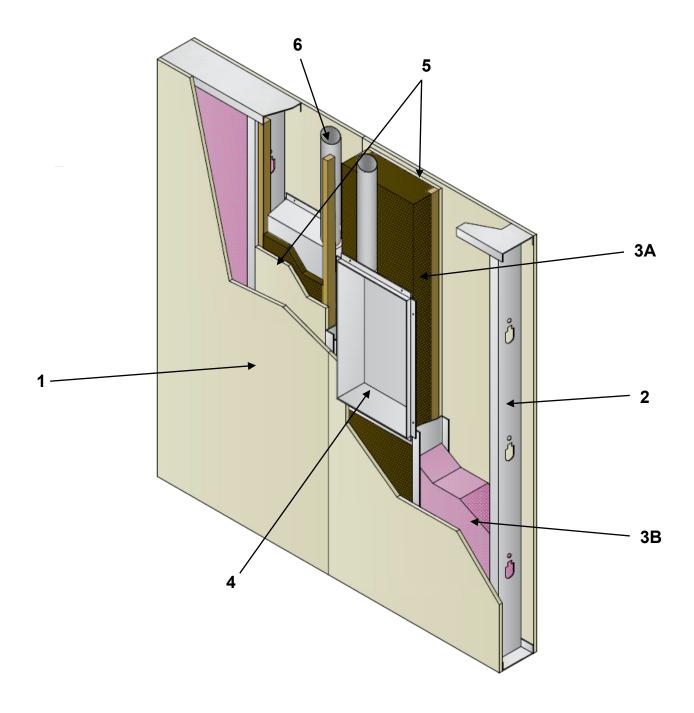


QAI Design B1072-1H – Construction Solutions – Dryer Vent Box CAN/ULC S115 / ASTM E814 – 1 Hour & 2 Hour Membrane Penetration Assembly Non-Load Bearing



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No.	COMPONENT	DESCRIPTION	N .			
140.	COMI CIVEIVI		Type X gypsum wallboard complying with ASTM C1396 and labeled by an approved agency.			
1	Gypsum Board Sheathing	Type: Thickness	One layer of 5/8 in. (16 the wall.	ating:	2-Hour Rating (not shown): Two layers of 5/8 in. (16 mm) on each face of the wall.	
		Application	Installed vertically with joints located over stud locations. On each side, one layer of 5/8 in. (16 mm) Type X is attached to the steel studs with minimum #6 x 1-5/8-inch (41 mm) self-drilling drywall screws spaced at 12 in. (305 mm) around the perimeter and in the field.			
			Exposed joints to be taped and mudded. Fastener heads to be mudded for a monolithic surface. Follow ASTM C840 for level of finish.			
2	Wall Studs	Stud Type:	Minimum 6 in. (152 mm) steel stud with 1-1/4 in. (32 mm) Flange.			
		Gauge:	Minimum 25 Gauge.			
		Stud Spacing:	Maximum 16 in. (406 mm) on center.			
3A	Insulation (Dryer Vent Box Cavity)	Туре:	Mineral wool firestopping insulation, compliant to ASTM C612 Type IVA or CAN/ULC S702 Type 1 and non-combustible as defined by ASTM E136 or CAN/ULC-S114.			
		Nominal Density:	Minimum 4.0 lb/ft ³ (64 kg/m ³).			
		Installation:	in. mineral wool firestopping insulation shall be installed behind the dryer vent box. Remainder of the cavity shall be filled with non-combustible mineral wool firestopping insulation including between the box and the steel stud.			
3В	Insulation (Adjacent Cavities)	Type:	Minimum R-19 unfaced fiberglass batt insulation, complaint to ASTM C665 Type 1 or CAN/ULC S701 Type 1 and non-combustible as defined by ASTM E136 or CAN/ULC-S114.			
		Minimum Thickness:	6 inch (152 mm).			
		Installation:	Fiberglass batt must be installed in the adjacent cavities.			
4	Dryer Vent Box	Certified	Construction Solutions, LLC.			
		Manufacturer: Certified Products and Box Dimensions:	DBX1000M 4 in. Metal Dryver Vent Box with Snap on Trim Ring	10 in. (254 mm) wide by 17 in. (432 mm) high by 3-1/2 in. (89 mm) deep with a 1-1/4 in. (32 mm) flange. A 3 x 5 in. (76 x 127 mm) oval cut out for the dryer vent on the top and 1-1/8 in. (29 mm) knockouts on the top and bottom for gas hook up. The box is formed from 22 Gauge galvanized steel.		
			DBX1017FR4 3.5 in. Metal Dryer Vent Box	10.77 in. wide by 17.82 in. high by 4 ¼ in. deep with a 1 in. flange. A 3.157 in. cut out for the dryer vent. 1-1/8 in. knockout on the top of the box. The box is formed from 24 Gauge steel. 10 in. (254 mm) wide by 17 in. (432 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 on the top and 1-1/8 in. (29 mm) knockout on the top. The box is formed from 24 Gauge steel.		
			DBX1017FR 4.25 in. Metal Dryer Vent Box			
			DBX1424 4.25 in. Metal Dryer Vent Box	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) self-drilling 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: Application:	Single layer of 5/8 in. (16 mm). The cavity containing the dryer vent box shall have a layer of 5/8 in. (16 mm) 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) wood strips 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 #6 x 1-5/8 in. (41 mm) drywall screws.			
6	Vent Pipe	Size:	4 in. (101 mm) round.			
	vent ripe	Type:	26 Gauge galvanized steel.			

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