



22415 N 18th Dr. Phoenix, AZ. 85027 Phone: 480-346-8240 newconstructionsolutions.com

Mechanical Engineering Packet

Products

DBX1000M & DBX1017FR

Metal Dryer vent Boxes



DBX1000M with snap on trim ring



DBX1017FR (no trim ring needed)

1 Hour Fire rating info: The DBX1000M 4 dryer vent box can go into a 1-hour firewall system, see specific and detailed installation instructions. The DBX1017FR can also go into a 1 hour-firewall system, see installation instructions. Please note that these dryer vent boxes were tested in different systems and are installed differently.

Testing agency

Construction Solutions chose QAI laboratories based in Canada to perform testing on our metal dryer vent boxes. QAI is recognized by UL as a third-party testing agency.

The following pages have information on our DBX1000M testing results as well as our DBX1017FR dryer vent box.





CERTIFICATE OF ACCREDITATION

This is to attest that

QAI LABORATORIES LTD.

3980 NORTH FRASER WAY
BURNABY, BC V5J 5K5
CANADA

Testing Laboratory TL-239

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

This certificate is valid up to January 1, 2022.



This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See www.iasonline.org for current accreditation information, or contact IAS at 562-364-8201.



A handwritten signature in black ink that reads "Raj Nathan".

Raj Nathan
President



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

QAI LABORATORIES LTD.

3980 NORTH FRASER WAY
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CANADA

Product Certification Agency PCA-118
Third-Party Certification Body

has met the requirements of the applicable provisions of AC370, *IAS Accreditation Criteria for Product Certification Agencies*, has demonstrated compliance with ISO/IEC Standard 17065:2012, *Conformity assessment - Requirements for bodies certifying products, process and services*. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

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C.P. Ramani, P.E., C.B.O
President



June 24, 2015

To: Whom it may Concern

RE: QAI Laboratories Accreditations

QAI Laboratories is an international company with 4 offices in the US and 3 offices in Canada. QAI is accredited in both the United States and Canada. In the United States QAI Laboratories is accredited by the US Government Department of Labor, Occupational Safety and Health Administration (OSHA) as a Nationally Recognized Testing Laboratory (NRTL), we are also accredited by the International Accreditation Services (IAS) as a Testing Laboratory and a Certification Agency and by the American Association of Laboratory Accreditation (A2LA) and the Federal Communication Commission (FCC) as an EMC/EMI testing laboratory and Conformity Assessment Body (CAB). In Canada we are accredited by the Standards Council of Canada (SCC) and also Industry Canada (IC) for (EMC/EMI).

With specific reference to Fire resistance evaluation of products our scope of accreditation is equivalent to that of other agencies like UL or Intertek. We are all accredited by the above noted agencies to ISO 17065 standard for Certification of Fire rated products and the ISO 17025 standard for testing of these products. It should also be noted QAI is a major partner to ICC-ES providing many of their testing and inspection services.

For details of our scope please visit <http://qai.org/accreditations/>

For specifics on the Constructions Solutions listing and use limitations please see QAI's online listing page at:

http://www.qai.org/Listing_Pages/QAI_Listing_B1072_Construction_Solutions.htm

Should you require any additional information on our accreditations please do not hesitate to call 604-527-8378.

Regards

Lawrence Gibson, P. Eng.,
President

DBX1000M Metal Dryer Vent Box With Snap on Trim Ring

- ***The only 22 gauge dryer vent box on the market with a snap on “trim ring”***
- ***Made out of 22 Gauge, white powder coated metal***
- ***Comes in two sizes, 4” and 6” sizes for 2x4 or 2x6 framing***
- ***Snap on trim ring helps eliminate extra drywall, caulking and paint repairs***
- ***DBX1000M is narrower than our DBX1000 in order to help you accommodate for smaller stud cavities***
- ***Powder coated to match the washer box***
- ***Has twelve screw holes to help you attach it directly to the studs***
- ***Designed to help you meet your 1 hour firewall requirements***
- ***Designed for single family detached or attached and multi-family dwellings***



INSTALLATION INSTRUCTIONS FOR THE DBX1000M 4" Dryer Vent Box 22 GAUGE METAL DRYER VENT BOX/TRIM RING

The DBX1000M-4 is 9 3/4" X 17" X 3 1/2" deep.

The DBX1000M-4 can be installed in either 2"x 4" or 2"x 6" wood or 3 5/8" or 6" metal framing.

It is a 22 gauge metal dryer vent box with a 25 gauge snap-on trim ring. It can be installed in 16" or 24" o.c. framing. The DBX1000M-4 is powder coated.

For optimum results install the Construction Solutions DBX1000M-4 for up or down venting in 2"x 4" or 2"x 6" wood or 3 5/8" or 6" metal framed walls as follows.



BOX INSTALLATION – 16" or 24" O.C. (on center) SPACING

- ❶ Orient box to match desired venting direction. Allow a minimum of 4" vent pipe to extend into the box.
- ❷ If gas line is to be installed, insert into knockout provided.
- ❸ Slide box into position taking care to correctly align vent pipe and gas pipe (if present).
- ❹ Set box so that the bottom is 2 5/8" above the floor to allow clearance for the trim ring. If the dryer is a stackable or on a pedestal the box can be properly aligned with the dryer exhaust.
- ❺ Attach the box directly to either framing member.
- ❻ Screws or nails (1 1/4" in length) to attach the DBX1000M to framing.
- ❼ Drywall Installation-Hang the wallboard over flanges of the box. Cut out or router out the wallboard. The wallboard must not protrude into the box so the trim ring can be installed properly at finish.
- ❽ Snap trim ring into the box opening. Trim ring dimension 9 7/8" X 16 7/8" X 1 5/8", 25 gauge galvanized steel.

INSTALLATION INSTRUCTIONS FOR A 1 HOUR FIRE WALL REQUIREMENT

- ❹ To achieve a penetration firestop system rating (one hour equal F&T) 2"x 6" (50x152mm) wood framing 16" o.c. (406mm) is required. The DBX1000M-4 is to be installed in accordance with the QAI assembly description. Insulation to be 2" (50mm) mineral wool thermal insulation in compliance with ASTM C553 Type VII nominal density minimum 4.0 lb/ft³ (64 kg/m³) installed in back of the DBX1000M-4 dryer vent box. One single layer of 5/8" Type X gypsum board complying to ASTM 1396 fastened using # 6x 1 5/8" coarse thread drywall screws spaced 8" o.c. to the face of the framing with joints taped and compound applied. Tape embedded in the first layer. Apply compound to screw heads. The dryer vent box is fastened to a 2" x 6" stud with wood screws. Where the steel exhaust pipe is inserted into the vent box it shall be caulked with PFP 4800DW caulking at the interface (PFP 4800DW meets ASTM E814, CAN/ULC S115). The vent pipe is 4" (101mm), 26 gauge galvanized steel.
- ❺ Snap trim ring into the box opening. Trim ring dimension 9 7/8" X 16 7/8" X 1 5/8", 25 gauge galvanized steel.



See QAI Report # B1072-1A
Fire Test of Penetration Firestop Systems

Ratings (see QAI directory B1072-1A)	ASTM E 814	CAN/ULC S115
F Rating	1 Hour	1 Hour
T Rating	1 Hour	1 Hour
H Rating	N/A	1 Hour



INSTALLATION INSTRUCTIONS FOR THE DBX1000M-6" Dryer Vent Box 22 GAUGE METAL DRYER VENT BOX/TRIM RING

The DBX1000M-6 is 9 3/4" X 17" X 5" deep.

The DBX1000M-6 can be installed in 2" x 6" wood or metal framed wall.

It is a 22 gauge metal dryer vent box with a 25 gauge snap-on trim ring. It can be installed in 16" or 24" o.c. framing. The DBX1000M-6 is powder coated.

