

# SHOWER SYSTEM

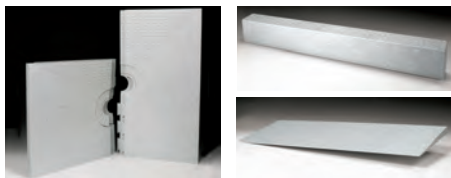


## INNOVATIVE SOLUTIONS FOR CERAMIC AND STONE TILE

### INTEGRATED BONDED WATERPROOFING SYSTEM FOR TILED SHOWERS

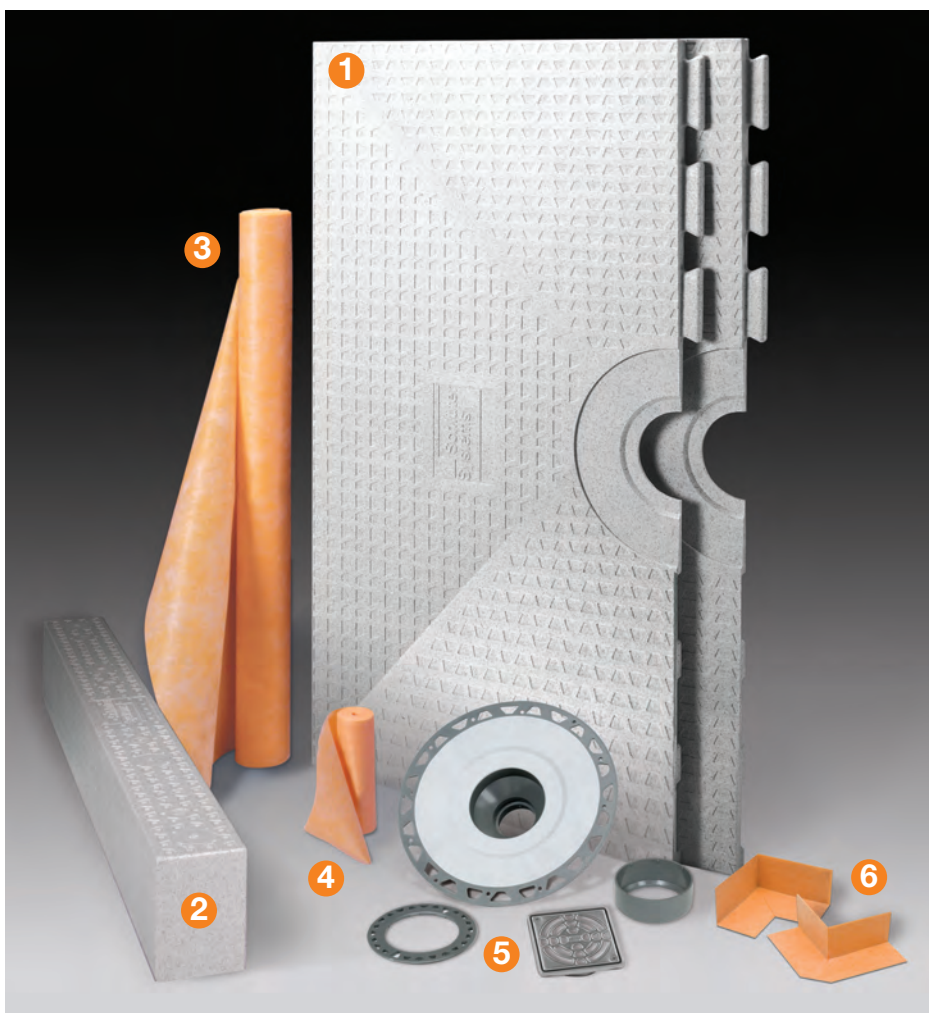
The Schluter® Shower System is an integrated family of products that together form a fully bonded, watertight assembly for tiled showers. Unlike shower pan liners in conventional assemblies, bonded waterproof membranes, such as Schluter®-KERDI, bond directly to the mortar bed and protect it from becoming saturated with regular use. In addition, KERDI protects wall cavities from vapor penetration. The Schluter®-KERDI-DRAIN provides a simple and secure connection to the KERDI membrane at the top of the assembly. Other components include the Schluter®-KERDI-SEAL-PS/-MV prefabricated seals and the Schluter®-KERDI-FIX sealant, used to treat protrusions through the membrane, and the Schluter®-KERDI-SHOWER-ST/-SC/-SR prefabricated EPS substrates, which can reduce weight and installation time. The integrated Schluter® Shower System eliminates the potential for leakage, efflorescence, and mold growth in the system, is maintenance-free, and dramatically reduces total installation time to ensure success and make shower installation easier than ever.

#### Prefabricated Shower Substrates



#### 8.3 Schluter®-KERDI-SHOWER -ST/-SC/-SR

Schluter® prefabricated shower substrates provide an alternative to shower bases constructed of mortar. The shower tray, curb, and ramp are especially useful in



#### Schluter® Shower System

| Components        | Description  |
|-------------------|--|
| 1 KERDI-SHOWER-ST | Show tray 48" x 48", 32" x 60", or 72" x 72"   |
| 2 KERDI-SHOWER-SC | Show curb  |
| 3 KERDI           | Waterproofing membrane   |
| 4 KERDI-BAND      | Waterproofing strip  |
| 5 KERDI-DRAIN     | Drain, with integrated bonding flange  |
| KERDI-KERECK-F    | Pre-formed waterproofing corners (4 inside and 2 outside)<br>Included with KERDI-DRAIN |



large-scale, repetitive jobs, such as hotels, apartments, and condominiums for the significant timesavings that can be realized.

### Application and Function

**8.3 Schluter®-KERDI-SHOWER-ST/-SC/-SR** are prefabricated substrates, made of expanded polystyrene foam, for tiled shower bases in conjunction with Schluter®-KERDI waterproofing membrane and Schluter®-KERDI-DRAIN. Schluter®-KERDI-SHOWER-ST is a prefabricated, sloped shower tray that is specifically designed to accept the Schluter®-KERDI-DRAIN and Schluter®-KERDI waterproofing membrane. The tray is available in 48" x 48" (122 cm x 122 cm), 32" x 60" (81 cm x 152 cm), and 72" x 72" (183 cm x 183 cm) sizes. Schluter®-KERDI-SHOWER-SC is a prefabricated curb that can be used with Schluter®-KERDI-SHOWER-ST or conventional mortar applications. Curb dimensions are 48" x 6" x 4-1/2" (122 cm x 15 cm x 11.5 cm). Schluter®-KERDI-SHOWER-SR is a ramp designed to facilitate the construction of access ramps for tiled showers. Ramp dimensions are 48" x 15-7/8" x 1-1/2" (122 cm x 40 cm x 3.8 cm).

