

INSULATION

Maxbond Carpet Cushion Insulation Properties Explained

Comfort	10 Star
Thickness	11mm
Maxbond™	120kg
Quadmesh™	7b
Insulation	3.0tog
Acoustic	44db
Antimicrobial	Yes

Thermal Insulation (tog)

By using carpet cushion you are providing an additional layer of insulation, which reduces the heat lost through floorboards and also limits under floor draughts.

The insulation effectiveness is measured by a **TOG rating**. TOG rating is a global measure of thermal resistance of a unit area, commonly used in the textile industry especially on duvets and carpet cushion.

The carpet cushion with the highest TOG rating will give you the best insulating properties. Carpet cushion ratings tend to be in the 1.5 to 3.4 TOG range. As a comparison summer weight duvet inners are typically between the 3.0–4.5 TOG range.

Conversely the lower the TOG rating the better it will be for underfloor heating to travel through. It is recommended for underfloor heating to be effective when carpeted, the carpet cushion rating ideally should be less than TOG rating of 2.0.

Please note:

- For more technical information on TOG ratings please look at Wikipedia explanation: [http://en.wikipedia.org/wiki/Tog_\(unit\)](http://en.wikipedia.org/wiki/Tog_(unit))
- Heat insulation figures quoted are for the carpet cushion only, if rating for the rest of the floor including carpet is known then this can be added to provide the total result.
- Heat insulation properties by themselves do not necessarily reflect the overall quality of the carpet cushion.

Acoustic Insulation (db)

The installation of carpet cushion reduces sound not only in the room itself but also the transference of sound to the room below.

The ratings quoted show the noise reduction properties in terms of **db** so that comparisons can be made between different products. The higher the figure, the greater the noise reduction. Ratings are based on impact sound reduction and not airborne sound.

Please note:

- Acoustic sound insulation figures quoted are for the carpet cushion only, if rating for the rest of the floor including carpet is known then this can be added to provide the total result.
- Acoustic properties by themselves do not necessarily reflect the overall quality of the carpet cushion.