**SWIMMING POOL SPECIFICATION**

**SECTION 13 11 00**

**Perimeter Overflow System**

1. A perimeter overflow system consisting of a continuous concrete or overflow channel as detailed and shown on the design documents shall be installed on the pool(s).
2. The sidewalls, floor of a concrete gutter shall be coated with an approved waterproofing application.

(Select one below – Parallel Grating or Perpendicular Grating or Custom Parallel Grating)

1. **Parallel Grating**
2. The grating shall be formed of molded PVC sections, certified NSF/ANSI/CAN 50-2020, that are modular, interlocking pieces, UV stabilized. The top section shall have a raised herringbone design and certified to AS 4586-2013 Class C for Wet-Barefoot inclining platform (ramp) test for swimming pool surroundings and communal shower rooms. Grating shall be 0.47” (12mm) wide and an outside depth of 1.0” (25.4mm) with a middle depth of 1.83” (46.6mm) for load strength requirements. The grating shall be certified under ANSI/AS 3996 Class A for covers and grates with load exceeding 10kN (2,248lb). The space between the bars shall not exceed 0.315” (8mm) to comply with BS EN 13451 child finger/toe entrapment guidelines. The grating surface bars shall run parallel to the pool wall and with the gap providing at least 40% open space per foot for unrestricted water flow. Fasteners shall be 316-SS and be provided by the manufacturer. The width of the grating shall allow the insertion of the touchpad holding brackets between the grating and the gutter lip.
3. All inside and outside corners and custom radii sections under 3-feet inside diameter shall be custom fabricated and strengthened by manufacturer.
4. Grate width to be 10” (12”,14”; 16”) and supported each side by the pool gutter lip no less than 1.5” in width.
5. Grate color to be selected by the Architect/Owner. Colors available in white, bone and gray. The grating shall have a minimum 10-year manufacturer’s warranty.
6. Grating shall be DPAS (straight) or DPAR (radius) as manufactured by Daldorado LLC. Ph: (888) 509-8128, or approved equal.

**OR**

1. **Perpendicular Grating**
	1. The grating shall be formed of molded PVC sections, certified NSF/ANSI/CAN 50-2020, that are modular, interlocking pieces, UV stabilized. The top section shall have a raised herringbone design and certified to AS 4586-2013 Class C for Wet-Barefoot inclining platform (ramp) test for swimming pool surroundings and communal shower rooms. Grating shall be 0.47” (12mm) wide and an outside depth of 1.0” (25.4mm) with a middle depth of 1.83” (46.6mm) for load strength requirements. The grating shall be certified under ANSI/AS 3996 Class A for covers and grates with load exceeding 10kN (2,248lb). The space between the bars shall not exceed 0.315” (8mm) to comply with BS EN 13451 child finger/toe entrapment guidelines. The grating surface bars shall run perpendicular to the pool wall and with the gap, providing at least 40% open space per foot for unrestricted water flow. Fasteners shall be 316-SS and be provided by the manufacturer. The width of the grating shall allow the insertion of the touchpad holding brackets between the grating and the gutter lip. All inside and outside corners and custom radii sections under 3-feet inside diameter shall be custom fabricated and strengthened by manufacturer.
	2. Grate width to be 12” (14”; 16”) and supported each side by the pool gutter lip no less than 1.5” in width.
	3. Grate color to be selected by the Architect/Owner. Colors available in white, bone and gray. The grating shall have a minimum 10-year manufacturer’s warranty.
	4. Grating shall be manufactured by Daldorado LLC. Ph: (888) 509-8128, or approved equal.

**OR**

1. **Custom Width Parallel Straight Grating**
2. The grating shall be formed of molded PVC sections, certified NSF/ANSI/CAN 50-2020, that are modular, interlocking sections, UV stabilized, with the top section having a raised herringbone design. Grating shall be 0.625” (15.9mm) wide and an outside depth of 1.0” (25.4mm) with the space between the bars not exceeding 0.375” (9.5mm). The grating will have four (4) 15mm FRP rods and five (5) connector pins for load strength requirements. FRP rods to be held in place with PVC caps that are glued on the ends. The grating surface bars shall run parallel to the pool wall and with the gap, provide at least 37.5% open space per foot for unrestricted water flow. Fasteners shall be 316-SS and provided by the manufacturer. The width of the grating shall allow the insertion of the holding brackets between the grating and the gutter supports. All inside and outside corners custom fabricated and strengthened by manufacturer.
3. Grate width to be supported each side by the pool gutter lip no less than 1.5” in width.

*(Gutters without outside gutter lip, the grate shall be structurally supported across the width, by alternate support method, at 24” maximum on center, by others.)*

1. Grate color to be selected by the Architect/Owner. Colors available in white, bone and gray. The grating shall have a minimum 10-year manufacturer’s warranty.
2. Grating shall be DPE as manufactured by Daldorado LLC. Ph: (888) 509-8128, or approved equal.

**(ADDITONAL NOTES TO SPECIFIER)**

**Information required in other Sections in the Project Specifications are as follow:**

**SUBMITTAL DOCUMENT REQUIREMENTS**

* Certifications support the QUALITY of a product, NSF/ANSI/CAN 50-2020 MATERIAL, STRENGTH of a product, SLIP RESISTANCE of a product.

If, as a designer, or customer, you require a **QUALITY** product then specify and request the appropriate Laboratory Testing Certifications for each specified product to be submitted during the submittal process.

*(Daldorado Submittal and Certification documents can be easily obtained and downloaded from the Daldorado LLC website at:* [*www.daldorado.com*](http://www.daldorado.com)*)*

**WARRANTY and CERTIFICATIONS**

* **Warranty** information supports the manufacturer’s warranty on life expectancy of the product. Life expectancy on grate “25-year service life”; 10-year minimum manufacturer’s warranty on product.
* **Certifications** support the QUALITY of a product, NSF/ANSI/CAN 50-2020, STRENGTH of a product, SLIP RESISTANCE testing of a product.

If, as a designer, or customer, you require a QUALITY product then request the appropriate Laboratory Testing Certifications for each product to be submitted during the submittal process.

(Daldorado Warranty information, Certifications and Submittal supporting documents can be obtained from the Daldorado LLC website at: [www.daldorado.com](http://www.daldorado.com))

**OPERATION and MAINTENANCE Manuals**

Please request and ensure that the Swimming Pool Contractor supply all documentation as supplied by the manufacturer for GRATE CERTIFCATIONS AND WARRANTY to the Owner of the facility.

**END OF DOCUMENT**