### Material Properties and Areas of Application

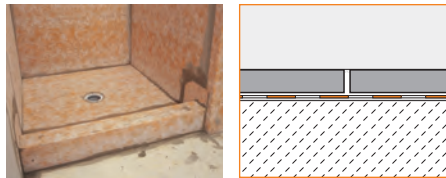
Schluter®-KERDI-SHOWER-ST/-SC/-SR are manufactured using lightweight expanded polystyrene (PS 40). The products require no special disposal and can be recycled. No CFCs or HCFCs are present in either the products or in the manufacturing process. The polystyrene foam has a density of 2.75 lb/ft<sup>3</sup> (44 kg/m<sup>3</sup>) with a 48 psi (331 kPa) compressive strength at 10% deformation. It is serviceable in temperatures up to 175 °F (79 °C). The expanded polystyrene used to manufacture Schluter®-KERDI-SHOWER-ST/-SC/-SR is treated with a flame retarding agent. The foam is self-extinguishing and achieves an HF-1 rating according to UL 94. Expanded polystyrene should not be exposed to hydrocarbons, esters, amines, and aldehydes. All will deteriorate foam. Exposure to ultraviolet rays (sunlight) for long periods of time will result in partial degradation (dusting) at the surface.

### 8.3 Schluter®-KERDI-SHOWER-ST/-SC/-SR

| Property                          | Method             | Value   |
|-----------------------------------|--------------------|---|
| Density                           | ASTM D3575         | 2.75 lb/ft <sup>3</sup> (44 Kg/m <sup>3</sup> ) |
| Compressive Strength <sup>1</sup> | ASTM D3575 & D1621 | 48 psi (331 kPa)                                |
| Linear Expansion                  | ASTM D696          | 3.5 x 10 <sup>-5</sup> /°F                      |
| Maximum Service Temperature       | -                  | 175 °F (79 °C)                                  |

**Note:** 1. Compressive strength measured at 10% deflection of foam

### Shower Waterproofing



#### 8.1 Schluter®-KERDI

Since traditional shower pan liners are placed below the mortar setting bed in conventional assemblies, moisture is allowed to saturate the mortar bed. This can increase the risk of leakage, cause efflorescence, and foster mold growth. Bonded waterproof membranes, such as Schluter®-KERDI, are set on top of the mortar bed and protect it from becoming saturated, thus eliminating the problems associated with traditional systems.

### Application and Function

**8.1 Schluter®-KERDI** is a pliable, sheet-applied, bonded waterproof membrane and vapor retarder with limited crack-bridging capabilities. It is made of soft polyethylene, which is covered on both sides with a special fleece webbing to anchor the membrane in the thin-set mortar. Schluter®-KERDI was developed as a waterproofing membrane to be used in conjunction with ceramic and stone tile coverings. Tiles can be installed directly on Schluter®-KERDI using the thin-bed method. Other trowel-applied covering materials, such as plaster, can also be used. Various Schluter®-KERDI accessories are available. KERDI-KERECK-F are pre-formed inside and outside corners. KERDI-SEAL-PS/-MV are prefabricated sections of KERDI with overmolded rubber gaskets that are used to seal pipe protrusions through the KERDI waterproofing membrane (e.g., at showerheads and tub spouts) and protect moisture-sensitive backing panels at the mixing valve. Use Schluter®-KERDI-BAND, in widths of 5" (12.5 cm), 7-1/4" (18.5 cm), or 10" (25 cm), to seal butt joints or corner

joints. Schluter®-KERDI-FLEX, in 5" (12.5 cm) or 10" (25 cm) widths, is used to seal expansion joints or flexible edge joints.

### Material Properties and Areas of Application

Schluter®-KERDI is a polyethylene waterproofing membrane with a very low vapor permeance of 0.75 perms. The material is physiologically safe. Schluter®-KERDI requires no special disposal.

Schluter®-KERDI is waterproof and resistant to most chemicals commonly encountered in tiled environments. It is resistant to aging and will not rot. Schluter®-KERDI is highly resistant to saline solutions, acid and alkaline solutions, many organic solvents, alcohols, and oils. Information regarding its resistance to specific substances can be provided if concentration, temperature, and duration of exposure are known. For acid-resistant coverings, use an epoxy adhesive to set and grout the tile.

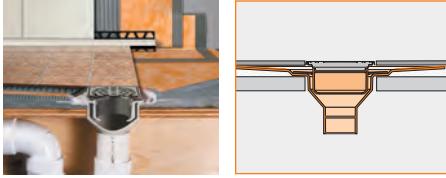
Schluter®-KERDI is suitable for wall and floor surfaces where protection against the penetration of moisture or other harmful substances is necessary. Applications include showers, steam showers, tub surrounds, and areas surrounding swimming pools. Industrial applications include the food industry, breweries, and dairies. Before placing the Schluter®-KERDI, verify that the substrate is clean, even, load bearing, and free from moisture. Surfaces that inhibit proper adhesion must be removed or appropriately treated.

Schluter®-KERDI meets the American National Standard for Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installations (ANSI A118.10), is listed by cUPC®, and is evaluated by ICC-ES (see Report No. ESR-2467). For copies of the listing and evaluation report, please contact Schluter®-Systems at (800) 472-4588 (USA) or (800) 667-8746 (CAN) or by e-mail at info@schluter.com. Links to the



listing and report can also be accessed at [www.schluter.com](http://www.schluter.com).

## Shower Drain



### 8.2 Schluter®-KERDI-DRAIN

Conventional two-stage drains are designed to connect to shower pan liners below the mortar bed and do not allow a secure, watertight connection to bonded waterproof membranes at the top of the drain assembly. The Schluter®-KERDI-DRAIN was designed specifically to ensure a simple and secure connection to bonded waterproof membranes, such as Schluter®-KERDI, at the top of the assembly rather than below it, thereby reducing the risk of leakage, efflorescence, and mold growth.

### Application and Function

**8.2 Schluter®-KERDI-DRAIN** is a floor drain specifically designed to allow connections to Schluter®-KERDI or other load-bearing, bonded waterproof membranes. Schluter®-KERDI is adhered to the drain's large bonding flange to form a waterproof connection at the top of the drain assembly. KERDI-DRAIN features a fully adjustable grate to accommodate 1/4" (6 mm) to 1-1/4" (32 mm) tile thicknesses. The grate assembly allows lateral and tilt adjustment as well.

