



# Captive Rubber Mountings, Hangers And Heat Resistant Pads.

Type CRM2, CRM3 & HRP



A universal captive rubber mounting for supporting, hanging, anchoring and guiding pipework, particularly exhaust systems on board ship.

Designed specifically for use in high ambient temperature conditions for the control of vibration throughout the audible frequency range.



Excellence in Anti Vibration Technology Since 1914

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## Design Features

- Tested at 40°C ambient with eyebolt at 400°C (300 mm drop rod and turnbuckle fitted) resulted in only 2°C temperature rise at inner rubber surface.
- Rubber insert is moulded in five variants 35, 45, 55, 65 and 70 IRHD (International Rubber Hardness).
- Rubber insert provides excellent high frequency attenuation performance.
- Unit remains captive and fail-safe whether used as a supporting mount or hanger.
- CRM2 has an M12 upper fixing and the CRM3 has an M20 upper fixing.
- Both CRM's can be bolted to the structure with 2 x M12 bolts or supplied fitted with a sole plate to permit fixing by welding.
- Optional heat insulation pad, please see page four.
- The CRM2 hanger is supplied complete with turnbuckle & eyebolt as standard. The CRM3 hanger is supplied complete with turnbuckle & jaw end as standard. Optional 1m long drop rod available.
- High transverse/axial stiffness ratio ideal for use as a 'flexible anchor'.
- Capable of 15° angular misalignment.

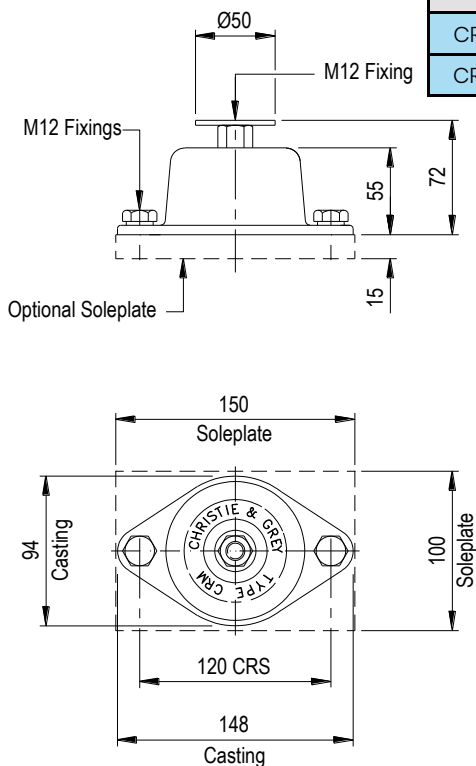
## Typical Applications

- Marine Exhaust Systems.
- Industrial Exhaust Systems.
- Ductwork and Attenuators.
- High Speed Rotating Machinery.
- Shock Mount for Control Cabinets, Instrument Racks etc.

