

# STRONGWELL®

## APPLICATION PROFILE



### FRP WITHSTANDS CORROSIVE ENVIRONMENT

In 2009, the city of Phoenix needed to install a walking surface at a lift station that houses a wet scrubber for foul air treatment. The station serves not only a senior living facility, but also the nearby Musical Instrument Museum. The museum is a 190,000 square foot facility that houses more than 10,000 collectibles related to music. Both the senior living facility and the museum are state-of-the-art.

The chosen solution was sold by Molded Fiber Glass and submitted by Jacobs Engineering, whose design incorporated 1.5" DURAGRATE® molded grating. Strongwell's DURAGRATE® has high resin content (65%) that will provide the station extended maintenance-free performance and the lightweight panels are also very easy to fabricate. All walking surfaces had EXTREN® beam substructure

Additionally, non-corrosive, light weight, and strong EXTREN® fiberglass profiles were selected for subsurface structural support. The design engineer, David Holman with DE Associates, the Sr. Resident Engineer, James Shane from Jacobs Engineering Group, and the city of Phoenix were all pleased with the results and performance of the FRP products. These photos, taken in 2011, show how DURAGRATE® and EXTREN® have withstood the corrosive environment in the last two years. ●

### TECHNICAL DATA

Product:	Walking Surface
Process:	Molded Fiberglass, Pultrusion, Fiberglass Fabrication
Materials:	EXTREN® fiberglass structural shapes DURAGRATE® fiberglass molded grating
Sizes:	6" x 3/8" EXTREN® 525 wide flange beam 1-1/2" square mesh DURAGRATE®
For:	Walking surface for Lift Station Phoenix, AZ
User:	Molded Fiber Glass and Jacobs Engineering



**STRONGWELL**  
Bristol Division  
400 Commonwealth Ave.  
Bristol, VA 24201-3820 USA  
(276) 645-8000, FAX (276) 645-8132  
www.strongwell.com

APPLICATION PROFILE **704**

LIFT STATION WALKING SURFACE