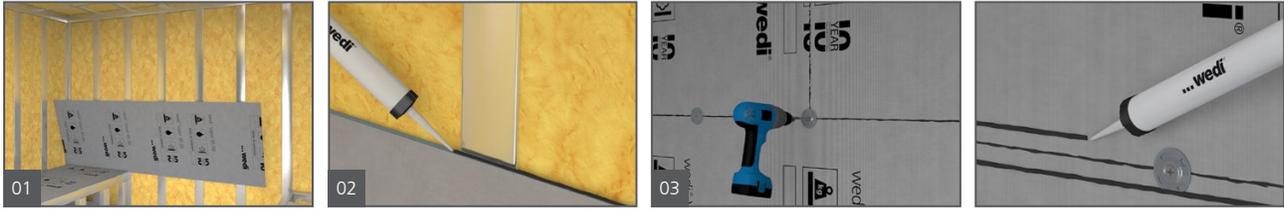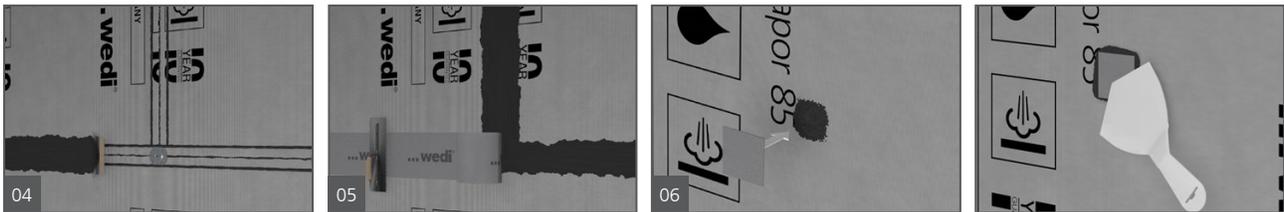# wedi® Vapor 85 Building Panel for Steam Room Applications Installation Guide
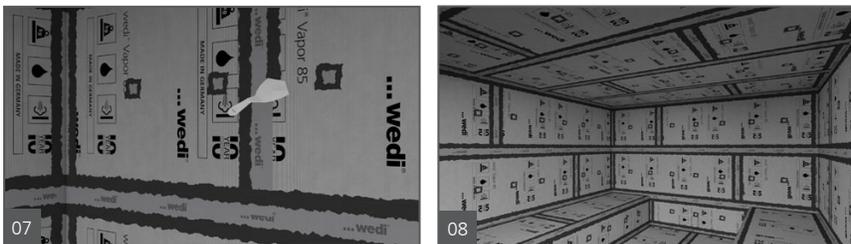
Steam Rooms typically have added challenges and need additional water and vapor-proofing. You can use our wedi® Vapor 85 Building Panels which have a slightly different installation technique. Here are all the installation steps in detail.

1. Ensure all framing and structures meet applicable wedi general requirements, building code and industry standards. Attach Vapor 85 panels to wall horizontally, and start the fasteners 1 ft. above shower floor and continue at a rate of one fastener every 12 inches. Use wedi's flat washers (ones without tabs) and screws. On solid or wedi built bench constructions (1 1/2 in. to 2 in. wedi Panels) install wedi® Vapor 85 panels in well distributed 1/2 in. beads of wedi® Sealant 620 spread with a space of 6 in. between beads. If the construction is not entirely smooth, use a full thinset mortar bed to attach using a 1/4 in. × 1/4 in. trowel.
2. All panels are butted tightly with wedi® Sealant 620 continuously applied between all contact seams. Excess sealant is spread flat with a putty knife.
3. Use only wedi's flat washers so the membrane is not twisted upon tightening the washer. On ceilings, set wedi fasteners at a rate of 1 per every 6 in. of framing. In addition, apply a continuous 1/2 in. bead of wedi® Sealant 620 on every stud before attaching the panel. Ceilings should be sloped at a rate of 2 inches per every 12 inches so that condensation can run off without dripping.

4. Apply several beads of wedi® Sealant 620 as a setting and sealing bed for wedi sealing tape. Spread the sealant with a fine tooth adhesive trowel or flat putty knife to achieve a full coverage sealant bed for the sealing tape. The minimum thickness of the sealant bed should be 1/16 in.
5. The tape is centered over the seams and pressed flat into the sealant. Make sure to use a flat putty knife or paint roller to work the sealing tape flat over the seam and remove all air bubbles or any other unevenness. Excess sealant is spread flat. Sealing tape inside and outside corners, as well as collars for valves or other protrusions, are available. Cover all fastener and washer points with wedi® Sealant 620 covering an area of 3 in. × 3 in. with the washers screw at its center.
6. Embed a sealing tape patch with a size of 3 in. × 3 in. into the bed of wedi® Sealant 620 from Step 5 and press flat using a putty knife.

7. Use wedi® Sealant 620 and wedi® Subliner sealing tape and sealing collars to seal around protrusions and penetrations of the Vapor 85 using the same method as for applying tape and fastener point covers. If you can't clearly see Sealant 620 past the perimeter of 5 in. tape once it is embedded in all areas of the application, a bead of Sealant 620 will be needed on the 5 in. tape seam, flattened to a minimum of 1 in. past each side of the tape seam. When using Vapor 85 systems, plan for using approximately 2.5 ounces of wedi® Sealant 620 per every 1 foot of taped seam in the assembly (includes installation of fastener patches in board areas). The steam inlet pipe needs to be heat insulated where it enters into the steam room through the wedi® Vapor 85 panel. The wedi® Vapor 85 panel can withstand up to 165 degrees of heat contact exposure. The entire protrusion needs to be sealed and covered as described above.
8. Allow the wedi® Sealant 620 to cure for at least 24 hours prior to setting tile and 96 hours after its application before exposing the tiled installation to water and water vapor. On floor areas, consider wedi Fundo® Shower Systems or Subliner Dry sheet waterproofing membrane when working over mortar or screed surfaces (install in accordance to Subliner Dry installation manual using wedi® Sealant 620 in overlapping sheet – or Subliner Dry tape covered seam connections).
9. When setting tile over wedi® Vapor 85, please choose appropriate setting material and tile for use in steam rooms and steam showers. We recommend not to use natural stone tile or slab. We recommend to use porcelain tile with low water absorption potential (as classified in ANSI 137.1). We recommend the use of solid epoxy setting mortar and grout (as per ANSI 118.3). Please note that tile application over wedi® Vapor 85 panels is limited to a combined load and weight of tile and setting materials of up to 10 lb per square foot on walls, and up to 6 lb per square foot on ceilings. Where higher loads are required, please use wedi® Building Panel and apply wedi® Subliner Dry in thinset mortar (ANSI 118.3 or ANSI 118.4) over the vapor exposed surface of the wedi® Building Panel. With this option please allow sufficient curing time for thinset mortar between the two waterproof layers prior to installing tile.

Please contact wedi for the full Steam Room and Shower Technical Report