### Material Properties and Areas of Application

The drain casing is available in ABS, PVC, or stainless steel 304 (1.4301 = V2A). The ABS and PVC drain casings feature a fleece-covered bonding flange. They are available with standard 2" (50 mm) and 3" (76 mm) outlets and attached to ABS and PVC pipe, respectively, using ABS or PVC cement. The stainless steel drain casing features a standard 3" (76 mm) no-hub outlet and is attached to the pipe using an appropriate mechanical (e.g., flexible or no-hub) coupling. The simple connection to standard drain outlets makes KERDI-DRAIN suitable for new construction and renovation. The height adjustment collar and lateral adjustment ring are made of either ABS for use with the plastic drain casings featuring 2" (50 mm)

outlets or stainless steel for use with the stainless steel drain casing and the plastic drain casings featuring 3" (76 mm) outlets. The grate is available in stainless steel 304 (1.4301 = V2A) and in anodized aluminum with a brushed copper bronze, brushed brass, or brushed nickel finish.

Various configurations of the Schluter®-KERDI-DRAIN are listed by UPC®, CSA, and NSF. Please refer to the table on page 8 for details.

Relevant industry standard guidelines for floor drains with integrated bonding flange include method B422 in the Tile Council of North America's (TCNA) Handbook for Ceramic Tile Installation and Method 326DR in the Terrazzo, Tile and Marble Association of Canada (TTMAC) Specification Guide 09300 Tile Installation Manual.

### Maintenance

Schluter®-KERDI-DRAIN requires no special maintenance and is resistant to mold and fungi. The grate may be removed to clean the drain housing and the drainpipes.

Clean the grate using common household cleaning agents. Stainless steel grates exposed to the environment or aggressive substances should be cleaned periodically

using a mild household cleaner. Regular cleaning maintains the neat appearance of stainless steel and reduces the risk of corrosion. All cleaning agents must be free of hydrochloric and hydrofluoric acid. Stainless steel surfaces develop a sheen when treated with a chrome-polishing agent. In the case of the anodized aluminum grates, do not use abrasive or alkaline cleaning agents.

### Adhesive/Sealant

Any protrusions through the KERDI membrane can be treated with Schluter®-KERDI-FIX, or equivalent sealant, to ensure a fully waterproof assembly.

### Application and Function



### 8.3 Schluter®-KERDI-FIX

**8.3 Schluter®-KERDI-FIX** is a single-component, waterproof sealing and

### Schluter®-KERDI-FIX Technical Data

|   |   |
|---|---|
| Color   | Grey or bright white  |
| Basic raw material                                    | Silyl-modified polymer (SMP)  |
| Specific weight                                       | approx. 93.6 lb/ft <sup>3</sup> (1.5 g/ml)  |
| Solvent content                                       | 0%  |
| Isocyanate content                                    | 0%  |
| Dry materials content                                 | approx. 100%  |
| Shear strength beech wood/<br>beech wood              | approx. 435 psi (3 N/mm <sup>2</sup> )  |
| Shear strength aluminum/<br>aluminum                  | approx. 290 psi (2 N/mm <sup>2</sup> )  |
| Elongation at failure                                 | approx. 200%  |
| Skinning  | about 10 minutes  |
| Curing  | 1/8" (3 mm) per 24 hours  |
| Permissible total movement                            | about 20%   |
| Processing temperatures                               | don't install at temperatures below 40 °F (5 °C)                                  |
| Temperature stability                                 | -40 °F (-40 °C) to 212 °F (100 °C), temporarily 356 °F (180 °C) [max. 30 minutes] |
| Moisture resistance                                   | very good   |
| Frost ability   | not sensitive to frost  |
| Cartridge volume                                      | 9.81 oz (290 ml)  |
| <b>Estimated coverage</b>                             |   |
| 5" (12.7 cm) connection to<br>fixed building elements | 12' 10" (3.9 m) per cartridge   |
| 1/4" bead   | 30' 1" (9.2 m) per cartridge  |



bonding compound with a silane-modified polymer base, which can be used in various applications. In conjunction with Schluter®-KERDI, Schluter®-KERDI-FIX can be used to waterproof pipe and valve protrusions in the Schluter® Shower System. KERDI-FIX is used to bond the KERDI membrane to the stainless steel Schluter®-KERDI-DRAIN bonding flange. Schluter®-KERDI-FIX can also be used to bond Schluter®-KERDI to building elements such as balcony and terrace doors, window elements, sheet metal covers, and Schluter®-BARA edge profiles, and is suitable for sealing movement joints.

## Material Properties and Areas of Application

Schluter®-KERDI-FIX is odorless, weather and UV resistant, making it especially suitable for exterior use. The product is elastomeric, free of solvents, and provides a strong bond to most materials, including wood, stone, concrete, metal, glass, and many synthetic materials. Schluter®-KERDI-FIX can be painted over with most alkyd resins or dispersion paint types. The suitability of the material must be verified based on the anticipated chemical, mechanical, and/or other stresses.

## Maintenance

### Storage

Unopened packages of Schluter®-KERDI-FIX can be stored in a cool place for up to 18 months. Once the cartridge has been opened, the material has a limited shelf life.

## System Installation

### Shower Bases Constructed with Schluter® Prefabricated Shower Substrates

1. The substrate must be clean, even, and load bearing. Any leveling must be done prior to placing the tray. If necessary, cut the KERDI-SHOWER-ST tray to size prior to application. Ideally, the tray should be cut by equal amounts on all four sides to ensure a consistent height of the first course of tile. The shower base can also be extended beyond the tray using dry-

pack mortar. After locating the correct position (use KERDI-SHOWER-ST as a template), cut a hole in the substrate for the drain.

2. Apply unmodified thin-set mortar to the substrate using a 1/4" x 3/8" (6 mm x 10 mm) square- or U-notched trowel. Place the KERDI-SHOWER-ST, making certain to solidly embed the tray in the mortar. Check the underside of the tray to ensure that full coverage is achieved.
3. If necessary, cut the KERDI-SHOWER-SC to length with a handsaw. Apply unmodified thin-set mortar to the floor and to the edge of the shower tray using a 1/4" x 3/8" (6 mm x 10 mm) square- or U-notched trowel, and press the curb firmly into place.
4. If there is access to the plumbing from below and the waste line can be connected after installing Schluter®-KERDI-DRAIN, apply unmodified thin-set mortar to completely fill the step in the shower tray. Press Schluter®-KERDI-DRAIN firmly into the mortar, ensuring full support of the bonding flange.