## TYPE CRM MOUNTING & HANGER SIZE 2

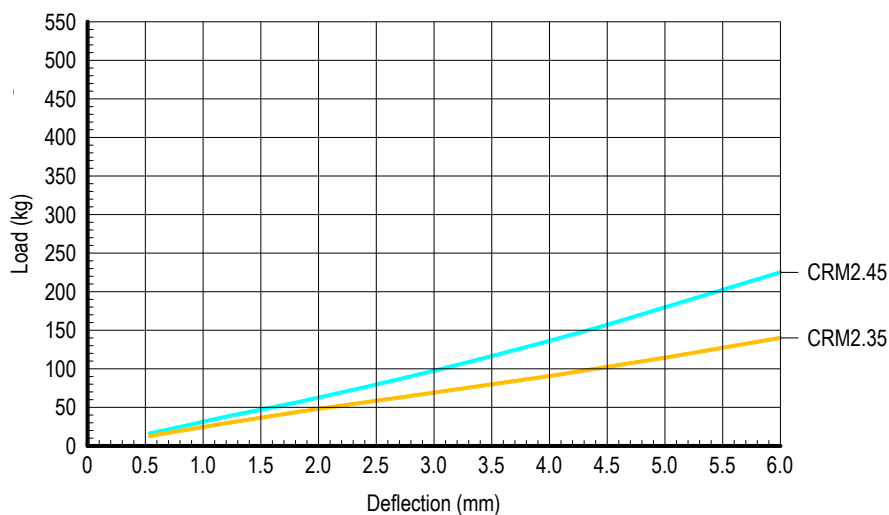
| PART No. |           | CONNECTION<br>FIXING SIZE<br>(mm) | RATED<br>LOAD<br>(kg) | DEFLECTION<br>AT RATED<br>LOAD (mm) | WEIGHT<br>MAX (kg) |        |
|----------|-----------|-----------------------------------|-----------------------|-------------------------------------|--------------------|--------|
| MOUNTING | HANGER    |                                   |                       |                                     | MOUNTING           | HANGER |
| CRM2.35  | CRM2.35.H | M12                               | 140                   | 6                                   | 1.2                | 1.5    |
| CRM2.45  | CRM2.45.H | M12                               | 225                   |                                     |                    |        |

### CRM2 MOUNTING

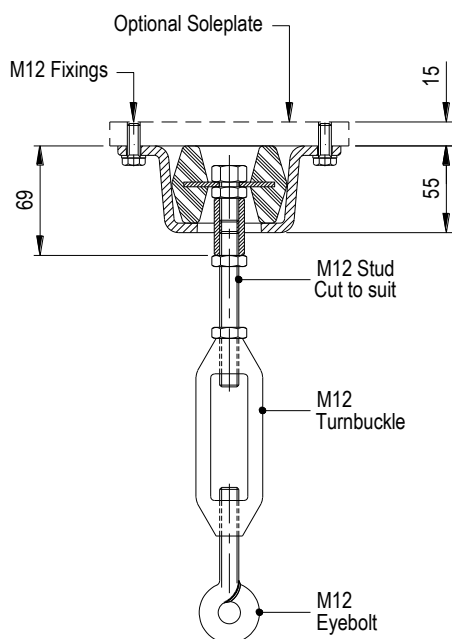


### LOAD/DEFLECTION CHARACTERISTICS

#### FOR CRM CAPTIVE RUBBER MOUNTING & HANGER



### CRM2 HANGER



### Application Notes:

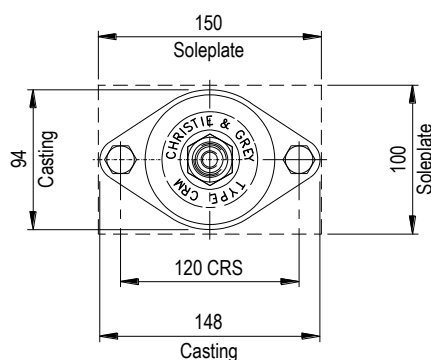
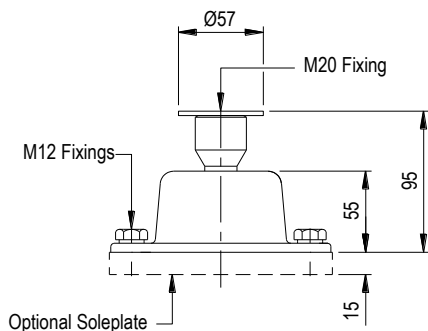
- The CRM2 hanger is supplied complete with turnbuckle & eyebolt as standard. Optional 1m long drop rod available.
- We recommend that all fixing bolts used are high tensile Grade 8.8 or higher.
- Optional 15mm thick soleplate available, please specify PT No. 4149 when ordering.
- For replacement internal components, please request a quotation for CRM2.\*\*.02, (\*\* denotes shore hardness required).
- For a shorter length version of our CRM2 Hanger, please ask for details of our CRM2.\*\*.HJE.
- Ø50 washer MUST be used with CRM2 mounting when combined with heat resistant pad.

