Roller Pave Roller - Compacted Concrete Group
E&B Area Office: Indianapolis
Owner: Nanshan America, Advanced Aluminum Technologies
General Contractor: Shiel Sexton
Paving Contractor: E&B Paving
Supplier: IMI Concrete

Project Overview and Implementation
Overview
This case study demonstrates many of the product benefits of imix® Roller Pave roller-compacted concrete (RCC), as well as highlighting that this application was the first dual-lift paving project in Indiana to utilize two high-density pavers. It was also the first time Roller Pave RCC has been installed as a floor inside a building.

IMI Concrete, a division of Irving Materials, Inc., produces imix Roller Pave, a commercial grade RCC pavement mix designed to withstand the weight of large trucks and manufacturing/agricultural equipment. A sustainable and highly cost effective pavement material option, imix Roller Pave offers superior freeze/thaw resistance, strengths exceeding conventional concrete, superior life cycle costs and lower maintenance expenses.

You can learn more about Roller Pave RCC by visiting: http://www.ebpaving.com/site/solutions/roller_compacted_concrete/

Implementation
This large-scale installation at the Nanshan America Advanced Aluminum Technologies facility in Wea, Ind., near Lafayette, was a design-build project that began during the summer of 2011 when Irving Materials, Inc. made a presentation to general contractor Shiel Sexton about Roller Pave RCC’s many advantages for this type of heavy-duty application, particularly its cost effectiveness, durability, strength properties and fast installation.

After being awarded the job, E&B created a phased schedule to accommodate the 2011-12 construction seasons. Working closely with Shiel Sexton, we placed 20,135 square yards of 7-inch pavement in a single-lift operation, and 26,875 square yards of 13.5-inch pavement in a dual-lift operation that required one paver to place the bottom lift and another following immediately behind to place the top lift.