When job conditions require the setting of Schluter®-KERDI-DRAIN by the plumber prior to the installation of the Schluter®-KERDI-SHOWER-ST tray (or when there is no access to the plumbing from below), install the KERDI-DRAIN to the appropriate height using the detachable center section of the tray or the foam spacers included with the drain. Before installing the Schluter®-KERDI-SHOWER-ST tray, apply thin-set mortar to the substrate and to the top and bottom of the detached center section. Slide the center section into place below the drain to ensure solid and uniform support of the bonding flange.

**Note:** Schluter®-Systems recommends installing the KERDI-SHOWER-ST tray prior to setting KERDI-DRAIN whenever possible. This method affords the installer greater control over the final position of the drain and makes it easier to obtain full support under the bonding flange.

5. Apply a bond coat of unmodified thin-set mortar to the tray using a 1/4" x 3/16" (6 mm x 5 mm) V-notched or the Schluter®-KERDI-TROWEL, which features a 1/8" X 1/8" (3 mm x 3 mm)

square-notched design. When using the plastic drain casing, apply additional unmodified thin-set mortar to the bonding flange with a 1/4" x 3/16" (6 mm x 5 mm) V-notched or the Schluter®-KERDI-TROWEL, which features a 1/8" X 1/8" (3 mm x 3 mm) square-notched design. When using the stainless steel drain casing, the Schluter®-KERDI waterproofing membrane is bonded to the integrated bonding flange with the Schluter®-KERDI-FIX adhesive/sealant. The stainless steel bonding flange must be clean and free of grease or other contaminants prior to KERDI-FIX application. Embed Schluter®-KERDI in the bond coat and work the membrane onto the entire surface to ensure full coverage and remove air pockets. The KERDI is carried to the step in the bonding flange (template provided). Be sure the connection between the KERDI and KERDI-DRAIN is secure.

**Note:** A sheet of cardboard can be placed on the floor to protect the KERDI during subsequent steps.

6. Construct floor/wall, floor/curb, and wall/wall connections using Schluter®-KERDI-BAND or cut sections of KERDI. Seams are easily constructed by overlapping the edges of KERDI or KERDI-BAND by 2" (50 mm) using an unmodified thin-set mortar.
7. Seal the shower curb/wall junction and other corners using Schluter®-KERDI-KERECK-F pre-formed inside and outside corners and unmodified thin-set mortar.
8. Apply a bond coat of unmodified thin-set mortar to the shower walls and curb using a 1/4" x 3/16" (6 mm x 5 mm) V-notched or the Schluter®-KERDI-TROWEL, which features a 1/8" x 1/8" (3 mm x 3 mm) square-notched design. Embed the KERDI in the thin-set mortar and work the membrane onto the entire surface to ensure full coverage and remove air pockets. The KERDI is carried to the height of the shower head (at minimum).

**Note:** The thin-set mortar used for bonding Schluter®-KERDI to the walls must be appropriate for the substrate and must penetrate and engage the KERDI fleece. For most substrates (e.g., drywall or CBU), an unmodified



thin-set mortar is used. Seams in the membrane are constructed by overlapping the edges of KERDI by 2" (50 mm) with unmodified thin-set mortar or by abutting adjacent sheets of KERDI and installing KERDI-BAND with unmodified thin-set mortar, centered over the joint.

**Note:** Any protrusions through the KERDI membrane (e.g., mixing valve, shower head, etc.) must be treated with Schluter®-KERDI-SEAL-PS/-MV, Schluter®-KERDI-FIX, or equivalent sealant, to ensure a watertight seal.

9. Once the entire membrane, including seams, corners, curbs, and connection to drain, have been completely bonded and, therefore, waterproofed, the assembly is ready to be tiled. The sequence of membrane installation can vary from the steps above (i.e., top-over-bottom or shingle laps are not required), provided that the minimum 2" (50 mm) overlap is maintained at all joints and proper connection to the drain is established.

**Note:** Prior to setting tile, if the assembly is to be water tested, wait 24 hours to allow for final set of the mortar before testing to ensure waterproof performance of the assembly at seams and connections.

10. The grate assembly, which is comprised of the grate, the height adjustment collar, and the lateral adjustment ring, is set with unmodified thin-set mortar. The height of the grate is adjusted via the height adjustment collar and aligned flush with the top of the tile covering. Since the diameter of the height adjustment collar is smaller than the opening of the bonding flange, the grate can be positioned to match the joint pattern of the tile covering.

**Note:** Protect the visible surface of the grate from contact with setting and grouting materials. In particular, anodized aluminum is sensitive to alkaline materials.

11. Apply unmodified thin-set mortar directly to the exposed Schluter®-KERDI surface and install the tiles, ensuring full coverage. For acid-resistant coverings, use an epoxy adhesive to set and grout the tile.

## Shower Bases Constructed with Mortar

- 1a. If there is access to the plumbing from below, and the waste line will be connected subsequent to installing Schluter®-KERDI-DRAIN, the drain can be firmly embedded in a ring of loose mortar and leveled before placing the screed.

- 1b. When job conditions require the setting of the KERDI-DRAIN by the plumber prior to the installation of the mortar bed (or when there is no access to the plumbing from below), connect the drain to the waste line at the desired height. Pack loose mortar under the bonding flange and drain casing, such that the unit is fully supported, before placing the screed. When installing KERDI-DRAIN over wood substrates, the minimum thickness of mortar required at the perimeter of the bonding flange is 1" (25 mm).

**Note:** Schluter®-Systems recommends installing the KERDI-DRAIN according to step 1a above whenever possible. This method affords the installer greater control over the final position of the drain and makes it easier to obtain full support under the bonding flange.

2. The screed is then placed flush with the top of the bonding flange of the KERDI-DRAIN. Slope the mortar bed using the bonding flange and a perimeter screed as guides.

3. As soon as the mortar can be walked upon, apply a bond coat of unmodified thin-set mortar to the screed using a 1/4" x 3/16" (6 mm x 5 mm) V-notched or the Schluter®-KERDI-TROWEL, which features a 1/8" x 1/8" (3 mm x 3 mm) square-notched design. When using the plastic drain casing, apply additional unmodified thin-set mortar to the bonding flange with a 1/4" x 3/16" (6 mm x 5 mm) V-notched or the Schluter®-KERDI-TROWEL, which features a 1/8" x 1/8" (3 mm x 3 mm) square-notched design. When using the stainless steel drain casing, the Schluter®-KERDI waterproofing membrane is bonded to the integrated bonding flange with the Schluter®-KERDI-FIX adhesive/sealant. The stainless steel bonding flange must be clean and free of grease or other

contaminants prior to KERDI-FIX application. Embed Schluter®-KERDI in the bond coat and work the membrane onto the entire surface to ensure full coverage and remove air pockets. The KERDI is carried to the step in the bonding flange (template provided). Be sure the connection between the KERDI and KERDI-DRAIN is secure.

