



Product Specifications:

A&S Products:	Double-Lok®, BattenLok® (lower building), CF Mesa
Location:	South Kingstown, R.I.
Color:	Signature® 300 Medium Bronze, Signature® 300 Almond
Square Footage:	29,000 sq. ft.
Architect:	Brewster Thornton Group Architects, Providence, R.I. S3 Design, Braintree, Mass.
Metal Supplier:	All Steel Structures, Warwick, R.I.
General Contractor:	Ahlborg Construction Corp., Warwick, R.I.

Case Study

The Town of South Kingstown Recreation Center

In 2014, the Town of South Kingstown, R.I., contracted with Brewster Thornton Group Architects (BTGA) of Providence, R.I. to design a new recreation center to host many of the town's social and recreational activities. The recreation center had been first proposed as a possible long-term town capital project in 2002. BTGA joined with S3 Design of Braintree, Mass., on the building's layout, All Steel Structures of Warwick, R.I. as the primary metal supplier and Ahlborg Construction Corp. of Warwick, R.I. as the project's general contractor. Together, the team made the proposed rec center a reality.

THE PROBLEM

South Kingstown's social and recreational activities had traditionally been held at the Neighborhood Guild, a 1908 stone mill building. By 2014, the mill building no longer met the spatial needs of the growing community of 28,000. A new, much larger building was needed, big enough to house a wide variety of sports and activities.

THE SOLUTION

Athletic building experts S3 Design met with concerned groups and then proposed a floor plan that provided maximum flexibility of space use. BTGA then utilized the floor plan to design the new recreation center using A&S Builder All Steel Structures as a primary metal product supplier. The project consisted of 19,200 sq. ft. of the Double-Lok® standing seam roof panel in Signature® 300 Medium Bronze, 15,300 sq. ft. of the BattenLok® standing seam roof panel in Signature® 300 Medium Bronze and 19,600 sq. ft. of the CF Mesa Metl-Span insulated metal panel in Signature® 300 Almond. The South Kingstown Recreation Center is comprised of two integrally-attached pre-engineered metal buildings. The smaller entry building is home to the recreation center's lobby, reception area, men's and women's restrooms, and three multi-purpose rooms for small-group activities. The larger rear building houses the multi-purpose gymnasium with bleachers, the men's and women's locker rooms and the building's mechanical and electrical rooms. The new recreation center has been hailed as a place that promotes community wellness and community recreation.

The decision to build the recreation center using pre-engineered metal buildings was influenced by several determinants. Firstly, the aesthetic properties of the metal panels created a strong horizontal plane which formed a striking contrast with the building's vertical window elements. The variety of different styles and colors available in the metal panels allowed for numerous design possibilities. Additionally, the structure of the pre-engineered buildings created wide open spaces, free from columns, which is ideal for a recreational facility. Another benefit was the low cost of construction; the 29,000 square foot building's total \$6.4 million cost was economical for this type of modern athletic facility. The ease of material maintenance was another factor of choosing to build with metal since the metal panels are finished with a fluoropolymer coating, making them practically impervious to air pollution, acid rain and airborne dirt. Lastly, pre-engineered metal buildings have a quicker turnaround time than other construction methods which equates to a shorter construction time and thus a drastic reduction in building costs.

The South Kingstown Recreation Center was completed in under 14 months and opened in June 2017. The town looks forward to using the recreation center as an essential resource of the community for many years to come.