

SCHOKBETON

QUEBEC INC

THE EXTRA-LONG S-P-A-N™
PERFORMANCE



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THE OPTIMAL SOLUTION
FOR ALL YOUR PROJECTS

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QUEBEC INC

THE EXTRA-LONG S-P-A-N™ PERFORMANCE

Precast / prestressed concrete elements designed to meet modern construction requirements. Durability, strength, construction quality and performance are only a few characteristics of the **SCHOKBETON** floor and roof Extra Long S-p-a-n system.

Our new high-tech plant with 1,700 square metre (19,000 square foot) daily output capacity provides a highly controlled environment and ensures product quality.

SCHOKBETON Extra Long S-p-a-n hollow core slabs are manufactured by extrusion of low-slump concrete.

Prestressed steel cables along with continued cores allow for free spans of up to 14 metres (46 feet).

Hollow core slabs are lighter in weight and can support greater loads than conventional poured-in-place floor / roof systems.

With a standard extruded width of 1220 mm (48 in.), Extra Long S-p-a-n slabs are available in four different thicknesses, ranging from 150 mm (6 in.) up to 300 mm (12 in.), according to structural requirements.

Used in all types of building and construction applications, hollow core slabs can be installed on conventional concrete, masonry or steel structures.



St-Bernard College, Drummondville



Finished ceiling

Drilling



ndville

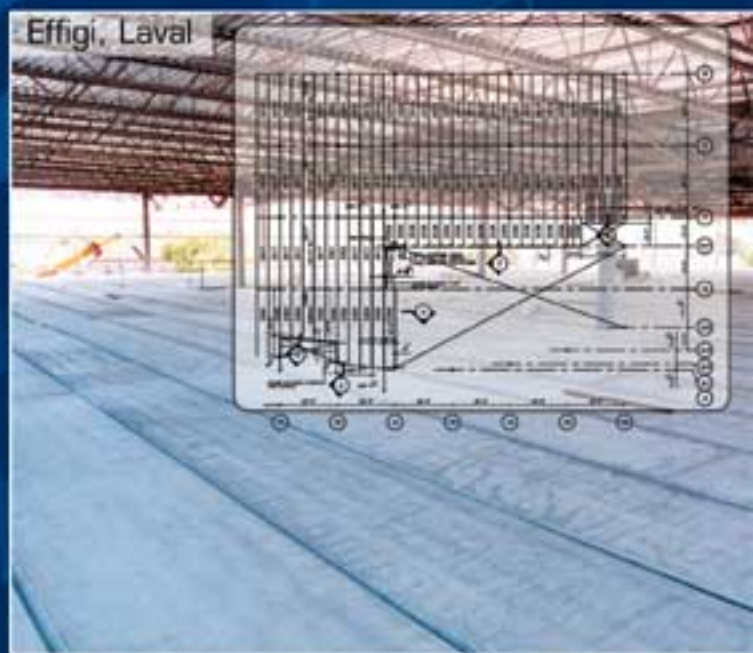
Factory cuts are performed to accommodate a range of project geometries and major apertures. All conventional mechanical drilling under 250 mm (10 in.) is easily performed on site.

SCHOKBETON's specialized erection crew performs installations from precise shop drawings. Slabs are positioned like paving blocks, then adjusted and connected to the structure with adapted anchors.

By applying mortar to key joints, a monolithic effect is created while insuring vertical and horizontal load transfer (diaphragm effect).

Once connected, slab surfaces are ready for feathering (auto-levelling) or application of topping material, according to project specifications. Slab undersides may be finished with textured paint (rough-finish paint).

Economy, performance, and positive return on investment are achieved by: rapid, year-round installation; fewer structural support elements; a reduction in overall construction height; minimum two-hour fire resistance; the option to use the underside as a finished ceiling; use of cores as electrical and mechanical pathways; and other advantages dependent upon project specifications.



SCHOKBETON offers its project partners technical support during the planning, design and estimate phases, quality materials with on-time delivery, and the services of installation / finishing specialists, all aimed at making every project a success.

Prefabrication from
SCHOKBETON,
a perfect fit.