**Note:** A sheet of cardboard can be placed on the floor to protect the KERDI during subsequent steps.

4. Construct floor/wall, floor/curb, and wall/wall connections using Schluter®-KERDI-BAND or cut sections of KERDI. Seams are easily constructed by overlapping the edges of KERDI or KERDI-BAND by 2" (50 mm) using an unmodified thin-set mortar.
5. Seal the shower curb/wall junction and other corners using Schluter®-KERDI-KERECK-F inside and outside corners and unmodified thin-set mortar.
6. Apply a bond coat of unmodified thin-set mortar to the shower walls and curb using a 1/4" x 3/16" (6 mm x 5 mm) V-notched or the Schluter®-KERDI-TROWEL, which features a 1/8" X 1/8" (3 mm x 3 mm) square-notched design. Embed the KERDI in the thin-set mortar and work the membrane onto the entire surface to ensure full coverage and remove air pockets. The KERDI is carried to the height of the showerhead (at minimum).

**Note:** The thin-set mortar used for bonding Schluter®-KERDI to the walls and curb must be appropriate for the substrate and must penetrate and engage the KERDI fleece. For most substrates (e.g., drywall or CBU), an unmodified thin-set mortar is used. Seams in the membrane are constructed by overlapping the edges of KERDI by 2" (50 mm) with unmodified thin-set mortar or by abutting adjacent sheets of KERDI and installing KERDI-BAND with unmodified thin-set mortar, centered over the joint.

**Note:** Any protrusions through the KERDI membrane (e.g., mixing valve, shower head, etc.) must be treated with Schluter®-KERDI-SEAL-PS/-MV, Schluter®-KERDI-FIX, or equivalent sealant, to ensure a watertight seal.

7. Once the entire membrane, including seams, corners, curbs, and connection

to drain, have been completely bonded and, therefore, waterproofed, the assembly is ready to be tiled. The sequence of membrane installation can vary from the steps above (i.e., top-over-bottom or shingle laps are not required) provided that the minimum 2" (50 mm) overlap is maintained at all joints and proper connection to the drain is established.

**Note:** Prior to setting tile, if the assembly is to be water tested, wait 24 hours to allow for final set of the mortar before testing to ensure waterproof

performance of the assembly at seams and connections.

8. The grate assembly, which is comprised of the grate, the height adjustment collar, and the lateral adjustment ring, is set with unmodified thin-set mortar. The height of the grate is adjusted via the height adjustment collar and aligned flush with the top of the covering. Since the diameter of the height adjustment collar is smaller than the opening of the bonding flange, the grate can be positioned to match the joint pattern of the tile covering.

**Note:** Protect the visible surface of the grate from contact with setting and grouting materials. In particular, anodized aluminum is sensitive to alkaline materials.

9. Apply unmodified thin-set mortar directly to the exposed Schluter®-KERDI surface and install the tiles, ensuring full coverage. For acid-resistant coverings, use an epoxy adhesive to set and grout the tile.

**Product Item Numbers**



| 8.3 Schluter®-KERDI-SHOWER-ST (prefabricated EPS tray) |              |              |                  |                 |
|--|--------------|--------------|------------------|-----------------|
| Item No.   | Width        | Length       | Perimeter Height | Drain Placement |
| ST-122   | 48" – 122 cm | 48" – 122 cm | 1-1/2" – 3.8 cm  | Center          |
| ST-81/152  | 32" – 81 cm  | 60" – 152 cm | 1-3/4" – 4.4 cm  | Center          |
| ST-81/152 BR   | 32" – 81 cm  | 60" – 152 cm | 1-1/2" – 3.8 cm  | Off-center*     |
| ST-183   | 72" – 183 cm | 72" – 183 cm | 1-1/2" – 3.8 cm  | Center          |

\*Off-center drain at 10" (25 cm) from end



| 8.3 Schluter®-KERDI-SHOWER-SC (prefabricated EPS curb) |                  |              |            |
|--|------------------|--------------|------------|
| Item No.   | Width            | Length       | Height     |
| SC-122   | 4-1/2" – 11.5 cm | 48" – 122 cm | 6" – 15 cm |



| 8.3 Schluter®-KERDI-SHOWER-SR (prefabricated EPS ramp) |              |                 |                 |
|--|--------------|-----------------|-----------------|
| Item No.   | Width        | Length          | Height          |
| SR-122   | 48" – 122 cm | 15-7/8" – 40 cm | 1-1/2" – 3.8 cm |



| 8.1 Schluter®-KERDI (waterproofing membrane) |             |               |                 |           |
|--|-------------|---------------|-----------------|-----------|
| Item No.                                     | Width       | Length        | Area            | Thickness |
| KERDI 200/5M                                 | 3' 3" – 1 m | 16' 5" – 5 m  | 54 ft² – 5 m²   | 8 mil     |
| KERDI 200/10M                                | 3' 3" – 1 m | 33' – 10 m    | 108 ft² – 10 m² | 8 mil     |
| KERDI 200                                    | 3' 3" – 1 m | 98' 5" – 30 m | 323 ft² – 30 m² | 8 mil     |

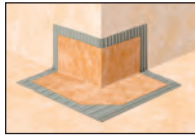


| 8.1 Schluter®-KERDI-BAND (waterproofing strips) |                  |               |           |
|---|------------------|---------------|-----------|
| Item No.  | Width            | Length        | Thickness |
| KEBA 100/125/5M                                 | 5" – 12.5 cm     | 16' 5" – 5 m  | 4 mil     |
| KEBA 100/125/10M                                | 5" – 12.5 cm     | 33' – 10 m    | 4 mil     |
| KEBA 100/185/5M                                 | 7-1/4" – 18.5 cm | 16' 5" – 5 m  | 4 mil     |
| KEBA 100/250/5M                                 | 10" – 25 cm      | 16' 5" – 5 m  | 4 mil     |
| KEBA 100/125                                    | 5" – 12.5 cm     | 98' 5" – 30 m | 4 mil     |
| KEBA 100/185                                    | 7-1/4" – 18.5 cm | 98' 5" – 30 m | 4 mil     |
| KEBA 100/250                                    | 10" – 25 cm      | 98' 5" – 30 m | 4 mil     |



