### Single Wall Round Submittal

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Engineer:</th>
<th>Contractor:</th>
</tr>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Section Number:</th>
<th>Date Submitted:</th>
<th>Date Approved:</th>
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<tbody>
<tr>
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</table>

**Pressure Class:**
- 2005 Up to 10” wg
- 1995 2” wg pos
- 1995 4” wg pos
- 1995 10” wg
- 2005 neg WG: _____
- 1995 neg WG: _____
- Underground
- Special Gauge Per Spec

**Material Type:**
- G60
- G90
- Paint Grip
- Aluminum
- 304L SS
- 316L SS
- 4 x 1 Coated
- 4 x 4 Coated

**Connections:**
- Couplings
- Gasket 24” max
- Spiral Flange
- Vanstone Angle Ring
- Welded Angle Ring
- Weld Flange
- Raw Butt Weld

**Pipe Construction:**
- Spiral Lock Seam
- Long Seam Welded
- Acme Lock

**Construction:**
- Gore Lock / Spot & Seal
- Continuously Welded

**Single:**
- Single Wall

**Misc:**
- Access Doors at FD
- Reducers at VAV Boxes
- Single Low Pressure Dampers

**Grille Boxes:**
- 4” Standard
- 4” Std with 1” liner
- 4” Std Double Wall
- 45 deg entry
- 45 deg entry with 1” liner
- 45 deg entry Double Wall

**Tee / Saddle:**
- Full Body Fittings
- Loose Saddle Taps
- Manifold Saddle Taps

**Tap Type:**
- Straight Taps
- Conical Taps
- Combination Taps
- Lateral Tap

**Installation:**
- Installed
- Loose
- Slot Only

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### Additional Comments:

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**Precision Duct Systems**
4570 Commerce Cir SW  •  Atlanta, GA 30336
Phone (404) 505-2542
Spiral Pipe

All pipe is fabricated from hot-dipped G90 galvanized steel in gauges that meet or exceed SMACNA standards for spiral ducts. The following chart illustrates approximate weights for spiral pipe. Areas in grey represent fabrication minimum gauges.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>26 Ga (lbs/ft)</th>
<th>24 Ga (lbs/ft)</th>
<th>22 Ga (lbs/ft)</th>
<th>20 Ga (lbs/ft)</th>
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</thead>
<tbody>
<tr>
<td>6”</td>
<td>1.6</td>
<td>2.0</td>
<td>2.5</td>
<td>3.3</td>
</tr>
<tr>
<td>8”</td>
<td>2.1</td>
<td>2.8</td>
<td>3.3</td>
<td>3.3</td>
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<tr>
<td>10”</td>
<td>2.6</td>
<td>3.4</td>
<td>4.2</td>
<td>4.2</td>
</tr>
<tr>
<td>12”</td>
<td>3.2</td>
<td>4.1</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>14”</td>
<td>3.7</td>
<td>4.8</td>
<td>5.8</td>
<td>5.8</td>
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<tr>
<td>16”</td>
<td>4.3</td>
<td>5.5</td>
<td>6.6</td>
<td>6.6</td>
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<tr>
<td>18”</td>
<td>4.9</td>
<td>6.1</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>20”</td>
<td>5.2</td>
<td>6.8</td>
<td>8.3</td>
<td>8.3</td>
</tr>
<tr>
<td>22”</td>
<td>5.5</td>
<td>7.5</td>
<td>9.1</td>
<td>9.1</td>
</tr>
<tr>
<td>24”</td>
<td>6.2</td>
<td>8.2</td>
<td>9.9</td>
<td>9.9</td>
</tr>
<tr>
<td>26”</td>
<td>8.9</td>
<td>10.8</td>
<td>12.3</td>
<td>12.3</td>
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<tr>
<td>28”</td>
<td>9.5</td>
<td>11.6</td>
<td>13.3</td>
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</tr>
<tr>
<td>30”</td>
<td>10.2</td>
<td>12.4</td>
<td>14.0</td>
<td>14.0</td>
</tr>
<tr>
<td>32”</td>
<td>10.9</td>
<td>13.3</td>
<td>15.0</td>
<td>15.0</td>
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<tr>
<td>34”</td>
<td>11.6</td>
<td>14.1</td>
<td>16.1</td>
<td>16.1</td>
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<td>36”</td>
<td>12.3</td>
<td>14.9</td>
<td>18.2</td>
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<tr>
<td>38”</td>
<td></td>
<td></td>
<td>19.2</td>
<td></td>
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<tr>
<td>40”</td>
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<td>42”</td>
<td></td>
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<td>21.3</td>
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<tr>
<td>44”</td>
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<td>22.4</td>
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<td>46”</td>
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<td></td>
<td>23.4</td>
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<tr>
<td>48”</td>
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<td>24.5</td>
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<tr>
<td>50”</td>
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<td>25.5</td>
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SMACNA Gauge Requirements for Round Duct Spiral Seam Unreinforced Positive Pressure*

