



CLIENT: FenceTrac Fence Systems

11124 E Marshall Tulsa, OK 74116

Project No: MED-2058a Report Date: November 6, 2024

SAMPLE ID: Steel Privacy Fence with Composite Infill

SAMPLE DESCRIPTION: 6'-1" (73") by 6'-6" (78") high; See page 3 for full description.

SAMPLING DETAIL: The test sample manufactured by FenceTrac Fence Systems was submitted directly to

QAI by the client. Samples were not independently selected for testing.

DATE OF RECEIPT: Samples were received at the QAI Miami, Laboratories on April 22, 2024.

TESTING PERIOD: October 22, 2024, through October 25, 2024.

TESTING LOCATION: QAI Laboratories – Miami, Florida, USA

AUTHORIZATION: QAI proposal number 24AM03203 dated March 20, 2024, signed by Tony

Thompson Commercial Manager of FenceTrac Fence Systems, dated March 22,

2024.

TEST PROCEDURE: Testing to the following requirements:

 ASTM E330/E330M-14 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air

Pressure Difference

 ASTM E1886-02 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Missile(s) and Exposed to

Cyclic Pressure Differentials

TEST RESULTS: The Steel Privacy Fence with Composite Infill has **MET** Large missile impact

level D when evaluated to ASTM E1886 and +/- 55.0 psf when evaluated to

ASTM E330 (loads). Results are outlined within this report.

CONTENTS: Test report pages 1 through 5.

Prepared By Signed for and on behalf of

QAI Laboratories

Lucindo Dolgodo

Lusinda Delgado

Lusinda DelgadoJose SanchezTechnical Report WriterOperation Manager





Table of Contents	Page	Rev
Sample A-1		
Description of Test Sample	3	1
Additional Information	3	3
Test Sample Installation	3	
Results Sample A-1		
1/2 Structural Load Test Positive ASTM E330	3	
Design Load Test Positive ASTM E330	3	
1/2 Structural Load Test Negative ASTM E330	3	
Design Load Test Negative ASTM E330	3	
Uniform Structural Load Test Positive ASTM E330	4	
Uniform Structural Load Test Negative ASTM E330	4	
Large Missile Impact ASTM E1886	4	
Appendix A	4	
Appendix B	4	
Notes Table	5	
Revision Table	5	3

Technician: Gustavo Aquey





DESCRIPTION OF SAMPLE				
Model Designation:	Steel Privacy Fence with Composite Infill			
Overall Size:	6'-1" (73") by 6'-6" (78") high			
Configuration:	0			
Number of Panels:	One infill panel			
Size of Panel:	6'-0 1/2" (72") by 6'-0 1/2" (72 1/2") high			
Size of Boards in Panel:	6" wide by 6' long (12 each per panel)			
Sample A-1				

Additional Information

The infill panel consisted of twelve 1" by 6" by 6' long boards set in 2" by 6' galvanized steel channels at the left and right and 3" by 6' galvanized steel channels at the top and bottom. All corners where the vertical and horizontal channels meet was mechanically fastened using one 1/4-20 by 1 1/2" round square neck carriage bolt with one 1/4-20 by 1 1/2" hex head with nut located 6", 18 1/2", 29", 42 1/4", 54 1/4", and 66 1/4". Vertical channels were fastened to the 3" by 3" by 12: gauge posts using a No. 10 by 5/8" self-tapping screws located 6" from top and bottom of the infill panel and 12" on center.

Sample Installation

The vertical posts were set into a 6" diameter hole with a 4 1/2" embedment into a 4,000-psi concrete test slab using **Quickcrete.

Sample: A-1 Temperature: 80.0°F	Barometric Reading: 30.0 inches Hg	
Title of Test	Pressure	Notes
1/2 Structural Load Test Positive Load	41.3 psf	
	Results	Passed

Sample: A-1	Sample: A-1 Temperature: 80.0°F		Barometric Reading: 30.0 inches Hg		
Title of Test Pressure		Notes			
Design Load	d Test Positive Load	55.0 psf			
	See appendix A				
Reading#	Deflection	Permanent Set	Results	Add. Info	
1	4.250"	0.178"	Passed		

Sample: A-1 Temperature: 80.0°F		Barometric Reading: 30.0 inches Hg
Title of Test	Pressure	Notes
1/2 Structural Load Test Negative Load	41.3 psf	
	Results	Passed

Sample: A-1	mple: A-1 Temperature: 80.0°F		Barometric Reading: 30.0 inches Hg	
	Title of Test	Pressure	Notes	
Design Load Test Negative Load 55.0 psf		55.0 psf		
See appendix A				
Reading#	Deflection	Permanent Set	Results	Add. Info
1	4.250"	0.250"	Passed	

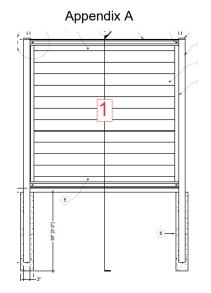


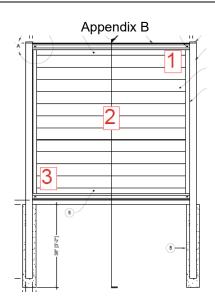


Sample: A-1 Temperature: 80.0°F		Barometric Reading: 30.0 inches Hg		
Т	itle of Test	Pressure	Notes	
Uniform Struc	tural Test Positive Load	82.5 psf		
See appendix A				
Reading#	Deflection	Permanent Set	Results	Add. Info
1	6.500"	0.281"	Passed	

Sample: A-1 Temperature: 80.0°F			Barometric	Reading: 30.0 inches Hg	
	Title of Test Pressure		Notes		
Uniform Structural Test Negative Load 82.5 psf					
See appendix A					
Reading#	Deflection	Perr	nanent Set	Results	Add. Info
1	7.000"	0.37	5"	Passed	

Sample: A-1	Temperature:	80.0°F	Barometric Reading: 30.0 inches Hg		
Title of Test		Notes			
Large Missile	e Impact Test				
Missile Wei	ght	Missile			
9.25 pounds		2" by 4" by 92"			
	See appendix B				
Impact	Speed	Results	Add. Info		
1	49.8 ft/sec	Passed			
2	49.8 ft/sec	Passed			
3	49.0 ft/sec	Passed			







Client: FenceTrac Fence System Test Report No.: MED-2058a Report Date: 11/6/2024

Page **5** of **5**

Notes

QAI does not have, nor does it intend to acquire or will acquire, a financial interest in any company manufacturing or distributing products tested or labeled by QAI. QAI is not owned, operated or controlled by any company manufacturing or distributing products it tests or labels.

Drawings referenced in this document are an integral part of this report, therefore, are required when distributing this test report. Test results obtained represent the actual value of the tested specimens and do not constitute opinion, endorsement or certification by this laboratory.

At conclusion of above tests, there was no apparent damage to sample, glass or fasteners. Test specimens were covered with 1.5 mil plastic sheeting to seal from air leakage when load test was performed, however this had no effect on above results.

REVISION HISTORY:

11/6/2024: Initial report release 12/3/2024: Corrected series name 12/10/2024: Corrected channel size

12/20/2024: Corrected typographical error under additional information

******END REPORT******