New Innovative Product Solutions

Gecko Glue™ Gold & Silver
New innovative duct liner adhesives
Pages 46-47

Press-On Inner Rings
Simplifies installation of double wall Spiralmate® and Econoflange™.
Page 18

Universal Press-On Bullnosing
Available for 1", 1½", & 2" insulation on & all rectangular duct profiles.
Page 6

Ductmate 45
Newly improved to accept carriage bolts and 10 gauge duct.
Page 4

LA Approve PROflex
Newly improved to exceed strict flame and smoke specifications of LA.
Page 14
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**LIMITED PRODUCT WARRANTY**

Ductmate warrants that the products in this catalog, when properly installed and maintained, will be free from defects in material and workmanship, and will comply with all written specifications made by Ductmate at the time of sale. Ductmate’s warranty shall run for a period of one year from the date of manufacture.

**Warranty Limitation**
The warranty stated above is in lieu of all other warranties, express or implied, including but not limited to the implied warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Although Ductmate may have suggested the product, or provided written or oral advice to the Purchaser, it is the Purchaser’s responsibility to test and determine the suitability of the products in this catalog for the intended use and purpose, and Purchaser and/or its customer assumes all risk and liability whatsoever regarding such suitability.

**Limitation of Liability**
In the event of a breach of the above warranty, Ductmate’s sole obligation, and Purchaser’s sole and exclusive remedy, shall be, at Ductmate’s option, repair or replacement of any defective products, or refund of an applicable portion of the purchase price. Ductmate shall have no liability for costs of removal or reinstallation of the product. The Purchaser agrees that no other remedy, including but not limited to loss of profits, loss sales, injury to person or property, or any other special, incidental or consequential damages, shall be available to the Purchaser for any claim arising out of this Agreement, regardless of whether such claim is made in contract or in tort, including strict liability in tort. In no event will Ductmate be obligated to pay damages to the Purchaser in any amount exceeding the purchase price that the Purchaser paid to Ductmate for the allegedly defective product.

**IMPORTANT INFORMATION**

California Proposition 65

At Ductmate Industries we are working toward full compliance with The Safe Drinking Water and Toxic Enforcement Act of 1986 (CA Prop. 65). To meet CA Prop. 65 requirements, Ductmate has engaged all our raw material and component suppliers in order to identify any declarable substances in our products that would trigger labeling requirements or updated SDS.

To date, we have identified declarable substances in products that require additional labeling and/or updated SDS. Updated SDS documents can be found online at [http://ductmate.com/prop65](http://ductmate.com/prop65) for the products listed below. Prop 65 information is located in Section 15 of the document. These updated documents are also available on each individual product page on ductmate.com.

All Products Made From Galvanized Steel, PROseal, PROseal Spray, FIBERseal, EVERseal, EZSeal, SOLSeal, Geico Glue Products, 5511M, LagIt, and SLS

As you are undoubtedly aware, CA Prop. 65 is a dynamic regulation that frequently has substances added, new guidance documentation released, and is impacted by frequent changes to the case law due to ongoing litigation. Consequently, Ductmate Industries intends to conduct ongoing due diligence and invites you to inquire from time to time concerning updates and changes that might have impacted this declaration.

This catalog is printed using recycled and Sustainable Forestry Initiative (SFI) Certified fibers.
The Ductmate® Advantage

DUCTMATE REPUTATION & CERTIFIED QUALITY ASSURANCE
Every Ductmate product is specially designed and engineered to perform a specific function. Structural integrity, proven performance, and added value are built right in. Strict tolerances and high quality control standards are the fundamental principles in our manufacturing guidelines. We are also committed to providing the sheet metal industry with new cutting edge products and technology to increase your productivity and profits in this highly competitive industry.

ENGINEERING ASSISTANCE
Our engineering department will work with you to design and engineer the best possible solution to those difficult or unusual systems. Whether you’re dealing with high winds, snow loads, excessive pressures, specialty alloys, or critical air systems, we’ve dealt with virtually every difficult and unusual duct application you may encounter.

ASSEMBLY AND INSTALLATION TRAINING
Using one of our connector systems for the first time? Have new or additional manpower for a project? Facing a “super tight” spec? Our technicians are available for comprehensive hands-on product training at both your shop and job-site upon request. We also offer detailed assembly and installation videos and manuals, all to help ensure that the system is installed correctly—right from the start!

DUCTMATE SOLID TECHNICAL SUPPORT
Answers to your questions or problems as they occur are only a phone call away. Our engineering and technical assistance department will back up their information with test results and technical data you need to solidify your position as the HVAC expert on-site. Whenever you have a difficult or critical HVAC project, We can provide the kind of technical assistance that can give you a strong competitive edge when you’re bidding, fabricating, and installing. For those unusual, challenging, or downright difficult projects, Ductmate’s trained specialists can back up your personnel in several key areas. We are committed to providing you with the quality and service you expect and deserve when using any Ductmate product.

