FLAT OVAL DUCT
and FITTINGS

ECCO™ is proud to be a member of:
HARDI
Heating, Air-conditioning & Refrigeration Distributors International
www.hardinet.org
SMACNA
Sheet Metal and Air Conditioning Contractors’ National Association
www.smacna.org
HRAI
Heating, Refrigeration and Air Conditioning Institute of Canada
www.hrai.ca
ADI
Air Distribution Institute
www.steelduct.org
CME
Canadian Manufacturers & Exporters
www.cme-mec.ca
AD
Affiliated Distributors™
www.adhq.com
SPIDA
Spiral Duct Manufacturers Association
www.spida.org

ECCO™ is proud to be a member of:
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LEGEND

NOTE: The boxed columns throughout the tables are intended to provide a quick determination of ordering dimensions.

ABBREVIATIONS: EQUIV. = Equivalent
WT (LBS/FT) = Weight pounds per foot
GALVANIZED FLAT OVAL DUCT PRODUCT AND CONSTRUCTION DATA

— Flat oval duct is machine-made from round spiral lockseamed duct. The oval shape produces less of a flat surface therefore making it less susceptible to vibration than rectangular ducts which reduces the need for rod and angle iron reinforcement.

— Flat oval duct can be supplied in lengths of up to 12 feet, producing fewer joints to reduce friction loss and installation costs.

— The hanger installation details applicable to rectangular duct are generally applicable to flat oval duct.

— The equivalent round is used to find the friction loss.

Features:
— Airtight 4-ply lockseam
— Low friction loss
— Light weight
— Long lengths

Base Materials:
— Aluminum
— Cold rolled steel
— Galvanized steel
— Perforated steel
— Polyvinyl chloride (PVC) coated steel
— Pre-painted steel
— Stainless steel
— Wiped coat (Galvannealed)

GALVANIZED FLAT OVAL DUCT PROFILE

All the sizes in this catalog are based on Type 2-LC profile which has two light reinforcing corrugations for added strength. It will not develop excessive pressure losses at low velocities.

GALVANIZED FLAT OVAL DUCT FITTING GAUGE CHART TO 10" W.G.

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*Flat Oval is for positive pressure application only.
**FLAT OVAL DUCT AND FITTINGS**

**GALVANIZED FLAT OVAL DUCT MINOR AXIS 3" – 8" FOR PRESSURE APPLICATIONS TO 10" W.G.**

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**NOTE:** Pricing will be based on Type 2–LC Profile.
# GALVANIZED FLAT OVAL DUCT MINOR AXIS 10" – 12" FOR PRESSURE APPLICATIONS TO 10" W.G.

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**NOTE:** Pricing will be based on Type 2–LC Profile.

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- E.&O.E. – Subject to Change Without Notice – May Not Be Available At All Locations –
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**NOTE:** Pricing will be based on Type 2–LC Profile.
GALVANIZED FLAT OVAL DUCT MINOR AXIS 18" – 20" FOR PRESSURE APPLICATIONS TO 10" W.G.

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**NOTE:** Pricing will be based on Type 2–LC Profile.
## GALVANIZED FLAT OVAL DUCT MINOR AXIS 22" – 24" FOR PRESSURE APPLICATIONS TO 10" W.G.

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**NOTE:** Pricing will be based on Type 2–LC Profile.
GALVANIZED FLAT OVAL DUCT MINOR AXIS 26” FOR PRESSURE APPLICATIONS TO 10” W.G.

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NOTE: Pricing will be based on Type 2–LC Profile.

GALVANIZED FLAT OVAL DUCT FITTINGS
ECCO Flat Oval Duct fittings are produced from galvanized steel meeting SMACNA HVAC Duct Construction Standards.

When ordering:
— Specify type and list all dimensions.
— Describe any variations from standard.
— Standard end connection shall be 2” in length and is considered to be the sleeve for slip joint assembly of flat oval duct to fittings.
— The drawings shown are illustrative of the types of fittings manufactured.
— Flat Oval Duct is to be used in positive pressure applications only.
— Vanstone, Ovalmate™ and other flange connections are available by special order.

