

PROJECT SOLUTIONS

Project: York Administration Center
Application: Cooling Towers / Outdoor Equipment

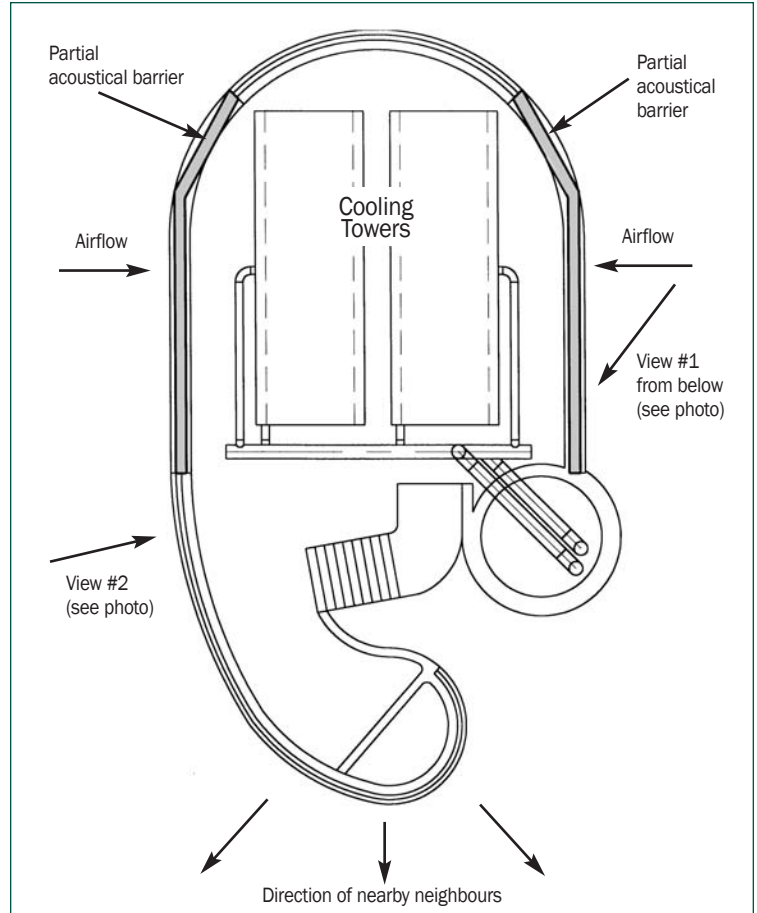
Retrofit partial acoustical louver barrier solves neighbourhood noise problem.

PROBLEMS: Environmental noise
 Insufficient duct length
 Excessive pressure drop

Two cooling towers on the roof of an office building radiated excessive noise to homes nearby. The brick wall partial barrier helped reduce the noise, but not enough. A solid barrier in front of the dominant noise source (air intakes) would cause excessive pressure drop and short circuiting of exhaust to the intake. There was insufficient length in front of the intakes for low pressure drop silencers.

SOLUTION: Acoustical louver barrier

Line of sight from the cooling tower intakes to the homes nearby was blocked by partial acoustical louver barriers on each side of the towers.



Plan View



View #1: Looking up through the acoustical louver air passage.



View #2: Acoustical louvers block cooling tower air intake's line of sight.