

# CODES, STANDARDS AND CLASSIFICATIONS



"The Clear Choice."

## ZERO CLEARANCE GREASE DUCT FIRE-RATED INTEGRAL CHASE

**ZeroClear™** is the most innovative factory-built kitchen grease duct in the industry. With a zero clearance rating, our integrated chase construction sets the standard for design and is the future for all kitchen grease duct installations.

**ZeroClear™** broadens our already extensive range of grease duct product offered in our models from single wall model G (UL Listed with fire-rated wrap when required) to our PS and IPS C1, C2 and C4 product lines.

### ZEROCLEAR™ FEATURES:

- ZERO CLEARANCE TO COMBUSTIBLES
- 2 HOUR FIRE RESISTANCE RATING
- ELIMINATES NEED FOR SEPARATE FIRE-RATED ENCLOSURE AROUND DUCT
- 3" WALL THICKNESS
- HIGH TEMPERATURE BLANKET INSULATION
- 5" TO 36" INSIDE DIAMETERS
- SMALLER FOOTPRINT
- LIGHTER WEIGHT

GREASE DUCT  
A218

GREASE DUCT  
FOR USE IN GREASE DUCT ASSEMBLIES  
CLASSIFIED IN ACCORDANCE WITH UL 2221  
SEE UL FIRE RESISTANCE DIRECTORY  
18LS

Stoney Creek, CN  
Nampa, ID

**Model Zero Clear** - GREASE DUCT, CLASSIFIED AS AN ALTERNATE TO A 2 HOUR FIRE RESISTIVE SHAFT ENCLOSURE WITH A MINIMUM ZERO CLEARANCE TO COMBUSTIBLES.

**Model Zero Clear** - GREASE DUCT PART FOR RESTAURANT COOKING APPLIANCE. LISTED IN ACCORDANCE WITH UL1978 - STANDARD FOR GREASE DUCTS.

FLUE DIAMETER: 5" - 36"    CLEARANCE TO COMBUSTIBLES: 0" (ALL SIZES)

FOR GREASE DUCT SYSTEMS INSTALLED WITHOUT A CONTINUOUS FIRE-RATED ENCLOSURE, AN EVALUATED THROUGH-PENETRATION FIRESTOP ASSEMBLY SHALL BE USED. SEE THROUGH PENETRATION FIRESTOP SYSTEM NO. C-AJ-7101 IN THE UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE DIRECTORY.

INSTALL AND USE ONLY IN ACCORDANCE WITH SELKIRK METALBESTOS GREASE DUCT INSTALLATION AND MAINTENANCE INSTRUCTIONS.

WARNING: RISK OF FIRE. DO NOT FULLY ENCLOSE WITHIN COMBUSTIBLE MATERIAL PLACED AT ZERO CLEARANCE TO ASSEMBLY.

(Label Part #) (FACTORY 30)

**SELKIRK METALBESTOS** Provides a complete line of Kitchen Ventilation Systems.

MODEL	DESCRIPTION
<b>ZeroClear™ Z3</b>	Pressure Rated, 3" Special High Temp - Heavy Duty Blanket Insulation, "0" Clearance Integral (2 Hr Fire Rated) Chase Grease Duct System
<b>IPS C4</b>	Pressure Rated, 4" High Temperature Blanket Insulation, Double Wall
<b>IPS C2</b>	Pressure Rated, 2" High Temperature Blanket Insulation, Double Wall
<b>IPS C1</b>	Pressure Rated, 1" High Temperature Blanket Insulation, Double Wall
<b>PS</b>	Pressure Rated, Air Insulated, Double Wall
<b>G</b>	Pressure Rated, Single Wall

**ZeroClear™** zero clearance grease duct systems meet the following standards:



**UL 1978:** Standard for Grease Ducts



**UL 2221:** Tests of Fire Resistive Duct Enclosure Assemblies



**ASTM E119:** Standard Test Methods for Fire Tests of Building Construction

**ASTM E814:** Standard Test Method for Through-Penetration Fire Stops

Based upon these tests **ZeroClear™** complies with the following codes and installation standards:



**2006 International Mechanical Code (IMC)**

**2006 Uniform Mechanical Code (UMC)**

**2004 (and 2008) NFPA 96:** (Installation) Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations

**ZeroClear™** is also negotiable for acceptance under the "Alternative Materials and Methods" clauses found in all earlier editions of the above referenced codes and installation standards.