For optimum results install the Construction Solutions DBX1000M-6 for up or down venting in 2"x 6" wood or metal framed walls as follows:



BOX INSTALLATION – 16" or 24" O.C. (on center) SPACING

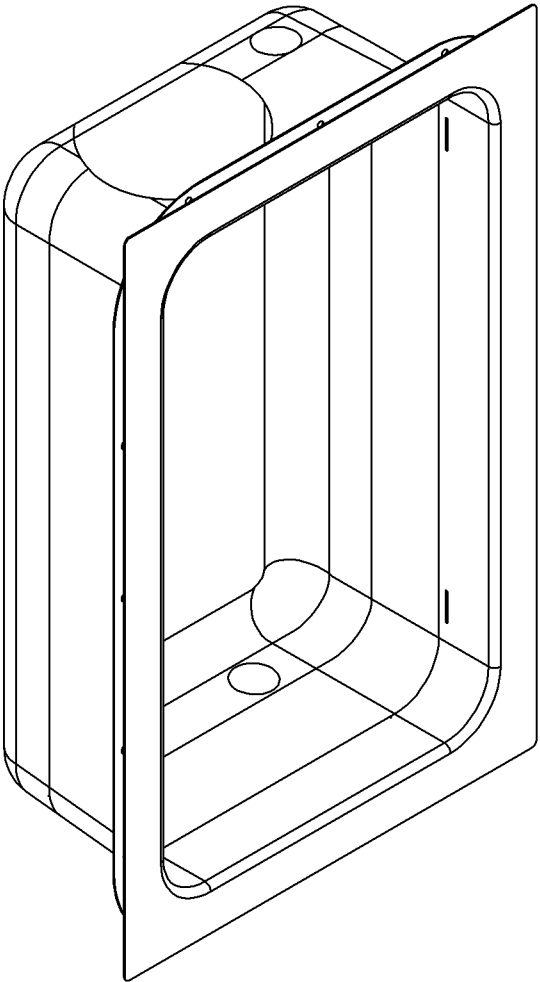
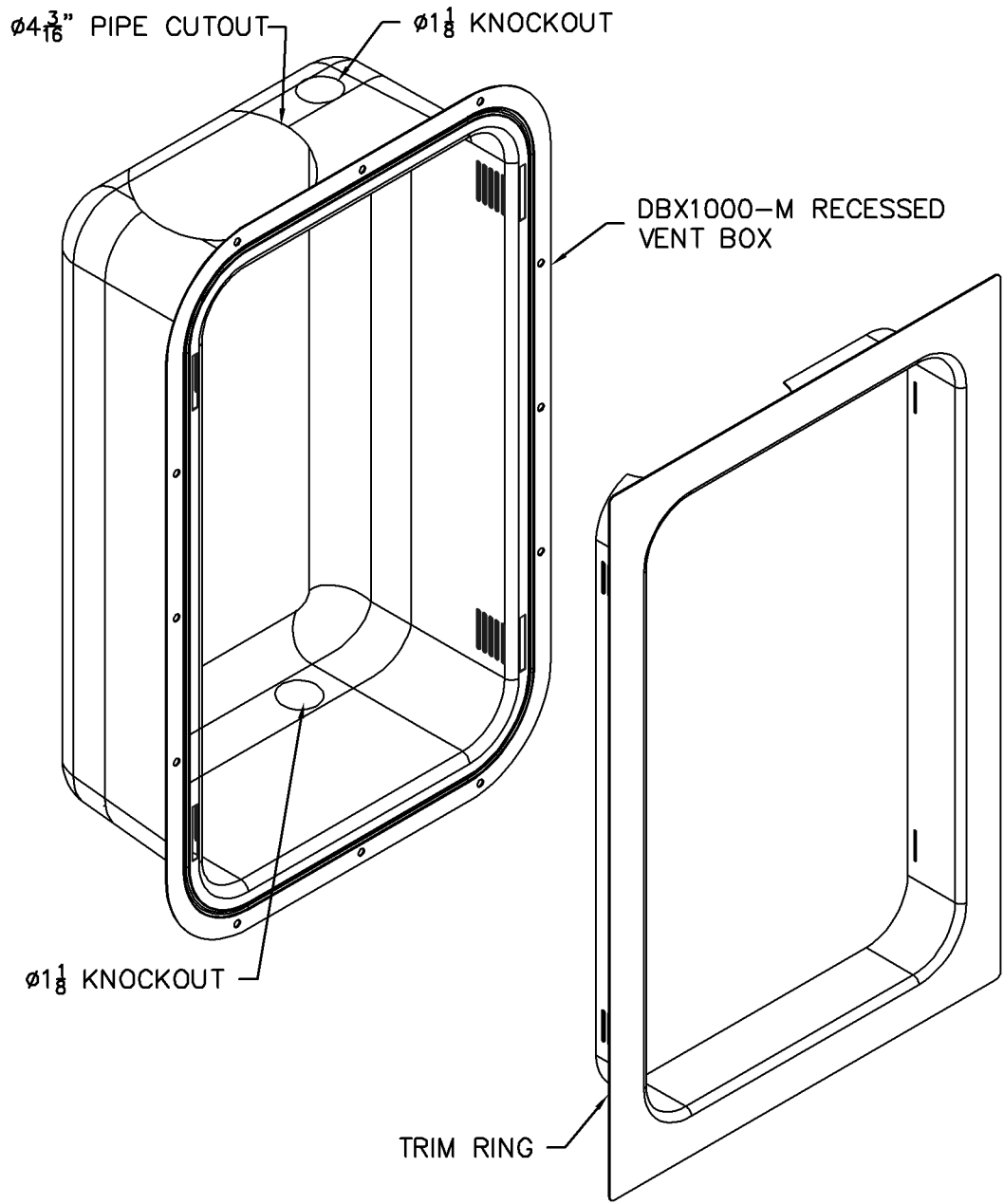
- 1 Orient box to match desired venting direction. Allow a minimum of 4" vent pipe to extend into the box.
- 2 If gas line is to be installed, insert into knockout provided.
- 3 Slide box into position taking care to correctly align vent pipe and gas pipe (if present).
- 4 Set box so that the bottom is 2 5/8" above the floor to allow clearance for the trim ring. If the dryer is a stackable or on a pedestal the box can be properly aligned with the dryer exhaust.
- 5 Attach the box directly to either framing member.
- 6 Screws or nails (1 1/4" in length) to attach the DBX1000M to framing.
- 7 Drywall Installation-Hang the wallboard over flanges of the box. Cut out or router out the wallboard. The wallboard must not protrude into the box so the trim ring can be installed properly at finish.
- 8 Snap trim ring into the box opening. Trim ring dimension 9 7/8" X 16 7/8" X 1 5/8", 25 gauge galvanized steel.



See QAI Report # B1072-1B
Fire Test of Penetration Firestop Systems

Ratings (see QAI directory B1072-1B)	ASTM E 814	CAN/ULC S115
F Rating	41 Minutes	41 Minutes
T Rating	41 Minutes	41 Minutes
H Rating	N/A	41 Minutes



