

Submittal # #29



FO-INTEG-PROJECT-PO0001-REV.03 Gestión de Control de Calidad / Quality Management

Information

Status: In Review

Task/tareas condition

Legend



Overdue



Issue



On Time



Delayed Start



Inactive

**Project (CDC) - Empresa/
COMPANY:** Integ Miami LLC

**Project (CDC) - CDC (Centro
de Costo)** I-HVAC-RIVERGLADESES-051619

**Project (CDC) - Customer
Name** LUNACON CONSTRUCTION GROUP

Project (CDC) - Ubicacion 7400 Parkside Drive, Parkland, Florida 33067

Submittal

Title: METAL DUCTS

Spec Section: Division 15
SECTION 15810

Description: METAL DUCTS

Submittal Type : Product Data

Submit By: 13-09-2019

Responsible Contractor: Integ Miami LLC

Submittal Manager: Milagros Suarez

Issue Date:

Final Due Date:

Lead Time:

Ball in Court: Lunacon Construction Group

Attachment

Attachment:

Linked Drawings:

Notes:

Stamp Info

Stamp Date:

Other Name:

☐ **Show Stamp on PDF:**

Submittal logs

Add Submittal LOG

| Revision # | Date Submittal REV | Attachement Document: | Comments: |
|-------------------------|-----------------------|-----------------------|-----------|
| No submittal logs found | | | |



Submittal Approval

☐

Approval


Name/Title:

Signature _____

Created today at 1:35 PM (PDT). Owned by [Suarez, Milagros](#).

Rectangular Duct and Fittings

- ❖ All rectangular duct and fittings are fabricated using galvanized steel in accordance with the 3rd edition 2005 SMACNA Duct Construction Standards.
- ❖ Fabrication of rectangular duct and fittings using aluminum, stainless steel, or black iron is available at client's request or as necessary in accordance with project plans.



| Galvanized | 26-18 gauge | A-653 | G90 |
|-----------------|-------------|-----------|----------|
| Aluminum | 0.04 | ASTM B209 | 3003 H14 |
| Stainless Steel | 18 gauge | A-240 | 316L |
| Black Iron | 16 gauge | A-569 | N/A |

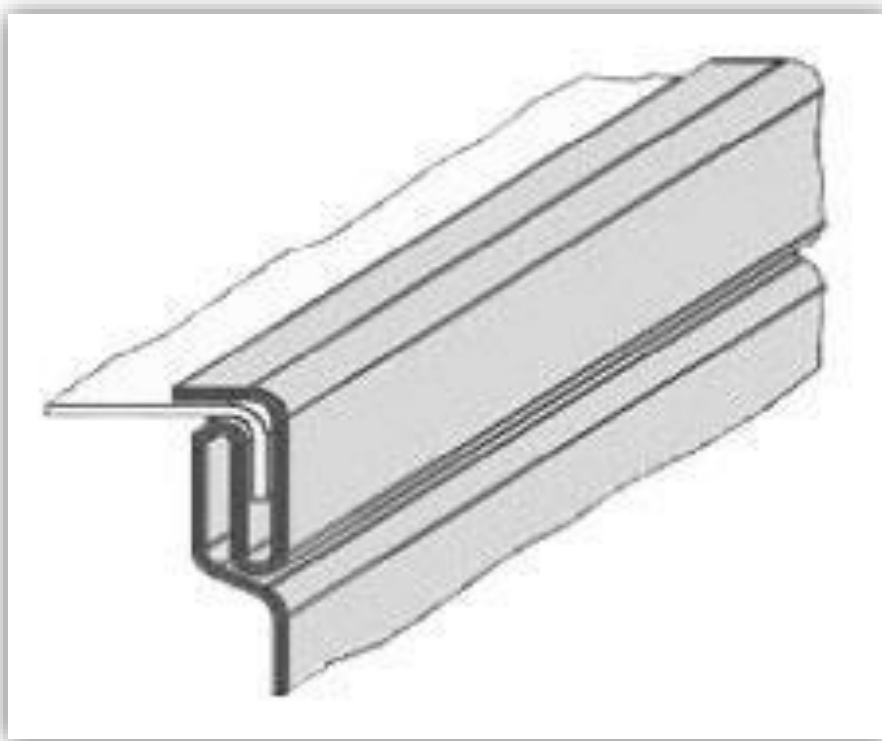
- ❖ Fabrication using other material standards that is not mentioned above is available upon client's request otherwise specified on project plans.
- ❖ All fabricated duct and fittings using 20-26 gauge are beaded.
- ❖ Straight duct and fittings are assembled otherwise are unassembled upon request.



