



The PROFILE

Providing you with information on new products and the latest news from the tile world!



Schluter®-Systems Opens West Coast Training and Distribution Center

Our new facility in Reno, Nevada was built to accommodate the needs of our west coast clients, and is projected to obtain LEED® Gold certification.

Led by the Northern Nevada Development Authority (NNDA), this new training and distribution center will facilitate our access to clients from the southern tip of California to the western Canadian border. "This will allow us to increase our market share and service our clients quickly while also allowing for future expansion as demand increases," said C.J. Madonna, Schluter General Counsel. "With

the assistance of NNDA, we have been able to move forward quickly in achieving our goal."

Miles Construction is the general contractor for the 90,000 sq. ft., state-of-the-art, eco-friendly facility. Designed to meet the most stringent LEED Gold certification standards, the company is using local workforce including engineers, designers,

architects, and construction workers. "This facility in the Sierra Region will be a part of an elite group of facilities to have the degree of green systems the Schluter property will have upon completion," said Bill Miles, President of Miles Construction.

Continued on page 2

In this issue:



1-2

Schluter® Systems' New West Coast Facility
Reno, NV



3

Warm Your Home With Hydronic Radiant Heating
Schluter®-BEKOTEC



4

Changing The Way You Design Showers
Schluter®-KERDI-LINE

Built under the same principles as our facilities in Plattsburgh, New York and Montreal, Canada, our new facility encompasses long-term vision, and a focus on environmental impact.

KEY COMPONENTS OF OUR NEW FACILITY

Ceramic tile floor coverings throughout

Our west coast facility is another excellent example of how ceramic tile applications are consistent with green building practices. For example, ceramic tiles produce no VOC (volatile organic compound) emissions, do not harbor dust, and are easy to clean, thus contributing to improved indoor air quality. Ceramic tile coverings also have low thermal resistance, which contributes to the efficiency of radiant heating and cooling systems.

Geothermal radiant heating and cooling floor system

Heating and cooling is largely accomplished through hydronic radiant-heated and radiant-cooled floors in conjunction with geothermal heat pumps. The earth is used as a heat source during winter and a heat sink during summer. The Schluter®-BEKOTEC modular screed panel forms the platform for the system and integrates with the tile covering to produce a system that reacts very quickly to changes in temperature, and consumes 70 to 80 percent less energy than traditional systems. This technology creates a comfortable working environment with low operating costs.



Heating and cooling recovery system

Our heating and cooling recovery system recaptures 80 percent of the conditioned air inside the building before it leaves and sends it back into the space along with fresh air, further saving energy costs.

Indoor "living wall"

A wall covered in living plants adds oxygen and humidity into the building and acts as a bio-filter for the air inside the building. A living wall also reduces

noise, absorbs magnetic waves, and enhances the esthetic appeal of the space.

Rainwater retention

Rainwater collected will be used for flushing toilets and irrigating the living wall and exterior plantings, thereby eliminating or reducing the consumption of fresh water. Installation of waterless urinals will additionally reduce water consumption by 20 percent.

Daylight harvesting

Ceiling skylights installed throughout the warehouse, offices, and atrium provide extensive natural daylight resulting in 75 percent of the employees working under natural light. Traditional eco-friendly systems such as energy-efficient lighting, solar heating, white TPO roofing membrane, and low-E windows will also be used.

With a multitude of environmentally conscious and energy-efficient elements incorporated, our building will consume 70 percent less energy than comparable conventional buildings.

We welcome architects, engineers, contractors, distributors, and tile-setters to schedule a visit to our new facility. You will discover design principles for tile installations that can last a lifetime, and construction methods meeting and exceeding today's building requirements.

We also invite tile-industry professionals to attend our educational workshops offering training on tile installation methods and systems, in conjunction with hands-on installation experience.



WARM YOUR HOME WITH HYDRONIC RADIANT HEATING



Hydronic radiant heating is one of the fastest growing market segments in the construction industry. Unlike other surface coverings, the low thermal resistivity of ceramic and stone tiles allows them to be used in radiant heat applications without sacrificing the energy efficiency of the system.

Radiant heating systems warm a room by distributing heat in a comfortable way throughout the space. The heat generated in the floor radiates to other elements in the room such as tables and chairs. This action produces higher temperatures near occupants and reduced rates at which bodies lose heat, resulting in more comfort at lower air temperatures. In contrast, a "forced air" heating method blows hot air into specific areas of a room, often only heating those areas closest to the heat source. These systems require higher air temperatures to produce comfort and can bring increased operating noise and dispersion of dust.

