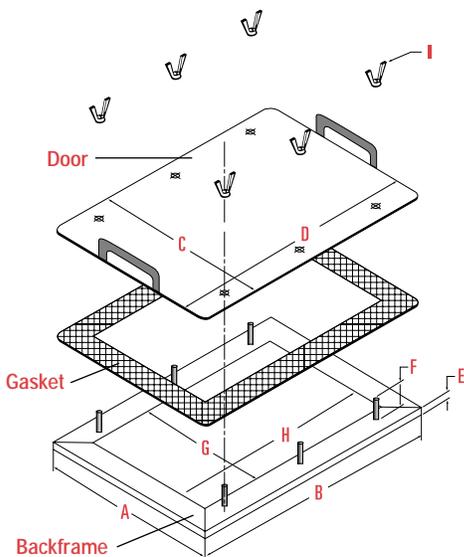


- ◆  &  LISTED ◆ UL LISTED 65X3 ◆
- ◆ UNIQUE PATENTED DESIGN — U.S. PATENT #5165189 ◆
- ◆ EASY INSTALLATION ◆ NO WELDING REQUIRED ◆

- Meets requirements of NFPA 96, ref, chapter 4,1994 edition
- Meets or exceeds requirements of all mechanical codes
- Rugged all steel construction - grease tight - air tight
- Bolt in unit easily installed into existing ductwork
- New construction weld in unit available
- Duct cutout template included
- No bolts penetrate to the interior of the duct
- Two handles for easy removal and installation
- High temperature resistant gasket and sealant
- Made in U.S.A.



DIMENSIONS

ORDER SIZE	A	B	C	D	E	F	G	H	I QTY
"7x7"	10"	10"	10.5"	10.5"	.5"	1"	7"	7"	4
"7x12"	10"	15"	10.5"	15.5"	.5"	1"	7"	12"	6
"7x20"	10"	23"	10.5"	23.5"	.5"	1"	7"	20"	10
"12x12"	15"	15"	15.5"	15.5"	.5"	1"	12"	12"	8
"12x20"	15"	23"	15.5"	23.5"	.5"	1"	12"	20"	12
"16x20"	19"	23"	19.5"	23.5"	.5"	1"	16"	20"	12
"20x20"	23"	23"	23.5"	23.5"	.5"	1"	20"	20"	16

"THE PENETRATOR" ACCESS DOOR STOCK SIZES AND DOOR DIMENSIONS
NON-STANDARD SIZES WILL MAINTAIN DIMENSIONS AND SPECIFICATIONS RELATIVE TO ABOVE SIZES

LISTED GREASE DUCT ACCESS DOORS

The Need for Proper Access in Commercial Kitchen Exhaust Systems N.F.P.A. #96

A commercial kitchen exhaust system is generally composed of three main parts, hood, duct and fan. The duct work in these systems is constructed to be, quite literally, out of sight and out of mind. However, if there is no means to examine the interiors of these ventilation systems a serious calamity can take place.

Kitchen exhaust systems are designed to pull grease vapors and cooking residues out of the kitchen and into the atmosphere. As this occurs, some of the grease will condense on the interior of the duct system and over a surprisingly short period of time, especially with certain forms of cooking, enough grease will accumulate to create a very serious fire hazard. Ignition of oils on the cooking surfaces can send volatile flames

up into the exhaust system, setting fire to this grease build-up. These fires burn extremely hot (2300°F+) and can ignite surrounding areas and building materials. Serious fires will reach the roof and burn the entire building down.

To prevent fire, proper inspection and grease removal must be performed. The only way these systems can adequately be inspected is if proper access openings are installed strategically throughout the length of the ducting system.

This well known concern is behind the attempts to entrench proper access provisions into the National Fire Protection Association (NFPA) #96 Standard and other code bodies and ultimately, into jurisdiction legislation.

"If you can't see it...you can't inspect it!"

Access Openings

Section 1-3.1.3 of the NFPA #96 (1994ed.) states:

"All interior surfaces of the exhaust system shall be reasonably accessible for cleaning and inspection purposes."

This particular NFPA clause is probably one of the most important statements in the Standard because the vast majority of systems are not fully accessible.

As regards access openings, NFPA #96 generally states:

- Access openings are required every 12 feet (3.7 m) and at every change in direction of horizontal ductwork, unless the duct is large enough for personnel entry (approximately 24" x 24").
- Openings are required within 18 inches (457.2 mm) of hoods containing dampers which block the opening of the duct (which includes most water-wash type hoods).
- Openings in vertical ducts are to be on every floor or on the top of the vertical riser if personnel entry is possible.
- Exhaust fans with ductwork connected to both sides must have access within 3 feet (0.92 m) on each side of the fan.

Access Panels (Doors)

Properly constructed and installed access doors or panels are obligatory to cover these openings. This is best achieved by requiring that only Flame Gard  Listed Access panels (Doors) be used.

NFPA #96 4-3.4.4 states:

"Listed grease duct access door assemblies (access panels) shall be installed in accordance with the terms of the listing and the manufacturer's instructions."

The construction requirements of these  Listed access panels must be as follows:

- Same thickness as the duct (No.16 MSG carbon steel or 18 MSG stainless steel)
- Gasket sealants must be rated for at least 1500°F (815.6°C)
- Must be greasetight
- Fasteners shall be of carbon steel or stainless steel
- Door fasteners must not penetrate the duct walls
- Door mountings shall ensure a proper, secure fitting over openings

Architects and consultants should specify Flame Gard  Listed access panels on new construction and renovation plan drawings.

By maintaining the above conditions for the location of openings and the quality of access panels, maintenance engineers and property owners can be assured of adequate supervision of grease build-up and cleaning. The quality of Flame Gard  Listed Grease Duct Access Door ensures a proper air tight, greasetight and firetight fit to the ductwork.