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Longitudinal Seam



- ❖ Fabrication of rectangular duct and fittings is completed using a Pittsburgh Lock Seam.
- ❖ Duct sections are secured and leak-free under pressure.

TDX Connection

All fabrication of rectangular duct and fittings that use a TDX connection is based on the 3rd edition 2005 SMACNA Duct Construction Standards.



Benefits

- ❖ Reduces leakage.
- ❖ Can be assembled and disassembled on the ground without damage to duct or fitting.
- ❖ No additional sealing is necessary.

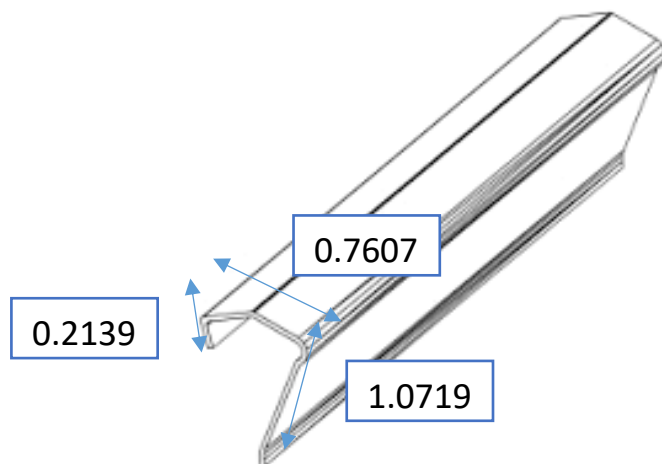
TDX Corner

- ❖ Corners used to complete the TDX flange connection is the Cornermatic Corner which is manufactured by Ductmate Industries.
- ❖ The corner is made out of 16 Gauge galvanized steel.
- ❖ It has a hole for 3/8" carriage bolt.
- ❖ Used to install into 26-18 gauge TDX flanges.



Cleats

- ❖ Cleats used in TDX flange connection is the Ductmate Versa Cleat.
- ❖ The cleat is snapped on between TDX connections when ductwork is installed.
- ❖ It is manufactured using 22 gauge galvanized steel.
- ❖ It is provided in union with the ductwork that requires a TDX connection.
- ❖ The cleat's opening has the following dimensions.
 - Height-1.0719"
 - Width- .7607"
 - Length-.2139"



4" W.G. STATIC POS. OR NEG.
(Galvanized Steel and Stainless Steel Ductwork)

| Duct Size | Duct Gauge | Joint Length | Wide Side Connector | Narrow Side Connector |
|-----------|------------|--------------|------------------------------------|------------------------------------|
| 0 - 10" | 26 | 59" | STANDING SLIP T-11 26 GA | FLAT DRIVE T-1 24 GA |
| 11 - 12" | 26 | 59" | T.D.C. T-25a | T.D.C. T-25a |
| 13 - 22" | 24 | 56" | T.D.C. T-25a | T.D.C. T-25a |
| 23 - 28" | 22 | 56" | T.D.C. T-25a | T.D.C. T-25a |
| 29 - 42" | 22 | 56" | T.D.C. W/ C.T.R. & J.T.R. T-25a | T.D.C. W/ C.T.R. & J.T.R. T-25a |
| 43 - 60" | 20 | 56" | T.D.C. W/ C.T.R. & J.T.R. T-25a | T.D.C. W/ C.T.R. & J.T.R. T-25a |
| 61- 72" | 20 | 56" | T.D.C. W/ 2 C.T.R & J.T.R T-25a | T.D.C. W/ 2 C.T.R & J.T.R T-25a |
| 73 - 96 " | 18 | 56" | T.D.C. W/ 2 C.T.R & J.T.R T-25a | T.D.C. W/ 2 C.T.R & J.T.R T-25a |
| 97 – 120" | 18 | 56" | T.D.C. W/ CENTER A.R & J.T.R T-25a | T.D.C. W/ CENTER A.R & J.T.R T-25a |

