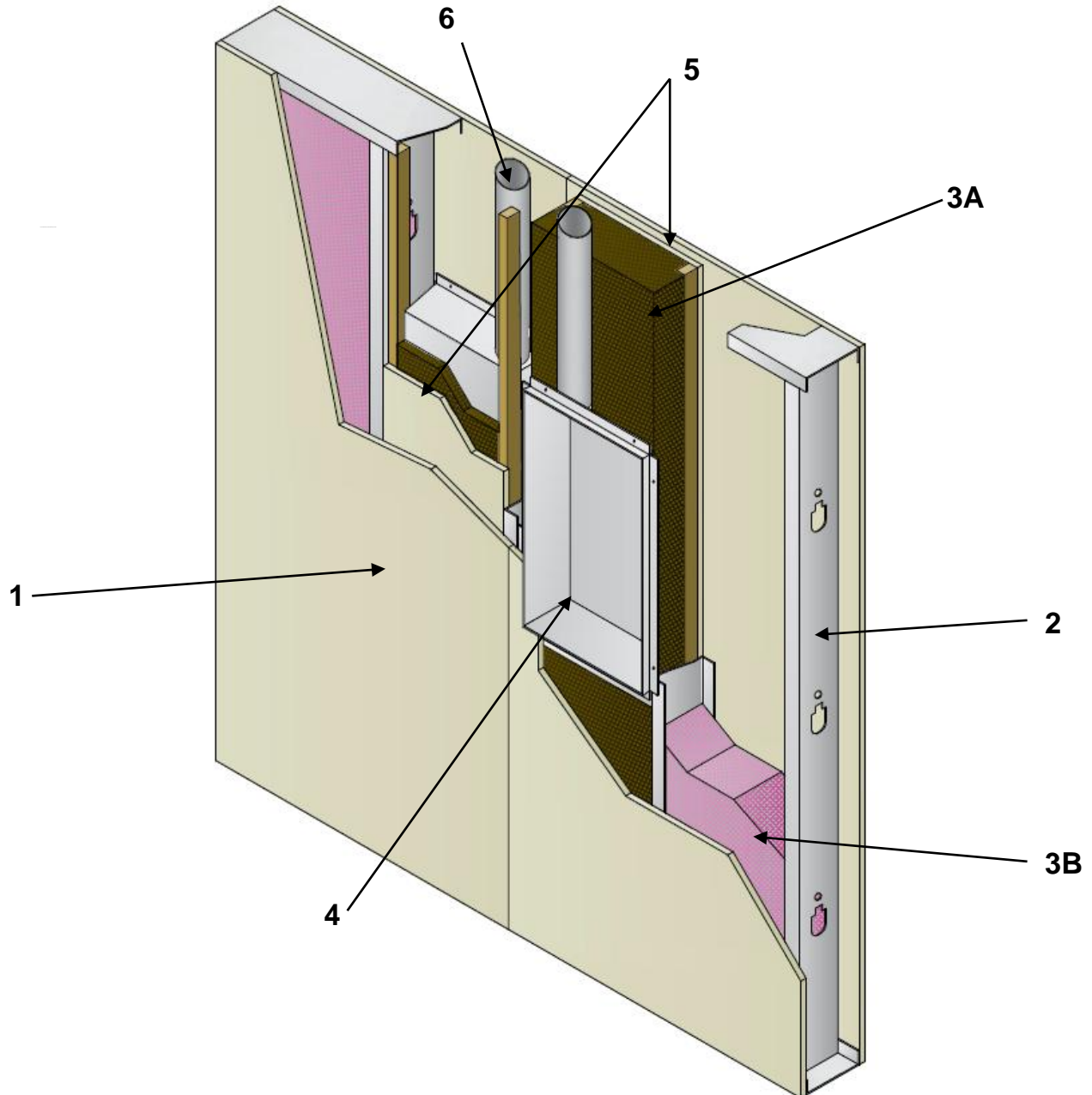




**QAI Design B1072-1G – Construction Solutions – Dryer Vent Box
CAN/ULC S115 / ASTM E814 – 1 Hour Membrane Penetration Assembly
Non-Load Bearing**



No.	COMPONENT	DESCRIPTION	
1	Gypsum Board Sheathing	Type:	Type X gypsum wallboard complying with ASTM C1396 and labeled by an approved agency.
		Thickness	Single layer of 5/8 in. (16 mm) on each face of the wall.
		Application	Sheathing is to be fastened to studs with #6 x 1-1/4 in. (32 mm) long self-drilling drywall screws spaced at 8 in. (203 mm) on center. Joints to be taped and mudded, and fastener heads to be mudded.

2	Wall Studs	Stud Type:	Minimum 1-1/4 x 6 in. (32 x 152 mm) steel.
		Gauge:	Minimum 25 Gauge.
		Stud Spacing:	Maximum 16 in. (406 mm) on center.
3A	Insulation (Dryer Vent Box Cavity)	Type:	Mineral wool thermal insulation in compliance with ASTM C612 Type II, III or IVA. ASTM C612 Type II and III mineral wool insulation must also be non-combustible as defined by ASTM E136 and CAN/ULC-S114.
		Nominal Density:	Minimum 4.0 lb/ft ³ (64 kg/m ³).
		Installation:	A 1 in. mineral wool board or batt shall be installed behind the dryer vent box. The remainder of the cavity shall be filled with mineral wool including between the box and the stud.
3B	Insulation (Adjacent Cavities)	Type:	Minimum R-19 fiberglass batt insulation that is classified as non-combustible as defined by ASTM E136 and CAN/ULC-S114.
		Minimum Thickness:	6 inch (152 mm).
		Installation:	Fiberglass batt must be installed in the adjacent cavities.
4	Dryer Vent Box	Certified Manufacturer:	Construction Solutions, LLC.
		Certified Products:	DBX1424 4.25 in. (108 mm) steel dryer vent box
		Box Dimensions:	14 in. (356 mm) wide by 24 in. (610 mm) high by 4.25 in. (108 mm) deep with a 1 in. (25 mm) flange. A 4 in. (102 mm) cut out for the dryer vent. 1-1/8 in. (29 mm) knockout on the top of the box. 24 Gauge steel.
		Sealing:	PFP 4800DW Hilti FS-ONE MAX STI LC Endothermic Firestop Sealant 3M Fire Barrier Sealant CP 25WB+ WF300 Intumescent Caulking Foil Tape listed to UL 723
		Installation:	The dryer vent box is fastened to the stud and sill through two holes on the side and bottom of the box using #8 x 5/8 in. (16 mm) steel stud screws. The galvanized steel dryer vent is inserted through the top of the box then caulked at the vent/box interface. The opening cut into the gypsum board shall be a maximum of 10-1/2 in. (267 mm) wide by 17- 1/2 in. (445 mm) high. Only one box is permitted per stud cavity.
5	Gypsum Board (Back of Dryer Box Cavity)	Type:	Type X gypsum wallboard complying with ASTM C1396 and labeled by an approved agency.
		Thickness:	Single layer of 5/8 in. (16 mm).
		Application:	The cavity containing the dryer vent box shall have a layer of type X gypsum placed behind the box. The gypsum shall be fastened to two 3/4 in. (19 mm) by 1-1/2 in. (38 mm) pieces of wood fastened to the stud with steel stud screws such that the gypsum will be flush with the 1-1/4 in. (32 mm) face of the studs prior to fastening the sheathing. The gypsum board shall be fastened with no. 6 x 1-5/8 in. (41 mm) drywall screws.
6	Vent Pipe	Size:	4 in. (101 mm) round.
		Type:	26 Gauge galvanized steel.