SENOR

# BF-25 G/M8

## **RUBBER** MOUNT FOR
## **AIR CONDITIONERS** AND **HEATING UNITS**

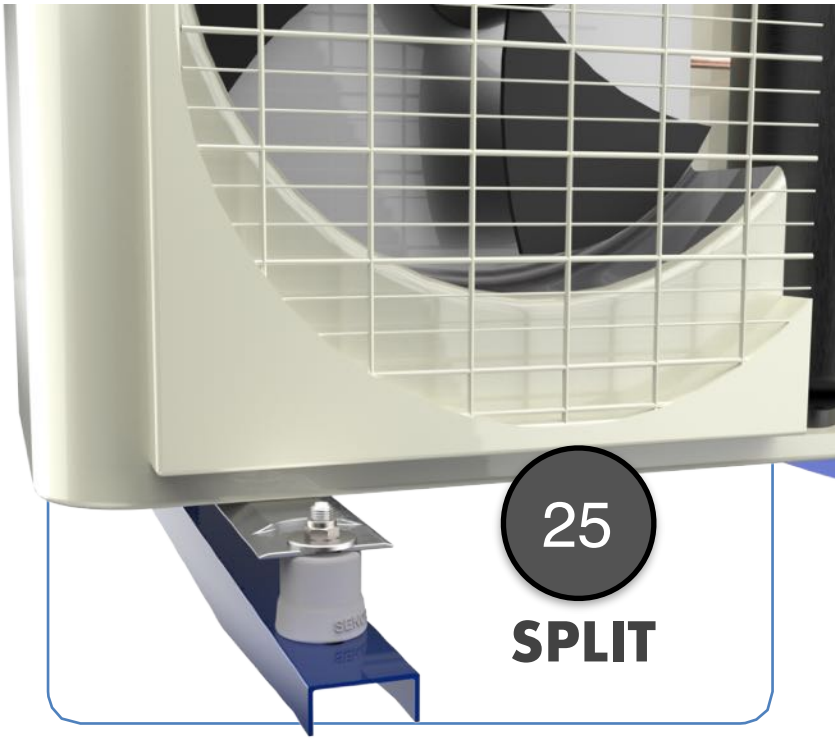
The **BF-25 G/M8** model is a **rubber** mount made with high quality raw materials and with the last technology. It is designed to support heating and air conditioners units outside buildings.

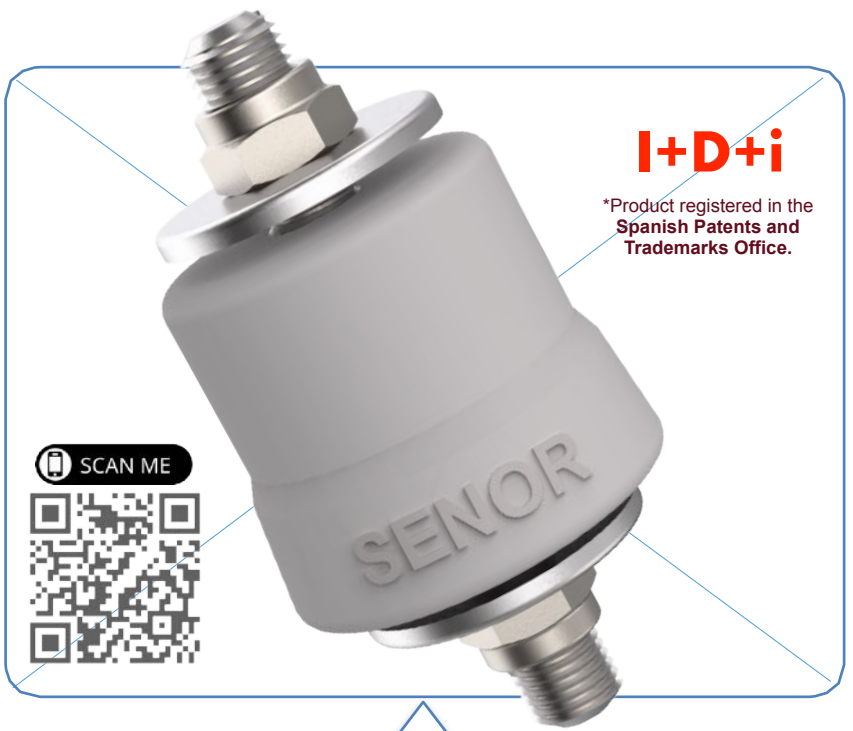
The **BF-25 G/M8** model is a mount with direct fastening and double locking screw (metric 8). It is designed to eradicate and attenuate vibrations transmission caused by impacts or blows from units producing noise pollution above the hearing threshold (**1200 rpm or 20 Hz**).

