

# New Airport in Mexico City

## MEXICO CITY, MEXICO

CTLGroup was retained to conduct a review of the exposure conditions, project specifications, conduct laboratory testing of concrete resistance to chloride ion penetration, water permeability, crack self-healing, and carbonation resistance of various concrete mixtures for foundations slab placements. Services conducted consisted of qualification of concrete mixtures based on performance specification requirements for various ready-mix concrete producers.

We evaluated durability performance requirements to determine the concrete resistance due to degradation, constructability characteristics (cracking, and crack-healing), environmental considerations, and provide technical consulting services related to durability and service life.

Various clients wanted to evaluate and qualify concrete mixtures to be used in the project by our laboratory and to compare different mixture proportions in order to meet the project specifications regarding chloride ingress in concrete and prevent reinforcement corrosion.

CTLGroup also performed NT Build 492 and ASTM C1556 on hardened concrete samples for the New International Airport in Mexico City (NAICM) foundation. In addition, CTLGroup tested the water permeability resistance of concrete was evaluated in accordance with EN 12390-8 with modifications to increase pressure of 150 psi and test duration of 96 hours.

### Client

Azul Concretos Y Premezclados  
Concretos Moctezuma  
LaFarge Holcim Mexico

### Services

Laboratory Evaluation  
Concrete Durability

### Project Team

Jose Pacheco | *Project Manager, Principal-In-Charge, Associate*

### Reference

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### Completion Date

Ongoing

