Metalastik® type D series, Super D & DX mountings

Metalastik® type D series

Metalastik® D Series Mountings are suitable for the suspension of heavy equipment or machinery where insulation against low frequency vibration is required with the additional benefit of excellent high frequency acoustic attenuation.

Applications/Features

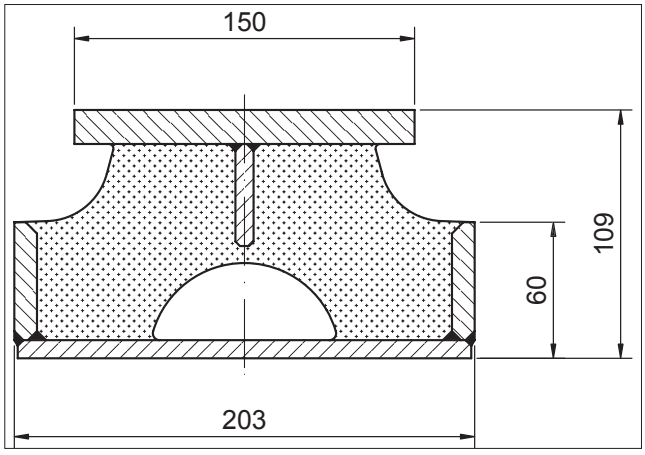
The relatively large rubber volume ensures high degrees of insulation against low frequency disturbing vibrations.
Differing stiffness rates in the two horizontal modes enables suspension characteristics to be optimised by appropriate orientation of the mountings.

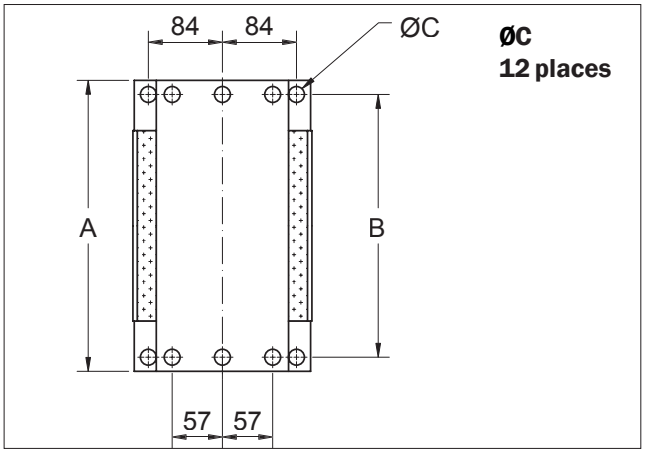
The mountings can be used in conjunction with additional bonded rubber buffers to limit movement of the suspended equipment under shock loading.

Parts can be supplied to meet naval specification requirements and also with plain flanges for drilling by the customer.

Applications include:

- Medium speed marine propulsion engines
- Generator sets
- Gearboxes
- Pumps
- Compressors and refrigeration systems





D series

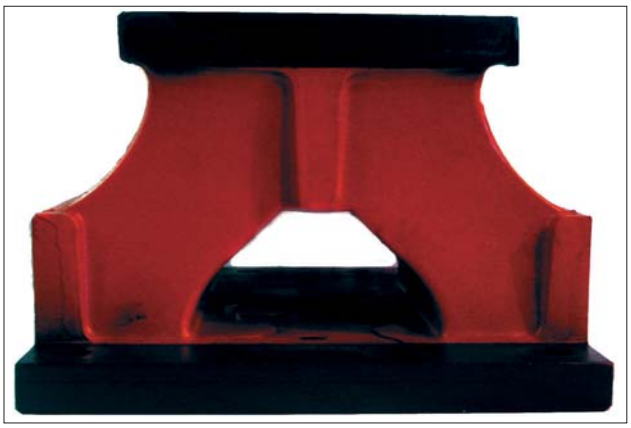
All dimensions in mm

Product No.	A	B	C	Weight (kg)	Rubber Hardness	Vertical Static Stiffnes (N/mm)	Vertical Dynamic Stiffness (N/mm)	Maximum Static Load (kN)
17-1601	330	298	18	15	45	880	1010	14.2
					55	1315	1640	21
					65	1960	2650	31.4
17-1602	267	235	14	12	45	805	920	12.75
					55	1200	1520	19
					65	1710	2320	27.5
17-1603	210	178	14	9	45	410	470	6.6
					55	610	755	9.5
					65	900	1215	14.2