- The polymer: this mount is composed of a polymer named **KRAIBURG-TPE** which is tested according to the Spanish Standard **UNE-EN ISO 10846-1:2009.**

✓Its ergonomic design allows a better axial compression.

✓Resonance frequency: **7-15 Hz**.




**I+D+i**

*Product registered in the **Spanish Patents and Trademarks Office.**

| REF. | COLOUR | METRIC MIN-MAX | UNITS | LOAD (Kg) MIN-MAX | PACKING |
|---|---|---|---|---|---|
| SE-BF-25 G | ■ | 8 | Brackets | 05 - 25 | 4 |

### TYPE

Rubber mount with direct fastening


### USE

It is designed to support air conditioners units and heating on brackets outside buildings.

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## Laboratory test

**UNE-EN ISO 10846-1:2009**

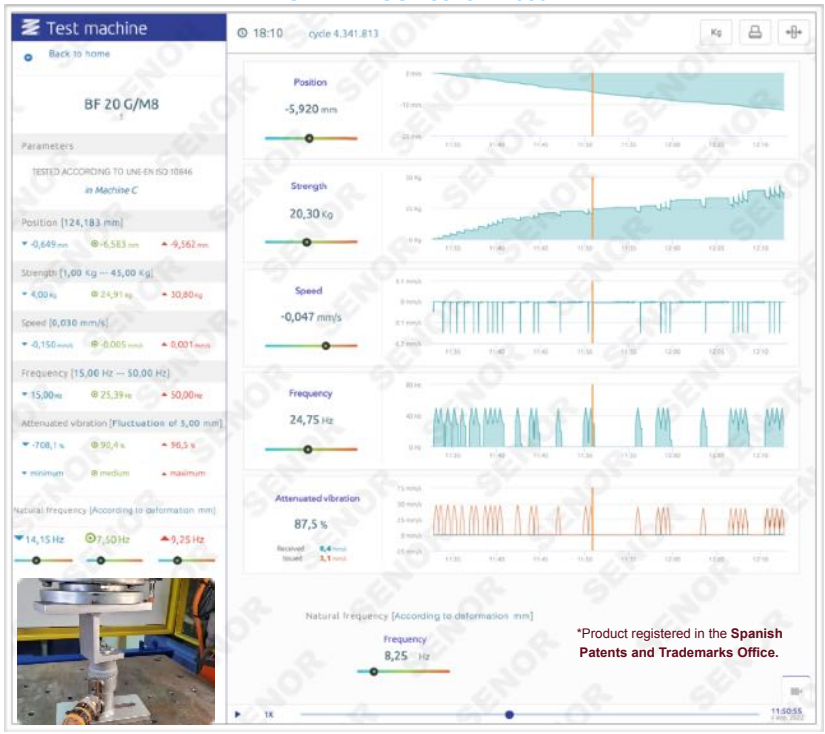


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Chart 1

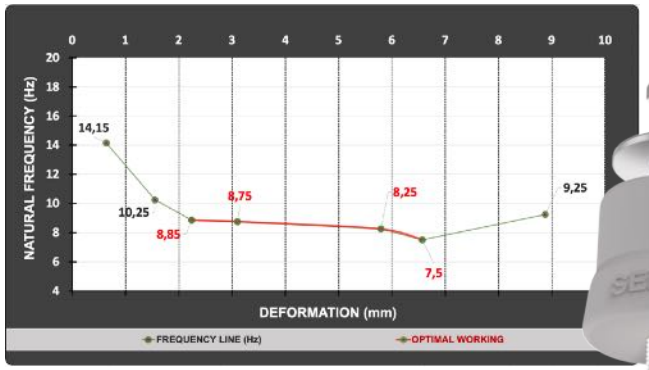
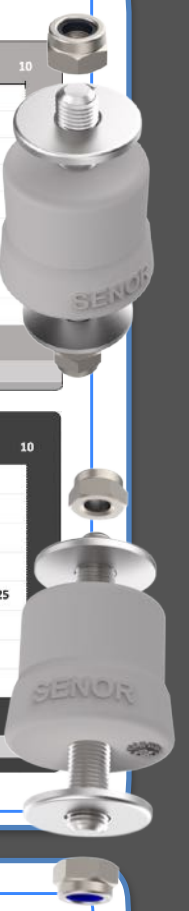