J.T.R – Joint Tie Rod.

C.T.R – Center Tie Rod.

A.R. – Angle Reinforcement.

Tie Rods are ½" EMT.

If MPT(Mid-point Tie Rods) are used, the reinforcement spacing is based on 2-1/2".



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6" W.G. STATIC POS. OR NEG.
(Galvanized Steel and Stainless Steel Ductwork)

| Duct Size | Duct Gauge | Joint Length | Wide Side Connector | Narrow Side Connector |
|-----------|------------|--------------|-------------------------------------|-------------------------------------|
| 0 - 8" | 26 | 59" | STANDING SLIP T-11 26 GA | FLAT DRIVE T-1 24 GA |
| 9 - 12" | 24 | 56" | T.D.C. T-25a | T.D.C. T-25a |
| 13 - 24" | 22 | 56" | T.D.C. T-25a | T.D.C. T-25a |
| 25 - 26" | 22 | 56" | T.D.C. T-25a | T.D.C. T-25a |
| 27 - 30" | 22 | 56" | T.D.C. W/ C.T.R. T- 25a | T.D.C. W/ C.T.R. T- 25a |
| 31 - 36" | 20 | 56" | T.D.C. W/ C.T.R. T- 25a | T.D.C.W/ C.T.R. T- 25a |
| 37 - 60" | 20 | 56" | T.D.C. W/ C.T.R. & J.T.R. T-25a | T.D.C. W/ C.T.R. & J.T.R. T-25a |
| 61 - 72" | 18 | 56" | T.D.C. W/ C.T.R. & J.T.R. T-25a | T.D.C. W/ C.T.R. & J.T.R T-25a |
| 73 - 84" | 18 | 56" | T.D.C. W/ 2C.T.R. & J.T.R. T-25a | T.D.C. W/ 2 C.T.R. &J.T.R. T-25a |
| 85 - 96" | 16 | 56" | T.D.C. W/ 2C.T.R. & J.T.R. T-25a | T.D.C. W/ 2 C.T.R. &J.T.R. T-25a |

J.T.R – Joint Tie Rod.

C.T.R – Center Tie Rod.

A.R. – Angle Reinforcement.

Tie Rods are ½" EMT.

If MPT(Mid-point Tie Rods) are used, the reinforcement spacing is based on 2-1/2".



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Slip & Drive Connection

Available Connections



Hemmed "S"



Standing "S"



Plain "S"



