SECTION 22 13 19.13

TILE FLOOR AND SHOWER DRAINS

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\*\* NOTE TO SPECIFIER \*\* Schluter-Systems' North America subsidiary, Schluter Systems L.P.; tile floor and shower drain system materials and accessories.
This section is based on the products of Schluter-Systems' North America subsidiary, Schluter Systems L.P., which is located at:
 Schluter in the US
 Schluter Systems L.P.
 194 Pleasant Ridge Road
 Plattsburgh, NY 12901-5841
 Tel.: 1-800-472-4588
 Fax: 1-800-477-9783
 Email: specassist@schluter.com.
 Web: [www.schluter.com](http://www.schluter.com)
 Schluter in Canada
 Schluter Systems (Canada) Inc.
 21100 Chemin Ste-Marie
 Ste-Anne-de Bellevue, QC
 Canada H9X 3Y8
 Tel.: 800-667-8746
 Fax: 888-667-2410
 Email: specassist@schluter.com .
 Web: [www.schluter.ca](http://www.schluter.ca)
Schluter-Systems' North America subsidiary, Schluter Systems L.P., was founded in 1986. With offices in Montreal, Canada, Plattsburgh, New York, Dallas TX, and Reno NV this subsidiary is the second-largest operation in the International Corporation, the first being the home company in Germany.
Schluter Systems L.P. has over one thousand employees who work closely with dealers, distributors, tile contractors, architects, specifiers, and various other members of the building/construction industry, providing the best customer service available: actively helping to ensure a long-lasting tile installation.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Tile Floor and Shower Drains.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 09 30 00: Tiling.
		2. Section 09 30 50: Tile Setting Materials and Accessories\*. Adhesives, mortar, grout, and sealant.
		3. Section 09 30 00: Tile Shower Components and Waterproofing Membrane. Shower trays, curbs, ramps, bench, niche, sealing compound, waterproofing membrane, drainage panels, drainage membrane compatible with floor drains.
		4. Section 22 14 13: Facility Storm Drainage Piping.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. IAPMO IGC 195: Interim Guide Criteria for Floor Drain with Integrated Bonding Flange.
		2. CSA B79-08: Floor, Area, and Shower Drains, and Cleanouts for Residential Construction.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 0.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Catalog information, component sizes, rough-in requirements, service sizes, and finishes.
			3. Storage and handling requirements and recommendations.
			4. Installation Instructions.
		3. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and finish.
		4. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
		5. Warranty documents showing duration and scope to be submitted with product submittals.
	2. QUALITY ASSURANCE
		1. Installer Qualifications: Company specializing in performing the work of this section with minimum five years' experience.
		2. Source Limitations for Materials and Accessories: Obtain product of a uniform quality for each premanufactured tile profile, mortar, waterproofing, and uncoupling membrane for each application condition from a single manufacturer, to maintain the installation system and provide a multi-product warranty from the selected manufacturer.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
			1. Finish areas designated by Architect.
			2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
			3. Refinish mock-up area as required to produce acceptable work.

\*\* NOTE TO SPECIFIER \*\* Include a Preinstallation conference if the project size and/or quality warrant taking such a precaution. Delete if not required.

* + 1. Preinstallation Conference: Conduct conference at the Project site.
			1. Convene one week prior to commencing work of this section.
			2. Require attendance of installation material manufacturer, plumber, waterproofing installer, tile installer and installers of related work. Review installation procedures and coordination required with related work.
			3. Meeting agenda includes but is not limited to:
				1. Drain location.
				2. Prefabricated substrate requirements.
				3. Drainage membrane requirements.
				4. Tile and installation material compatibility.
				5. Manufacturer and installer warranty duration and scope covered by warranty.
				6. Edge protection, transition, and pre-fabricated movement joint profiles.
				7. Waterproofing techniques.
				8. Crack isolation techniques.
	1. DELIVERY, STORAGE, AND HANDLING
		1. Store products in manufacturer's unopened packaging until ready for installation.
		2. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.
		3. Store materials in a dry, warm, ventilated weathertight location.
	2. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
	3. WARRANTY
		1. Provide sample warranty during submittal process.
			1. Acknowledge warranty duration and scope covered by warranty.
	4. COORDINATION
		1. Coordinate Work with other operations and installation of floor finish materials to avoid damage to installed materials.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Schluter Systems, L.P., 194 Pleasant Ridge Road, Plattsburgh, NY 12901-5841. ASD. Tel: (800) 472-4588. Fax (800) 477-9783. E-mail: specassist@schluter.com. Web: www.schluter.com.
		2. Acceptable Manufacturer: Schluter Systems (Canada) Inc., 21100 Chemin Ste-Marie, Ste-Anne-de-Bellevue, QC H9X 3Y8. Tel: (800) 667-8746. Fax (514) 336-2410. E-mail: specassist@schluter.com. Web: www.schluter.ca.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

