



**EASYHEAT® Warm Tiles®
Floor Warming Cable System
Tile and Stone Over Cement
Backerboard**

EASYHEAT has developed a revolutionary new way to view installation details. These animated tutorials are for reference purposes only. Always follow the Installation Instructions included in every Floor Warming Kit to ensure a professional quality installation. We hope you enjoy our Industry First – the Warm Tiles Tutorials.

① SUBFLOOR:

3/4" exterior grade plywood substrate 16" (40.64 cm) o.c.

All surfaces should be between 40° F (4° C) and 90° F (32° C) and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI Specification AN – 3.8 "Requirements for Expansion joints" or TCA Detail EJ171 "Expansion Joints". Cementitious Back units: Follow TCA installation Detail W244. Do not cover expansion joints with mortar.

② BACKERBOARD:

1/2" (12.70 mm) cement backerboard

Install Cement Backerboard per installation instructions provided by manufacturer.

Be sure that the substrate is strong enough to support a tile or stone floor finish. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/720 for stone installation where L = span length .

③ STRAPPING:

Cable strapping stapled or screwed to substrate

Install the strapping onto the floor by following your preplanned sketch. Outside runs of strapping should be positioned so the tab clips will close towards the outside of all cable turns. Secure strapping to backerboard with wood screws or staples following manufacturer recommendations. Fasten the first end of the strapping to backerboard. Angle a screw to the opposing end of the cable to pull strapping tight to floor. Insure the strapping is snug against the floor. Install strapping on all perimeter runs of the room first. Then install subsequent runs of strapping at 30" to 36" (76cm to 91cm) intervals between the perimeter runs. Install extra screws every 12" - 18" (30cm -45cm) for center runs of strapping and every 5"-8" (12.7cm – 20.3cm) in outside runs.

④ CABLE:

EASYHEAT® Warm Tiles® Floor Warming Cable attached to substrate with strapping at standard 3" (7.62 cm) intervals

When routing heating cable to the beginning of the

strapping, use clips to attach heating cable to the subfloor.

Wind the cable at appropriate intervals and snap into the strapping slots. Then carefully turn the cable and snap into the next appropriate slot. Do not extend cable beyond the edge of the strapping. Close the first one or two hinged clips on strapping in order to hold the cable secure before proceeding to the next strapping run. Subsequent clips should be left open until cable placement is completed. Once the cable layout is completed, close all hinged clips, including the hinged clips not used, to securely fasten the cable to the floor, and flatten the height of the system prior to application of the thin-set. Use additional clips provided to fasten down any part of the cable that is not snug to floor.

5 SCRATCH COAT:

EASYHEAT® Warm Tiles® Floor Warming Cable imbedded in thin-set mortar or self-leveling underlayment

Comb on mortar with the flat side of the trowel, taking care not to nick the heating cables. Completely cover cables and strapping with thin-set mortar. Let thin-set dry following recommended times on thin-set package. If using self-leveling underlayment, follow directions on manufacturer package.

6 THIN-SET:

Thin-set mortar

Once the mortar has cured, install your tile or stone using standard tiling procedures for concrete and plywood sub-floors according to the Tile Council of America for the United States or by the Terrazzo, Tile and Marble Association of Canada.

7 FINISH:

Final Floor Finish

Grout floor finish at 70° F (21° C) following a minimum cure time of thin-set by referring to the manufacturer package.