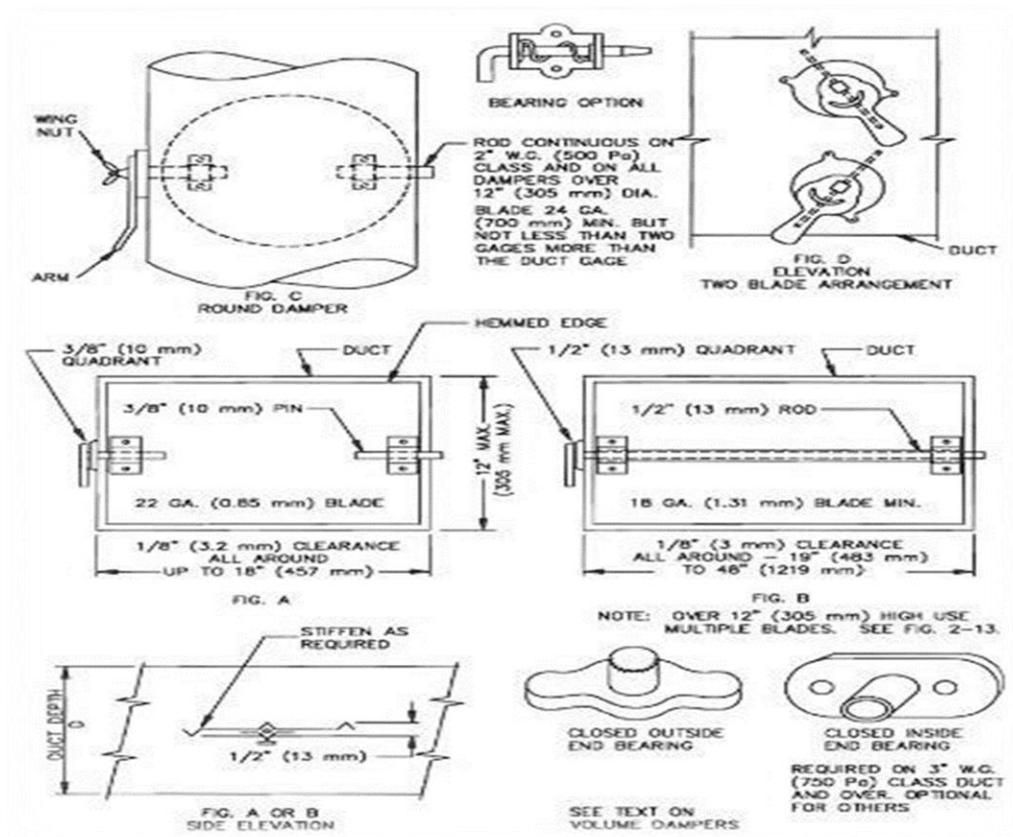
Drive Slip



- ❖ Slip and Drives are cut in accordance with the 3rd edition 2005 SMACNA Duct Construction Standards.
- ❖ Bundles of 10 are provided in accordance with the project or as requested by client.
- ❖ Rigid and leak-proof connection.
- ❖ Slips and drives are commonly cut at 3', 5', and 8' lengths.
- ❖ Are cut using 26 and 24 gauge galvanized metal.