**For full instructions please refer to our datasheets DS081**

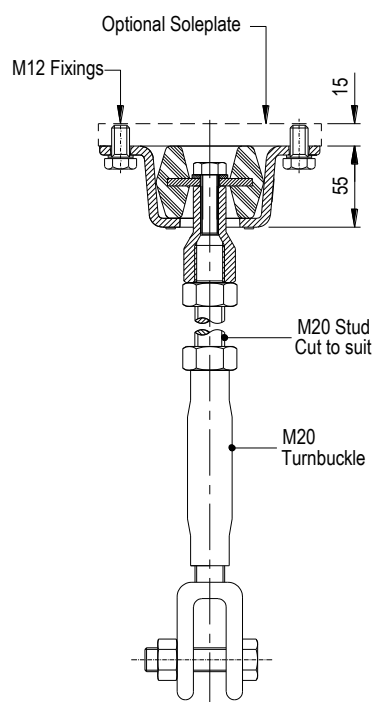
**For more detailed information and technical assistance please contact our Technical Department.**

In the interests of continual development, the Company reserve the right to make modifications to these details without notice.

### CRM3 MOUNTING



### CRM3 HANGER

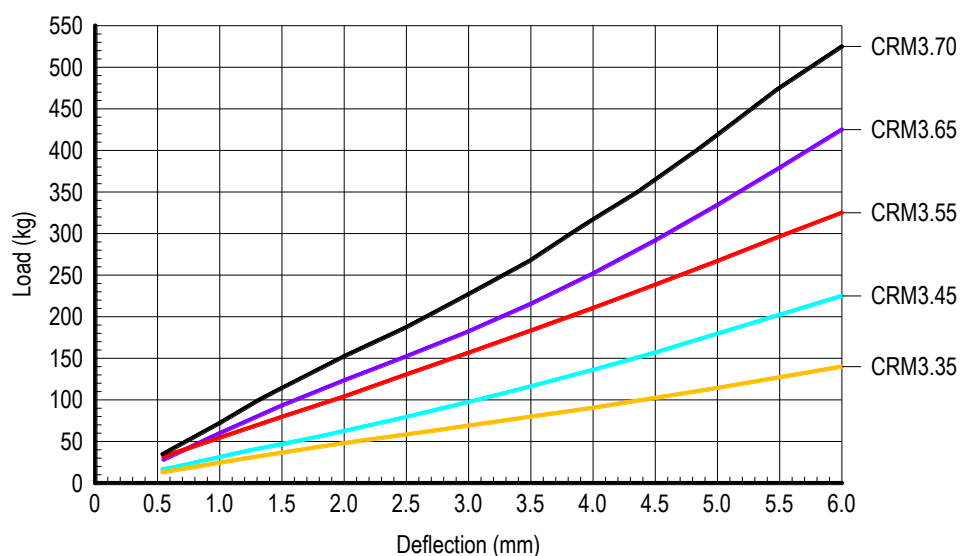


### TYPE CRM MOUNTING & HANGER SIZE 3

| PART No. |           | CONNECTION<br>FIXING SIZE<br>(mm) | RATED<br>LOAD<br>(kg) | DEFLECTION<br>AT RATED<br>LOAD (mm) | WEIGHT<br>MAX (kg) |        |
|----------|-----------|-----------------------------------|-----------------------|-------------------------------------|--------------------|--------|
| MOUNTING | HANGER    |                                   |                       |                                     | MOUNTING           | HANGER |
| CRM3.35  | CRM3.35.H | M20                               | 140                   | 6                                   | 1.2                | 3.0    |
| CRM3.45  | CRM3.45.H | M20                               | 225                   |                                     |                    |        |
| CRM3.55  | CRM3.55.H | M20                               | 325                   |                                     |                    |        |
| CRM3.65  | CRM3.65.H | M20                               | 425                   |                                     |                    |        |
| CRM3.70  | CRM3.70.H | M20                               | 525                   |                                     |                    |        |