Chart 2



Results table

| LOAD (Kg) | DEFORMATION (mm) | RESONANCE FREQUENCY (Hz) | SWEEP (Hz) | | SOUNDPROOFING LEVEL (%) | |
|---|---|---|---|---|---|---|
| 4 | 0,64 | 14,15 | 25 | 50 | 52,86 | 91,29 |
| 8 | 1,55 | 10,25 | 25 | 50 | 79,79 | 95,61 |
| 12 | 2,24 | 8,85 | 25 | 50 | 85,67 | 96,77 |
| 16 | 3,10 | 8,75 | 25 | 50 | 86,04 | 96,84 |
| 20 | 5,79 | 8,25 | 25 | 50 | 87,78 | 97,20 |
| 24 | 6,57 | 7,50 | 25 | 50 | 90,11 | 97,70 |
| 28 | 8,88 | 9,25 | 25 | 50 | 84,14 | 96,46 |

KRAIBURG TPE — **Information**

| **TC3GPN** (GP/FG Series) | | THERMOLAST® K |
|---|---|---|
| **Product properties** | | |
| **Name** | TC3GPN | |
| **Series** | GP/FG | |
| **Colour / RAL DESIGN** | Grey | |
| **Mechanical properties** | | |
| **Hardness** | 28° +- 5° ShoreA | DIN ISO 7619-1 |
| **Density** | 1.100 g/cm3 | DIN EN ISO 1183-1 |
| **Tensile Strength 1** | 5.0 MPa | DIN 53504/ISO 37 |
| **Elongation at break 1** | 750 % | DIN 53504/ISO 37 |
| **Tear resistance** | 14.0 N/mm | ISO 34-1 Methode B (b)(Graves) |
| **CS 72 h/23 °C** | 10 % | DIN ISO 815-1 Method A |
| **CS 24 h/70 °C** | 26 % | DIN ISO 815-1 Method A |
| **CS 24 h/100 °C** | 66 % | DIN ISO 815-1 Method A |

[1] Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/mi.

All values published in this data sheet are rounded average values.

Youtube

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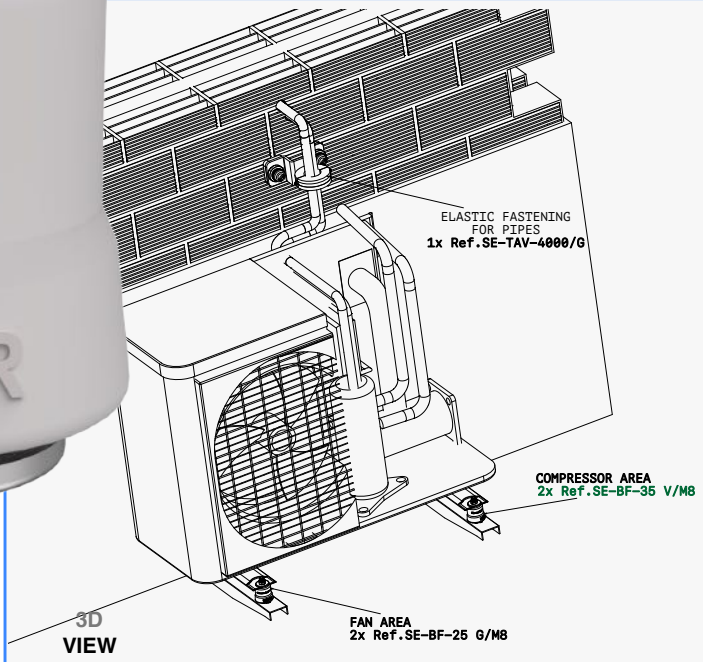