\*\* NOTE TO SPECIFIER \*\* Select floor drain with integrated bonding flange as required from the following paragraph. Delete if not required. 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. Note that this paragraph can also be specified in Section 22 13 19.13 Tile Floor and Shower Drains, coordinate as required to avoid duplication.

* 1. FLOOR DRAIN WITH INTEGRATED BONDING FLANGE
		1. Project specific warranty to be provided from Schluter Systems L.P. by Tile Contractor.
		2. Schluter-KERDI-DRAIN: Plastic floor drain 11-25/32 inch (300 mm) diameter, trapezoid-perforated, integrated bonding flange.
			1. Polypropylene Fleece: Thermally laminated to surface and hubbed connection to 2 inch (50 mm) drainpipe.
			2. Grate Assembly: Includes 4 x 4 inch (102 x 102 mm) square grate, height adjustment collar, and lateral adjustment ring with trapezoid perforations.
			3. Listed by UPC: Meets requirements of "International Association of Plumbing and Mechanical Officials Interim Guide Criteria for Floor Drain with Integrated Bonding Flange" (IGC 195).
			4. Listed by CSA: Meets requirements of the Canadian Standards Association standard, "Floor, Area, and Shower Drains, and Cleanouts for Residential Construction" (CSA B79) and referenced in method B422 and B422C of the Tile Council of North America Handbook for Ceramic Tile Installation.

\*\* NOTE TO SPECIFIER \*\* Delete drain housing material option not required. Select material based on anticipated mechanical and/or chemical stresses.

* + - 1. Drain Housing Material: ABS.
			2. Drain Housing Material: PVC.
			3. Drain Housing Material: To be determined.
			4. Grate Type, Material, and Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following grate type, material, and finish paragraphs. Delete those not required. Select based on anticipated mechanical and/or chemical stresses.

* + - * 1. Classic: Arc-shaped and trapezoid-shaped openings.

E: Stainless Steel Type 304.

EP: Stainless Steel Type 304, Polished.

EOB: Stainless Steel Type 304, Oil-Rubbed Bronze.

ET: Stainless Steel Type 304, Nickel.

ECG: Stainless Steel Type 304, Classic Gold.

EVG: Stainless Steel Type 304, Vintage Gold.

ERG: Stainless Steel Type 304, Rose Gold.

To be determined.

* + - * 1. Curve: Alternating arc-shaped openings.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

* + - * 1. Floral: Petal-shaped openings.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

* + - * 1. Pure: Circular opening with central slot opening.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

* + - * 1. Contour: Arc-shaped openings.

ATGB: Anodized Aluminum, Brushed Nickel.

AKGB: Anodized Aluminum, Brushed Copper.

AMGB: Anodized Aluminum, Brushed Brass.

To be determined.

* + - * 1. ECS: Tileable Covering Support, Stainless Steel Type 304.

To be determined.

\*\* NOTE TO SPECIFIER \*\* Select one of the following grate size paragraphs. Delete the ones not required.

* + - 1. Nominal Grate Size: 4 x 4 inch (100 x 100 mm) square.
			2. Nominal Grate Size: 6 x 6 inch (150 x 150 mm) square.
			3. Nominal Grate Size: 6 inch (150 mm) round.
			4. Nominal Grate Size: To be determined.

\*\* NOTE TO SPECIFIER \*\* Select one of the following outlet size paragraphs. Delete those not required.

* + - 1. Drain Outlet: 2 inch (50 mm) outlet.
			2. Drain Outlet: 2 inch (50 mm) horizontal outlet.
			3. Drain Outlet: 3 inch (75 mm) outlet.
			4. Drain Outlet: To be determined.