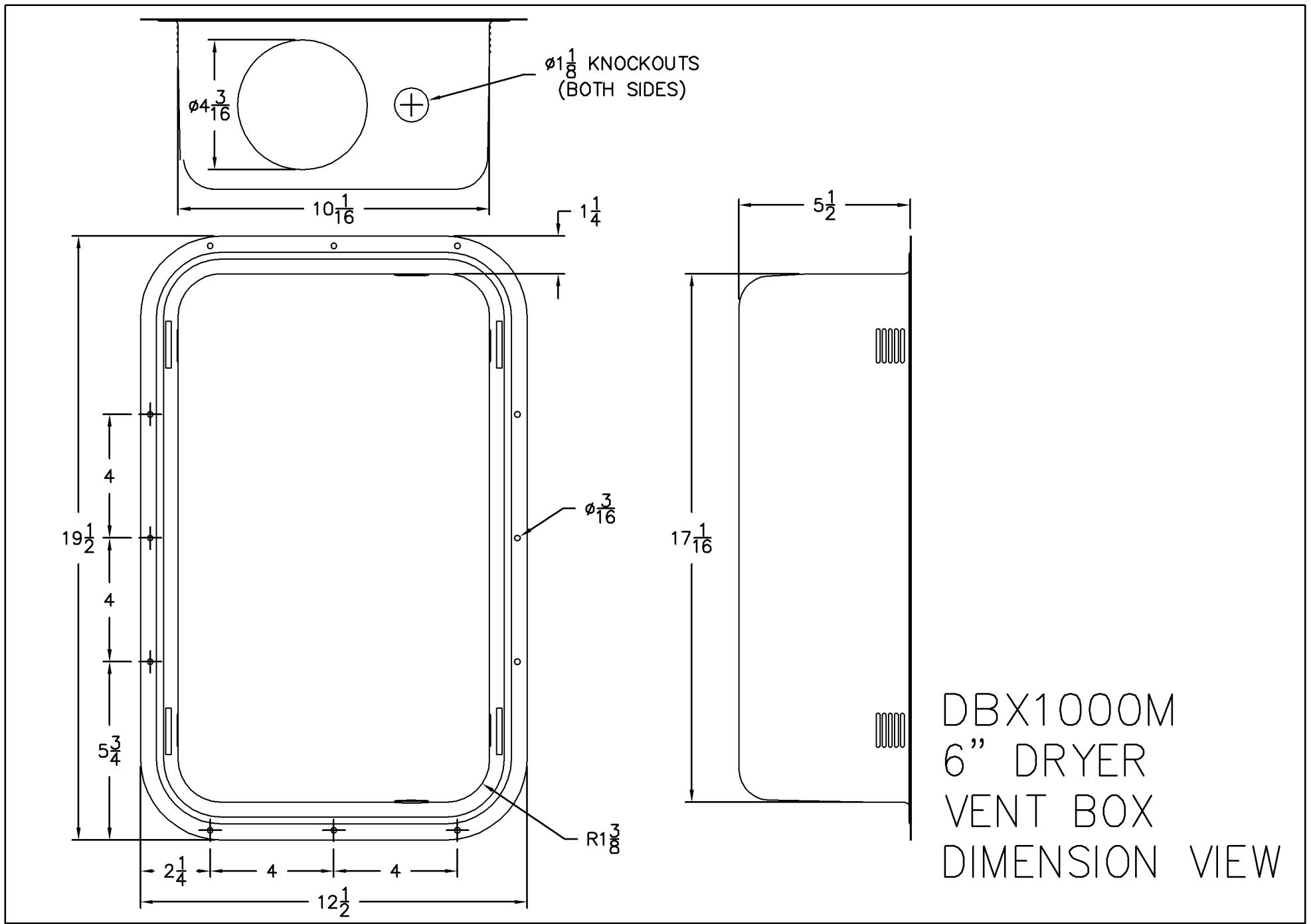


DBX1000M
6" DRYER VENT BOX
ASSEMBLY VIEW

22415 N. 18th Drive
Phoenix, AZ 85027
Office: 480-346-8240
www.newconstructionsolutions.com

CONSTRUCTION
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DBX1000-M
6" DRYER VENT BOX



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CONSTRUCTION
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DBX1000-M
 6" DRYER VENT BOX
 DIMENSION VIEW

3" x 5" OVAL
PIPE CUTOUT

Ø1 1/8" KNOCKOUT

DBX1000-M RECESSED
VENT BOX

Ø1 1/8" KNOCKOUT

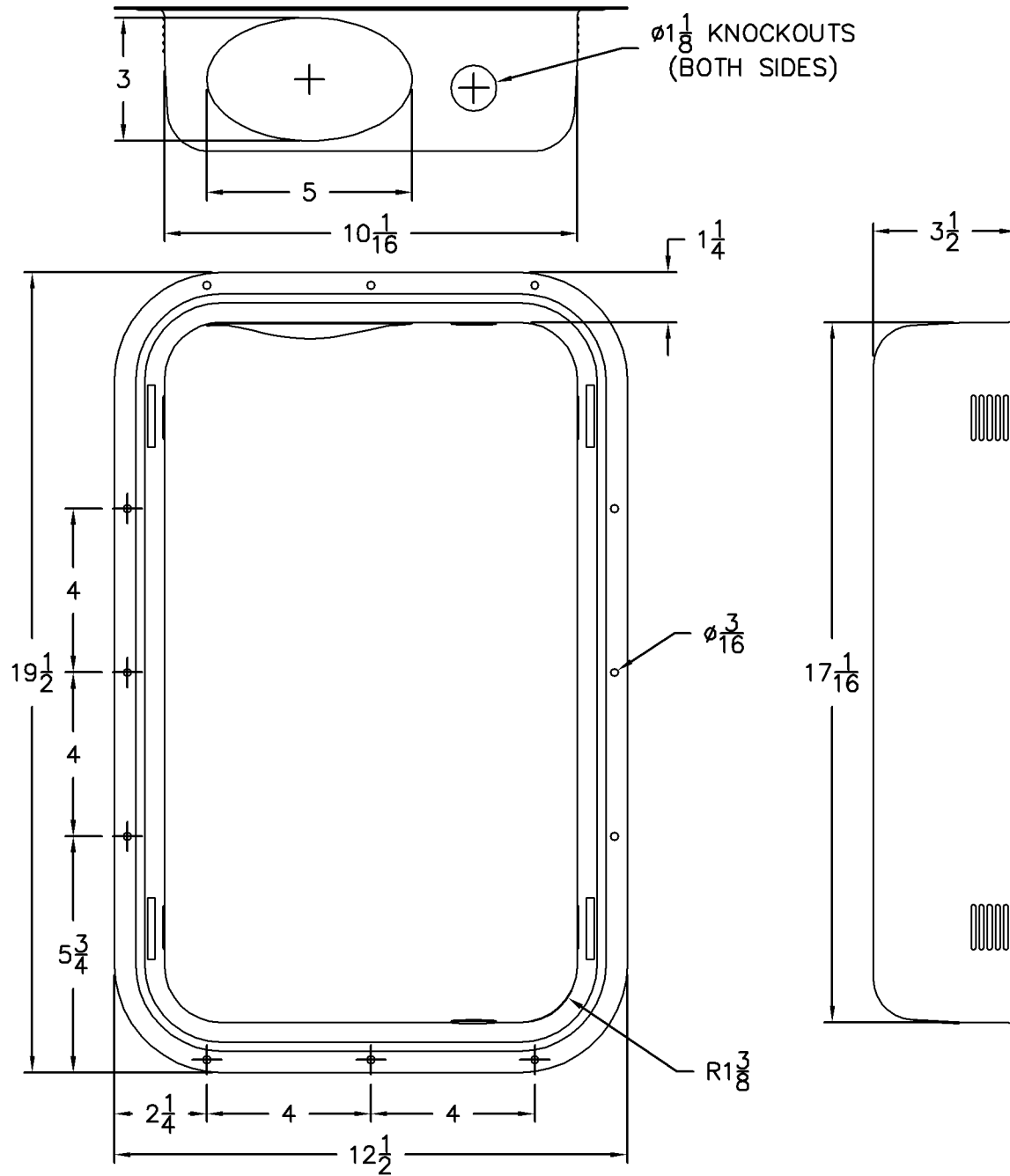
TRIM RING

DBX1000M
4" DRYER VENT BOX
ASSEMBLY VIEW

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Phoenix, AZ 85027
Office: 480-346-8240
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DBX1000-M
4" DRYER VENT BOX



DBX1000M 4"
 DRYER VENT BOX
 DIMENSION VIEW

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CONSTRUCTION
 SOLUTIONS

DBX1000-M
 4" DRYER VENT BOX
 DIMENSION VIEW



Directory of Listed Products



[Go to Directory Page](#)

BUILDING PRODUCTS LISTING PROGRAM

Class: Membrane Penetration

Customer: Construction Solutions, LLC

Location: 7801 E. Gray Rd., Suite 110, Scottsdale, AZ, 85260

Listing No.: B1072-1

Effective Date: December 23, 2014

Last Revised: **No Revisions to Date**

Expires: N/A

Products: Construction Solutions 4 in. and 6 in. Metal Dryer Vent Box with Snap on Trim Ring

Standard(s): ASTM E814 "Standard Test Method for Fire Tests of Penetration Firestop Systems".
CAN/ULC S115 "Standard Method of Fire Tests of Firestop Systems".

Label: 4 in. dryer vent box is marked by Construction Solutions, LLC with the following information: Construction Solutions' 4 in. dryer vent box trade name, QAI listing no. B1072-1A, QAI logo with the 'US' and 'C' identifier, Ratings of 1-hour F, 1-hour T, and 1-hour H (CAN/ULC S115 only).