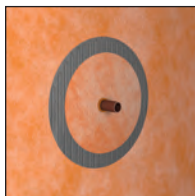
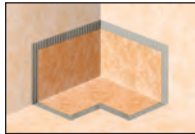
**8.1 Schluter®-KERDI-FLEX (waterproofing strips for use above movement joints)**

| Item No.    | Width        | Length        | Thickness |
|-------------|--------------|---------------|-----------|
| FLEX 125/5M | 5" - 12.5 cm | 16' 5" - 5 m  | 12 mil    |
| FLEX 250/5M | 10" - 25 cm  | 16' 5" - 5 m  | 12 mil    |
| FLEX 125/30 | 5" - 12.5 cm | 98' 5" - 30 m | 12 mil    |
| FLEX 250/30 | 10" - 25 cm  | 98' 5" - 30 m | 12 mil    |



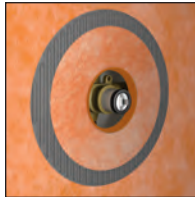
**8.1 Schluter®-KERDI-KERECK-F (pre-formed corners)**

| Item No.       | Thickness | Packaging          |
|----------------|-----------|--------------------|
| KERECK / FI 2  | 4 mil     | 2 Inside corners   |
| KERECK / FI 10 | 4 mil     | 10 Inside corners  |
| KERECK / FA 2  | 4 mil     | 2 Outside corners  |
| KERECK / FA 10 | 4 mil     | 10 Outside corners |



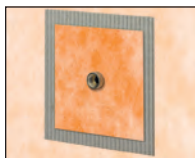
**8.1 Schluter®-KERDI-SEAL-PS (pipe seal with over-molded rubber gasket)**

| Item No.    | Pipe nipple opening diam. | Thickness | Packaging |
|-------------|---------------------------|-----------|-----------|
| KMS185/12   | 1/2" - 12.5 mm            | 4 mil     | 1 unit    |
| KMS185/20   | 3/4" - 20 mm              | 4 mil     | 1 unit    |
| KMS10185/12 | 1/2" - 12.5 mm            | 4 mil     | 10 units  |
| KMS10185/20 | 3/4" - 20 mm              | 4 mil     | 10 units  |



**8.1 Schluter®-KERDI-SEAL-MV (mixing valve seal with over-molded rubber gasket)**

| Item No.       | Mixing valve opening diam. | Thickness | Packaging |
|----------------|----------------------------|-----------|-----------|
| KMSMV235/114   | 4-1/2" - 114 mm            | 4 mil     | 1 unit    |
| KMSMV10235/114 | 4-1/2" - 114 mm            | 4 mil     | 10 units  |



**8.1 Schluter®-KERDI-KM (pipe collar)**

| Item No.   | Dimensions              | Thickness | Packaging |
|------------|-------------------------|-----------|-----------|
| KM 5117/22 | 7" x 7" - 17 cm x 17 cm | 4 mil     | 5 units   |

Hole diameter,  $\phi = 7/8" - 22 \text{ mm}$



**Schluter®-KERDI-TROWEL**

| Item No. | Notch Size                | Packaging |
|----------|---------------------------|-----------|
| TRL-KER6 | 1/8" x 1/8" (3 mm x 3 mm) | 6 units   |



**8.3 Schluter®-KERDI-FIX (sealant)**

| Item No.                  | Cartridge Volume |
|---------------------------|------------------|
| KERDIFIX / <i>color</i> * | 9.81 oz (290 ml) |

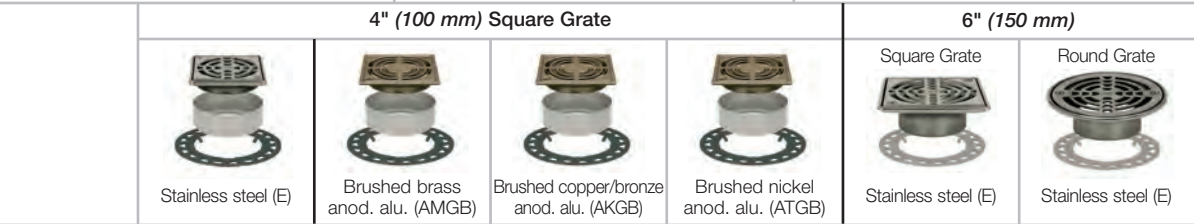
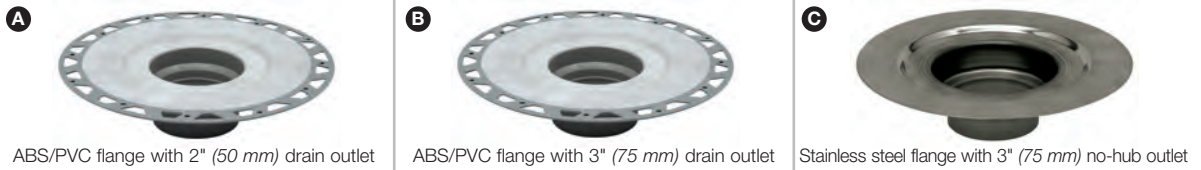
**\*Color Codes**



To complete the item number, add the *color* code (e.g., KERDIFIX / BW).

## 8.2 Schluter®-KERDI-DRAIN

### Flanges



#### A Floor drain, with integrated bonding flange with 2" (50 mm) outlet

|     |           |              |              |              |            |             |
|-----|-----------|--------------|--------------|--------------|------------|-------------|
| ABS | KD2/ABS/E | KD2/ABS/AMGB | KD2/ABS/AKGB | KD2/ABS/ATGB | KD2/ABS/6E | KD2/ABS/6RE |
| PVC | KD2/PVC/E | KD2/PVC/AMGB | KD2/PVC/AKGB | KD2/PVC/ATGB | KD2/PVC/6E | KD2/PVC/6RE |

#### B Floor drain, with integrated bonding flange with 3" (75 mm) outlet

|     |   |   |   |   |            |             |
|-----|---|---|---|---|------------|-------------|
| ABS | - | - | - | - | KD3/ABS/6E | KD3/ABS/6RE |
| PVC | - | - | - | - | KD3/PVC/6E | KD3/PVC/6RE |

#### C Floor drain, with integrated bonding flange with 3" (75 mm) no-hub outlet

|                 |         |            |            |            |          |           |
|-----------------|---------|------------|------------|------------|----------|-----------|
| Stainless Steel | KD3/E/E | KD3/E/AMGB | KD3/E/AKGB | KD3/E/ATGB | KD3/E/6E | KD3/E/6RE |
|-----------------|---------|------------|------------|------------|----------|-----------|

Drain casing is available in ABS (black), PVC (grey), or Stainless Steel. All other components are made of ABS, except where otherwise indicated.