\*\* NOTE TO SPECIFIER \*\* Schluter�-KERDI-DRAIN-F was designed specifically to ensure a simple and secure connection to bonded uncoupling membranes, such as Schluter�-DITRA in floor applications and at wall transitions. Schluter�-KERDI-DRAIN-F features a flat, narrow bonding flange to allow for placement against walls or in corners on floors. The waterproofing is connected at the top of the assembly rather than below it, thereby reducing the risk of leakage, efflorescence, and mold growth. Note that this paragraph can also be specified in Section 22 13 19.13 Tile Floor and Shower Drains, coordinate as required to avoid duplication.

* + 1. Schluter-KERDI-DRAIN-F: Floor drain 5-1/2 inch (140 mm) nominal wide, flat bonding flange with integrated laminated Schluter-KERDI Waterproof Membrane and vertical height adjustment collar.
			1. Grate Assembly: Includes 4 x 4 inch (102 x 102 mm) square grate, vertical height adjustment collar.
			2. Listed by ICC-ES (Report No. 1204), UPC and CSA.

\*\* NOTE TO SPECIFIER \*\* Delete drain housing material option not required. Select material based on anticipated mechanical and/or chemical stresses.

* + - 1. Drain Housing Material: Polypropylene with ABS and PVC couplings.
			2. Drain Housing Material: Stainless Steel.
			3. Drain Housing Material: To be determined.
			4. Grate Type, Material, and Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following grate type, material, and finish paragraphs. Delete those not required. Select based on anticipated mechanical and/or chemical stresses.

* + - * 1. Classic: Arc-shaped and trapezoid-shaped openings.

E: Stainless Steel Type 304.

EP: Stainless Steel Type 304, Polished.

EOB: Stainless Steel Type 304, Oil-Rubbed Bronze.

ET: Stainless Steel Type 304, Nickel.

ECG: Stainless Steel Type 304, Classic Gold.

EVG: Stainless Steel Type 304, Vintage Gold.

ERG: Stainless Steel Type 304, Rose Gold.

To be determined.

* + - * 1. Curve: Alternating arc-shaped openings.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

* + - * 1. Floral: Petal-shaped openings.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

* + - * 1. Pure: Circular opening with central slot opening.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

* + - * 1. Contour: Arc-shaped openings.

ATGB: Anodized Aluminum, Brushed Nickel.

AKGB: Anodized Aluminum, Brushed Copper.

AMGB: Anodized Aluminum, Brushed Brass.

To be determined.

\*\* NOTE TO SPECIFIER \*\* Select one of the following grate size paragraphs. Delete the ones not required.

* + - 1. Nominal Grate Size: 4 x 4 inch (100 x 100 mm) square.

\*\* NOTE TO SPECIFIER \*\* Select one of the following outlet size paragraphs. Delete those not required.

* + - 1. Drain Outlet: 2 inch (50 mm) NPT outlet.
			2. Drain Outlet: 2 inch (50 mm) no-hub outlet.
			3. Drain Outlet: 2 inch (50 mm) threaded outlet.
			4. Drain Outlet: To be determined.
		1. Schluter-KERDI-DRAIN: Stainless steel floor drain, 9-27/32 inch (250 mm) diameter integrated bonding flange with 3 inch (75 mm) no-hub outlet, and grate assembly.
			1. Grate Assembly: Stainless steel grate, height adjustment collar, and lateral adjustment ring with trapezoid perforations.
			2. Listed by UPC.
			3. Meets requirements of "International Association of Plumbing and Mechanical Officials Interim Guide Criteria for Floor Drain with Integrated Bonding Flange" (IGC 195), listed by CSA to meet requirements of the Canadian Standards Association standard, "Floor, Area, and Shower Drains, and Cleanouts for Residential Construction" (CSA B79),
				1. Drain Detail: As referenced in method B422 and B422C of the Tile Council of North America Handbook for Ceramic Tile Installation.
				2. Drain Housing Material: Stainless Steel.
				3. Grate Type, Material, and Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following grate type, material, and finish options. Delete those not required. Select based on anticipated mechanical and/or chemical stresses.

