SAN JUAN PRODUCTS
850 East Davidson Avenue
Eloy, Arizona 85131
www.sanjuanpools.com
kenb@sanjuanpools.com

FIBERGLASS-REINFORCED PLASTIC SWIMMING POOLS

CSI Section:
13 11 00 Swimming Pools and Spas

1.0 RECOGNITION

San Juan Products' pools described in this report were evaluated for use as residential swimming pools. The physical characteristics and durability properties of the pools were evaluated for compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009, and 2006 International Building Code® (IBC)
- 2021, 2018, 2015, 2012, 2009, and 2006 International Residential Code® (IRC)
- 2021, 2018, and 2015 International Swimming Pool and Spa Code® (ISPSC)

2.0 LIMITATIONS

Use of the Fiberglass Reinforced Plastic Swimming Pool shells recognized in this report is subject to the following limitations:

2.1 The Fiberglass Reinforced Plastic Swimming Pool shells shall be constructed and installed in accordance with this report and the manufacturer's installation instructions. In the event of a conflict, the more restrictive shall take precedence.

2.2 Clearances of the swimming pool shells from slopes set forth in the 2021, 2018, 2015, and 2012 IBC Section 1808.7.3 or 2009 and 2006 IBC Section 1805.3.3, and IRC Section R403.1.7, as applicable, shall be observed.

2.3 Barriers shall comply with IBC Section 3109, ISPSC Section 305, or 2012, 2009, and 2006 IRC Section AG105, as applicable.

2.4 Slip resistance is outside the scope of this evaluation report. Evidence of compliance with Section 306.2 of the ISPSC or Section 8.1 of ANSI/NSPI-5 shall be submitted to the building official for approval.

2.5 A permanent label shall be applied to the pool equipment stating the following: "The pool shall remain full of water at all times. Pool may be damaged if water level is allowed to drop below the pool inlet. When appreciable drawdown is noticed or if it becomes necessary to drain the pool, San Juan Products shall be contacted for instructions."

2.6 Diving equipment shall only be installed on Type I pools and shall comply with the requirements of and be installed in accordance with Section 808 of the ISPSC or Section 5.8 of ANSI/NSPI-5.

2.7 Pools that are located in flood hazard areas established in accordance with IRC Table R301.2 (1) shall comply with ISPSC Section 304 or 2012, 2009, and 2006 IRC Sections AG101.2 and AG103.3, as applicable.

2.8 Suction outlets shall be designed and installed in accordance with Section 3109.5 of the IBC, Section 310 of the ISPSC, or Section AG106.1 of the 2012, 2009, and 2006 IRC.

2.9 Electrical, plumbing, pumping, and water heating equipment, and decking are beyond the scope of this report and shall be installed in accordance with the applicable code and the requirements of the building official.

2.10 Special features such as stairs and sloping entries shall be designed to the requirements of Section 809 of the ISPSC.

2.11 Pools are produced by San Juan Products in Eloy, AZ.

3.0 PRODUCT USE

3.1 General: San Juan Products' pools recognized in this report are used in residential swimming pool applications using heated water that is circulated in a closed system. The swimming pool shells comply with the requirements in the 2021, 2018, and 2015 ISPSC and the 2012, 2009, and 2006 IRC Section AG103. Swimming pool shells are permanently installed in-ground. All pool shells are either Type O or Type I as shown in Table 1 of this report and comply with Chapter 8 of the 2021, 2018, and 2015 ISPSC or ANSI/NSPI-5.

3.2 Installation: San Juan Products' pool shells shall be installed in accordance with this report and the manufacturer's installation instructions. All necessary plumbing and electrical work shall comply with the local codes in effect.

Subject to the building official's approval, the San Juan Products' pool shells may be installed without a soil investigation by a registered design professional provided none of the following conditions are encountered at the site:

- Groundwater within the excavation, where the pool floor will contact the soil at the time of installation.
- Un-compacted fill in contact with any portion of the pool shell.
- Expansive-type soils.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safely, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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- Soil types with an angle of repose that will not support the walls of the excavation at desired slopes.
- Adjacent structures, which may be in danger posed by the proposed pool location.

If any of the above-mentioned conditions are encountered, excavation shall cease immediately. The conditions shall be investigated by a qualified registered design professional and mitigation measures recommended, if possible. The investigation report and recommendations provided by the registered design professional shall be submitted to the building official for review and approval prior to resuming excavation.

The pool excavation profile shall have a minimum over-dig of 6 inches (152 mm) on the sides and 4 inches (102 mm) at the bottom. The backfill for the pool bottom shall consist of structurally stable sand or pea gravel up to a maximum of $^{3}/_{8}$-inch (9.53 mm) diameter and compacted to match the pool floor profile. The pool shell shall sit firmly on compacted backfill and be within 1 inch (25.4 mm) of level. Water-fill and backfill simultaneous operations shall commence with backfill washed in with water. The backfill level and water-fill level shall be approximately the same throughout the filling procedure.

