



COMMERCIAL KITCHEN EXHAUST DUCTWORK

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Shop-fabricated raw steel grease duct sections and fittings for commercial kitchen exhaust systems requiring welded construction.

- Built for hood runs, risers, offsets, fan/curb transitions, shaft connections, and coordinated field-fit sections.
- Shop-fabricated sections are intended to be field welded, wrapped, installed, and accepted by others unless quoted otherwise.
- Access openings, drains, connection faces, wrap clearances, and AHJ-driven requirements should be identified before release.

MATERIAL	16 ga Cold Rolled Steel
WELDING	MIG welded
CONNECTION	1/2" flanges

CONSTRUCTION STANDARD

Application	Commercial kitchen grease exhaust ductwork, hood connections, vertical or horizontal runs, fan transitions, curb adapters, and custom welded fittings.
Standard material	16 gauge cold rolled steel, raw/unpainted, unless alternate material or gauge is quoted.
Welding process	Shop seams are typically MIG welded; final field joints and installed-system acceptance are by others unless expressly quoted.
Straight sections	Produced in 5'-0" nominal lengths, less end flange allowance. Shorter sections and coordinated field-fit pieces can be fabricated when required.
End preparation	1/2" flanges are standard for alignment and field welded assembly. Angle rings, companion flanges, and custom bolt patterns can be quoted when required.
Quality check	Weld seams receive visual inspection before release. Leak testing, pressure testing, NDT, or certified inspection are by others unless quoted.

BUILD QUALITY



Made to spec

Built from hood, fan, curb, shaft, and field dimensions.



Built tough

16 ga raw steel construction for welded grease duct packages.



Quality checked

Shop welds receive visual inspection before shipment.



Code coordinated

Access, drains, clearances, and wrap interfaces called out early.

FABRICATION CAPABILITIES

Duct sections	Rectangular and round grease duct sections, field-fit pieces, risers, offsets, drops, and short sections.
Fittings	Rectangular and round elbows, radius bends, offsets, tapers, reducers, transitions, branches, and tees.
Connections	Grease duct systems typically require fully welded connections. Hood collars, fan transitions, curb adapters, shaft/wall connections, and roof penetration fittings are available.
Field-fit work	Short sections, custom lengths, piece-marked runs, and coordinated connection faces.
Shop details	Tabs, brackets, companion flanges, and special flange details when requested.
Release support	Built from released drawings or verified field dimensions with piece marks, drain or access locations, and connection faces coordinated before fabrication.

MATERIAL NOTES

Raw steel

16 ga cold rolled steel is typical and is supplied raw/unpainted unless another material, coating, or finish is quoted.

Code-driven layout

Access doors, cleanouts, drains, clearances, and wrap interfaces should be located by project design, code requirements, and AHJ direction.

Field welded system

Empire fabricates the duct package; installation, field welding, fire wrap, and final listed-system acceptance are by others unless specifically included.

CONNECTION OPTIONS



RAW ENDS

Field fit-up

Raw ends can be provided for field trim and welded assembly.



1/2" FLANGE

Alignment flange

1/2" flanges help align sections before field welding.



ANGLE RINGS

Fan / curb match

Angle rings and bolt patterns can match fan, curb, or equipment details.



COMPANION

Quoted hardware

Companion flanges, tabs, brackets, and special connection details can be quoted.

OPTIONAL ACCESSORIES

Access

Access doors, cleanout openings, inspection panels, and drain fittings located by design/AHJ requirements.

Transitions

Hood collars, fan transitions, curb adapters, shaft/wall connections, and roof penetration fittings.

Flex connectors

Duro Dyne white Teflon flexible connections where required and allowed by the project design.

Custom details

Companion flanges, angle rings, custom bolt patterns, tabs, brackets, drains, and piece marks.

REQUIRED FOR QUOTE / RELEASE



Duct size, material, quantity, required nominal or field-fit lengths, and approved release dimensions.



Hood, fan, curb, shaft, or wall connection details with airflow/orientation noted.



Flange type, bolt pattern, companion flange needs, and connection face details.

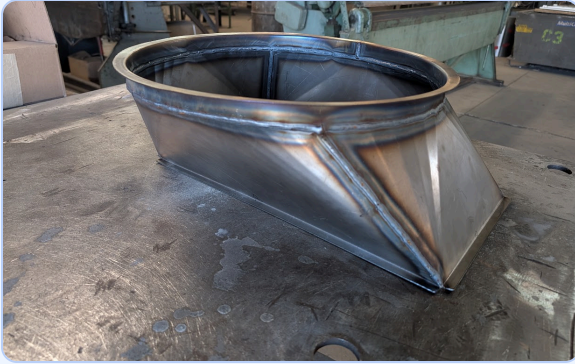


Access door or cleanout locations required by design, code, or AHJ direction.



Piece marks, drain fittings, special hardware, wrap interface, clearances, and any testing requirements.

APPLICATIONS & DETAILS



APPLICATION DETAIL

Continuous welded seams



Grease duct fittings are shop welded for field-welded commercial kitchen exhaust systems, with weld details coordinated to the release. Continuous welded construction supports the project-specific path from hood connections through shafts, offsets, and rooftop transitions.

APPLICATION DETAIL

Risers, offsets, and fittings



Round sections, elbows, offsets, transitions, and custom fittings can be built for hood-to-fan duct runs. Fitting geometry, access locations, drain provisions, connection faces, and field-weld allowances should be coordinated before fabrication.



APPLICATION DETAIL

Duct drops and transitions



Confirm hood, fan, curb, shaft, drain, wrap clearance, access openings, and connection faces before release. Final system design, listed wrap or enclosure, clearances, supports, field welding, testing, and inspection remain by others unless quoted.

NOT INCLUDED UNLESS QUOTED

- Installation, field welding, hoisting, rigging, roofing, or roof penetration work.
- Fire wrap, fire-rated enclosure, insulation, engineering, permits, inspections, or listed-system certification.
- Leak testing, pressure testing, gaskets, sealant, companion flanges, special hardware, or rework from changed release dimensions unless quoted.

SCOPE & RESPONSIBILITY

Code note: Grease duct systems are commonly governed by NFPA 96, mechanical code, local code, project specifications, and AHJ requirements. Empire fabricates duct and fittings to released dimensions and quoted scope; final system design, installation method, field welding, clearances, access spacing, wrapping/listing requirements, and acceptance remain the responsibility of others unless expressly included.

READY TO QUOTE?



Let's get your project moving.

Send drawings, sketches, photos, or field measurements. Empire is ready to go to work for you.

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