Classic: Arc-shaped and trapezoid-shaped openings.

E: Stainless Steel Type 304.

EP: Stainless Steel Type 304, Polished.

EOB: Stainless Steel Type 304, Oil-Rubbed Bronze.

ET: Stainless Steel Type 304, Nickel.

ECG: Stainless Steel Type 304, Classic Gold.

EVG: Stainless Steel Type 304, Vintage Gold.

ERG: Stainless Steel Type 304, Rose Gold.

To be determined.

Curve: Alternating arc-shaped openings.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

Floral: Petal-shaped openings.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

Pure: Circular opening with central slot opening.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

Contour: Arc-shaped openings.

ATGB: Anodized Aluminum, Brushed Nickel.

AKGB: Anodized Aluminum, Brushed Copper.

AMGB: Anodized Aluminum, Brushed Brass.

To be determined.

ECS: Tileable Covering Support, Stainless Steel Type 304.

To be determined.

\*\* NOTE TO SPECIFIER \*\* Delete Nominal grate size options not required.

* + - 1. Nominal Grate Size: 4 inch (100 mm) by 4 inch (100 mm) square.
			2. Nominal Grate Size: 6 inch (150 mm) by 6 inch (150 mm) square.
			3. Nominal Grate Size: 6 inch (150 mm) round.
			4. Nominal Grate Size: To be determined.

\*\* NOTE TO SPECIFIER \*\* Delete drain outlet options not required.

* + - 1. Drain Outlet: 2 inch (50 mm) outlet.
			2. Drain Outlet: 2 inch Threaded stainless steel (50 mm) outlet.
			3. Drain Outlet: 3 inch (75 mm) outlet.
			4. Drain Outlet: To be determined.
		1. Schluter-KERDI-DRAIN ADAPTER KIT: Stainless steel adaptor ring with over-molded santoprene gasket. 11-13/16 inch (300 mm) diameter sloped integrated bonding flange, with thermally laminated polypropylene fleece, and grate assembly.
			1. Grate Assembly: Grate, height adjustment collar, and lateral adjustment ring with trapezoid perforations.
			2. Drain Detail: As referenced in method B422 and B422C of the Tile Council of North America Handbook for Ceramic Tile Installation.
			3. Drain Type: As referenced in methods B422 and B422 STONE in the Tile Council of North America Handbook for Ceramic, Glass, and Stone Tile Installation.

\*\* NOTE TO SPECIFIER \*\* Delete drain housing material option not required. Select drain according to drainpipe material.

* + - 1. Drain Housing Material: ABS.
			2. Drain Housing Material: PVC.
			3. Drain Housing Material: To be determined.
			4. Grate Type, Material and Finish:

\*\* NOTE TO SPECIFIER \*\* Select one of the following grate type, material, and finish options. Delete those not required. Select based on anticipated mechanical and/or chemical stresses.

* + - * 1. Classic: Arc-shaped and trapezoid-shaped openings.

E: Stainless Steel Type 304.

EP: Stainless Steel Type 304, Polished.

EOB: Stainless Steel Type 304, Oil-Rubbed Bronze.

ET: Stainless Steel Type 304, Nickel.

ECG: Stainless Steel Type 304, Classic Gold.

EVG: Stainless Steel Type 304, Vintage Gold.

ERG: Stainless Steel Type 304, Rose Gold.

To be determined.

* + - * 1. Curve: Alternating arc-shaped openings.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

* + - * 1. Floral: Petal-shaped openings.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

* + - * 1. Pure: Circular opening with central slot opening.

EB: Stainless Steel Type 304, Brushed.

EBT: Stainless Steel Type 304, Brushed Nickel.

EBCG: Stainless Steel Type 304, Brushed Classic Gold.

EBVG: Stainless Steel Type 304, Brushed Vintage Gold.

EBRG: Stainless Steel Type 304, Brushed Rose Gold.

TSC: Color Coated Aluminum, Cream.

TSBG: Color Coated Aluminum, Greige.

TSSG: Color Coated Aluminum, Stone Grey.

TSOB: Color Coated Aluminum, Bronze.

MBW: Color Coated Aluminum, Matte White.

MGS: Color Coated Aluminum, Matte Black.