Traditional radiant heating systems require a thick slab of mortar into which the radiant heating tubes are set and over which tiles are installed. Mortar screeds for radiant heat, however, are heavy, costly, and labor intensive, all of which are problems in construction. Schluter®-BEKOTEC is a lightweight modular screed system that solves these problems, and is particularly suited for radiant heat applications with ceramic tile coverings.

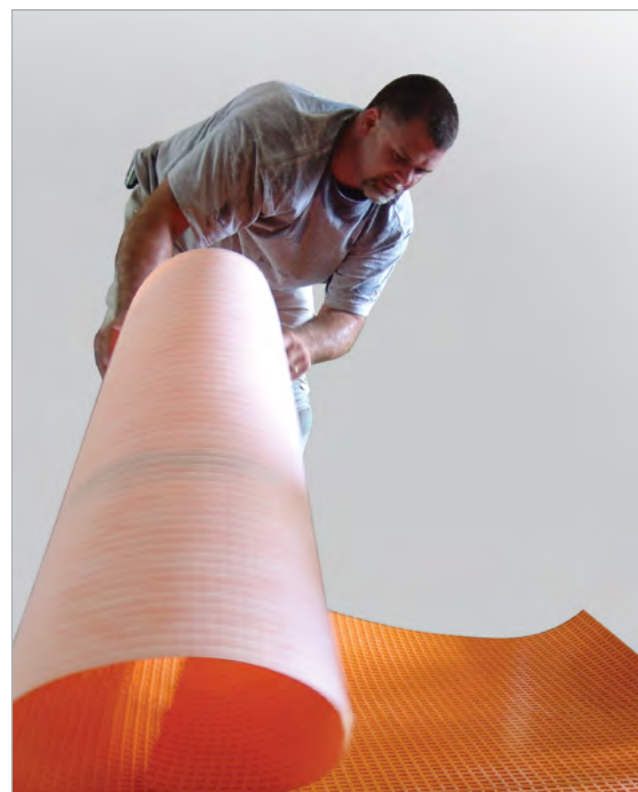
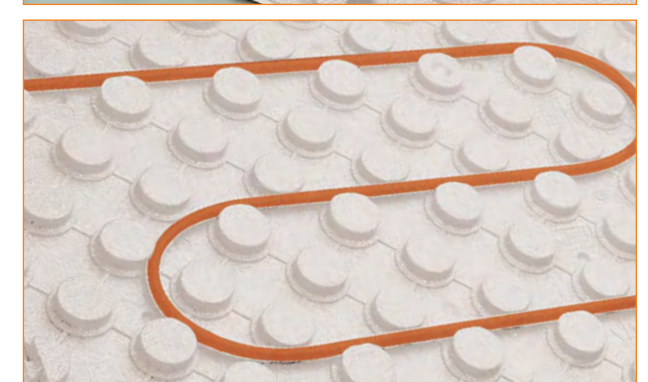
TECHNICAL DETAILS

Schluter®-BEKOTEC provides a stable and supporting base for tile coverings. The BEKOTEC panels feature studs dividing the screed (e.g.,

portland cement mortar bed or poured gypsum underlayment) into smaller square modules. This confines shrinkage and cures stresses to control cracks and curling. The studs on the panel also form a grid pattern to accept hydronic heating tubes without fasteners for simple and easy installation.

The BEKOTEC system uses less screed material than conventional (mortar screed) applications, resulting in less weight, and allowing the floor heating to respond more quickly and operate at a lower temperature range, provided that the floor covering does not interfere. In general, ceramic and stone tiles are the ideal floor covering materials for use over radiant-heated floors. These materials are durable, hygienic, and have low thermal resistance. Therefore, the heat contained in the thermal mass is allowed to radiate freely to objects in the space above.

Since it is a floating system, the assembly can be customized to meet a range of heat and sound requirements. Modular screed systems 9.1 Schluter-BEKOTEC and 9.2 Schluter-BEKOTEC-F produce permanent flooring assemblies that are free from internal stresses. The bases for these systems are the BEKOTEC-EN/US/P and BEKOTEC-EN23F studded polystyrene screed panels placed directly over any load-bearing substrate and optional common sound



PROFILE OF INNOVATION

REGIONAL WORKSHOPS

The Technology Behind the Tile

Join Schluter®-Systems' technical experts at a free Innovation Workshop in your region.