Nominal Stiffness Ratios

Vertical	Lateral	Longitudinal
1	0.95	0.17

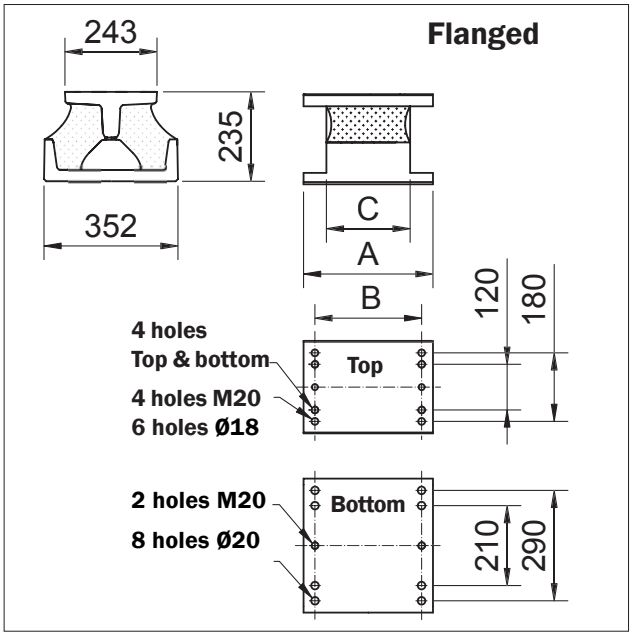
Metalastik® type D series, Super D & DX mountings

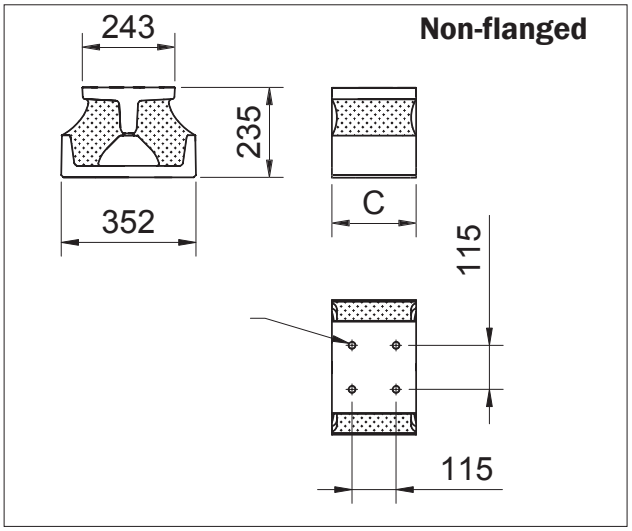


Metalastik® type Super D

The "Super D" mounting range is designed primarily for heavy marine installations requiring increased shock capacity. These mountings operate at a nominal static deflection of 23 mm and can accommodate up to 50 mm shock excursions in any direction.Buffer 15-3671 with low friction contact pad is often used with Super D mounts to limit movement under extreme shock forces, particularly as a non metallic rake and ramming stop, which is shown on the last page.

Please refer to page 4 for further information on buffer arrangements.