To be determined.

* + - * 1. Contour: Arc-shaped openings.

ATGB: Anodized Aluminum, Brushed Nickel.

AKGB: Anodized Aluminum, Brushed Copper.

AMGB: Anodized Aluminum, Brushed Brass.

To be determined.

* + - * 1. ECS: Tileable Covering Support, Stainless Steel Type 304.

To be determined.

\*\* NOTE TO SPECIFIER \*\* Delete nominal grate size options not required.

* + - 1. Nominal Grate Size: 4 inch (100 mm) by 4 inch (100 mm) square.
			2. Nominal Grate Size: 6 inch (150 mm) by 6 inch (150 mm) square.
			3. Nominal Grate Size: 6 inch (150 mm) round.
			4. Nominal Grate Size: To be determined.

\*\* NOTE TO SPECIFIER \*\* Delete bonding flange length option not required.

* + - 1. Bonding Flange Length: 1-9/16 inch (39.7 mm).
			2. Bonding Flange Length: 3-41/64 inch (92.4 mm).
			3. Bonding Flange Length: To be determined.

\*\* NOTE TO SPECIFIER \*\* Schluter®-KERDI-LINE is a low profile linear floor drain specifically designed for bonded waterproofing assemblies. KERDI-LINE can be installed adjacent to walls or at intermediate locations in showers, steam rooms, wet rooms, and other applications that require waterproofing and drainage. The floor can be sloped on a single plane to KERDI-LINE, which enables the use of large-format tiles and creates interesting design opportunities.

* + 1. Schluter-KERDI-LINE DRAIN, Brushed Stainless Steel: Linear floor drain consisting of a formed stainless steel channel body and grate assembly that can be seamlessly adjusted to tile or stone covering thickness from 1/8 inch (3 mm) to 1 inch (25 mm).
			1. Channel Body: Trough Width: 2-1/4 inch (57 mm). No-Hub Outlet: 2 inch (50 mm). Bonding Flange: 7/8 inch (22 mm) wide laminated with a collar made of the Schluter-KERDI waterproofing membrane.
			2. Drain Type: As referenced in methods B422 and B422 STONE in the Tile Council of North America Handbook for Ceramic, Glass, and Stone Tile Installation.
			3. Channel Body Material: Stainless Steel 304 (1.4301 equals V2A).

\*\* NOTE TO SPECIFIER \*\* Select one of the following channel body and grate length paragraphs. Delete the ones not required. The lengths shown do not include the width of the bonding flange; please refer to the product data sheet to select the correct channel body length for your application.

* + - 1. Channel Body and Grate Nominal Length: 20 inch (500 mm).
			2. Channel Body and Grate Nominal Length: 24 inch (600 mm).
			3. Channel Body and Grate Nominal Length: 28 inch (700 mm).
			4. Channel Body and Grate Nominal Length: 32 inch (800 mm).
			5. Channel Body and Grate Nominal Length: 36 inch (900 mm).
			6. Channel Body and Grate Nominal Length: 40 inch (1000 mm).
			7. Channel Body and Grate Nominal Length: 44 inch (1100 mm).
			8. Channel Body and Grate Nominal Length: 48 inch (1200 mm).
			9. Channel Body and Grate Nominal Length: 52 inch (1300 mm).
			10. Channel Body and Grate Nominal Length: 56 inch (1400 mm).
			11. Channel Body and Grate Nominal Length: 60 inch (1500 mm).
			12. Channel Body and Grate Nominal Length: 64 inch (1600 mm).
			13. Channel Body and Grate Nominal Length: 68 inch (1700 mm).
			14. Channel Body and Grate Nominal Length: 72 inch (1800 mm).
			15. Channel Body and Grate Nominal Length: To be determined.

\*\* NOTE TO SPECIFIER \*\* Delete grate frame height options not required.

* + - 1. Grate Frame Height: 3/4 inch (19 mm).
			2. Grate Frame Height: 1-1/8 inch (30 mm).
			3. Grate Frame Height: Not required for Frameless Tilable Grate.
			4. Grate Frame Height: To be determined.

\*\* NOTE TO SPECIFIER \*\* Select one of the following grate design paragraphs. Delete the ones not required. Please note that the stainless steel pan for setting tile inserts can accommodate tile inserts only up to 3/8 inch (10 mm) thick.

