

Isolation Hanger Elements RHE / RHDE

Single and Double Deflection Rubber

APPLICATION

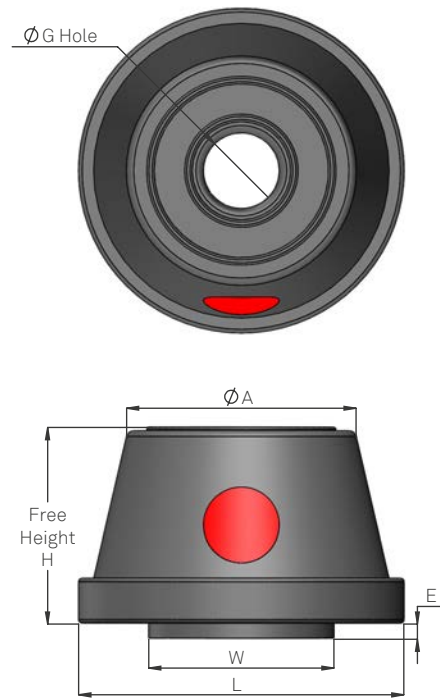
Where a low cost, low deflection hanger element is required for effective isolation of noise and vibration from equipment with speeds of 1000 RPM upwards. Typically used for trapeze-supported piping, packaged air conditioners, fan coil units and fans; particularly where height limitations are present.

FEATURES

- Static deflection ranges from 5 to 12mm
- Colour coded for easy identification of load range
- All metal parts are embedded in the elastomer
- Direct contact between hanger rod and structure prevented by an integral sleeve which locates the base
- If mechanical or fire damage occurs to the hanger element, metal plates interlock so that complete loss of support is less likely

OPTION

- Moulding in alternative elastomers or load ratings to special order
- Internal washers available in stainless steel for extra corrosion resistance
- Type RHE1/RHDE1 can be supplied with matching right angle bracket for wall or equipment side mount (LHB Bracket). See equipment mount images on next page.



RHE / RHDE

RHE / RHDE PRODUCT GUIDE

Type	Colour	Max Load kg	Dynamic Factor	Static Deflection mm		Height H mm		L mm	W mm	A mm	G (max) mm	E mm
				RHE, CHE	RHDE	RHE, CHE	RHDE					
RHE1 or RHDE1	Blue	17	1.0	5	8	27	34	45	25	36	10	2
	White	25	1.0									
	Red	40	1.2									
	Green	55	1.3									
RHE2 or RHDE2	White	70	1.1	6	10	32	45	60	30	45	16	3
	Red	100	1.2									
	Green	160	1.4									
	Grey	250	1.5									
RHE3 or RHDE3	White	145	1.2	6	12	45	72	85	38	68	22	6
	Red	200	1.3									
	Green	300	1.4									
	Grey	500	1.6									
RHE4 or RHDE4	Blue	380	1.2	6	12	46	76	106	40	100	26	6
	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 hanger elements, it is recommended that a safety factor of 10-20% is applied to the calculated mass of equipment 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. This type of hanger maybe installed above the supporting structure, or below the equipment support point. A clearance hole must be provided in the support structure through which the rod passes.
2. Clearance hole should be at least equal to dimension shown in the table on page 48.
3. When under load, adjustment of height can be made at either end of the support rod, whichever is more convenient.

TECHNICAL ASSISTANCE

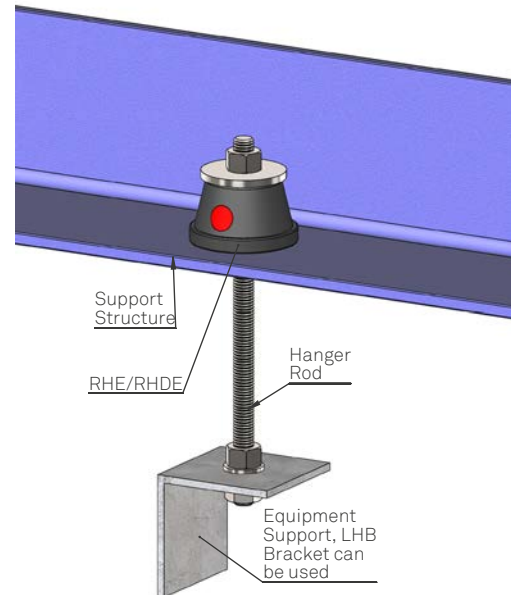
All Embelton offices can provide detailed technical assistance on the use of this product in specific applications.

CONDITIONS OF SALE

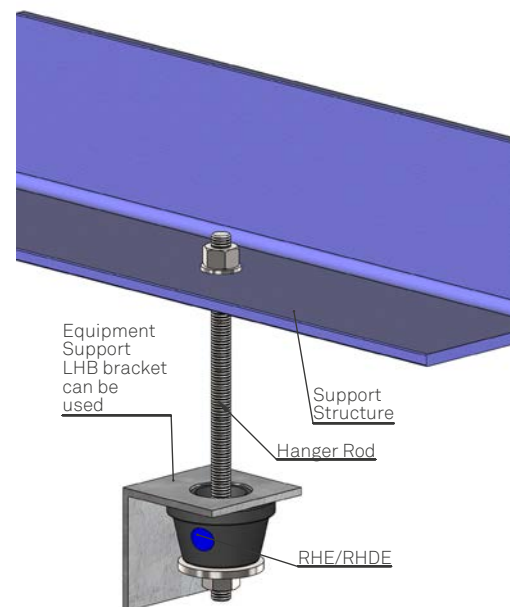
These products are sold subject to the published Embelton General Conditions of Sale, copies of which maybe inspected on request.

SPECIFICATION

Rubber suspension elements shall have 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, with elements colour coded for easy identification of load capacity. They shall be type RHE and RHDE as supplied by Embelton.



RUBBER TOP EQUIPMENT MOUNT



RUBBER BOTTOM EQUIPMENT MOUNT