After completion of the water-fill and backfill operation, a bond beam shall be installed in accordance with the manufacturer's installation instructions and approved by the building official.

4.0 PRODUCT DESCRIPTION

The San Juan Products pool details are described in Table 1 of this report by model number. Each unit is one-piece fiberglass construction shop-formed over a mold. The pool has a minimum thickness of ¼ inch (6.4 mm) fiberglass reinforced plastic (FRP), which is composed of roving thermosetting polymer matrix. The surface finish is neopentyl glycol/isophthalic gel coat.

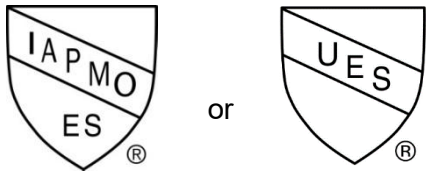
5.0 IDENTIFICATION

The Fiberglass Reinforced Plastic Swimming Pool shells shall be identified as follows:

5.1 A label shall be affixed on at least one of the following: product, packaging, installation instructions or descriptive literature. A label shall also be placed on the installed pool or equipment by the distributor or installer.

5.2 The label shall include the company name or trademark, model number, and the Evaluation Report Number (IAPMO UES ER-298) to identify the products recognized in this report. A die-stamp label may also substitute for the label.

Either IAPMO UES Mark of Conformity may also be used as shown:



IAPMO UES ER-298

6.0 SUBSTANTIATING DATA

6.1 Data has been submitted in accordance with ICC-ES Acceptance Criteria for In-Ground, Residential, Fiber-Reinforced Plastic Swimming Pools and Permanently Installed Plastic Spas (AC274), approved December 2006 (Editorially revised January 2017).

6.2 Test reports are from laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on San Juan Products' pools to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at the location noted in Section 2.11 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

TABLE 1 – POOLS

(cont'd on next 2 pages)

			DEPTH (ft-in)			
MODEL	LENGTH (ft-in)	WIDTH (ft-in)	SHALLOW END	DEEP END	VOLUME (gal)	DIVING TYPE
26	20-9	11-5	4-0	4-0	4500	0
28	33-10	15-10	3-11	5-1	11600	0
29	33-10	15-10	3-11	5-1	10400	0
32	17-2	11-11	1-6	1-6	1330	0
50	21-10	10-5	3-8	4-11	4800	0
75	16-2	8-2	4-0	4-0	2650	0
85	17-6	9-6	4-4	4-4	3200	0
90	15-9	10-11	3-8	4-6	2950	0
100	26-9	12-2	3-5	5-6	8000	0
105	17-2	11-11	4-2	5-0	3900	0
110	28-1	11-0	4-0	4-0	6200	0
125	27-11	11-9	3-8	5-6	8500	0
135	27-9	11-8	3-8	5-6	8400	0
140	25-9	12-5	3-9	5-8	6600	0
145	34-4	12-4	3-3	5-6	8860	0
150	25-10	12-0	3-7	5-7	6800	0
160	19-0	10-0	3-6	3-6	3500	0
162	22-0	9-6	3-10	3-10	3698	0
176	23-9	11-9	3-6	5-7	6600	0
180	23-9	11-9	3-6	5-7	6600	0
184	40-0	6-0	4-2	4-2	5200	0
189	29-10	13-11	3-1	6-1	6800	0
190	30-0	14-0	3-1	6-0	7130	0
200	31-0	12-0	3-2	5-5	9000	0
210	27-10	11-11	3-6	6-0	8000	0
220	23-3	10-11	3-8	5-2	5100	0
221	26-0	12-0	0-6	2-0	2544	0
222	25-1	11-8	3-1	5-7	6940	0
225	32-10	13-9	3-6	5-10	10300	0
270	26-0	10-0	4-0	4-0	5485	0
285	39-1	16-2	3-0	6-0	14690	0
300	22-4	12-1	3-9	3-9	5025	0
351	33-1	14-1	3-9	5-0	11500	0
373	45-0	16-0	3-6	8-0	17944	I
374	45-0	16-0	3-6	6-4	15966	0
375	29-8	13-10	3-7	5-5	9500	0
376	45-0	16-0	3-6	6-4	18000	0
377	45-0	16-0	3-6	8-0	20000	I
378	28-4	15-10	3-6	5-7	10000	0
379	28-4	15-10	3-6	5-7	7120	0
380	37-4	16-0	3-6	6-4	13700	0
381	20-9	12-0	3-8	4-11	4000	0
382	25-8	12-1	3-8	4-11	5000	0
384	37-4	16-0	3-6	6-6	11300	0
385	28-4	15-10	3-6	5-7	7393	0
390	28-0	12-0	4-3	4-3	6400	0
393	27-2	14-0	3-9	5-9	10000	0

