
			(pcs)	EAN13	(pcs)	EAN13
2800800300	HR-1 Rubber Hanger	300	1	8719942046336	100	8719942046343
2800800450	HR-1 Rubber Hanger	450	1	8719942046367	100	8719942046374

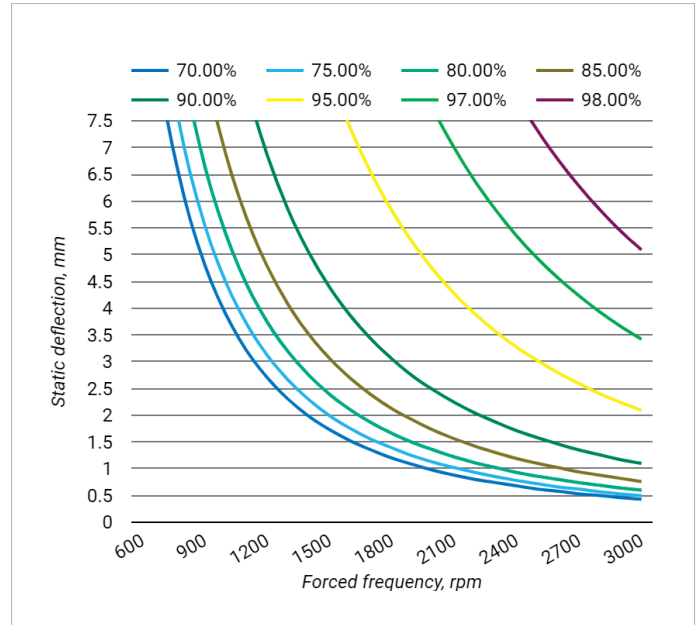
## 2. Performance data

Part No.	Description	Dimension	Max. deflection (mm)	Min. load (N)	Max. load (N)	Min. optimal load (N)	Max. optimal load (N)
2800800300	HR-1 Rubber Hanger	300	7.0	5	300	5	250
2800800450	HR-1 Rubber Hanger	450	7.0	10	450	10	400

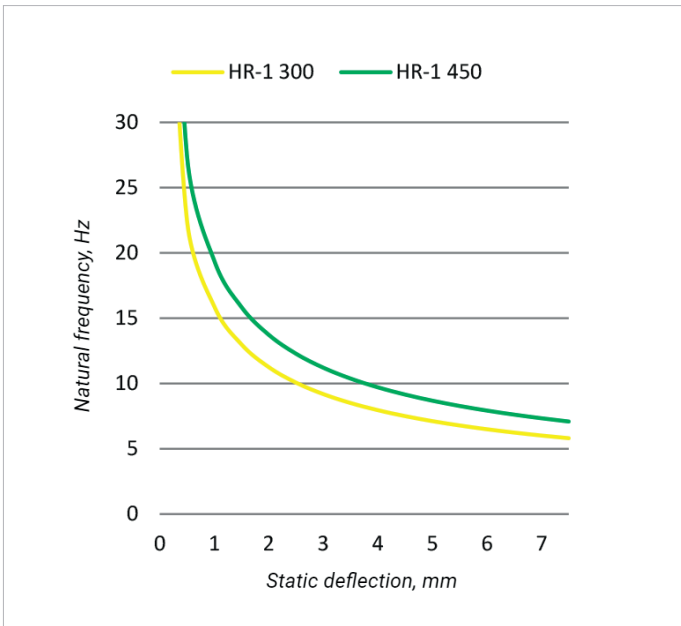
### 2.1 Static deflection



### 2.2 Isolation efficiency



### 2.3 Natural frequency



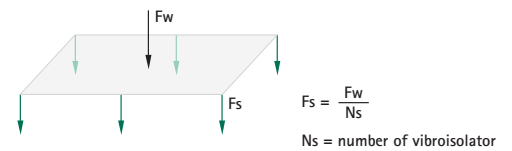
### 3. Dynamic properties

Description	Value
Shore A Hardness HR-1 300 / HR-1 450	45° / 50°
Maximum transient overload % on maximum load	100 %
Working temperature range	-20 °C till 90 °C

4. Estimation of performance

Part No.	Applied load		Elasticity module (N/mm)	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
2800800300	200	20	42.86	4.7			57.0	76.2	84.6	90.7	94.9	96.8
	250	25		5.8			68.3	81.8	88.0	92.7	96.0	97.5
	300	31		7.0			74.9	85.3	90.2	94.0	96.7	97.9
2800800450	350	36	66.18	5.3			63.9	79.6	86.6	91.8	95.6	97.2
	400	41		6.0			69.8	82.6	88.5	92.9	96.1	97.6
	450	46		6.8			74.0	84.8	89.9	93.8	96.6	97.8

- 1 Select vibroisolator load capacity in the table - greater or equal to F<sub>s</sub>
- 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  Normal requirements: cellars, facilities industrial, shopping centers
93	Perfect		
88	Very good		
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!

### Walraven International

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### Walraven Group

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Technical Data Sheet Walraven VibraTek® HR-1 Rubber Hanger (INT) – 03/2024 – PDF – Full content subject to modifications  
\* The technical data are non-binding and do not reflect the warranted characteristics of the products. They are subject to change. Please consult our General Terms and Conditions. Additional information is available upon request. It is the designer's responsibility to select products suitable for the intended purpose and to ensure that performance data are not exceeded. The installation instructions should always be read and followed.