



TEST REPORT

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Report Number: 2505-20008 **Project No.:** 33900

Report Issued: April 22, 2020

Client: Daldorado, LLC **Contact:** Robert Lawson
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Source of Samples: The samples were shipped to IAPMO R&T Lab by Daldorado and was received in good condition on December 23, 2019.

Date of Testing: December 23, 2019 through January 30, 2019. Test Report was revised from Test Report No. 2505-20007 to include additional models without testing.

Sample Description: Suction Fitting Outlet Assembly (SOFA) for use in swimming pools
See page no. 2 for complete SOFA series list.
Refer to figures for test configurations.
SOFA insulating material is Axiall Type 7140.

Scope of Testing: The purpose of the testing was to determine if the tested sample of the SOFA met the requirements ANSI/APSP/ICC-16-2017 entitled, "Suction Outlet Assemblies (SOFA) for use in Pools, Spas, and Hot Tubs."

CONCLUSION: **The samples tested of the SOFA models listed above from Daldorado, LLC COMPLIED with ANSI/APSP/ICC-16-2017 entitled, "Suction Outlet Assemblies (SOFA) for use in Pools, Spas, and Hot Tubs."**

Tested By,

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Reviewed By,

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Primary Standard: APSP 16-2017

SOFA Series -

SOFA No.	Model	P/N / Component Type	Intended Application	Material Mfg/ Type	Flow Rating	Test Sections	Comments
1.	DMD-FG-2424	DMD-GO-2424 (Grate) DFS-DalMAX-FG (Fasteners)	Concrete, Vinyl, Composite	Axiall Type 7140	825 gpm (floor position);825 gpm (wall position)	All except 4.7 (see test report no. 2505-18002, K = 1.16) 4.7 4.10	Installed in field built sump with 8" port, 15" to 16" flow path length from top of port to the top of the grate, tested in floor and wall position.
2.	DalMax-SG-242430	DalMAX-GO-2424 (Grate) DFS-DalMAX-SG (Fasteners) DalMAX-SO-242430 (sump)	Concrete, Vinyl, Composite	Axiall Type 7140	1734 gpm (floor position); 1600 gpm (wall position)	-	Testing represented by SOFA No. 3 based on engineering judgement.
3.	DalMax-FG-2424	DalMAX-GO-2424 (Grate) DFS-DalMAX-FG- (Fasteners)	Concrete, Vinyl, Composite	Axiall Type 7140	1734 gpm (floor position); 1600 gpm (wall position)	4.7 4.9 4.10 5 6 K = 1.16	Installed in field built sump with 10" port, 17" flow path length from top of port to the top of the grate, tested in floor and wall position. Other sections extended from test report no. 2505-18002 based on engineering judgment.
4.	DalMAX-FG-183625 (Revised)* DalMAX-FG-183624 (Previous)	DalMAX-GO-1818 (Grate) DFS-DalMAX-FG- (Fasteners)	Concrete, Vinyl, Composite	Axiall Type 7140	1984 gpm (floor position); 1440 gpm (wall position)	4.9 5 6 7	Installed in field built sump with 8" port, 15" to 16" flow path length from top of port to top of the grate, tested in floor and wall position. See test report no. 2505-18004.
5.	DalMAX-FG-183628	DalMAX-GO-1818 (Grate) DFS-DalMAX-FG- (Fasteners)	Concrete, Vinyl, Composite	Axiall Type 7140	2480 gpm (floor position); 1909 gpm (wall position)	4.9 5 6 7	Installed in field built sump with 10" port, flow path length > 16". Tested in floor and wall position. See test report no. 2505-18004.
6.	DalMAX-FG-183634	DalMAX-GO-1818 (Grate) DFS-DalMAX-FG- (Fasteners)	Concrete, Vinyl, Composite	Axiall Type 7140	2869 gpm (floor position); 2080 gpm (wall position)	-	Testing represented by SOFA No. 12 based on engineering judgement
7.	DalMAX-FG-185427 (Revised)* DalMAX-FG-185424 (Previous)	DalMAX-GO-1818 (Grate) DFS-DalMAX-FG- (Fasteners)	Concrete, Vinyl, Composite	Axiall Type 7140	2872 gpm (floor position); 2872 gpm (wall position)	4.9 5 6 7	Installed in field built sump with 10" port with flow path length < 16". Tested in floor and wall position. See test report no. 2505-19006.
8.	DalMAX-FG-185429 (Revised)* DalMAX-FG-185428 (Previous)	DalMAX-GO-1818 (Grate) DFS-DalMAX-FG- (Fasteners)	Concrete, Vinyl, Composite	Axiall Type 7140	2944 gpm (floor position); 2872 gpm (wall position)	4.9 5 6 7	Installed in field built sump with 12" port. 15" to 16" flow path length from top of port to the top of the grate, tested in floor and wall position. See test report no. 2505-19006.

9.	DalMAX-FG-185434	DalMAX-GO-1818 (Grate) DFS-DalMAX-FG- (Fasteners)	Concrete, Vinyl, Composite	Axiall Type 7140	4412 gpm (floor position)	-	Testing represented by SOFA No. 15 based on engineering judgement
10.	DalMAX-SG-183625 (Revised)* DalMAX-SG-185424 (Previous)	DalMAX-GO-1818 (Grate) DFS-DalMAX-SG (Fasteners) DalMAX-SO-183625 (sump)	Concrete, Vinyl, Composite	Axiall Type 7140	1984 gpm (floor position); 1440 gpm (wall position)	-	Testing represented by SOFA No. 4 based on engineering judgement
11.	DalMAX-SG-183628	DalMAX-GO-1818 (Grate) DFS-DalMAX-SG (Fasteners) DalMAX-SO-183628 (sump)	Concrete, Vinyl, Composite	Axiall Type 7140	2480 gpm (floor position); 1909 gpm (wall position)	-	Testing represented by SOFA No. 5 based on engineering judgement
12.	DalMAX-SG-183634	DalMAX-GO-1818 (Grate) DFS-DalMAX-SG (Fasteners) DalMAX-SO-183634 (sump)	Concrete, Vinyl, Composite	Axiall Type 7140	2869 gpm (floor position); 2080 gpm (wall position)	4.3 4.4 4.5 4.7 4.8 4.9 5 6 7 K = 1.16	Installed in manufactured sump with 12" port. Flow path length > 16 in. See test report no. 2505-18001.
13.	DalMAX-SG-185427 (Revised)* DalMAX-SG-185424 (Previous)	DalMAX-GO-1818 (Grate) DFS-DalMAX-SG (Fasteners) DalMAX-SO-185427 (sump)	Concrete, Vinyl, Composite	Axiall Type 7140	2872 gpm (floor position); 2872 gpm (wall position)	-	Testing represented by SOFA No. 7 based on engineering judgement
14.	DalMAX-SG-185429 (Revised)* DalMAX-SG-185428 (Previous)	DalMAX-GO-1818 (Grate) DFS-DalMAX-SG (Fasteners) DalMAX-SO-185429 (sump)	Concrete, Vinyl, Composite	Axiall Type 7140	2944 gpm (floor position); 2872 gpm (wall position)	-	Testing represented by SOFA No. 8 based on engineering judgement
15.	DalMAX-SG-185434	DalMAX-GO-1818 (Grate) DFS-DalMAX-SG (Fasteners) DalMAX-SO-185434 (sump)	Concrete, Vinyl, Composite	Axiall Type 7140	4412 gpm (floor position)	4.3 4.4 4.5 4.7 4.8 4.9 5 6 7 K = 1.16	Installed in manufactured sump with 14" port. Tested in floor position only. See test report no. 2505-18001.