			DEPTH (ft-in)			
MODEL	LENGTH (ft-in)	WIDTH (ft-in)	SHALLOW END	DEEP END	VOLUME (gal)	DIVING TYPE
394	27-1	13-10	4-3	4-3	6400	0
395	36-0	16-0	4-9	4-9	13800	0
400	32-6	14-0	3-0	5-6	11500	0
425	27-11	15-11	3-3	5-1	11300	0
444	14-0	16-0	3-3	3-3	1600	0
450	32-6	14-0	3-0	8-0	14000	0
490	32-10	13-9	3-6	8-0	13700	0
520	28-0	14-10	3-6	5-4	9500	0
522	27-10	13-11	3-7	5-5	8300	0
526	32-7	15-2	5-7	5-7	10000	0
530	39-8	15-8	3-6	5-4	14050	0
540	42-4	16-1	3-3	7-11	20500	I
550	39-8	16-0	3-6	7-11	17950	I
575	39-10	16-1	3-3	7-11	20500	I
576	31-10	15-11	3-8	5-8	12000	0
577	33-10	15-11	3-8	7-10	17500	I
578	44-7	15-11	3-8	6-4	19000	0
580	44-7	15-11	3-8	7-10	22000	I
590	40-6	16-2	3-8	6-4	20600	0
591	45-0	16-0	3-6	6-0	20300	0
594	42-2	16-2	3-0	6-4	14600	0
595	37-0	16-0	3-8	6-4	14500	0
596	30-0	16-0	3-8	6-4	12000	0
597	26-0	16-0	3-8	6-0	10000	0
600	16-6	12-0	3-11	3-11	4900	0
650	16-6	12-0	5-0	5-0	5200	0
675	14-0	8-0	3-6	3-6	2750	0
676	14-0	8-0	3-6	3-6	1884	0
700	20-0	12-0	3-10	3-10	5600	0
724	24-0	16-0	4-9	4-9	5200	0
725	36-2	16-0	4-8	4-8	8800	0
726	27-10	14-1	4-2	5-0	9560	0
727	17-4	15-10	3-7	5-2	4650	0
728	17-4	13-8	3-7	5-2	4350	0
729	18-11	11-11	3-7	5-0	3300	0
730	15-6	10-10	3-9	3-9	2100	0
734	18-2	11-0	3-9	3-9	2050	0
740	20-0	13-7	3-5	3-5	3550	0
741	15-8	14-6	2-9	2-9	1970	0
746	9-0	9-0	4-0	4-0	700	0
747	10-0	10-0	3-10	3-10	880	0
750	23-0	8-6	4-9	4-9	4240	0
751	17-0	8-6	4-9	4-9	3400	0
775	40-0	8-6	4-9	4-9	8500	0
776	34-0	8-6	4-9	4-9	6800	0
800	33-9	16-0	3-4	5-8	11400	0
801	35-10	15-11	3-4	5-8	12750	0
840	34-1	16-2	3-6	5-5	13500	0
850	33-1	15-7	3-8	5-9	10400	0
851	33-1	15-7	3-8	8-0	11300	0

			DEPTH (ft-in)			
MODEL	LENGTH (ft-in)	WIDTH (ft-in)	SHALLOW END	DEEP END	VOLUME (gal)	DIVING TYPE
870	29-0	12-10	3-6	6-0	10000	0
875	39-11	16-2	3-2	5-5	14590	0
900	39-7	15-11	3-3	5-1	14400	0
925	28-0	12-0	3-10	3-10	6750	0
926	19-6	12-8	4-0	4-0	5200	0
947	10-8	8-4	3-2	3-2	393	0
10K	10-3	7-0	3-2	3-2	700	0
10KL	10-6	8-3	3-5	3-5	750	0
10KL	10-3	7-0	2-10	3-2	700	0
12K	12-0	8-0	3-2	3-2	780	0
6OCT	6-10	6-10	3-0	3-0	350	0
6SQ	6-1	6-1	2-11	2-11	300	0
7SQ	7-1	6-11	3-3	3-3	550	0
8DIA	8-0	8-0	2-11	2-11	450	0
8OCT	8-0	8-0	3-2	3-2	550	0
8RD	8-0	8-0	3-0	3-0	500	0
9RD	8-10	8-10	3-7	3-7	755	0
9SQ	6-11	7-1	3-3	3-3	550	0
P10	23-9	12-3	3-9	5-11	6000	0
P20	25-0	12-0	3-6	6-0	8500	0
P21	25-0	12-0	3-6	6-0	8500	0
P22	30-0	12-0	6-0	6-0	7271	0
P23	30-0	16-0	6-1	6-1	10789	0
P24	30-0	16-0	3-6	6-0	11289	0
P25	30-0	12-0	3-6	6-0	7887	0
P26	37-0	16-0	3-6	6-0	14375	0
P27	37-0	16-0	3-6	6-0	14697	0
P30	23-5	11-11	2-9	4-9	6800	0
SHELF 1	12-0	8-3	1-0	1-0	100	0
SHELF 3	7-7	11-7	1-0	1-0	150	0
BAJA1	15-0	9-0	3-9	3-9	1360	0

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 gallon = 3.785 L