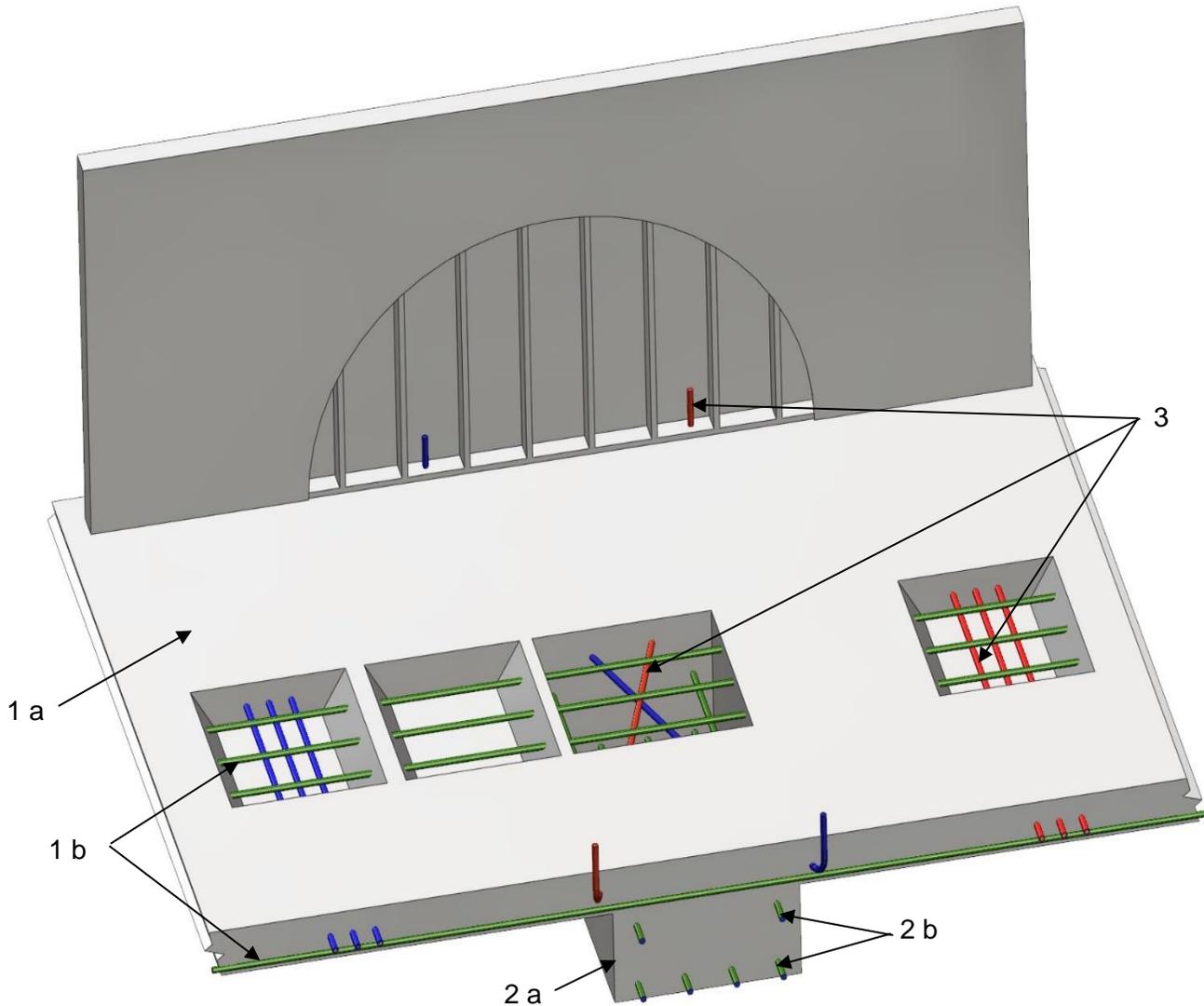


QAI Listing P343-1D Reliance Worldwide Corporation (dba Cash Acme)
Load-Bearing¹ Concrete Floor/Ceiling Assembly
ASTM E119, CAN/ULC S101, UL 263
2 Hour Fire-Resistance Rated Restrained and Unrestrained



No.	ITEM	DESCRIPTION	
1a	Concrete Floor Slab	Type:	150 lbs/ft ³ (2500 kg/m ³) density normal weight concrete.
		Specifications:	3500 psi (24 MPa) compressive strength at 28 days.
		Minimum Thickness:	6 in. (150 mm).
		Installation Description:	Design and installation to be in accordance with the applicable codes.
1b	Concrete Slab Reinforcing	Type:	Steel reinforcing (rebar).
		Specifications:	Minimum Grade 40
		Minimum Size:	15M (16 mm) diameter.
		Installation Description:	Placement and sizing to be in accordance with Engineering Design following CSA A23.3 or ACI 318. Concrete to be of minimum 1-1/2 inch (38 mm) depth covering the steel reinforcing members.
2a	Concrete Beam	Type:	150 lbs/ft ³ (2500 kg/m ³) density normal weight concrete.
		Specifications:	3500 psi (24 MPa) compressive strength @ 28 days.
		Minimum Size:	17.5 inches wide (445 mm) x 8 inches (204 mm) depth under concrete floor slab (total thickness of 14 inches (356 mm) for beam).
		Installation Description:	Design and installation to be in accordance with the applicable codes for supporting floor loads. Minimum size of beam is to be maintained..
2b	Concrete Beam Reinforcing	Type:	Steel reinforcing.
		Specifications:	Minimum Grade 40
		Minimum Size:	15M (16 mm) diameter.
		Installation Description:	Placement and sizing to be in accordance with Engineering Design following CSA A23.3 or ACI 318. Concrete to be of minimum 1-1/2 inch (38 mm) depth covering the steel reinforcing members.
3	Non-Metallic Tubing	Product:	Cash Acme/SharkBite Type PEX-a and Type PEX-b PEX tubing and accessories.
		Manufacturer:	Reliance Worldwide Corporation dba Cash Acme
		Maximum Size:	Maximum 2 inch (51 mm) nominal diameter.
		Maximum Density:	0.97% (16.7 inches ³ piping and accessories allowed per 1 ft ³ concrete.
		Installation:	Piping and accessories can be installed in PVC conduits or polyethylene sleeves. Placement is to be over the steel reinforcing perpendicular to reinforcing direction. Tubes can penetrate the floor assembly through a sill plate into the stud cavity as necessary.

Note 1: Floor ceiling described above is fire-resistance rated for load-bearing at 100% design load, determined in accordance with CSA A23.3 and ACI 318 methods.

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