



## Diving in with Fiberglass

Located in Saskatchewan, Canada, the Shaw Centre serves as a community leisure facility adjoined by a public and private high school. As it is completely enclosed, the facility offers its community year-round access to competition level pools, aquatics areas, fitness rooms, and supplemental workout areas.

Recently, the steel handrail and baseplates in the diving deck area needed to be replaced with a more durable and corrosion resistant material. ICON Construction worked with the engineer of record to fulfill the design and specification guidelines as established by Part 4 of the National Building Code of Canada

The chosen solution was to replace the previous handrail with a standard square 2" SAFRAIL system with a specialized design consideration. Each post was slightly modified to include an additional square tube and plug addition.

To connect the multiple diving decks, an erected FRP structure with access ways and landings on multiple levels was also designed out of Strongwell's FRP. The supporting components of the structure were constructed out of EXTREN® Structural Shapes and Plate. For stair treads, DURAGRID® I-6000 pultruded grating panels were used with a 2" deep nosing to the leading edge to ensure additional slip resistance.

On each of the landings, T-1800 DURAGRID® pultruded grating panels were chosen due to span, weight, and open space guidelines. This particular series of T-shaped bar grating offers 18 percent open space while weighing only 2.6 lbs. per square foot.

All of the aforementioned FRP structures were mechanically fastened with Grade 2205 stainless steel anchors and fasteners.

The project was completed in August of 2020 and was met with positive reviews regarding construction, installation, aesthetics, and performance.

### TECHNICAL DATA

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|---------------------|---|
| Product:            | Shaw Center Dive Platform Process:<br>Pultrusion  |
| Materials<br>Sizes: | EXTREN® Structural Shapes: &<br>- channels and angles<br>DURAGRID® pultruded grating:<br>- I-6000 1-1/2" with medium grit epoxy SAFRAIL™<br>square handrail |
| For:                | Owner – City of Saskatoon<br>General Contractor: Carmont Construction Ltd.  |
| User:               | Shaw Center<br>Saskatoon, Saskatchewan, Canada  |
| Supplier:           | Strongwell<br>1610 Highway 52 South<br>Chatfield, MN 55923 USA (507)<br>867-3479<br>www.strongwell.com  |