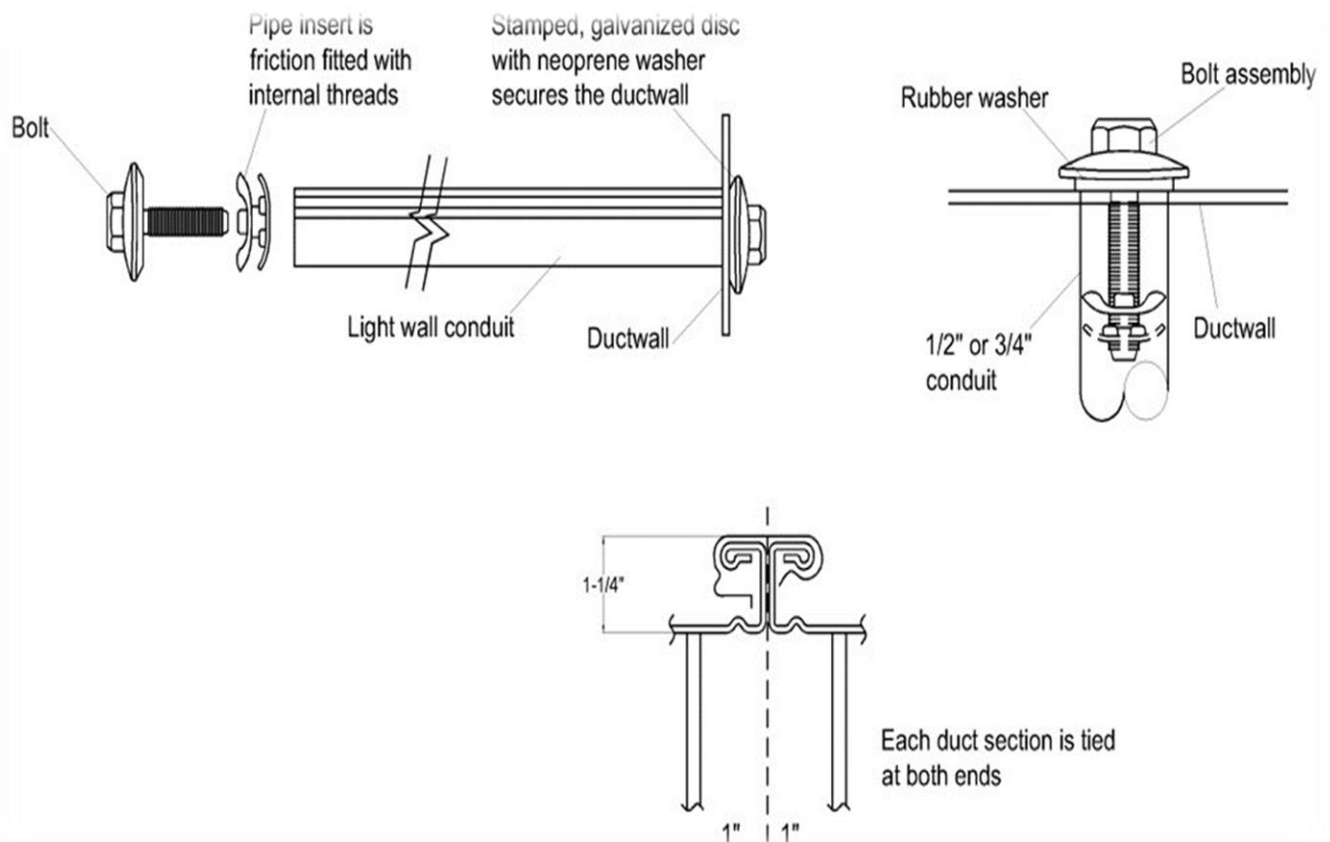
Volume Damper

- ❖ All fabricated volume dampers are in accordance with the requested sizes and types specified in project's plan.
- ❖ Damper blade is made using galvanized steel.
- ❖ Damper bearings is made out of stainless steel which causes it to have low friction which reduces the torque when turning the blade.
- ❖ The blade pin is made out of 0.040 aluminum.