### LOAD/DEFLECTION CHARACTERISTICS

#### FOR CRM CAPTIVE RUBBER MOUNTING & HANGER



#### Application Notes:

- CRM3 has an M20 upper fixing.
- The CRM3 hanger is supplied complete with turnbuckle & jaw end as standard. Optional 1m long drop rod available.
- We recommend that all fixing bolts used are high tensile Grade 8.8 or higher.
- Optional 15mm thick soleplate available, please specify PT No. 4149 when ordering.
- For replacement internal components, please request a quotation for CRM3.\*\*.02, \*\* denotes shore hardness required.
- Ø57 washer MUST be used with CRM3 mounting when combined with heat resistant pad.

**For full instructions please refer to our datasheets DS081**

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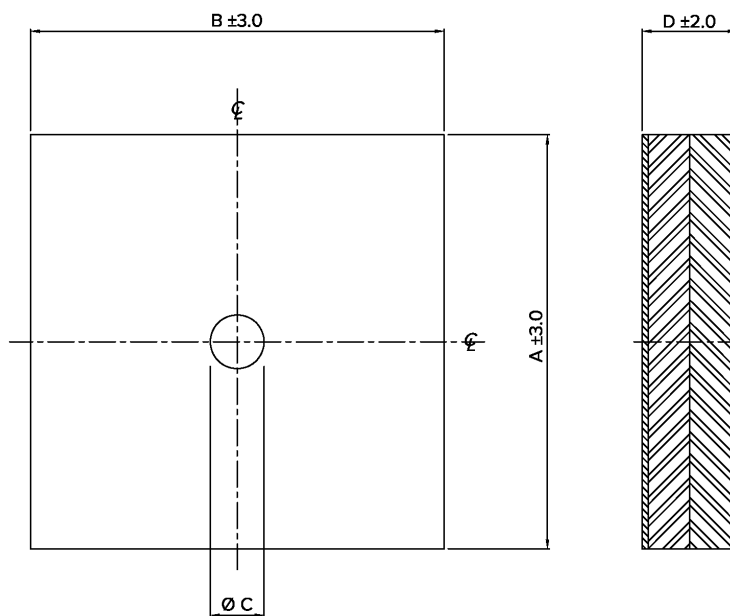
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### HEAT RESISTANT PADS

| PART No.      | DIMENSIONS (mm) |     |               |     |
|---------------|-----------------|-----|---------------|-----|
|               | 'A'             | 'B' | 'C' +2.0/-0.0 | 'D' |
| HRP.100.46.13 | 100             | 100 | 13            | 46  |
| HRP.100.46.18 |                 |     | 18            |     |
| HRP.100.46.21 |                 |     | 21            |     |
| HRP.150.46.13 | 150             | 150 | 13            | 46  |
| HRP.150.46.18 |                 |     | 18            |     |
| HRP.150.46.21 |                 |     | 21            |     |
| HRP.170.46.21 | 170             | 170 | 21            | 46  |
| HRP.170.52.26 |                 |     | 26            | 52  |
| HRP.200.46.21 | 200             | 200 | 21            | 46  |
| HRP.200.52.26 |                 |     | 26            | 52  |



#### Application Notes:

- Each HRP kit is supplied with 2 no. Mild Steel or Zintec plates and 2 no. 20 mm thick heat resistant pads.
- Heat Resistant pad material is a rigid insulation board with a low thermal conductivity. They are specifically formulated without asbestos and mineral fibres.
- Heat Resistant pads have low shrinkage and high strength and therefore provide effective and stable insulation solutions for industrial and marine applications.
- Heat Resistant pad material combines high mechanical strength, good thermal and electric insulation at high temperatures.

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