



## Bonded Waterproofing System for Showers

The common method for installing tiled tubs and showers is to use a mortar bed with tile applied to the wall and tile installed on a pan sloped to the drain. A moisture barrier must be installed behind the solid backing on the walls to protect the wall cavity. Any flaws in this installation can have serious moisture problems down the road.

Many people believe the tile covering is waterproof, however, this is not the case. Even when the grout is regularly sealed with grout sealer, moisture will migrate through the grout to the mortar bed and to the solid backing on the walls. This moisture must then percolate through the mortar bed and make its way to the tub rim or sloped pan liner and exit through the weep holes in the drain. With regular use, the weep holes can become clogged and increase the chances for mold growth and system failure over time.

Schluter® Systems has a bonded waterproofing membrane that creates a sealed system. Schluter-KERDI membrane is bonded to the mortar bed or tray and installed over the solid backing (gypsum board, cement backerboard, etc.) on the walls. Once installed, this membrane allows for the direct application of tile with thin-set mortar. ABCO has observed the installation of the Schluter product and has found it to be a very efficient and effective system to manage moisture behind resilient wall and floor coverings.

This assembly provides the moisture management required as it does not permit moisture to penetrate into the mortar bed or solid backing. The vapor permeance of Schluter-KERDI, as measured per ASTM E96, is 0.75 perms. Thus, this product functions as both a waterproofing membrane and vapor retarder to manage water vapor in showers and steam shower applications. Schluter-Systems has obtained product evaluation and listings through ICC-ES (ESR-2467), IAPMO, and others.

Additional information can be found on the Schluter Systems website at [www.schluter.com](http://www.schluter.com) and download their Schluter®-Shower System Installation Handbook 2008.

## Bathtub surround - Ceramic or stone tile

### Schluter®-KERDI

K-TS-08

- 1 Ceramic or stone tile
- 2 Unmodified thin-set mortar
- 3 Schluter®-KERDI waterproofing membrane
- 4 Schluter®-KERDI-BAND waterproofing strips
- 5 Schluter®-KERDI-KERECK-F waterproofing corners
- 6 Schluter®-KERDI-SEAL-PS/-MV seals or Schluter®-KERDI-FIX sealant and bonding compound
- 7 Schluter®-KERDI-FIX sealant and bonding compound
- 8 Unmodified thin-set mortar
- 9 Solid backing
- 10 Schluter®-DILEX profile (optional)



Schluter Installation Handbook 2008

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