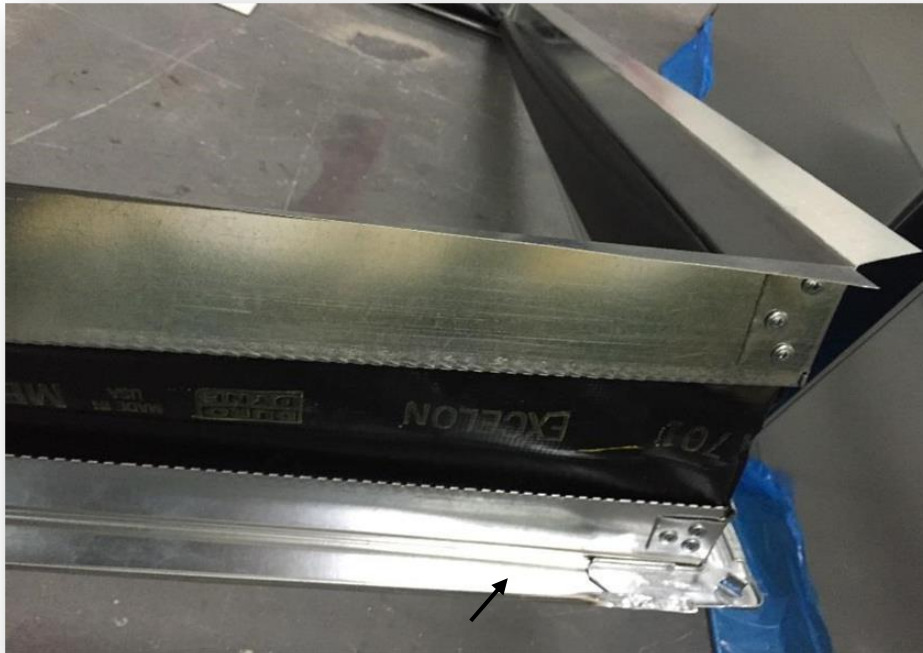
Tie Rod Reinforcement

- ❖ Tie rod is cut to length in accordance to the duct dimensions.
- ❖ Tie rod reinforcements are used for both mid panel and joint reinforcement.
- ❖ Tie rod are manufactured using $\frac{3}{4}$ " conduit with $\frac{5}{16}$ " threaded inserts at each end.
- ❖ All specifications regarding the implementation of the tie rod are conducted in accordance with the 3rd edition 2005 SMACNA Duct Construction Standards.