FOR MORE INFORMATION OR TO ACCESS OUR SUPPORT TEAM, CALL
1 - 800 - 245 - 3188 or visit us online at www.ductmate.com.
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**Important Notes:**
- Product & material availability chart is a reference guide only and availability, lead times and minimum order quantities may fluctuate or change without notice.
- Due to the large number of model options available in each product category, not all models are available in special alloys. Please consult factory for suitable product substitutions.
- Consult factory on large orders and projects.
- Refer to product page for additional product information.
- PVC coated Sandwich access door are available in uninsulated models only.
- 24" x 18" Sandwich access doors are only available in galvanized and 316SS.
**THE DUCTMATE System Components:**

**NO-BOLT CORNER**
Common to ‘25’/‘35’™ Systems

Tab locks into notch on Corner Piece

1¼”
32mm

**UNIVERSAL PRESS-ON BULLNOSING**

Ductmate Flange or T.D.C./T.D.F.

3/4”

Duct Wall

Insulation

A=1”, 1.5”, or 2”

Press-On Bullnosing

**DUCTMATE®**
THE DUCTMATE ‘25’ ‘35’ & ‘45’
SLIDE-ON CONNECTOR SYSTEMS

MONEY SAVING VALUE ADDED FEATURES

- AIR TIGHT
- NO ADDED SEALING
- CLEAN APPEARANCE
- USED AS AN ARCHITECTURAL FEATURE
- RIGOROUSLY TESTED
- STRONG EQUAL TO SMACNA F, J, AND K
- INCREASES STRUCTURAL INTEGRITY OF DUCT
- SUBSTANTIAL SAVINGS ON DUCT GAUGES & REINFORCEMENTS
- COST EFFECTIVE AT 1” STANDING-S OR HEAVIER WHEN SEALING IS REQUIRED & ALL FACTORS CONSIDERED
- CAN BE SHIPPED K.D. TO JOB SITES
- QUICK & SIMPLE TO INSTALL
- EXCLUSIVE NO-BOLT & DOWN SET CORNER SYSTEMS ON 25 & 35 SYSTEMS
- UNIVERSAL BULL NOSING ELIMINATES SHOP FABRICATION
- ENGINEERING & TECHNICAL SUPPORT
- INSTALLATION VIDEOS & MANUALS
- DETAILED DUCT CONSTRUCTION TABLES & SKETCHES
- INSTALLATION INFORMATION AVAILABLE FOR VIRTUALLY ANY APPLICATION

**Ductmate Gaskets**
Ductmate 440™ Butyl & Neoprene See pg. 47

**CLEATER TOOLS**
Ideal tools for attaching any type of cleat to a Flange Joint where spacing is not a consideration. Use the Cleater 1 & 2 in conjunction with Ductmate Metal Cleat. Use the Versa-Cleater in conjunction with Ductmate Versa Cleat. Use the Snapper 1 Tool in conjunction with W.D.C.I. and T.D.C./T.D.F. Cleats

**VERSA Cleat**

**Metal Cleat**

**PVC Cleat**

**Bolt On Cleat**

**CORNER ALIGNMENT TOOL**
Modified vise grip can facilitate installation of corner clips

**AG2000**
DUCTMATE RECTANGULAR SYSTEMS SPECIFICATIONS

TECHNICAL DATA
The characteristics of a particular duct connection or joint are usually referenced to the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Manuals. SMACNA encourages the use of new technology, but does not endorse proprietary products. The Ductmate ‘45’, ‘35’ and ‘25’ Systems have been tested in accordance with SMACNA procedures with no external sealant employed. The tests reveal: the Ductmate ‘45’ Systems are comparable to the SMACNA Class “K” transverse joint, the Ductmate ‘35’ Systems are comparable to the SMACNA Class “J” transverse joint and the Ductmate ‘25’ Systems are comparable to the SMACNA Class “F” joint.

Virtually no leakage at up to 10” WG positive pressure or down to 10” WG negative pressure. Consult Ductmate for static pressures exceeding these specifications. Complete test data is available upon request.

LIMITATIONS
The Ductmate ‘45’ System is not recommended for applications with duct gauges heavier than 10 GA. or lighter than 22 GA. The Ductmate ‘35’ System is not recommended for applications with duct gauges heavier than 16 GA. or lighter than 26 GA. The Ductmate ‘25’ System is not recommended for applications with duct gauges heavier than 20 GA. or lighter than 26 GA.

