LABORATORY TEST REPORT

Report # 99088
Lab Test Number: 3665-5751
Report Date: May 4, 2026

Construction Analysis

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CLIENT:

Company:	*Irrigation Express*
Address:	*13650 Vaughn St*
	San Fernando, CA 91340

TEST MATERIAL:

Date Material Received:	*April 22, 2026*
Material Type:	*Synthetic Turf*
Material Condition:	*Excellent, New*
Turf Identification:	*Toledo 80*

TEST METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following…			
Standard:	*ASTM D5848*	*Test Method:*	*Standard Test Method for Mass Per Unit Area of Pile Yarn Floorcoverings (Weights)*
Standard:	*ASTM D5823*	*Test Method:*	*Standard Test Method for Tuft Height of Pile Yarn Floorcoverings (Fiber Length)*
Standard:	*ASTM D1335*	*Test Method:*	*Standard Test Method for Tuft Bind Strength of Pile Yarn Floorcoverings (Tuft Lock)*
Standard:	*ASTM D5793*	*Test Method:*	*Standard Test Method for Binding Sites per Unit Length of Width of Pile Yarn Floorcoverings (Stitch & Gauge)*
Standard"	*ASTM D5823*	*Test Method:*	*Standard Test Method for Tuft Height of Pile Yarn Floorcoverings (Height)*

SAMPLING PLAN:

Sampling Date:	*04/22/2026*

- Specimen sampling is performed in the sampling department at TSI.
- The sampling size of specimens is determined by the test method requirements.
- In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager.
- All samples are subjected to the outside environmental conditions of temperature and relative humidity.
- Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested

DEVIATION FROM TEST METHOD:

State reason for any Deviation from, Additions to, or Exclusions from Test Method.
None

TEST SCOPE: *A finished synthetic turf identified above, was analyzed for the following construction properties:*

Mass Per Unit Area (Weights): This method determines the mass per unit area of the yarn used to produce the product or pile weight. The total weight includes all components that make up the product. The primary backing weight are the layers that comprise the tufting backing components. The secondary weight is the coating, normally urethane, that provides the backing of the product.
Pile Height: This method determines the length of the individual fiber strands measured from the base of the tuft to the tip of the tuft.
Stitch & Gauge: This method measures the number of binding sites per unit length or width of tufted pile yarn floorcoverings.
Tuft Bind: This method determines the force necessary to pull or break a tuft from it's backing.
Grab Tear: This method determines the tear strength of all of the components that make up the product

TEST SUMMARY:

TEST METHOD	*TEST DESCRIPTION*	*TEST RESULT*	*Date Tested:*
ASTM D5848-20	*Total Product Weight*	*81.53 oz/yd²*	*04/22/2026*
ASTM D5848-20	*Pile Weight*	*52.06 oz/yd²*	*04/22/2026*
ASTM D5848-20	*Primary Backing Weight*	*7.42 oz/yd²*	*04/22/2026*
ASTM D5848-20	*Secondary Backing Weight*	*22.05 oz/yd²*	*04/22/2026*
ASTM D5823-19	*Pile Height*	*1.75"*	*04/22/2026*
ASTM D5793	*Stitch Count*	*5.00 SPI*	*04/22/2026*
ASTM D5793	*Gauge*	*3/8"*	*04/22/2026*
ASTM D1335-21	*Average Tuft Bind Strength*	*10.8 lbs/force*	*04/22/2026*

Notes:
We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information to us using the latest test methods available.
TSI can only ensure the test results for the specific items tested. Unless otherwise noted in the deviations sections of this report, all tests are performed in compliance with stated test method.

Test Report Approval:

Digitally signed by Erle Miles
DN: cn=Erle Miles, o=Testing Services LLC, ou, email=erle@testingservices.us, c=US
Date: 2026.05.05 11:12:15 -04'00'

Erle Miles, III, Lab Director Testing Services (TSI) LLC

TSi Accreditation: Our laboratory is accredited by the US Dept. of Commerce, National Institute of Standards and Technology: ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0.
TSi is an Organizational Member of ASTM (American Society for Testing and Materials). TSi is a certified independent testing laboratory by the STC (Synthetic Turf Council).

Member of ISSS

NVLAP TESTING 100108-0

ASTM Organizational Member

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