6 in. dryer vent box is marked by Construction Solutions, LLC with the following information: Construction Solutions' 6 in. dryer vent box trade name, QAI listing no. B1072-1B, QAI logo with the 'US' and 'C' identifier, Ratings of 41-minutes F, 41-minutes T, and 41-minutes H (CAN/ULC S115 only).

Ratings: The following outlines the assembly and ratings of Construction Solutions 4 in. and 6 in. dryer vent box:

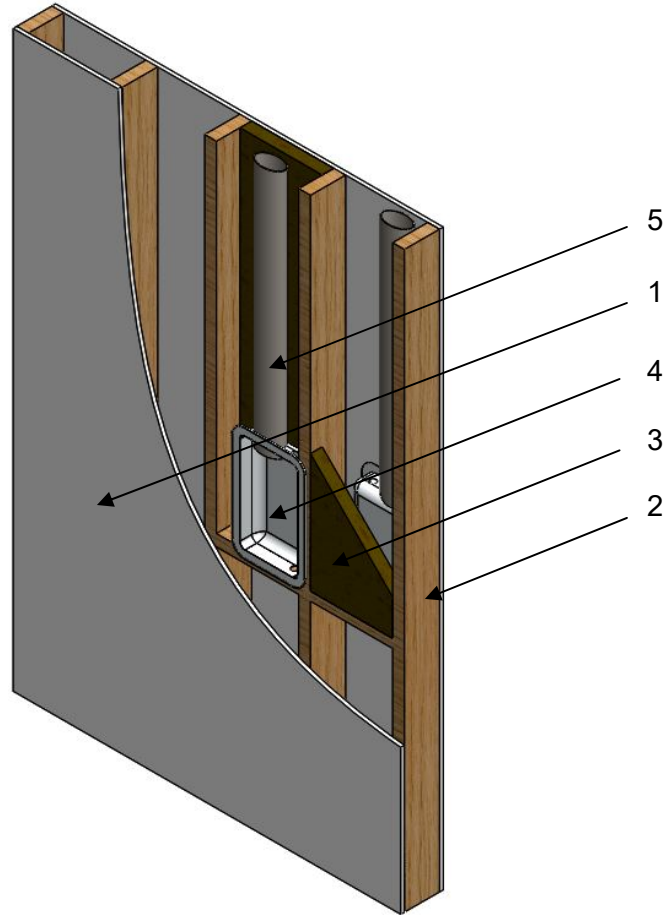
Assembly	Test Standard	F-Rating	T-Rating	H-Rating
4 in. Dryer Vent Box	ASTM E814	1-hour	1-hour	N/A
	CAN/ULC S115	1-hour	1-hour	1-hour
6 in. Dryer Vent Box	ASTM E814	41-minutes	41-minutes	N/A
	CAN/ULC S115	41-minutes	41-minutes	41-minutes

Note: ASTM E814 does not use H-Rating to identify that the assembly passed the hose stream test. The hose stream test is a requirement to achieve an F-Rating.

QAI Listing B1072-1A

ASTM E814 and CAN/ULC S115 – 1-Hour F Rating, 1-Hour T Rating, and 1-Hour H Rating (CAN/ULC S115 only) Non-load Bearing Wall Assembly

**QAI Listing B1072-1A Construction Solutions DBX1000M 4 in. Dryer Vent Box
 CAN/ULC S115, ASTM E814
 1 Hour Membrane Penetration Assembly
 Non-Load Bearing**

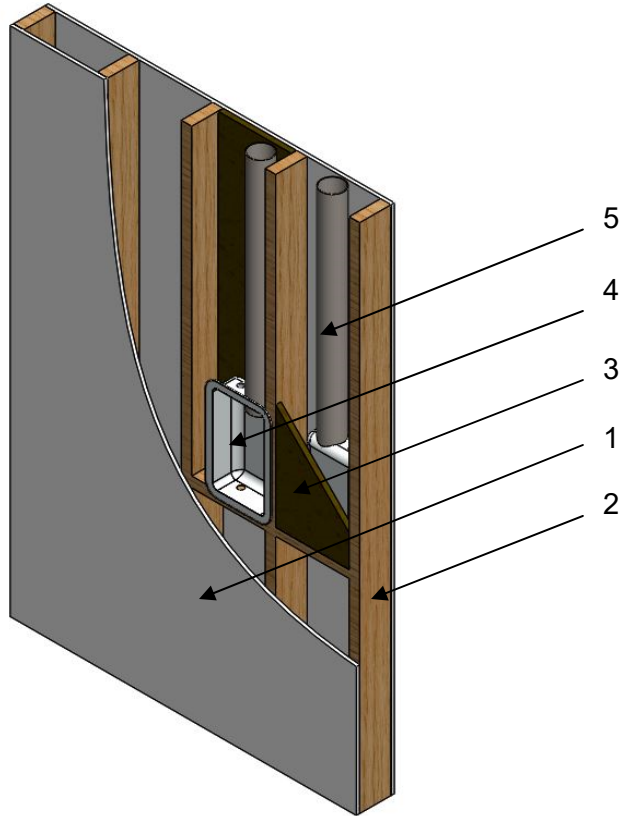


No.	COMPONENT	DESCRIPTION	
1	Gypsum Board	Type:	Type X gypsum wallboard complying with ASTM C1396 and labeled by an approved agency.
		Thickness:	Single layer of 5/8 in. (16 mm) on each face of the wall.
		Application:	Sheathing is to be fastened to studs with #6 x 1-5/8 in. (41 mm) long coarse thread drywall screws spaced at 8 in. on center. Joints to be taped and mudded, and fastener heads to be mudded.
2	Wall Studs	Stud Type:	Minimum nominal 2 x 6 in. (38 x 140 mm) wood studs.
		Stud Spaced	Maximum 16 in. (406 mm) on center.
3	Insulation	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.
		Minimum Thickness:	2 inch (50 mm).
		Nominal Density:	Minimum 4.0 lb/ft ³ (64 kg/m ³).

No.	COMPONENT	DESCRIPTION	
4	Dryer Vent Box	Certified Manufacturer:	Construction Solutions
		Certified Product:	DBX1000M 4 in. Construction Solutions dryer vent box kit.
		Box Dimensions:	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.
		Trim Ring Dimensions:	9-7/8 in. (251 mm) wide by 16-7/8 in. (429 mm) high by 1-5/8 in. (41 mm) deep with a 1-5/16 in. (33 mm) flange. The trim ring is made from 25 gauge galvanized steel.
		Caulking:	PFP 4800DW
	Installation:	The dryer vent box is fastened to the 2 x 6 in. (50 x 152 mm) stud and sill through two holes on the side and bottom of the box using #8 x 1-1/2 in. (38 mm) wood 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	Vent Pipe	Size:	4 in. (101 mm) round.
		Type:	26 gauge galvanized steel.

Visit the QAI Online Listing Directory located at www.qai.org for the most up to date version of this Listing and to validate that this QAI Listing is active.

**QAI Listing B1072-1B Construction Solutions DBX1000M 6 in. Dryer Vent Box
 CAN/ULC S115, ASTM E814
 30 Minute Membrane Penetration Assembly
 Non-Load Bearing**



No.	COMPONENT	DESCRIPTION	
1	Gypsum Board	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 1-5/8 in. (41 mm) long coarse thread drywall screws spaced at 8 in. on center. Joints to be taped and mudded, and fastener heads to be mudded.
2	Wall Studs	Stud Type:	Minimum nominal 2 x 6 in. (50 x 152 mm) wood studs.
		Stud Spaced	Maximum 16 in. (406 mm) on center.
3	Insulation	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.
		Minimum Thickness:	2 inch (50 mm). See Insulation Installation below for thickness of insulation behind dryer vent box.
		Nominal Density:	Minimum 4.0 lb/ft ³ (64 kg/m ³).
		Installation:	A 10 in. (254 mm) x 17 in. (432 mm) area shall be cut from the 2 in. cavity insulation in the area behind the dryer vent box, a 10 in. (254 mm) x 17 in. (432 mm) piece of 1 in. insulation shall then be placed in the cut out.