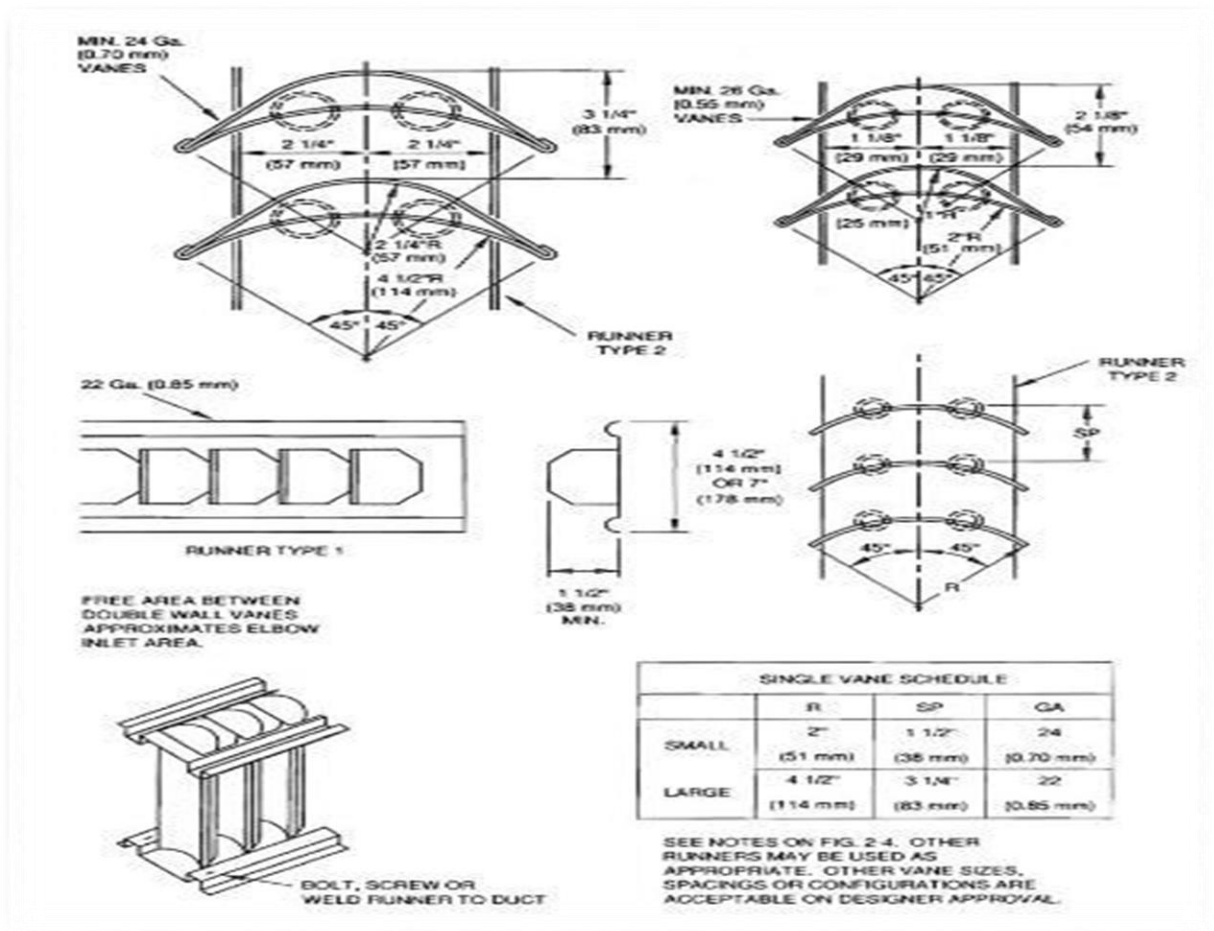


Flexible Duct Connector

- ❖ Fabricated using G-90 galvanized steel.
- ❖ Corners are clinched to completely conform the connector.
- ❖ TDX and slip & drive connections are available in accordance with requests.
- ❖ Fabric used is Excelon and meets NFPA-90A and NFPA-90B.
- ❖ Flexible duct has a flame retardant coating and has a waterproof seal.
- ❖ Fabric has a high tear strength and high abrasion.

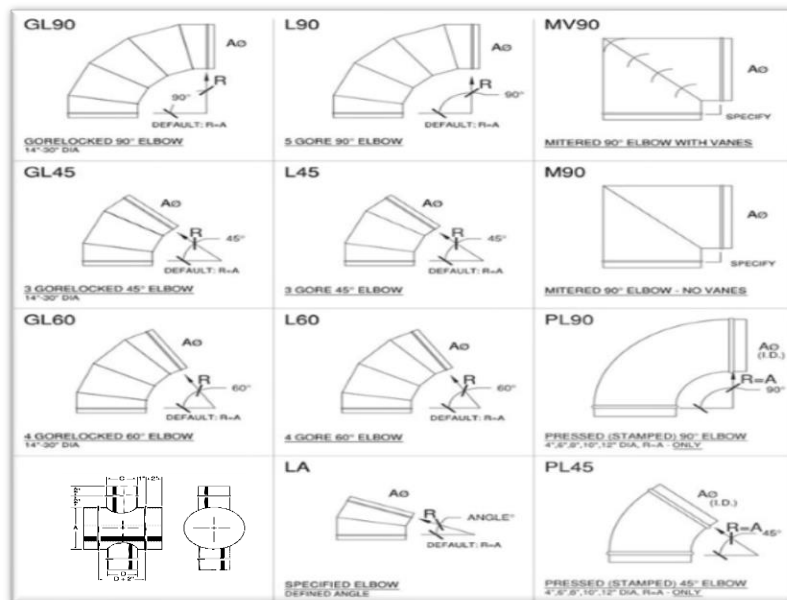


Turning Vanes



Spiral Duct: Single Wall

- ❖ Pipe and fittings are fabricated using G-90 galvanized steel in accordance with 3rd edition 2005 SMACNA Duct Construction Standards.
 - **Pipe**
 - Spiral lock-seam on sizes 3”-64”.
 - **Fittings**
 - Elbows will have a radius of 1.5 x standard diameter.
 - Available in 5-90 degrees.
 - All fittings will have a standing seam using a gore lock.



Up to 10” W.G. Positive Pressure
(Single Wall)

| Duct Diameter | Pipe Gauge | Fittings Gauge | Pipe Length |
|---------------|------------|----------------|----------------------|
| 3-16” | 26 | 24 | 10’ or cut to length |
| 17-18” | 24 | 24 | 10’ or cut to length |
| 19-22” | 24 | 22 | 10’ or cut to length |
| 24-26” | 24 | 22 | 10’ or cut to length |
| 28-36” | 22 | 20 | 10’ or cut to length |
| 38-50” | 20 | 20 | 10’ or cut to length |
| 52-64” | 18 | 18 | 10’ or cut to length |



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