



GALLERIA London

The rapidly developing city of London, Ontario is now home to the largest mall in southwestern Ontario. Campeau Corporation's \$230 million Galleria London shopping centre sits in the centre of London.

Cast-in-place reinforced concrete played a major role in meeting the tight schedule to

ensure an August 1989 opening — in time for the Christmas rush.

The project consists of 60 840 square metres of retail space on two levels, six cinemas and a parking garage to accommodate 1525 cars.

The project involved some impressive numbers. Over 90 000 square metres of

formwork was built to support over 37 000 cubic metres of concrete which encased some 3 750 tonnes of reinforcing steel, of which, 550 tonnes were epoxy coated.

Built into the reinforced concrete design is the ability of the structure to accommodate future expansion. This will

consist of a third retail level and an office tower.

Owner: Campeau Corporation

Contractor: Ellis Don Ltd.

Architect: Crang & Roake Inc.

Engineer: Jablonski Associates



DO PLASTIC FIBERS REPLACE WIRE MESH IN A SLAB ON GRADE?

The answer to the question has to be no. The mesh is used to allow wider joint spacing than used in plain concrete. Formulas are advanced in Portland Cement Association literature and American Concrete Institute guidelines for the use of wire mesh in pavements or floors.

The cross-sectional area of wire mesh required is based on a specific joint spacing, thickness of slab, subgrade friction, and quality of steel. These conditions are currently not met by plastic fiber reinforced concrete. Plastic-fiber reinforcement has its own useful purposes. However,

when wire mesh is engineered and properly placed for a joint spacing greater than that recommended for plain concrete, plastic fibers should not be expected to replace wire mesh in a slab on grade.

This is an excerpt from article by Eugene O. Goeb, P.E., Concrete Consultant, that appeared in March 1989 issue of Concrete Products Magazine.

Recent research on concrete containing Polypropylene Fibres is available in the enclosed brochure produced by the Wire Reinforcement Institute (WRI).