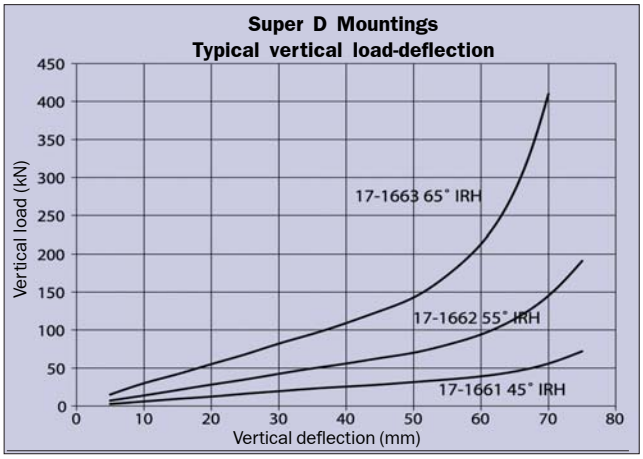




Super D

All dimensions in mm

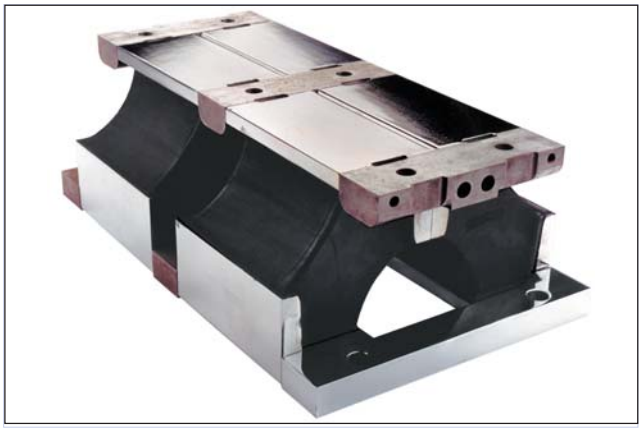
Product No.	A	B	C	Mass Weight (kg)	Rubber Hardn.	Vertical Static Stiffnes (N/mm)	Vertical Dynamic Stiffness (N/mm)	Max Static Load (kN)
Flanged type								
17-1736	340	280	220	65	45	620	710	14.2
					55	920	1160	21
					65	1375	1965	31.5
17-1737	410	350	290	81	45	835	960	19
					55	1275	1180	29.5
					65	1960	2650	44
17-1738	480	420	360	97	45	1325	1520	30.5
					55	1960	2450	45
					65	2940	3975	67.8
Non-flanged type								
17-1661			220	48.5	45	620	710	14.2
					55	920	1160	21
					65	1375	1965	31.5
17-1662			290	64	45	835	960	19
					55	1275	1180	29.5
					65	1960	2650	44
17-1663			360	80	45	1325	1520	30.5
					55	1960	2450	45
					65	2940	3975	67.8



