

ThermoQuiet[®]

“Thermal/Acoustic Mat”

*Improve your living environment
Reduce your heating cost*

5 In 1 Underlay Solution

Features:

1. Certified Vapor barrier
2. Certified Thermal barrier
3. Certified Acoustic Barrier
4. Integrated Radiant Barrier Reflective film surface.
5. Heavy Duty EPDM rubber wear layer provides unparalleled strength and tear (anti-fracture) resistance.



Ideal for Use under:

Low-Profile Hydronic Pipe or Electric-Mesh Radiant Heated Floors*

- Integrated Reflective Radiant / Vapor Barrier (Keeps heat in the room where you want it)
- Reinforced Metallized Reflective Radiant surface film-core film Anti-Fracture layer *
- Proprietary 4 layer bonded lamination for meets high rise and commercial certification .
- Black Heavy Duty EPDM Wear /Acoustic layer (faces floor)
- Additional self-adhesive tape and lip for quick installs

Sound ratings - **STC 66 / IIC 68 and ΔIIC 20**

Thermal ratings - **R3.1**

***Can be used beneath Ceramic Tile glue, Tile mortar or Self-Levelling cement as BOTH a moisture and vapor resistant barrier and Anti-fracture layer.**

- Meets code requirements for residential and high rise applications
- Low V.O.C (Volatile Organic Compounds) - No off gassing or chemical residues.
- Easy to install, with integrated lip and tape for quick vapor-tight lap joints
- Can be glued -1 or 2 side, taped, stapled or floated prior to pipe install.

Caution: This product should NOT be used ABOVE radiant floor heating



Installation Detail:

1. Make sure that subfloor or surface concrete is dry, stable and dust free- Remove any loose chips , flakes or dust (trapped dust becomes an abrasive with surface movement and will reduce foam life).
2. Start install in the corner of the two longest walls. Roll out Thermoquite® about 6 feet. With the NON tape-lip edge against the longest wall and grey side facing down (unfold joint- tape edge as you go) . Using double sided tape or other fixture method, secure the starting edge to the floor surface in the starting corner and roll it to the the full length of the wall (room), cut off cleanly with a scissors or kraft knife - Again using double sided tape or other fixture method, secure the end of the first roll length to the floor so it is straight and tight.
- 3. TAPE EDGE DETAIL - Remove the white adhesive-strip protector by gently lifting from the starting edge and pull back at 45 degrees- remove only about 4- 6 feet at a time (This will prevent stepping on, or damaging the adhesive strip while moving around) .**
4. Now, continue to install each additional length, following the same details as in step 2. Only difference now is that you will be unrolling the next length OVER the exposed tape-lip and butting the NON-LIP edge against the foam sheet and over the tape lip , that has already been laid down (Do not overlap the two foam panels as this will caused raised edges which will affect the level of the foam layer under your surface covering (NOTE- If gluing down, simply apply regular multi-purpose carpet glue (with roller or brush) onto the existing flooring surface first, and then layout the TQ foam lengths as above. Mat is good to go once entire floor is covered and given about 3 hours to cure.
5. Now it is time to put down your Hydronic PEX Pipe or Electric Mesh :
 - a) Welded Wire Mesh - for zip-tie applications on concrete subfloors or
 - b) Plywood main or second floors - draw up your layout pattern on the blue side of the **Thermoquiet® Thermal/Acoustic Mat** , lay down your pipe and start stapling the pipe down from the inlet end (always making sure to leave enough loose pipe to connect to your infeed manifolds.)
 - c) Electric Mesh or Film - Heating Elements; Lay out Heating mesh, heating cable or Heating Film panels and then staple as directed- through both the film and the **Thermoquiet® Thermal/Acoustic Mat to secure in place.**
6. The final step is to apply your overpour cement top coat – This should now cover both the heating pipes or mesh to a minimum CLEAR depth of roughly 1.5 inches (CLEAR means: above the highest point on your pipe or heating mesh) . Once this self levelling layer has set you are ready to apply your final flooring surface .

Available Roll Sizes – **250ft²** (4ft x62.5ft) SKU# TQ250B35 - **500ft²** (4ft x125ft) SKU# TQ500B35

Caution: Do Not use nails or screws to attach surface flooring as it may puncture pipes or damage electric mesh. This product should NOT be used ABOVE radiant floor heating

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