No.	COMPONENT	DESCRIPTION	
4	Dryer Vent Box	Certified Manufacturer:	Construction Solutions
		Certified Product:	DBX1000M 6 in. Construction Solutions dryer vent box kit.
		Box Dimensions:	10 in. (254 mm) wide by 17 in. (432 mm) high by 5 in. (127 mm) deep with a 1-1/4 in. (32 mm) flange. A 4-3/16 in. (106 mm) circular 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.
		Trim Ring Dimensions:	9-7/8 in. (251 mm) wide by 16-7/8 in. (429 mm) high by 1-5/8 in. (41 mm) deep with a 1-5/16 in. (33 mm) flange. The trim ring is made from 25 gauge galvanized steel.
		Caulking:	PFP 4800DW
	Installation:	The dryer vent box was fastened to the 2 x 6 in. (50 x 152 mm) stud and sill through three holes on each side of the box using #8 x 1-1/2 in. (38 mm) wood 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	Vent Pipe	Size:	4 in. (101 mm) round.
		Type:	26 gauge galvanized steel.

Visit the QAI Online Listing Directory located at www.qai.org for the most up to date version of this Listing and to validate that this QAI Listing is active.



DBX1017FR

Your Number
ONE Choice and
Source for Quality
Dryer Vent Boxes.

- ✓ Meets IRC and IMC Code
- ✓ Raised Flange Requiring NO Trim Ring
- ✓ Reduces Labor Costs

POWDER COATED METAL DRYER VENT BOX

DBX1017FR

Metal Dryer Vent Box Facts

DBX1017FR metal dryer vent box is powder coated white to match the washer box.
 The box is 10" WIDE BY 17" TALL and designed to fit into a 2 x 6 framed wall.
 Can be installed in wood or steel framing
 Meets the 1 hour equal F&T fire rating requirement for through penetration fire rated system. Designed for multi-family or single family dwellings
 Meets IRC & IMC Code Requirements
 Designed with a raised flange requiring no trim ring



DBX1017FR



*May be Installed in wood
or steel studs.*



Finish with caulking, no trim ring needed.

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 Manufacturer & Distributor of Specialty Building Products

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DBX1017FR

**Recessed Vent Receptacle
Installation Guidelines &
Product Information**



INSTALLATION INSTRUCTIONS FOR THE DBX1017FR DRYER VENT BOX

THE DBX1017FR IS 10" WIDE X 17" TALL X 4.25" DEEP. **MEETS THE 1-HOUR EQUAL F&T "THROUGH PENETRATION FIRESTOP SYSTEM REQUIREMENTS.** THIS 4.25" DEEP BOX IS INSTALLED IN 2X6 WOOD OR 6" METAL FRAMING. THE DBX1017FR IS POWDER COATED WHITE.

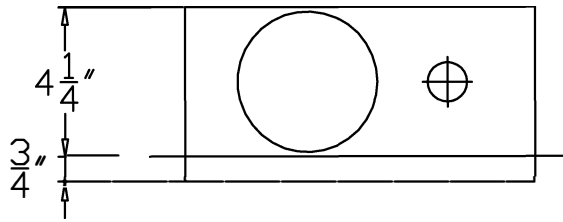
FOR OPTIMUM RESULTS INSTALL THE DBX1017FR FOR UP/DOWN VENTING IN 2X6 WOOD OR 6" METAL FRAMING AS FOLLOWS:

BOX INSTALLATION – 16" ON-CENTER SPACING FOR STANDARD FRAMING OR FIRE RATING REQUIREMENT. IT CAN BE INSTALLED IN 24" ON-CENTER IN NON-RATED WALLS.

- ORIENT BOX TO MATCH DESIRED VENTING DIRECTION. ALLOW A MINIMUM OF 2" OF VENT PIPE TO EXTEND INTO THE BOX.
- IF GAS LINE IS TO BE INSTALLED, INSERT INTO KNOCKOUT PROVIDED.
- BOX CAN BE INSTALLED IN ANY LOCATION IN THE STUD CAVITY TO MEET DESIRED POSITION FOR DRYER LOCATION.
- ATTACH BOX TO ONE STUD AND BOTTOM STUD PLATE USING 1 1/4" SCREWS OR NAILS. IF POSITIONING IN THE STUD CAVITY TO ACCOMMODATE A *STACKED* DRYER CONFIGURATION ATTACH BLOCKING BELOW THE BOX AND ATTACH THE BOX TO ONE STUD AND THE BLOCKING.
- IF INSTALLING IN A 1 HOUR "THROUGH PENETRATION FIRESTOP SYSTEM" SEE 1 HOUR REQUIREMENTS FOR INSULATION AND OTHER MATERIALS IN THE STUD CAVITY.

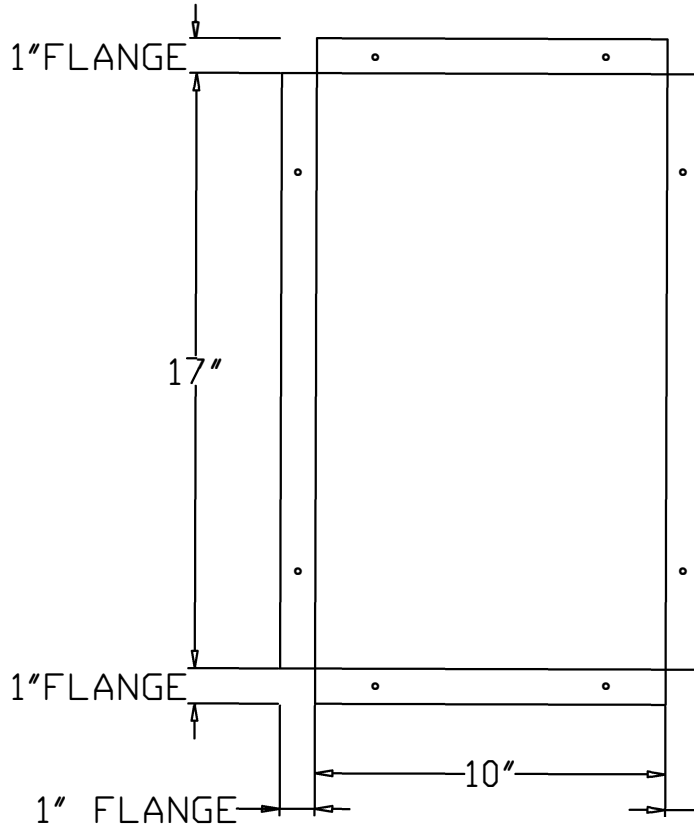
INSTALLATION INSTRUCTIONS FOR A 1 HOUR FIRE WALL REQUIREMENT

- To achieve a penetration firestop system rating (one-hour equal F&T) 2" x 6" (50mm x 152mm) **wood framing**, 16" O.C. (406mm) is required. The DBX1017FR is to be installed in accordance with the QAI assembly description. Insulation to be minimum R-19 fiberglass batt insulation that is classified as non-combustible as defined by ASTM E136 and CAN/ULC-S114, min thickness 6 inches. Insulation to be installed in all areas including between the stud and dryer vent box. The batt may be split to half the thickness to be able to compress it behind the box. The dryer vent box is 10" wide x 17" high x 4.25" deep with a 1" flange. The dryer vent box is fastened to the stud and sill with 1 1/2" screws. The 4" galvanized vent pipe is installed in the opening and caulked at the vent/box interface using PFP 4800DW caulking. Type X gypsum wallboard 5/8" complying with ASTM C 1396 is installed on stud face. The cavity containing the Dryer Vent Box shall have a layer of 5/8" Type X gypsum board placed behind the box. The gypsum board shall be fastened to two 3/4" (19mm) by 1 1/2" (38mm) pieces of wood fastened to the stud with wood screws such that the gypsum board will be flush with the 1 1/2" (38mm) face of the studs prior to fastening the sheathing. The gypsum board shall be fastened with #6 1 5/8" (41mm) drywall screws.
- Installation for **25-gauge steel framing** is the same as above for the DBX1017FR dryer vent box.
Exception: insulation in the dryer vent box cavity shall be 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 E 136 and CAN/ULC-S114, min 4.0 lb. (64kg/m3) density. A minimum 1" mineral wool board or batt shall be installed behind the Dryer Vent Box including between the box and the stud. In addition, a minimum R-19 fiberglass batt insulation meeting ASTM E 136 and CAN/ULC S-114 shall be installed in the adjacent stud cavities.

