

# Isolation Hangers Type RH / RHD

Single and Double Deflection Rubber

## APPLICATION

Where a low cost, low deflection hanger is required for effective isolation of noise and vibration from equipment with speeds of 1,000 RPM upwards. Typically used for piping, ductwork, fans, packaged air conditioners, fan coil units, suspended ceilings, etc.

## FEATURES

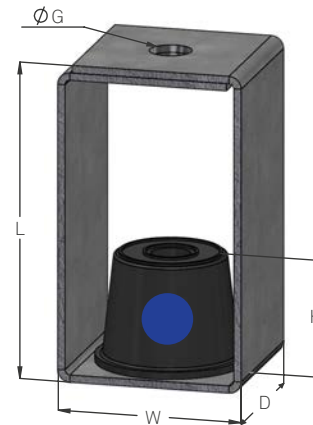
- Static deflection ranges from 5 to 12mm
- The active element is colour coded for easy identification of load range
- Metal parts are embedded in the elastomer
- Heavy duty steel cage
- If mechanical or fire damage occurs, metal plates in the hanger element interlock so that complete loss of support is less likely
- Hanger cage is galvanised for corrosion resistance

## OPTION

- Moulding in alternative elastomers or load ratings to special order

## SPECIAL FEATURE (RH1 and RHD1 ONLY)

In these models, the active rubber element is normally located by metal fingers so that the element maybe readily changed. When used for the support of acoustic ceilings, the element can be permanently fastened into the cage so that no dislocation can occur if ceiling panels are lifted for entry into service space.



**RH / RHD**

## RH / RHD PRODUCT GUIDE

Type	Colour	Max Load kg	Dynamic Factor	Static Deflection mm		Height H mm		L mm	W mm	D mm	G max mm
				RH	RHD	RH	RHD				
RH1 or RHD1	Blue	17	1.0	5	8	31	38	75	60	50	10
	White	25	1.0								
	Red	40	1.2								
	Green	55	1.3								
RH2 or RHD2	White	70	1.1	6	10	41	54	130	75	65	16
	Red	100	1.2								
	Green	160	1.4								
	Grey	250	1.5								
RH3 or RHD3	White	145	1.2	6	12	55	82	160	105	95	20
	Red	200	1.3								
	Green	300	1.4								
	Grey	500	1.6								
RH4 or RHD4	Blue	380	1.2	6	12	58	88	200	128	100	26
	White	580	1.4								
	Red	850	1.5								
	Green	1,300	1.6								

## DYNAMIC CHARACTERISTICS

Rubber mounts differ from spring mounts in that the natural frequency is a function not only of deflection, but also of the rubber hardness (durometer).

The natural frequency is usually greater than indicated by static deflection alone. For effective assessment of natural frequency, multiply natural frequency obtained from static deflection by the dynamic factor given in the table.

## PERFORMANCE CHARACTERISTICS

Axial Loads: See Table – Load/Deflection is close to linear from 10% to 100% load.

Creep: Max 4% deflection per decade of time (ref 1 minute).

## HANGER SELECTION

When selecting hangers, it is recommended that the calculated mass of equipment is increased by 10-20% to avoid overloading of any element. If maximum rated deflections are required, then equipment should be weighed and an accurate assessment of point loads made.

## INSTALLATION

1. Piping or equipment should be hung at its proper elevation by using temporary fixtures that can be removed after hangers are installed and adjusted.
2. Hangers may be fastened directly to the structure or inserted in the hanger rod, but for best results hangers should be at or near the ceiling. When used for pipe support, where little longitudinal expansion is likely, the cages may be hard bolted to the support point.
3. Ensure the structural support point is vertically above the centre of the pipe or equipment support point.
4. Once loaded, remove all temporary supports and adjust levels as required.



**RH INSTALLATION EXAMPLE**

## TECHNICAL ASSISTANCE

All Embelton offices can provide detailed technical assistance on the use of this product in specific applications.

## CONDITIONS OF SALE

These products are sold subject to the published Embelton General Conditions of Sale, copies of which may be inspected on request.

## SPECIFICATION

Suspension hangers shall have an active rubber element colour coded for easy identification of load capacity, with a minimum deflection under rated load of 5mm incorporating separate steel top and base plates completely embedded in the elastomer, which interlock in the event of fire or mechanical damage. They shall be type RH (RHD) as supplied by Embelton.