COMPOSITION AND MATERIALS
The Ductmate Systems consist of the following components:

a. Ductmate ‘45’ Angle is roll-formed from 18 GA. galvanized steel with an integral sealant.

b. Ductmate ‘35’ Angle is roll-formed from 20 GA. galvanized steel, with an integral sealant.

c. Ductmate ‘25’ Angle is roll-formed from 24 GA. galvanized steel, with an integral sealant.

d. Ductmate Corner Pieces inserted into the hollow web of the Ductmate Angle. See drawing on page 7 for corner styles.

e. Metal Cleat is roll-formed from 20 GA. galvanized steel. (PVC Cleat is available upon request).

f. Ductmate ‘45’ VersaCleat is roll-formed from 22 GA. galvanized steel.

g. Also available: optional Ductmate ‘45’ bolt-on cleat, roll-formed from 11 GA. electroplate galvanized steel.

h. Gasket is extruded butyl for use between mating flanges. (Neoprene gasket is available upon request).

i. Corner Clips are 16 GA. galvanized steel. (Use of nuts and bolts optional: 3/8” x 1” for DCIIIB, 5/16” x 1” for Ductmate DC25 Corner).

DIMENSIONS
Refer to drawings on page 7.

APPLICABLE STANDARDS
Angle Steel: ASTM-A-653 G 60/90
Corner Steel: ASTM A-653 G 60/90
Mastic: Ductmate 5511M
Gasket: Ductmate 440™

TECHNICAL SERVICES
Detailed assembly and installation instructions, and videos showing step-by-step procedures, are available from the manufacturer and on the Ductmate website. Factory trained personnel are available upon request, at no charge to instruct new customers in the use of the Ductmate Systems.

GUARANTEES
All component parts of the Ductmate Systems are guaranteed against defective material.

DUCTMATE SNAP-ON CLEAT

PVC CLEAT*
Polyvinyl chloride (PVC) is an organic polymer derived from petroleum and salt.

Performance Properties:
- Relatively high ignition resistance:
  - Flash ignition 391°C/735°F
  - Self ignition 454°C/850°F
- Low fuel contribution
- Lack of flaming drips
- High external heat necessary to maintain combustion
- UL94-Passes
- UL723 (ASTM E-84) Test Data:
  - Flame Spread: 10
  - Fuel Contribution: 0
  - Smoke Density: 10
- Service Temp: +32°F to +150°F

PVC Cleat is used around perimeter of transverse joint.
* Not recommended for outdoor applications. For applications involving chemicals, consult factory.

METAL CLEAT
DM® Metal Cleat is roll-formed 20 GA. galvanized steel for application around perimeter of transverse joint. (See installation manual for correct usage).

BOLT ON CLEAT
Ductmate Bolt-On Cleat is ideal for all flange applications including DM 25/35/45.