Learn about the latest state-of-the-art installation solutions for ceramic and stone tile installations and the theories behind their innovation, and share your experiences with colleagues in an informative, energetic atmosphere.

For information about regional workshops, contact your Schluter Representative or
USA: Marci LaPier at mlapier@schluter.com or 1-800-472-4588 ext. 4118
Canada: Astrid Eyrauch at aeyrauch@schluter.com or 1-800-667-8746 ext. 3250

and/or heat-insulating layers. The studs effectively divide the screed into smaller, 4-1/4" (108 mm) square modules, which confine shrinkage and cure stresses to control deformations such as curling and continuous cracks that can be common in a traditional screed. These modular screed systems allow the installation of continuous screed surfaces without any control joints or wire reinforcement. The elimination of control joints allows surface movement joints to be placed to match the joint layout in the tile covering.

THE BENEFITS OF HYDRONIC RADIANT HEAT SYSTEMS

Comfort

The thermal mass (concrete slab) balances temperature fluctuations and provides comfortable warmth. Floors are warm to the touch. Since there is less air movement with this type of system there are no drafts.

Energy-efficiency

The BEKOTEC radiant heating system reacts very quickly to changes in temperature. The screed mass to be heated is relatively small therefore the floor heating can be well regulated and operated at a lower temperature range than traditional systems. The result is a reduction in energy consumption.



Schluter®-BEKOTEC

- Controls shrinkage
- No reinforcing
- No joints
- Holds hydronic tubes
- Lower thermal mass
- Lower water temperatures required
- Improves energy delivery
- Improves sound control

Sound control

BEKOTEC products allow for a variety of sound attenuation materials to be installed underneath to obtain exceptional sound reduction in the room(s) located directly below. Impact Insulation Class (IIC) is a rating of how well a building floor attenuates impact sounds, such as footsteps. A higher number means greater sound reduction. Most state, provincial, and national codes require or recommend an IIC of 50. In both field and lab tests BEKOTEC has achieved results as high as 64 IIC.

Indoor air quality

Unlike conventional forced-air furnaces, hydronic radiant heating systems require no ducts or radiators.

The fact that radiant heating does not push dust, dirt, or recycled air around the room makes it ideal for those susceptible to germs or allergies.

Maintenance-free

BEKOTEC products do not rot, and require no special maintenance.

Take pleasure in the soothing comfort of warm ceramic tile and stone floors. The Schluter®-BEKOTEC hydronic radiant heat system delivers consistent, even heat throughout your floors, and is the most healthy, cost-effective and environmentally friendly way to warm up your home.



Changing the way you design showers

Schluter®-KERDI-LINE: An elegant low-profile linear floor drain

Designed with the needs of tile installers in mind, KERDI-LINE is a versatile, easy to install linear drain offering an interesting array of design opportunities. Plus, it's ideal for use in wheelchair accessible showers.

Schluter®-KERDI-LINE is a low-profile linear floor drain specifically designed for bonded waterproofing assemblies. The stainless steel integrated bonding flange with Schluter®-KERDI collar laminated on the surface provides a secure waterproof connection. KERDI-LINE can be installed adjacent to walls or at intermediate locations in showers, wet rooms, and other applications requiring waterproofing and drainage. The floor can be sloped on a single plane to KERDI-LINE, enabling the use of large-format tiles.

Polystyrene sloped trays, Schluter®-KERDI-LINE-L and Schluter®-KERDI-LINE-LS, with integrated KERDI waterproofing are available to complete the installation. KERDI-LINE-L allows for the installation

of a center drain whereas the KERDI-LINE-LS accommodates the installation of the drain along the perimeter of the shower.

KERDI-LINE is available in eight grate lengths ranging from 20" to 48" nominal. The adjustable brushed stainless steel grate frame accommodates a range of tile thicknesses, and is available in three attractive, interchangeable grate designs:

- Brushed stainless steel closed-design
- Brushed stainless steel with square perforations
- Stainless steel pan for setting tile inserts

For more information, please visit kerdi-line.com or contact our Customer Service Representatives at 1-800-472-4588 (USA) or 1-800-667-8746 (CAN).