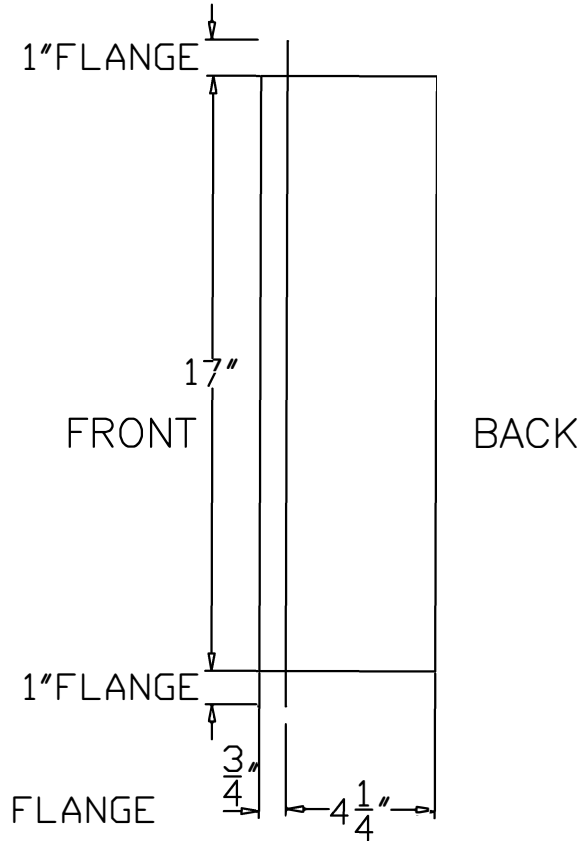


TOP VIEW

DBX1017FR
 DRYER VENT BOX
 DIMENSION VIEW



FRONT VIEW



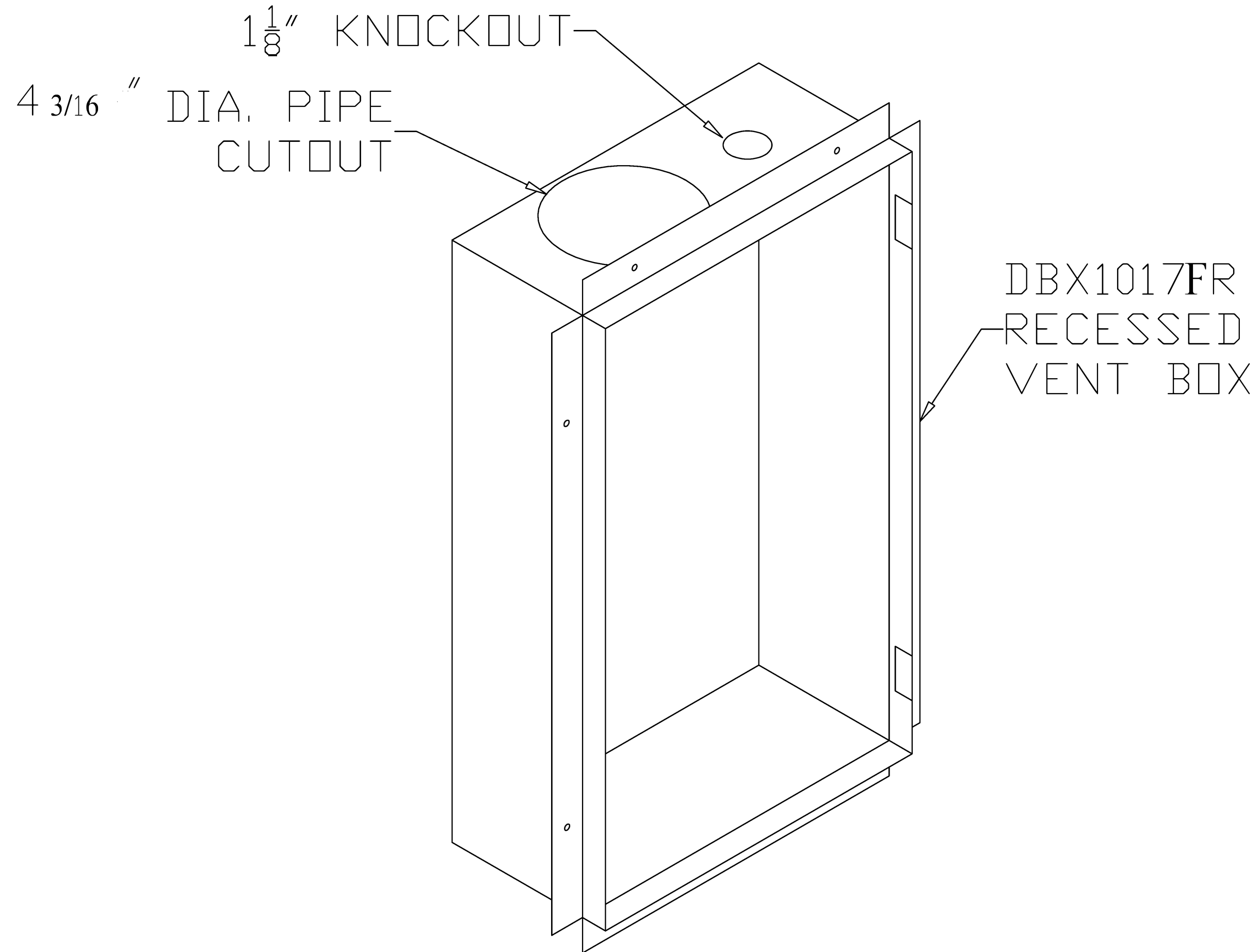
SIDE VIEW

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CONSTRUCTION
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DBX1017FR
 DRYER VENT BOX

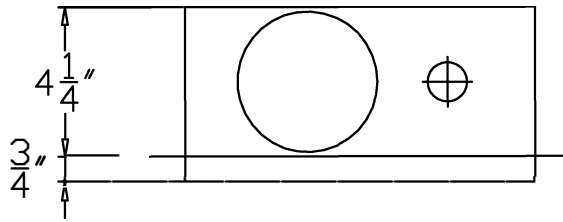
DBX1017FR
DRYER VENT BOX
ISOMETRIC VIEW



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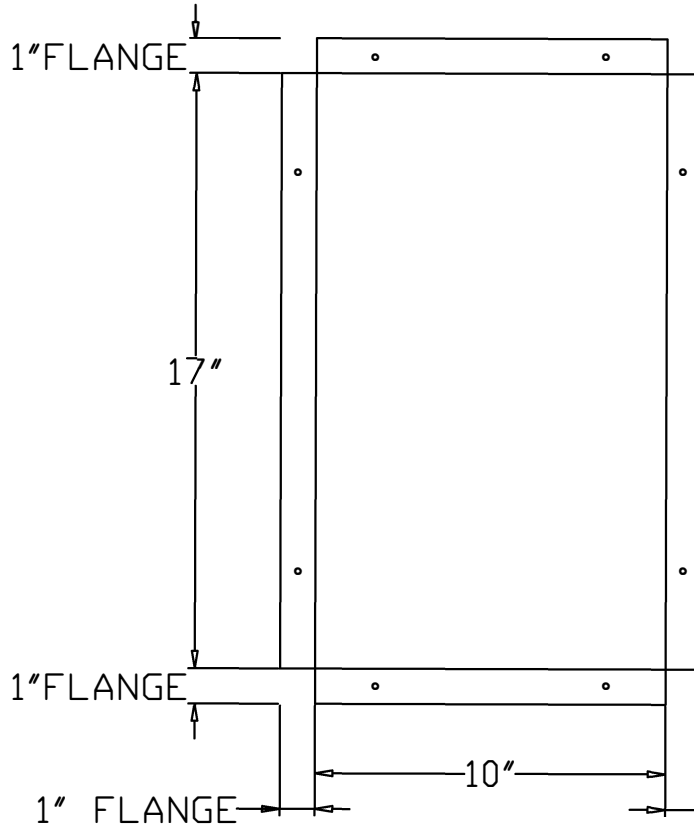
CONSTRUCTION
SOLUTIONS