* + - 1. Grate Design: Closed-design Solid-design. Brushed stainless steel 304 (1.4301 equals V2A). Grate Frame: 3/8 inch (10 mm) wide brushed stainless steel. Grate Insert: 2-1/8 inch (54 mm) wide. Frame and insert together form the visible surface.
			2. Grate Design: Closed-design Solid-design. Brushed stainless steel 304 (1.4301 equals V2A). Grate Frame: 3/8 inch (10 mm) wide CHROME. Grate Insert: 2-1/8 inch (54 mm) wide. Frame and insert together form the visible surface.
			3. Grate Design: Closed-design Solid-design. Brushed stainless steel 304 (1.4301 equals V2A). Grate Frame: 3/8 inch (10 mm) wide MATTE BLACK. Grate Insert: 2-1/8 inch (54 mm) wide. Frame and insert together form the visible surface.
			4. Grate Design: Square-design. Brushed stainless steel 304 (1.4301 equals V2A). Square perforations. Grate Frame: 3/8 inch (10 mm) wide brushed stainless steel. Grate Insert: 2-1/8 inch (54 mm) wide. Frame and insert together form the visible surface.
			5. Grate Design: Square-design. Brushed stainless steel 304 (1.4301 equals V2A). Square perforations. Grate Frame: 3/8 inch (10 mm) wide CHROME. Grate Insert: 2-1/8 inch (54 mm) wide. Frame and insert together form the visible surface.
			6. Grate Design: Square-design. Brushed stainless steel 304 (1.4301 equals V2A). Square perforations. Grate Frame: 3/8 inch (10 mm) wide MATTE BLACK. Grate Insert: 2-1/8 inch (54 mm) wide. Frame and insert together form the visible surface.
			7. Grate Design: Square perforations with locking mechanism. Grate Frame: 3/8 inch (10 mm) wide Brushed Stainless Steel. Grate Insert: 2-1/8 inch (54 mm) wide. Frame and insert together form the visible surface.
			8. Grate Design: Frameless. Tileable plate stainless steel type 304.
			9. Grate Design: Curved. Stainless Steel with Curvaceous pattern openings.
			10. Grate Design: Floral. Stainless Steel with Symmetrical pattern openings.
			11. Grate Design: Pure. Stainless Steel with Rounded pattern openings.
			12. Grate Design: To be determined.

\*\*NOTE TO SPECIFIER \*\* Delete the drain outlet option not required. Please note that the off-set drain outlet is off-set 8 inches from the outside edge of the drain channel body and is not available in all lengths. Consult data sheet for more information.

* + - 1. Drain Outlet: Center.
			2. Drain Outlet: Off-set.
			3. Drain Outlet: To be determined.
			4. Drain Grate Connector Plate: Brushed stainless steel 304 (1.4301 equals V2A).
			5. Drain Grate Connector Plate: Chrome.
			6. Drain Grate Connector Plate: Matte Black.
			7. Drain Grate Connector Plate: To be determined.

\*\* NOTE TO SPECIFIER \*\* KERDI-FIX is suitable for bonding the Schluter-KERDI waterproofing membrane and Schluter-KERDI-BAND to fixed building elements. Select one of the following color paragraphs and delete the one not required for project.Delete KERDI-FIX if not required.

* + 1. Schluter-KERDI-FIX: Single-component, elastomeric, waterproof sealing, and bonding compound with a silane-modified polymer base. Compound is free of solvents and odorless.

\*\* NOTE TO SPECIFIER \*\* Select one of the following color paragraphs and delete the one not required .

* + - 1. Color: BW: Bright White.
			2. Color: G: Grey.
			3. Color: To be determined.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly prepared.
		2. Verify drain location and compatibility with drain system specified.
		3. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces by removing all debris, sharp edges and protrusions that could damage the waterproof integrity of the system.
		3. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions.
		2. Coordinate Work with installation of prefabricated shower trays, load-bearing bonded waterproof membrane meeting ANSI A118.10, drainage membrane and other components specified in Section 09 30 00 and with setting materials for floor finish materials specified in Section 09 30 50.
	4. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION