



Rigby's Family Entertainment Complex

Warner Robins, GA
January 2012



Owner Steve Rigby contracted with Bryan Birdwell of Birdwell & Associates, Lakeland, FL, to construct a smooth and seamless floor for his new family fun center's roller-skating rink in Warner Robins, GA. Birdwell, a nationally acclaimed concrete contractor, has developed a state-of-the-art concrete floor system known as a FAST Floor System© - Flat DurAble VerSatile JointLess – which provided the perfect surface for the Rigby's Family Entertainment Complex project. Disenchanted by uneven surfaces and high repair and maintenance costs in previous rink experiences with wood and epoxy-coated floors, Rigby turned to concrete as a more durable and sustainable alternative. The FAST Floor© system is a unique combination of optimum materials and practice that allows for large joint-free panels and exceptional flatness, which were desirable for Rigby's roller-skating floor. After grading the Georgia-clay subgrade and installing a compacted aggregate base, Birdwell partnered with contractor Skene Concrete to place and finish the 4 in. thick 21,708 square foot oval rink slab on vapor barrier and slip-sheet membranes. One of the critical components of the system is the use of a relatively high dosage of synthetic macro fiber reinforcement to control cracking, maintain a more uniform moisture and temperature gradient throughout the fresh concrete, and reduce slab shrinkage and curling. On the Rigby project, Birdwell used 7.5 lbs/cu yd of the 2 ¼ in. FORTA-FERRO® macro fiber, which distributed very uniformly throughout the concrete and did not affect the high-gloss surface finish. The project resulted in a durable, highly reflective floor for the owner, as well as a world-record award for the Birdwell/Skene team – a 2012 Gold Plate Golden Trowel award for the highest flatness and levelness levels ever recorded for a laser-guided screed wide-bay small project application, recording Ff 123/FI 123 results for the 21,708 square foot floor.

Project Details:

Owner: Rigby's Family Entertainment Complex

Location: Warner Robins, GA

Architect: HMG Architecture, Centerville, GA

Concrete Contractors: Birdwell & Associates, Lakeland, FL (www.fastfloorsystem.com);
Skene Concrete, Cartersville, GA (www.skeneconcrete.com)

Ready-Mix Supplier: USA Ready Mix, Warner Robins, GA

Floor Details: 21,708 sq. ft. skating rink slab

Fiber: FORTA-FERRO® synthetic macro fiber, 2 ¼" long @ 7.5 lbs/cu yd

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Exterior Rigby's Family Fun Center



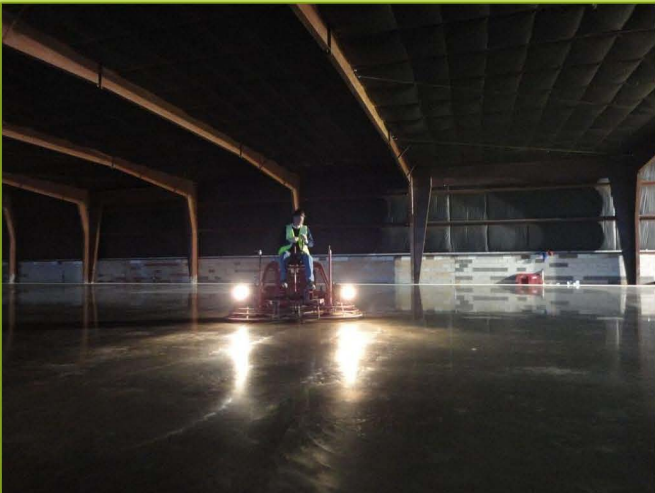
Optimized mix delivered by USA Ready Mix



Compacted base on Georgia clay



Georgia-buggy delivered onto vapor barrier and slip sheet



Floor finished to a high-reflective sheen



World-record flatness – Ff 123/FI 123



2012 Golden Trowel Awards – Paul Skene, Skene Concrete, Travis Sample and Bryan Birdwell, Birdwell & Associates