DBX1017FR
DRYER VENT BOX

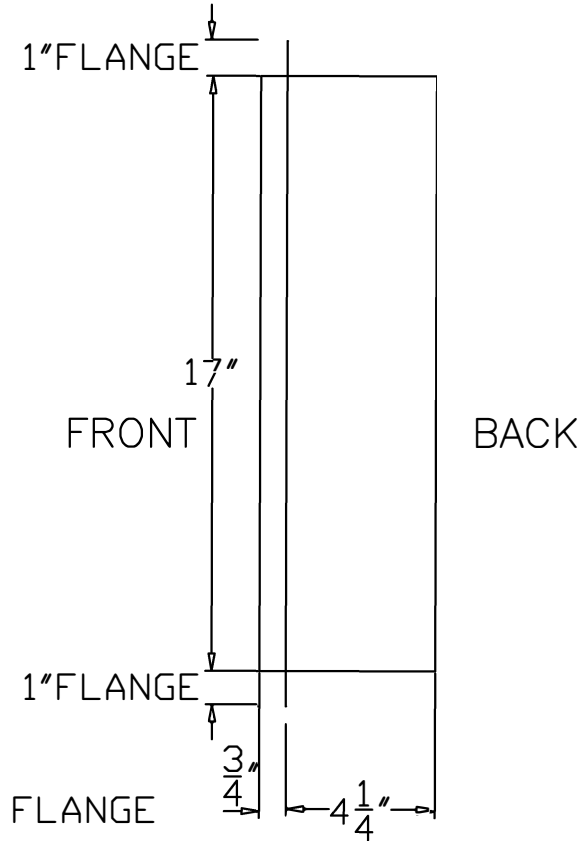


TOP VIEW

DBX1017FR
 DRYER VENT BOX
 DIMENSION VIEW



FRONT VIEW



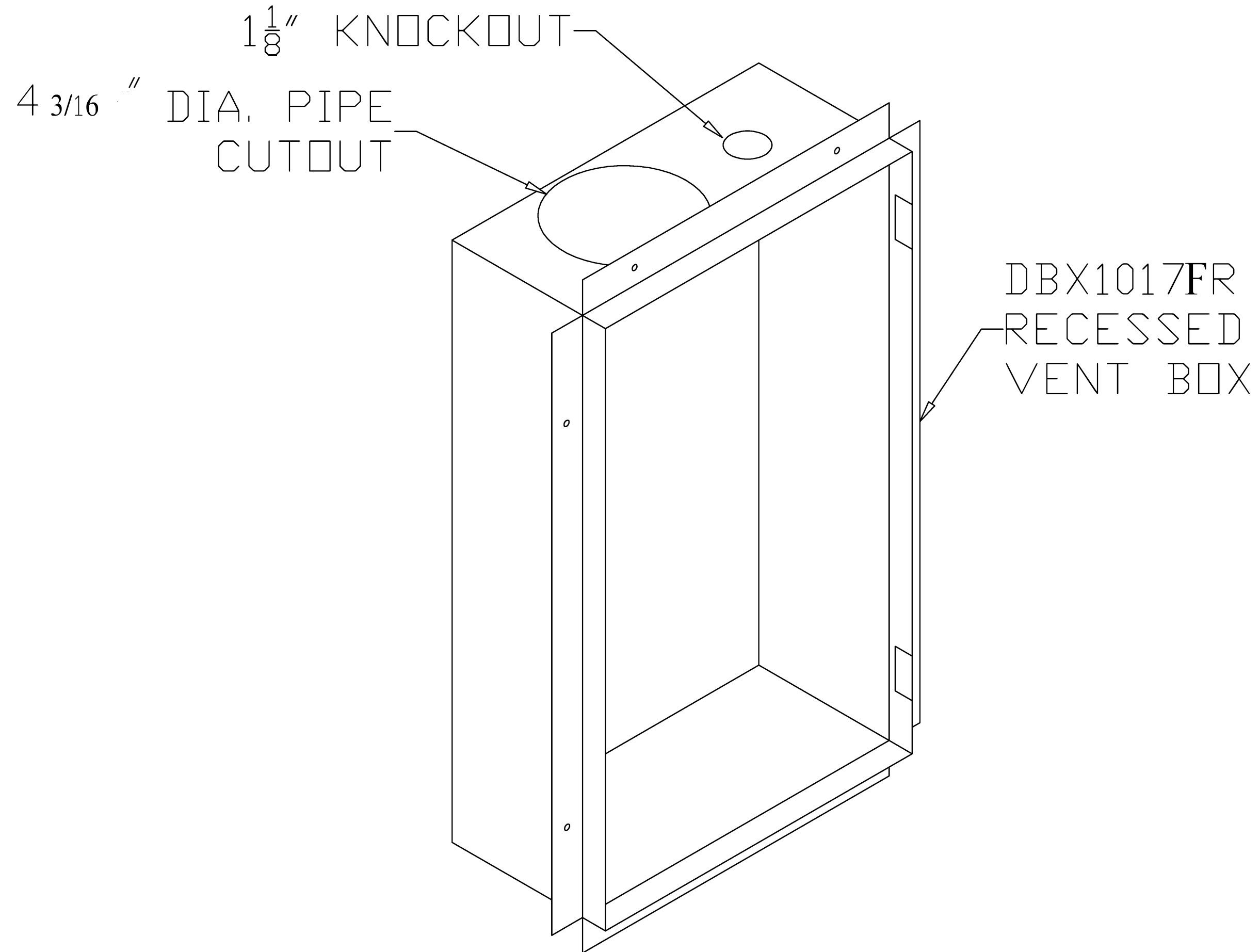
SIDE VIEW

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 DRYER VENT BOX

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ISOMETRIC VIEW

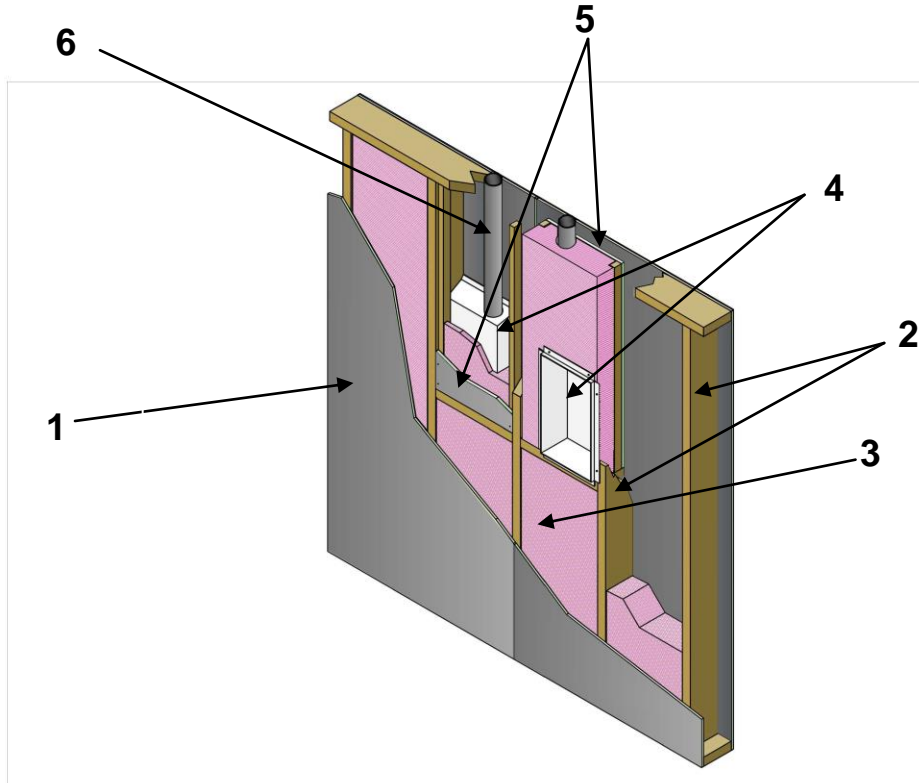


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DBX1017FR
DRYER VENT BOX

**QAI Listing B1072-1C Construction Solutions DBX1017 4.25 in. Dryer Vent Box
 CAN/ULC S115, ASTM E814
 1 Hour Membrane Penetration Assembly
 Non-Load Bearing**

