



## BXUVC.J900 Fire-resistance Ratings

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### Fire-resistance Ratings

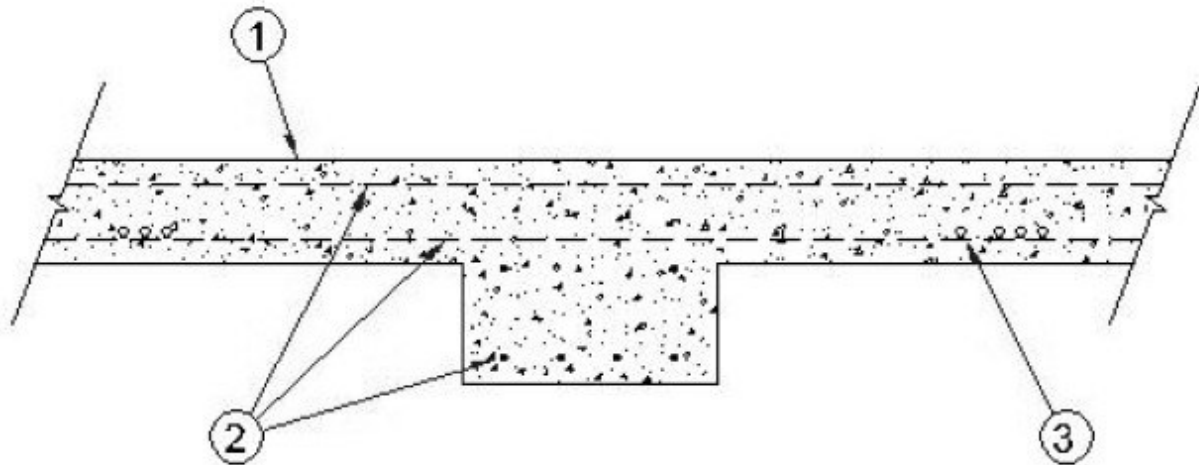
[See General Information for Fire-resistance Ratings](#)

## Design No. J900

January 30, 2013

**Restrained Assembly Rating — 2 h**

**Unrestrained Assembly Rating — 1-1/2 and 2 h (See Item 1)**



1. **Normal Weight Reinforced Concrete** — Reinforced slab and beam designed in accordance with the current edition of CSA A23.3, Design of Concrete Structures. Carbonate aggregate, minimum compressive strength of 25 MPa. Minimum slab thickness and reinforcement cover specified in the table below:

Restrained Assembly Rating, h	Unrestrained Assembly Rating, h	Min Total Slab Thickness, mm	Min Concrete Cover for Positive Reinforcement, mm
2	1-1/2	150	25
2	2	150	38

2. **Steel Reinforcement** — Various sized Grade 280 and Grade 420 deformed steel bars located as required by CSA A23.3 for positive and negative reinforcement. Minimum concrete cover for positive reinforcement as described in Item 1.

3. **Non-Metallic Plumbing Components (CEYDC)** — Nominal 12.7 mm through 50.8 mm O.D. tubing, evenly distributed and tied to the top side of the positive reinforcing bars. The tubing may be placed inside a flexible or rigid polyethylene or rigid PVC sleeve. The tubing may penetrate the floor slab through a sill plate and into a stud cavity of a wall as necessary. Tube bends may be supported by suitably sized PVC elbows. The maximum amount of tubing shall be as specified in the table below:

Restrained Assembly Rating, h	Unrestrained Assembly Rating, h	Max. volume of tube per cubic metre of concrete, %
2	1-1/2 or 2	0.925

**BOW PLASTICS LTD** — Types SuperPex, Oxypex, Bow CPVC FlowGuard Gold, Bow Superflo CPVC

**HEATLINK GROUP INC** — Types Purelink PEXa, Heatlink PEXa, Purelink Plus

**IPEX INC** — Type CPVC AquaRise

**REHAU CONSTRUCTION L L C** — Types RaupeX Non-barrier PE-Xa, RaupeX O2-barrier PE-Xa, RaupeX UV-Shield PE-Xa, MUNICIPEX

**VANGUARD PIPE & FITTINGS LTD** — Types Vanex, CanPLUMB, CanPEX, CanFLEX, Vanex Plus, Vanex BPEX, Vanex Barrier, CanRAY, Vanex/ViegaPex Ultra, Canpex UV Plus and Canpex UV+

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