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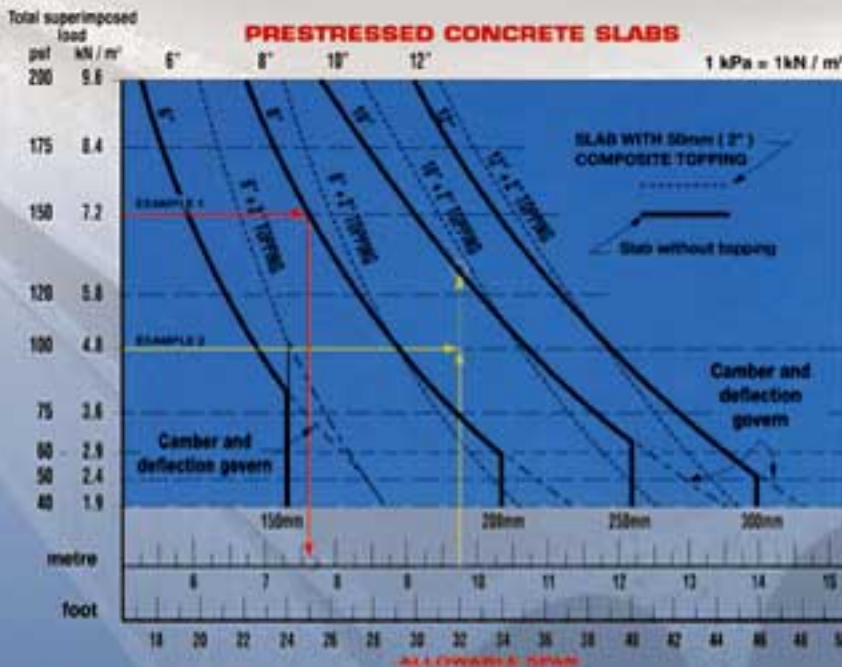
THE PRECAST / PRESTRESSED CONCRETE FLOOR AND ROOF SYSTEM

Precasting combined with prestressing provide numerous advantages, including:

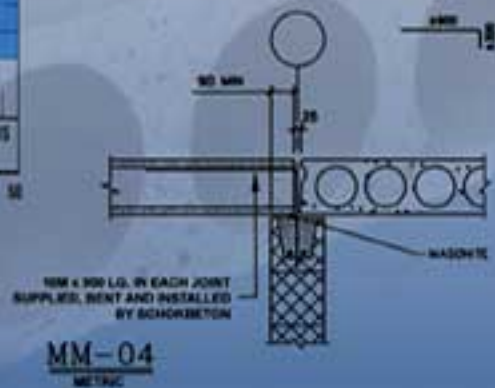
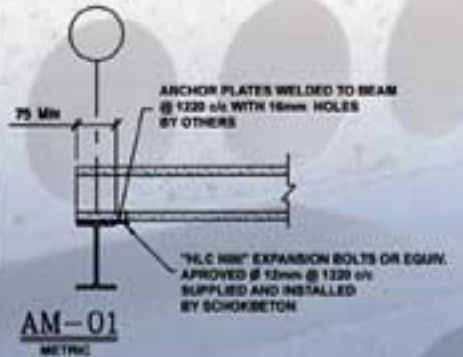
- controlled on time manufacturing and delivery.
- capability of spans up to 14 metres (46 feet).
- reduction of overall construction height.
- two-hour fire resistance for slabs.
- immediate use of surface for work or shelter.
- year round rapid installation.
- use of slab undersides as a finished ceiling.

Architects, engineers and contractors opt for SCHOKBETON's precast / prestressed concrete floor and roof system – the only one offering all the features they require.

The key to success, performance, savings and profitability of a precast / prestressed slab system reside in the planning undertaken during the conception and design stages.



DETAILS



DESIGN CRITERIA

- CSA CAN3-A23.3
- Limit on immediate deflection due to the live load : 1 / 360
- Limit on the long-time deflection due to prestress and all sustained loads : 1 / 240
- Concrete topping : 25 MPa

EXAMPLE 1

- Total superimposed load = 7.2 kN / m² (150 psf)
- 200mm (8") slab without topping.
- Maximum span 7.6 m (25' - 0")

EXAMPLE 2

- Total superimposed load = 4.8 kN / m² (100 psf)
- Span : 9.75m (32' - 0")
- 250mm (10") slab required (with or without topping)

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