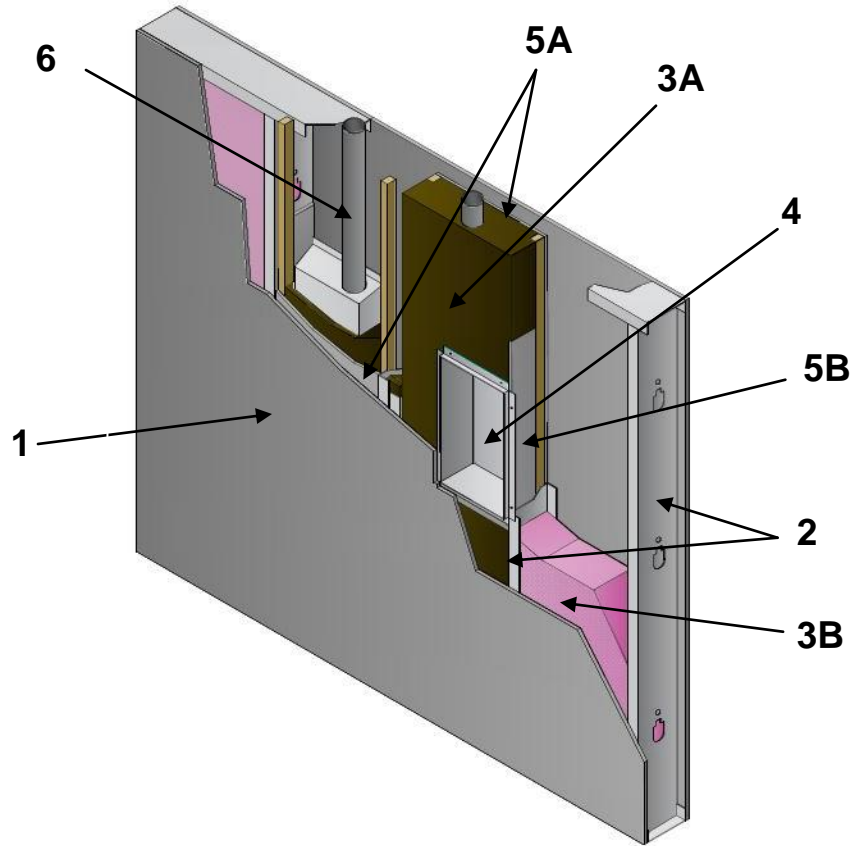


No.	COMPONENT	DESCRIPTION	
1	Gypsum Board Sheathing	Type:	Type X gypsum wallboard complying with ASTM C1396 and labeled by an approved agency.
		Thickness:	Single layer of 5/8 in. (16 mm) on each face of the wall.
		Application:	Sheathing is to be fastened to studs with #6 x 1-5/8 in. (41 mm) long coarse thread 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 nominal 2 x 6 in. (38 x 140 mm) wood studs.
		Stud Spaced	Maximum 16 in. (406 mm) on center.
3	Insulation	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 all areas including between the stud and dryer vent box. The batt may be split to half the thickness in order to be able to compress it behind the box.

No.	COMPONENT	DESCRIPTION	
4	Dryer Vent Box	Certified Manufacturer:	Construction Solutions.
		Certified Product:	DBX1017FR 4.25 in. Construction Solutions dryer vent box kit.
		Box Dimensions:	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.
		Caulking:	PFP 4800DW.
	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 1-1/2 in. (38 mm) wood 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 (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 wood screws such that the gypsum will be flush with the 1-1/2 in. (38 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.

Visit the QAI Online Listing Directory located at www.qai.org for the most up to date version of this Listing and to validate that this QAI Listing is active.

**QAI Listing B1072-1F Construction Solutions DBX1017 4.25 Dryer Vent Box
 CAN/ULC S115, ASTM E814
 1 Hour Membrane Penetration Assembly
 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 Spaced	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.

No.	COMPONENT	DESCRIPTION	
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
		Certified Product:	DBX1017FR 4.25 in. Construction Solutions dryer vent box kit.
		Box Dimensions:	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.
		Caulking:	PFP 4800DW.
		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.
5A	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.
5B	Gypsum Board (Adjacent Stud of Dryer Box)	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 adjacent stud to the dryer vent box shall have a layer of type X gypsum placed between the stud and the box. The gypsum shall extend 6 in. (152 mm) above the top of the box and fastened using six no. 6 x 1-1/4 in. (32 mm) Type S drywall screws.
6	Vent Pipe	Size:	4 in. (101 mm) round.
		Type:	26 Gauge galvanized steel.

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The top reasons why National/Regional Homebuilders and Sub-Contractors are specifying and installing the DBX Dryer Vent Boxes over all other recessed dryer vent boxes:

- ✓ Provides a clean, professional look with a snap on optional trim ring
- ✓ DBX Dryer Vent Boxes can be rotated for up or down venting
- ✓ The DBX trim ring eliminates the need to frame around metal dryer vent boxes with baseboard
- ✓ The DBX Dryer Vent Boxes are coated white to match the washer boxes in the laundry room
- ✓ Optional caulking prior to paint
- ✓ Reduces construction costs and back end delays on drywall and paint repair
- ✓ The DBX Dryer Vent Boxes have been tested by UL and QAI Laboratories

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Dryer Vent Boxes

- ✓ Optional Caulking
- ✓ Eliminates Drywall Repair
- ✓ Reduces Labor Costs

The DBX Dryer Vent Boxes are simple, straightforward dryer vent receptacles that install in the wall behind the clothes dryer in the laundry room. The molded cavity provides storage space for dryer flex hose allowing the clothes dryer to be installed right against the wall. The DBX Dryer Vent Boxes also allow for the elimination of bends and kinks in the dryer flex exhaust hose. This improved airflow allows your dryer to work more efficiently—**saving on energy costs**—and minimizes lint buildup, a well documented fire hazard.

DBX1424

Metal Dryer Vent Box with Optional Trim Ring

The DBX1424 metal dryer vent box with snap on trim ring is powder coated white, designed to work with pedestal and stackable dryers. The 14" wide by 24" tall, 22 gauge metal box and ring is designed to fit into a 2x6 framed wall. The DBX1424 has inside dimensions that are 3 1/2 inches taller than any other manufactured dryer vent box. Thereby, **accommodating all pedestal heights**. This dryer vent box is designed to be used with or without the trim ring.



DBX1000

Plastic Dryer Vent Box

The DBX1000 with snap on trim ring is made of high impact polystyrene. The DBX1000 comes in two sizes 4" (for a 2x4 wall) or 6" (for a 2x6 wall). This dryer vent box can also be used to down vent—simply turn the box upside down. **The snap on trim ring helps eliminate repairs and saves you time.**



DBX1000M*

Metal Dryer Vent Box

The DBX1000M dryer vent box is powder coated white, 22 gauge steel, and comes in two sizes 4" (for a 2x4 wall) or 6" (for a 2x6 wall). This dryer vent box can also be used to down vent—simply turn the box upside down. It also comes with a **snap on trim ring**.



DBX1017FR

Low Cost Metal Dryer Vent Box

The DBX1017FR metal dryer vent box is powder coated white to match the washer box. The box is 10" wide by 17" tall and designed to fit into a 2 x 6 framed wall. Designed and tested to meet 1 hour equal F&T fire rating requirement for through penetration fire rated system.



DBX900

Dryer Vent Box For Manufactured Housing

The DBX900 was designed specifically for down venting the dryer vent in manufactured housing. The DBX900 dryer vent box is for 2x3 or 2x4 wall framing and does not have a separate trim ring.



* The DBX1000M-4 and DBX1017FR both meet the 1 hour firewall requirement.

Please visit newconstructionsolutions.com to download the installation instructions and **Spec-Data sheet**.

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