Nominal Stiffness Ratios

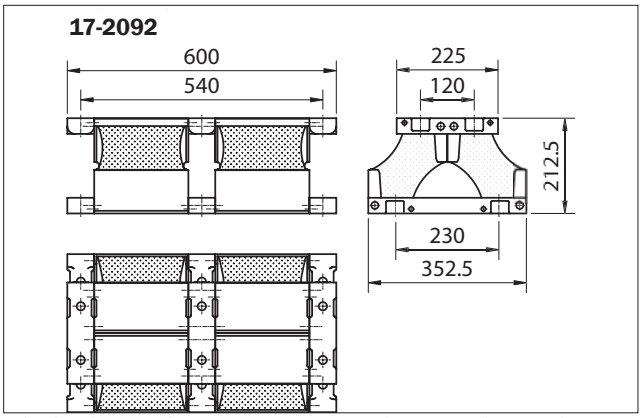
Vertical	Lateral	Longitudinal
1	1	0.22

Metalastik® type D series, Super D & DX mountings

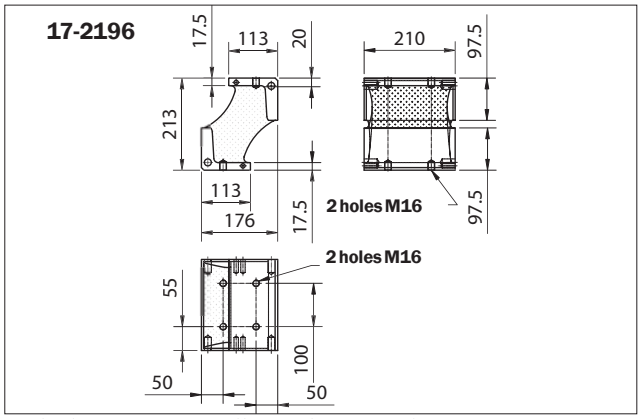


Metalastik® type DX mountings

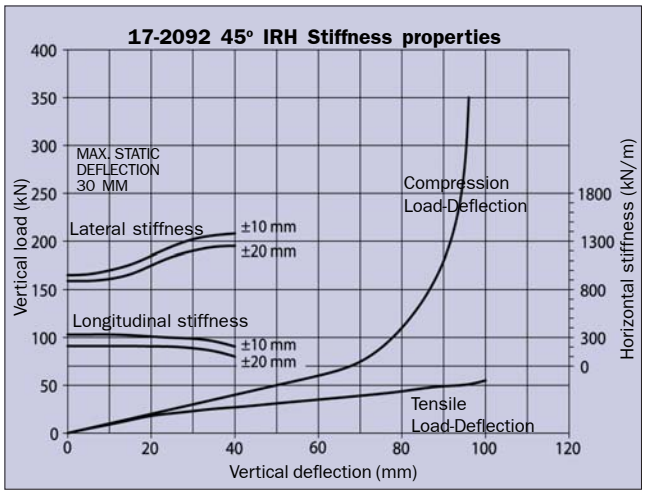
"DX" mountings complement the other two mounting types in the range and provide an extended shock deflection capability of up to 100 mm in the vertical direction. This allows non-ruggedised equipment to be used in military marine applications. The DX mounting can be used as a single element in confined spaces.

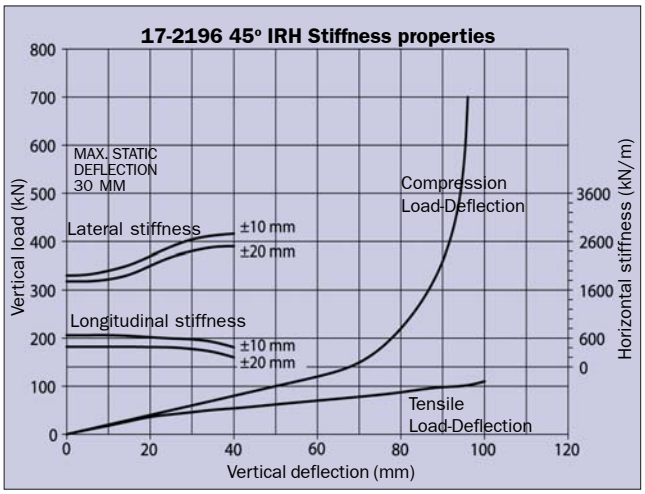


The loading and stiffness properties shown in the graphs refer to a mounting assembly comprised of four bonded rubber/metal elements.



Each element is generally similar to product no. 17-2196 which may be used in pairs to provide substantially the same vertical and horizontal stiffness rates. This is similar to two sandwich mountings inclined at 45 degrees but with flat fixing surfaces resulting in simplified and compact installation.





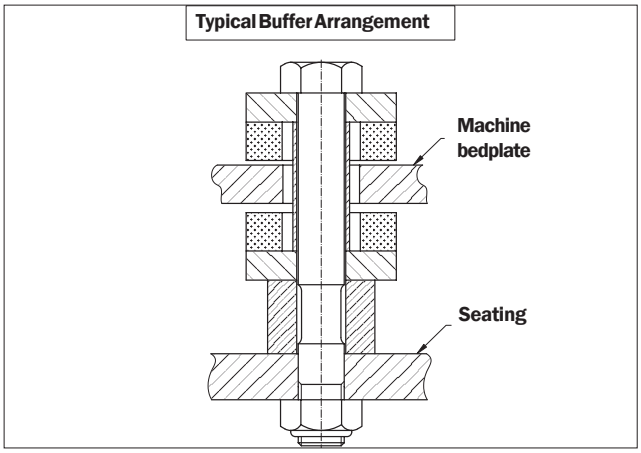
Metalastik® type D series, Super D & DX mountings