**Note:** The drain assemblies include 4 inside and 2 outside KERDI-KERECK corners.

### Schluter®-KERDI-DRAIN Product Listings

| Flange          | Grate              | UPC® | CSA | NSF |
|-----------------|--------------------|------|-----|-----|
| 2" ABS/PVC      | 4" Stainless Steel | X    | X   | X   |
| 2" ABS/PVC      | 4" Anod. Alu.      | X    | X   | X   |
| 2" ABS/PVC      | 6" Stainless Steel |      | X   |     |
| 3" ABS/PVC      | 6" Stainless Steel |      |     |     |
| Stainless Steel | 4" Stainless Steel | X    | X   |     |
| Stainless Steel | 4" Anod. Alu.      | X    | X   |     |
| Stainless Steel | 6" Stainless Steel | X    | X   |     |

Product Standards:

UPC - IAPMO IGC 195

CSA - CSA B79

NSF - Special engineered product (SE)

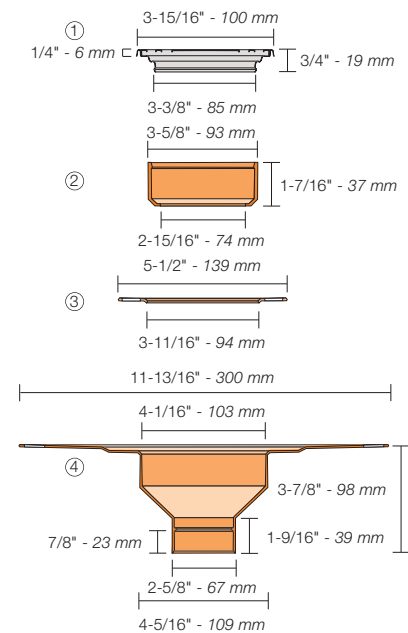
For copies of the above listings, please contact Schluter®-Systems at (800) 472-4588 (USA) or (800) 667-8746 (CAN) or by e-mail at info@schluter.com. Links to the above listings can also be accessed at www.schluter.com.

**Note:** Stainless steel, Phillips head screws are included with KERDI-DRAIN. If you require tamper-proof screws, please see the table below.

### Tamper-proof screws (for grate)

| Item No.  | Description        | Packaging |
|-----------|--------------------|-----------|
| KD/TPSCRW | Tamper-proof screw | 1 unit    |
| KD/TPWRCH | Wrench             | 1 unit    |

### Components for ABS/PVC flange with 2" (50 mm) drain outlet and 4" (100 mm) grate



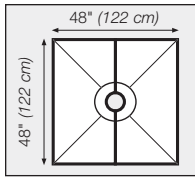
① Grate (Stainless steel, Brushed nickel anodized aluminum, Brushed copper/bronze anodized aluminum, Brushed brass anodized aluminum)

② Height adjustment collar

③ Lateral adjustment ring

④ Drain casing with fleece-laminated bonding flange



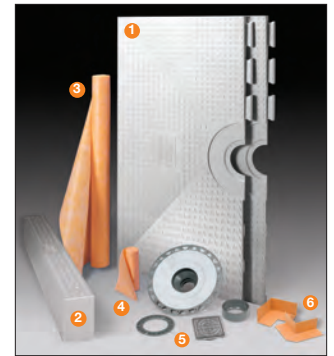


**Schluter®-KERDI-SHOWER-KIT (48" x 48" center drain tray)**

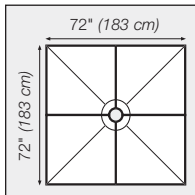
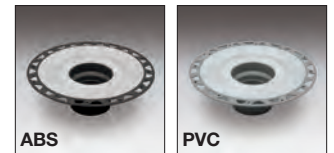
| Components        | Description  | Quantity |
|-------------------|--|----------|
| 1 KERDI-SHOWER-ST | Showers tray, 48" x 48" (122 cm x 122 cm)                  | 1        |
| 2 KERDI-SHOWER-SC | Showers curb, 48" x 6" x 4-1/2" (122 cm x 15 cm x 11.5 cm) | 1        |
| 3 KERDI           | Waterproofing membrane, 3' 3" x 33' (1 m x 10 m)           | 1        |
| 4 KERDI-BAND      | Waterproofing strip, 5" x 33' (125 mm x 10 m)              | 1        |
| 5 KERDI-DRAIN     | Drain, with integrated bonding flange                      | 1        |
| 6 KERDI-KERECK-F  | Inside corners<br>Outside corners                          | 4<br>2   |

**Specify material for drain (ABS or PVC) and grate finish**

| Item No.   | Materials |
|--|-----------|
| <b>with Stainless steel grate (E 304) (1.4301 = V2A)</b>         |           |
| KK122PVCE  | PVC       |
| KK122ABSE  | ABS       |
| <b>with Brushed nickel anodized aluminum grate (ATGB)</b>        |           |
| KK122PVCATGB   | PVC       |
| KK122ABSATGB   | ABS       |
| <b>with Brushed copper/bronze anodized aluminum grate (AKGB)</b> |           |
| KK122PVCAKGB   | PVC       |
| KK122ABSAKGB   | ABS       |
| <b>with Brushed brass anodized aluminum grate (AMGB)</b>         |           |
| KK122PVCAMGB   | PVC       |
| KK122ABSAMGB   | ABS       |



**Note:** Drain casing is available in ABS (black) or PVC (grey). All other components are made of ABS, except where otherwise indicated.



**Schluter®-KERDI-SHOWER-KIT (72" x 72" center drain tray)**

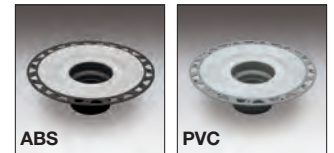
| Components        | Description  | Quantity |
|-------------------|--|----------|
| 1 KERDI-SHOWER-ST | Showers tray, 72" x 72" (183 cm x 183 cm)                  | 1        |
| 2 KERDI-SHOWER-SC | Showers curb, 48" x 6" x 4-1/2" (122 cm x 15 cm x 11.5 cm) | 2        |
| 3 KERDI           | Waterproofing membrane, 3' 3" x 33' (1 m x 10 m)           | 2        |
| 4 KERDI-BAND      | Waterproofing strip, 5" x 33' (125 mm x 10 m)              | 2        |
| 5 KERDI-DRAIN     | Drain, with integrated bonding flange                      | 1        |
| 6 KERDI-KERECK-F  | Inside corners<br>Outside corners                          | 4<br>2   |