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# ZERO CLEARANCE GREASE DUCT FIRE-RATED INTEGRAL CHASE

## INNOVATION...

**ZeroClear™** is the industry's only 3" insulated wall grease duct design that meets the strict UL requirements to qualify as a zero clearance grease duct. Available in both stainless and aluminized steel exteriors, ZeroClear™ can be customized to your unique application requirements. Our interior flues are constructed of a heavy duty 304 or 316 type stainless steel. ZeroClear™ can be easily retrofitted for future restaurant expansion or modifications.

## SETTING THE STANDARD...

ZeroClear™ meets the following stringent codes and standards:

- *UL1978 Grease Duct Design and Testing Standard – including 30 minute 2000°F test*
- *UL2221 Fire Resistance Rating Test Method – referenced in IMC, UMC and NFPA96.*

Welded, site fabricated grease duct is not always up to NFPA standards and has no UL listing, making it an easy target for local code officials and higher insurance premiums.

## INTEGRITY...

Our factory-welded and constructed design ensures consistent, quality installations that assemble together quickly and securely with simple tools. Eliminate dangerous on-site welding or time delays, such as leak checking and sealing poor welds associated with field fabrication from plate steel. Our high temperature sealant between the ZeroClear™ sections ensures a leak-tight installation. Do you want to gamble on a welding company that might not be around tomorrow? Not to mention lost revenues from a non-operating business. Go with "The Clear Choice," Selkirk's new ZeroClear™ grease duct, backed by the best warranty in the industry.

## INTEGRAL CHASE...

No longer will architects or contractors need to design and install a fire-rated chase to provide protection as required for welded steel or other grease duct designs. The ZeroClear™ system helps reduce floor space requirements and additional time and costs associated with constructing an on-site fire chase.

## ASSURANCE...

ZeroClear™ has met or exceeded stringent agency certification requirements. Insurance companies will appreciate the reduced liability of ZeroClear™. On-site welding creates a serious risk of fire during the construction process. The long-term future expenses associated with replacing a complete grease duct system should help reduce an insurance company's likelihood of a major claim.

**AVAILABLE WITH A LIMITED LIFETIME WARRANTY - "THE BEST IN THE INDUSTRY!"**

## PERFORMANCE...

Velocity and draft performance are greatly improved with round grease duct designs due to less flow resistance. In addition, round systems are much easier to clean and reduce the opportunity for grease accumulation in the corners, like rectangular systems, increasing the risk of fire.

## SIMPLICITY...

Almost no slope is required on horizontal runs of ZeroClear™. Carbon steel duct systems require a 1/4" drop per 1 foot of ducting for proper contaminant drainage. Example: A 40 ft. horizontal run of Selkirk's grease duct would require 10 inches less headroom than a typical field fabricated system. Single inspection for ZeroClear versus three inspections for generic duct and two separate layers of wrap.

## DESIGN SERVICES...

The modular concept of factory-built grease duct provides for maximum design flexibility and ease of installation. Just ask for ZeroClear™ when utilizing your design services engineer for a complete system layout. The Selkirk engineering staff provides design services for special product applications and for installations requiring complex or unusual manifold systems.

## MAINTENANCE...

Fittings can be integrated into the system design to accommodate automatic duct cleaning with spray nozzle systems. Cleanouts are located for easy access, and the round flue of ZeroClear™ makes it easier to clean since it has no corners where grease can hide. The stainless steel inner flue material is much less porous than carbon steel plates, thus allowing for more efficient cleaning.

## THE CLEAR ADVANTAGE

- *Better flow characteristics*
- *Prefabricated/modular design*
- *Superior safety and high temperature resistance*
- *Stainless steel maintains strength at much higher temperatures than carbon steel*
- *Cylindrical duct systems are far superior structurally compared to rectangular ducts*