<table>
<thead>
<tr>
<th>Max Diameter</th>
<th>+2 W.G.</th>
<th>+4 W.G.</th>
<th>+10 W.G.</th>
<th>Precision Duct</th>
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<tbody>
<tr>
<td>6”</td>
<td>28 Ga</td>
<td>28 Ga</td>
<td>28 Ga</td>
<td>26 Ga</td>
</tr>
<tr>
<td>8”</td>
<td>28 Ga</td>
<td>28 Ga</td>
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<td>26 Ga</td>
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<tr>
<td>10”</td>
<td>28 Ga</td>
<td>28 Ga</td>
<td>28 Ga</td>
<td>26 Ga</td>
</tr>
<tr>
<td>12”</td>
<td>28 Ga</td>
<td>28 Ga</td>
<td>28 Ga</td>
<td>26 Ga</td>
</tr>
<tr>
<td>14”</td>
<td>28 Ga</td>
<td>26 Ga</td>
<td>26 Ga</td>
<td>26 Ga</td>
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<td>16”</td>
<td>26 Ga</td>
<td>26 Ga</td>
<td>24 Ga</td>
<td>24 Ga</td>
</tr>
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<td>18”</td>
<td>26 Ga</td>
<td>24 Ga</td>
<td>24 Ga</td>
<td>24 Ga</td>
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<td>19”-26”</td>
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<td>28”-36”</td>
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<td>22 Ga</td>
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<td>38”-50”</td>
<td>22 Ga</td>
<td>20 Ga</td>
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<td>20 Ga</td>
</tr>
<tr>
<td>52”-60”</td>
<td>20 Ga</td>
<td>18 Ga</td>
<td>18 Ga</td>
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</table>

Connection Types

All fittings are made standard as male size (1/8” smaller) for slip fit into standard spiral ducts except for female coupling, which is made female size equivalent to standard spiral ducts. Fittings come standard unsealed, with sealing available on request. Fittings are fabricated from hot-dipped G90 galvanized steel that meets or exceeds SMACNA standards. Elbows, unless otherwise specified, are fabricated with centerline radius equal to 1-1/2 times the duct diameter. 90° and 45° elbows 5” diameter and smaller are of die-stamped construction. 90° elbows 6” diameter and larger are of 5-piece segmented construction. 45° elbows 6” diameter and larger are of 3-piece segmented construction. Elbow fittings are fabricated with segmented standing seam construction for maximum rigidity, durability, and air-tightness. Fittings are standard fabricated (but not limited to) the following chart:

<table>
<thead>
<tr>
<th>Max Diam</th>
<th>+2 W.G.</th>
<th>+4 W.G.</th>
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<td>28 Ga</td>
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<td>28 Ga</td>
<td>24 Ga</td>
</tr>
<tr>
<td>8”</td>
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<td>16”</td>
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<td>18”</td>
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<td>22 Ga</td>
<td>24 Ga</td>
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<tr>
<td>19”-24”</td>
<td>24 Ga</td>
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<td>22 Ga</td>
<td>24 Ga</td>
</tr>
<tr>
<td>25”-28”</td>
<td>22 Ga</td>
<td>20 Ga</td>
<td>20 Ga</td>
<td>22 Ga</td>
</tr>
<tr>
<td>29”-50”</td>
<td>20 Ga</td>
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Connection Types

Slip-Fit Connection  Van Stone (Pipe)  Van Stone (Fitting)  Welded Ring

Elbows

One-Piece Welded 90°  Five-Piece Gored 90°  Five-Piece Gored 90° With Tap

One-Piece Welded 45°  Three-Piece Gored 45°  Three-Piece Gored 45° With Tap

Three-Piece Gored 60°  Two-Piece Gored 30°

Centerline Radius = 1.5 x Diameter with 2" Straight After Bead
28" Diam. And Up Come Standard As (2) 45° Elbows With Connector. When Necessary, Specify As One Fitting
Single Wall Round Submittal

Reducers

Concentric
Length = Diam Change (minimum 4"), 2" Collars

Eccentric
Length = 2 x Diam Change (minimum 4"), 2" Collars

Standard Fitting Type Is Concentric. Specify All Diameters And Changes If Not Concentric.

Tees

Straight Tee

Straight Reducing Tee

Conical Tee

Conical Reducing Tee

Straight Tee
Bullhead w/ TV

Straight Reducing Tee
Bullhead w/ TV

Lateral Tee

Lateral Reducing Tee

Combination Tee

Combination Reducing Tee

Specify All Diameters And Tee Type When Ordering
Branch Roots Are 2" Long, With 2" Collars
Standard Fitting Type Is Straight Tee, With Reducing Coupling (If Necessary)

Precision Duct Systems
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Phone (404) 505-2542
Specify All Diameters And Type When Ordering
Branch Roots Are 2” Long, With 2” Collars
Standard Fitting Type Is Straight Cross With Reducing Coupling (If Necessary)
Single Wall Round Submittal

Round Taps

Specify Type and Diameter When Ordering
Standard Type is Straight Tap
Straight Tap Is Precision Span One-Piece Tap
Conical, Lateral, and Combination Taps Are Fabricated Saddle-Type With 2” Flange

Rectangular Taps

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Single Wall Round Submittal

Square to Round

Specify Depth, Width, Length, And Diameter When Ordering
When Not Concentric, Supply Sketch
Length 12” Overall Standard Unless Dimensions Prohibit

Offset

Offset Length = 0.5 x Diam. + 2 x Set (Unless Size Prohibits)
Overall Length = Offset Length + 7” (3.5” Straight), 2” Collars
Specify All Lengths And Diameters When Ordering

Connectors & Caps

Male connector = Spiral Slip fit, 4” Long
Female connector = Normal Fit, 4.5” Long
End Cap = Spiral Slip fit, 2” Long
Starting Collar = Spiral Slip fit, 2” Long, 1” Tabs

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