VANE CHART
For mitered elbows and tees use the following chart if vanes are required.

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**FLAT OVAL DUCT FITTINGS — ELBOWS**

**TYPE: FOE-E**  
Easy Bend Elbow (any angle)

**TYPE: FOEM-90H**  
Mitered 90° Hard Bend Elbow

**TYPE: FOE-H**  
Hard Bend Elbow (any angle)  
90° – 5 Piece  
60° – 4 Piece  
45° – 3 Piece

**TYPE: FORE-E**  
Reducing Elbow (any angle)

*The drawings shown are illustrative of the types of fittings manufactured. Please contact your local ECCO™ Representative for ordering.*
FLAT OVAL DUCT FITTINGS — TEES

**TYPE: FOT-1**
Straight Tee

**TYPE: FOT-1R**
Reducing Tee

**TYPE: FOCON-T-1**
Conical Tee

**TYPE: FOCON-T-1R**
Reducing Conical Tee

*The drawings shown are illustrative of the types of fittings manufactured. Please contact your local ECCO™ Representative for ordering.*
FLAT OVAL DUCT FITTINGS — LATERALS

**TYPE: FOL-1**
Lateral

**TYPE: FOL-1R**
Reducing Lateral

**TYPE: FOCON-L-1**
Conical Lateral

**TYPE: FOCON-L-1R**
Reducing Conical Lateral

*The drawings shown are illustrative of the types of fittings manufactured. Please contact your local ECCO™ Representative for ordering.*
FLAT OVAL DUCT Fittings — Crosses

**Type: FOC-2**
Cross

**Type: FOC-2R**
Reducing Cross

**Type: FOCON-C-2**
Conical Cross

**Type: FOLC-2**
Lateral Cross

*The drawings shown are illustrative of the types of fittings manufactured. Please contact your local ECCO™ Representative for ordering.*
FLAT OVAL DUCT FITTINGS — TRANSITIONS

**TYPE: FO-RCT**
Flat Oval to Round
Concentric Transition

**TYPE: FO-RET**
Flat Oval to Round Transition
(Major Axis Tangent to Round)

**TYPE: FO-FCT**
Flat Oval to Flat Oval
Concentric Transition

**TYPE: FO-FET**
Flat Oval to Flat Oval
Parallel Axis
(Minor Axis Sides Tangent)

*The drawings shown are illustrative of the types of fittings manufactured. Please contact your local ECCO™ Representative for ordering.*
FLAT OVAL DUCT FITTINGS — ACCESSORIES (cont’d)

**TYPE: FOY**
Equal Branch

**TYPE: FY**
Equal Branch

**TYPE: FOER**
Eccentric Reducer

**TYPE: FER**
Eccentric Reducer

**TYPE: FOR**
Concentric Reducer

**TYPE: FY-R**
Reducing Wye Branch

**TYPE: FOREOY**
Reducing Wye Branch

*The drawings shown are illustrative of the types of fittings manufactured. Please contact your local ECCO™ Representative for ordering.*
FLAT OVAL DUCT FITTINGS — ACCESSORIES (cont’d)

TYPE: FOSET
Offset

TYPE: FOTRND
Oval to Round

TYPE: FOBT
Bullhead Tee

TYPE: FOBT-R
Reducing Bullhead Tee

*The drawings shown are illustrative of the types of fittings manufactured. Please contact your local ECCO™ Representative for ordering.
FLAT OVAL DUCT FITTINGS — ACCESSORIES (cont’d)

TYPE: END CAP
FON-1  For Pipe
FON-2  For Fitting

TYPE: COUPLING
FOS-1  For Pipe

*A The drawings shown are illustrative of the types of fittings manufactured. Please contact your local ECCO™ Representative for ordering.