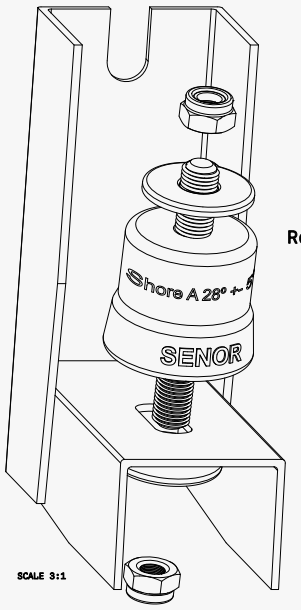


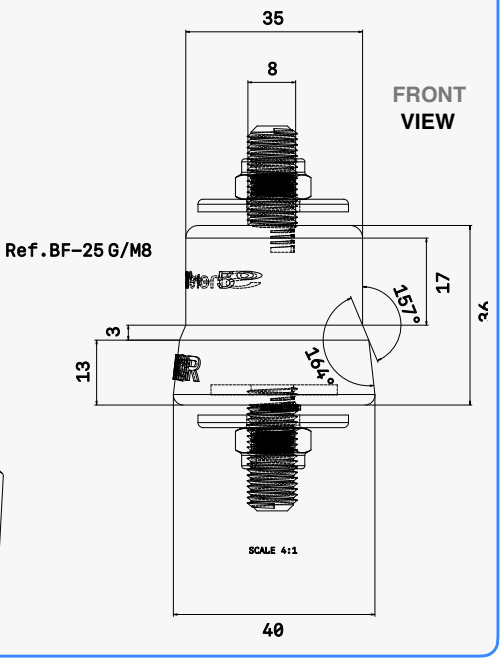


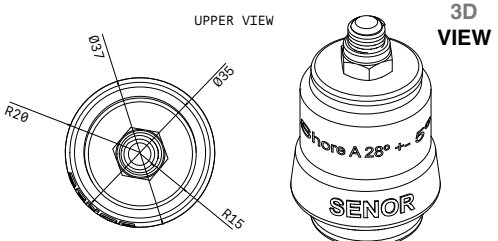





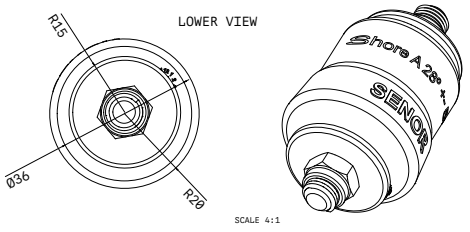





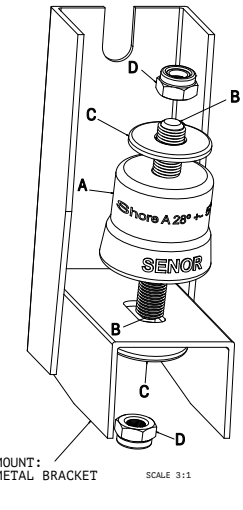


## MATERIALS

This mount is composed of:

- A: 1x - The polymer **KRAIBURG-TPE / TC3GPN. Hardness:** 28 +- 5º SHORE A. **Colour**: Grey Hardness according to **ISO 48-4 o DIN ISO 7619-1**.

✓ Resonance frequency: **7-15 Hz**.

- B: 2x - **Locking screws 8x26** made of zinc galvanised steel with metric 8.
- C: 2x - **Wide flange washer DIN-9021** made of zinc galvanised steel metric 8.
- D: 2x - **Self-locking nut DIN-985 C.6** made of zinc galvanised steel metric 8.

Youtube

SENOR Aisladores **Acústicos**

# Ref. BF-25 G/M8

## Note

**POSITIONS**

The gravity center of units does not usually run into the geometric center.

These units has severals pieces inside such as : compressor, pipes connection, fans, etc.

As a result, the 70 % of the weight is in compressor area while the rest, the 30 %, is in the fan area. Therefore, we can not put 4 identical mounts.

The acoustic response of the mount is obtained from axial deformation, so we have to put the correct mount in each support point.

The **BF/M8** model has 4 hardness distinguished by colours:

**GREY**: 5 kg up to 25 kg.
**GREEN**: 20 kg up to 35 kg.
**BLUE**: 35 kg up to 45 kg.
**RED**: 45 kg up to 60 kg.


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SENOR **certifies**

## Ref. BF-25 G/M8

**SENOR** reserves the right to make changes in specifications at any time without prior notice. It is a responsibility of the user to use the latest and updated version of the product data sheet. **A copy of which will be available on request.**

**The Standard:** UNE-100-153-04

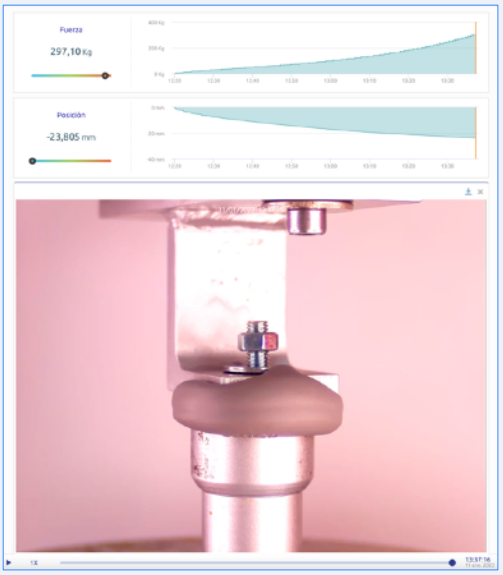
**Uses:** Air conditioning. Vibration isolators. Design criteria.

# Ref. BF-25 G/M8

## DEFORMATION AND BREAK TEST


Applied load: 24,10 kg


Applied load: 35,40 kg




Applied load: 297,10 kg

**Date:**
SENOR 11 January 2022

**Failure mode**

This mounts exceeds the elastic limit by reaching **35,40 kg.** A higher load is applied and when 297,10 kg are reached the rubber is deformed and the test is concluded.

**Conclusion**

This mount is designed to bear loads between **5** kg up to **25** kg (maximum load). It strictly complies with standard **UNE-100-153-04** Air conditioning. Vibration isolators: design criteria.

**To watch the test:**

SCAN ME