

## PAVAMAX®

## **ENDURANCE • STRENGTH • EFFICIENCY**

A value engineered pavement solution based on Roller Compacted Concrete technology Pavamax<sup>®</sup> is a comprehensive Lafarge Industrial Pavement Solution.



New state-of-the art transportation hub for Maritime Ontario Freight Lines in Moncton, New Brunswick. *"A unique feature of the new terminals is a roller compacted concrete yard, which is stronger than asphalt"... Doug Munro, President Maritime Ontario Freight Lines.* 

Lafarge's Pavamax<sup>®</sup> RCC solution is a concrete pavement that is supported by all of the durability, strength and longevity of conventional concrete and further intensified with the simplicity, speed of placement and economics of asphalt pavements.



- RCC as a pavement solution in North America was first implemented in the 1970s delivering an economical alternative pavement solution capable of withstanding high volume traffic patterns and continuous heavy loading while maintaining a virtually indestructible composure even under freeze – thaw conditions.
- RCC is a true zero-slump dry mix concrete that is placed with a specialized high density paver equipped with a high compaction screed and dual tamping bars and it is further compacted using vibratory rollers.

## **PAVAMAX®** Applications / Uses

RCC is utilized when endurance, strength and efficiency are of primary concern in a pavement solution. Applications of RCC include but are not limited to:

- Industrial Parking Areas
- Intermodal Yards
- Warehouse Facilities
- Heavy Equipment Manufacturing
- Institutional Parking Lots
- Waste Management Facilities
- Log Sorting Yards
- Saw Mill Facilities
- Chip Storage Facilities
- Highway Shoulders

- Trucking Facilities
- Ports
- Recycling Facilities
- Transit Stations/ Bus Terminals
- Composting Facilities
- Auto Manufacturing Facilities
- Military Facilities
- Industrial Access Roads
- Snow Dumps/Disposal Areas
- Mining Operations



**DURABLE:** RCC has an extremely long service life requiring minimal maintenance. The superior strength and durability of RCC pavements eliminate the common costly issues frequently associated with asphalt pavement.

The high performance properties of RCC:

- Eliminate rutting, shoving and potholes
- Withstand heavy concentrated loading
- Resist deterioration from fuels spills and hydraulic leaks
- · Is immune to hot and cold weather extremes

**ECONOMICAL**: With low initial costs, long service and minimal maintenance RCC demonstrates economy and added value. Economy is a result of high volume and high speed construction methods. The strong durable rigid pavement require little maintenance over the design life resulting in added value from annual maintenance related costs associated with asphalt pavements. Additional costs savings are achieved through a reduction in maintenance related business interruptions and customer inconvenience.

**SUSTAINABLE**: The overall RCC pavement structure requires substantially less granular material when compared to equivalent asphalt designs. This results in a reduction in excavation of material at the paving site and a substantial reduction in the consumption of natural resources. Additionally RCC pavements mitigate urban "heat island" effects, reduce pavement lighting requirements and foster environmental compliance.

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