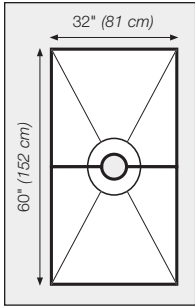
**Specify material for drain (ABS or PVC) and grate finish**

| Item No.   | Materials |
|--|-----------|
| <b>with Stainless steel grate (E 304) (1.4301 = V2A)</b>         |           |
| KK183PVCE  | PVC       |
| KK183ABSE  | ABS       |
| <b>with Brushed nickel anodized aluminum grate (ATGB)</b>        |           |
| KK183PVCATGB   | PVC       |
| KK183ABSATGB   | ABS       |
| <b>with Brushed copper/bronze anodized aluminum grate (AKGB)</b> |           |
| KK183PVCAKGB   | PVC       |
| KK183ABSAKGB   | ABS       |
| <b>with Brushed brass anodized aluminum grate (AMGB)</b>         |           |
| KK183PVCAMGB   | PVC       |
| KK183ABSAMGB   | ABS       |



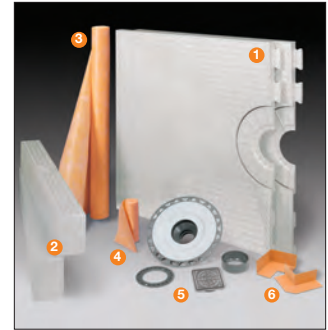
**Note:** Drain casing is available in ABS (black) or PVC (grey). All other components are made of ABS, except where otherwise indicated.





**Schluter®-KERDI-SHOWER-KIT (32" x 60" center drain tray)**

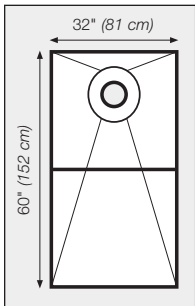
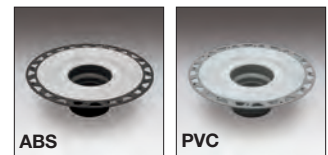
| Components        | Description   | Quantity |
|-------------------|---|----------|
| 1 KERDI-SHOWER-ST | Shower tray, 32" x 60" (81 cm x 152 cm)                   | 1        |
| 2 KERDI-SHOWER-SC | Shower curb, 48" x 6" x 4-1/2" (122 cm x 15 cm x 11.5 cm) | 2        |
| 3 KERDI           | Waterproofing membrane, 3' 3" x 33' (1 m x 10 m)          | 1        |
| 4 KERDI-BAND      | Waterproofing strip, 5" x 33' (125 mm x 10 m)             | 1        |
| 5 KERDI-DRAIN     | Drain, with integrated bonding flange                     | 1        |
| 6 KERDI-KERECK-F  | Inside corners<br>Outside corners                         | 4<br>2   |



**Note:** Drain casing is available in ABS (black) or PVC (grey). All other components are made of ABS, except where otherwise indicated.

**Specify material for drain (ABS or PVC) and grate finish**

| Item No.   | Materials |
|--|-----------|
| <b>with Stainless steel grate (E 304) (1.4301 = V2A)</b>         |           |
| KK81152PVCE  | PVC       |
| KK81152ABSE  | ABS       |
| <b>with Brushed nickel anodized aluminum grate (ATGB)</b>        |           |
| KK81152PVCATGB   | PVC       |
| KK81152ABSATGB   | ABS       |
| <b>with Brushed copper/bronze anodized aluminum grate (AKGB)</b> |           |
| KK81152PVCAKGB   | PVC       |
| KK81152ABSAKGB   | ABS       |
| <b>with Brushed brass anodized aluminum grate (AMGB)</b>         |           |
| KK81152PVCAMGB   | PVC       |
| KK81152ABSAMGB   | ABS       |



**Schluter®-KERDI-SHOWER-KIT (32" x 60" off-center drain tray)**

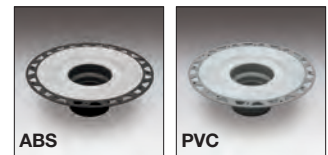
| Components        | Description   | Quantity |
|-------------------|---|----------|
| 1 KERDI-SHOWER-ST | Shower tray, 32" x 60" (81 cm x 152 cm)                   | 1        |
| 2 KERDI-SHOWER-SC | Shower curb, 48" x 6" x 4-1/2" (122 cm x 15 cm x 11.5 cm) | 2        |
| 3 KERDI           | Waterproofing membrane, 3' 3" x 33' (1 m x 10 m)          | 1        |
| 4 KERDI-BAND      | Waterproofing strip, 5" x 33' (125 mm x 10 m)             | 1        |
| 5 KERDI-DRAIN     | Drain, with integrated bonding flange                     | 1        |
| 6 KERDI-KERECK-F  | Inside corners<br>Outside corners                         | 4<br>2   |



**Note:** Drain casing is available in ABS (black) or PVC (grey). All other components are made of ABS, except where otherwise indicated.

**Specify material for drain (ABS or PVC) and grate finish**

| Item No.   | Materials |
|--|-----------|
| <b>with Stainless steel grate (E 304) (1.4301 = V2A)</b>         |           |
| KKB81152PVCE   | PVC       |
| KKB81152ABSE   | ABS       |
| <b>with Brushed nickel anodized aluminum grate (ATGB)</b>        |           |
| KKB81152PVCATGB  | PVC       |
| KKB81152ABSATGB  | ABS       |
| <b>with Brushed copper/bronze anodized aluminum grate (AKGB)</b> |           |
| KKB81152PVCAKGB  | PVC       |
| KKB81152ABSAKGB  | ABS       |
| <b>with Brushed brass anodized aluminum grate (AMGB)</b>         |           |
| KKB81152PVCAMGB  | PVC       |
| KKB81152ABSAMGB  | ABS       |



**Note:** Tray features off-center drain placement: 10" (25.4 cm) o.c. from end of tray.



**8.1 Schluter®-KERDI** and **8.2 Schluter®-KERDI-DRAIN** are used to waterproof a shower installation. The assembly is ready for tile setting.



The **8.2 Schluter®-KERDI-DRAIN** grate assembly accommodates 1/4" (6 mm) to 1-1/4" (32 mm) -thick tiles and features both lateral and tilt adjustment.



The **Schluter® Shower System** eliminates the potential for leakage, efflorescence, and mold growth to ensure that tiled showers remain beautiful and functional over time.



P R O F I L E   O F   I N N O V A T I O N

**Schluter Systems L.P.**  
194 Pleasant Ridge Road, Plattsburgh, NY 12901-5841  
Tel.: 1-800-472-4588 • Fax: 1-800-477-9783  
e-mail: info@schluter.com

**Schluter Systems (Canada) Inc.**  
5626 Thimens Blvd., St-Laurent, QC H4R 2K9  
Tel.: 1-800-667-8746 • Fax: 1-514-336-2410  
e-mail: info@schluter.com

[www.schluter.com](http://www.schluter.com)