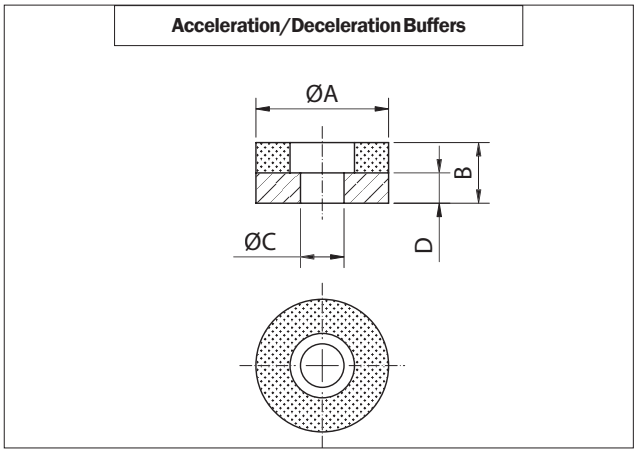
Metalastik® type Buffers

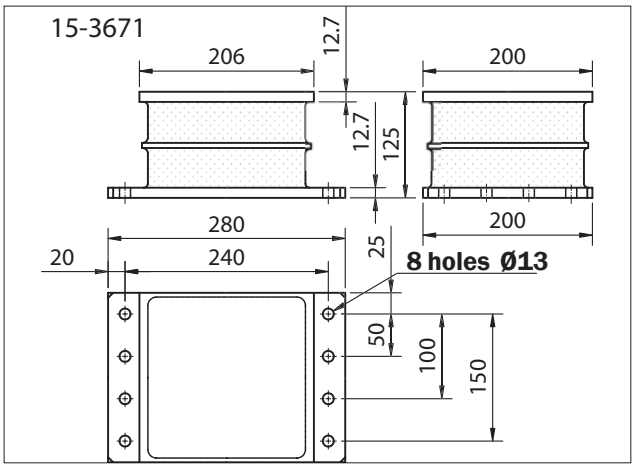
In addition to the mountings, buffers are used to limit movement under seaway conditions and shock loading. Shown below are examples of buffers and typical arrangement details.

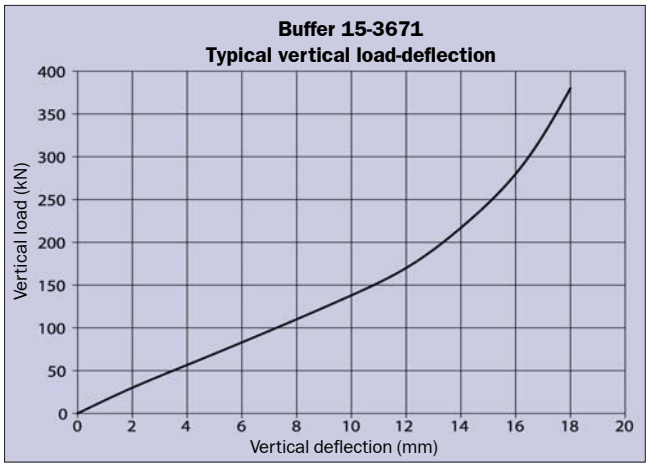
Acceleration/Deceleration buffers

Product No.	A	B	C	D
15-3420	98	45	32	19
15-3421	86	41	26	16
15-3422	111	51	38	25
15-3550	150	50	44	25
15-3551	120	50	37	25









TRELLEBORG

Trelleborg Industrial AVS, 1 Hoods Close, UK-Leicester LE4 2BN. Tel: +44 116 267 0300. Fax: +44 116 267 0301.
www.metalastik.com

M105 E/1 09 02