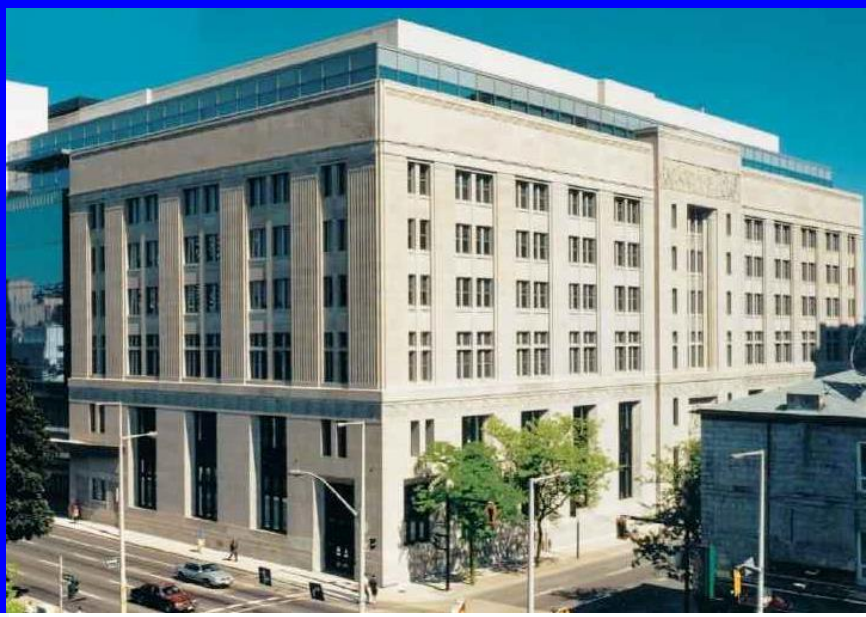
CINTEC
REINFORCEMENT SYSTEMS

Case Study

# Re-attaching a stone façade:

# John Sopinka Courthouse

Hamilton, ON



**Project Highlights**
Built in 1935

**The outcome:**
Restoration of the stone façade

**Completion date:** 2021

**Over 700 Cintec anchors installed***
*Testing results available upon request

Architect: a+LiNK Architecture
Contractor: Phoenix Restoration



Originally constructed in 1935, the courthouse was built on the site of a previous post office. That earlier structure was mostly demolished to make way for a new facility that could house customs, marine, agriculture, immigration, and tax offices; expanding Hamilton's public infrastructure. In September 1936, the $1.6 million Dominion Public Building officially opened to the public. Today, this building is known as the **John Sopinka Courthouse**.

The stone façade required urgent restoration. The original ties had deteriorated or failed, and extensive repairs were needed to **reattach five stories of stone** on the building envelope; including original masonry elements and a metal canopy.

The Cintec Reinforcement System was used to re-attach the stone to the diverse brick and/or speed tile (structural terra cotta) back-up wall. **The Cintec anchors provided both adhesive and mechanical attachment**, enabling progressive failure modes and avoiding brittle fracture. Their inherent **fireproofing capability** was another key advantage. The back up wall capacity was of concern as well. **Extensive testing was conducted and proven successful.**



Due to the **bulbing effect** of the Cintec anchors (mechanical attachement), the system was able to distribute forces over larger surface areas. **As a result, even fragile backup walls could safely withstand the necessary loads, including wind pressures.**