Part Number:
D45CGA
200pcs/box
# Ductmate Rectangular Systems Part Numbers

## How to Order A Complete Ductmate Rectangular Duct Connection System:

### Table 1: Ductmate Rectangular Connection System Components:

<table>
<thead>
<tr>
<th>Ductmate Flange</th>
<th>Compatible Corner(s)</th>
<th>Standard Bundle Sizes*</th>
<th>Cleat</th>
<th>Gasket**</th>
<th>Available Alloys*** (for flange, corners, &amp; cleat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D45 - 18 ga.</td>
<td>D45C - 11 ga.</td>
<td>(10) 1,000 LF</td>
<td>D6C 6&quot; Metal Cleat (500 Pcs. @ 45 lbs/carton)</td>
<td>440 3/16&quot; x 1&quot; x 25' DM45 Butyl Gasket (400' @ 50 lbs/carton)</td>
<td>GA = Galvanized</td>
</tr>
<tr>
<td>Ductmate '45'</td>
<td>D35 - 12 ga.</td>
<td>(50) 500 LF</td>
<td>D10C 10&quot; Metal Cleat (100' per bundle)</td>
<td>NEO 5/16&quot; x 1&quot; x 50' DM45 1&quot; Neoprene Gasket (1000' @ 23 lbs/carton)</td>
<td>GN = Galvanneal</td>
</tr>
<tr>
<td>(1.07 LB per LF)</td>
<td></td>
<td></td>
<td></td>
<td>440 3&quot; x 2&quot; x 1/8&quot; Butyl Gasket Patches (512 patches/carton)</td>
<td>AL = Aluminum (Except Cleat)</td>
</tr>
<tr>
<td>D35 - 20 ga.</td>
<td>D3A - 16 ga.</td>
<td>(10) 1,000 LF</td>
<td>D6C 6&quot; Metal Cleat (500 Pcs. @ 45 lbs/carton)</td>
<td>440 3/16&quot; x 5/8&quot; x 25' Butyl Gasket (500' @ 45 lbs/carton)</td>
<td>AZ = Aluminized</td>
</tr>
<tr>
<td>Ductmate '35'</td>
<td>D3B - 16 ga.</td>
<td>(15) 1,500 LF</td>
<td>D8PVC 6&quot; Solid PVC Cleat (500 Pcs. @ 18 lbs/carton)</td>
<td>440 3&quot; x 2&quot; x 1/8&quot; Butyl Gasket Patches (512 patches/carton)</td>
<td>S4 = 304 Stainless</td>
</tr>
<tr>
<td>(.7 LB per LF)</td>
<td>DC35 - 12 ga.</td>
<td>(20) 2,000 LF</td>
<td>D10PVC 10&quot; Solid PVC Cleat (100' per bundle)</td>
<td>NEO 5/16&quot; x 3/4&quot; x 50' Neoprene Gasket (750' @ 15 lbs/carton)</td>
<td>S6 = 316 Stainless</td>
</tr>
<tr>
<td></td>
<td>BD35 - 12 ga.</td>
<td>(30) 3,000 LF</td>
<td>D45CBA Optional DM45 Bolt-On Cleat (200 Pcs. @ 25.6 lbs/carton)</td>
<td>6&quot; PVC Gaskets available in exact quantities</td>
<td>PVC = PVC Coated</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>440 3/16&quot; x 5/8&quot; x 25' Butyl Gasket (500' @ 45 lbs/carton)</td>
<td>BI = Black Iron</td>
</tr>
<tr>
<td>D25 - 24 ga.</td>
<td>DJR - 16 ga.</td>
<td>(10) 1,000 LF</td>
<td>D6C 6&quot; Metal Cleat (500 Pcs. @ 45 lbs/carton)</td>
<td>440 3/16&quot; x 5/8&quot; x 25' Butyl Gasket (500' @ 45 lbs/carton)</td>
<td>(D25 = Galvanized Only)</td>
</tr>
<tr>
<td>Ductmate '25'</td>
<td>D3B - 16 ga.</td>
<td>(15) 1,500 LF</td>
<td>D6C 6&quot; Metal Cleat (500 Pcs. @ 45 lbs/carton)</td>
<td>440 3/16&quot; x 5/8&quot; x 25' Butyl Gasket (500' @ 45 lbs/carton)</td>
<td>(D25 = Galvanized Only)</td>
</tr>
<tr>
<td>(.4 LB per LF)</td>
<td>DBJR - 16 ga.</td>
<td>(20) 2,000 LF</td>
<td>D8PVC 6&quot; Solid PVC Cleat (500 Pcs. @ 18 lbs/carton)</td>
<td>440 3&quot; x 2&quot; x 1/8&quot; Butyl Gasket Patches (512 patches/carton)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(30) 3,000 LF</td>
<td>D10PVC 10&quot; Solid PVC Cleat (100' per bundle)</td>
<td>NEO 5/16&quot; x 3/4&quot; x 50' Neoprene Gasket (750' @ 15 lbs/carton)</td>
<td></td>
</tr>
</tbody>
</table>

* Consult distributor on minimum ordering requirements
** 440 Butyl Gasket is recommended for standard H.V.A.C. systems
*** Specialty alloys available in exact quantities

### Ductmate Flange Part No. Key

**EXAMPLE:** D3530GA

<table>
<thead>
<tr>
<th>Profile Size*</th>
<th>Bundle Size</th>
<th>Alloy*</th>
</tr>
</thead>
<tbody>
<tr>
<td>D35 = Ductmate '35' Flange</td>
<td>30 = 3000'</td>
<td>GA = Galvanized</td>
</tr>
</tbody>
</table>

* Please see Table 1 above for all available profile sizes and alloys

### Ductmate Corners Part No. Key

**EXAMPLE:** D3BGA

<table>
<thead>
<tr>
<th>Corner Type*</th>
<th>Corresponding Flange</th>
<th>Gauge</th>
<th>Clip / Bolt</th>
<th>Pkg. Quantity</th>
<th>Pkg. Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC45™</td>
<td>DM45™</td>
<td>11</td>
<td>Requires ½&quot; Bolt (Not Included)</td>
<td>100 / Carton</td>
<td>33 lbs. / Carton</td>
</tr>
<tr>
<td>D3A</td>
<td>DM35®</td>
<td>16</td>
<td>Requires ¼&quot; Carriage Bolt (Not Included)</td>
<td>250 / Carton</td>
<td>40 lbs. / Carton</td>
</tr>
<tr>
<td>D3B</td>
<td>DM35®</td>
<td>16</td>
<td>Corner Clip Included w/Order *</td>
<td>250 / Carton</td>
<td>43 lbs. / Carton</td>
</tr>
<tr>
<td>DC35™</td>
<td>DM35®</td>
<td>12</td>
<td>Requires ¾&quot; Carriage Bolt (Not Included)</td>
<td>200 / Carton</td>
<td>43.8 lbs. / Carton</td>
</tr>
<tr>
<td>BDC35</td>
<td>DM35®</td>
<td>12</td>
<td>¾&quot; Carriage Bolt Included w/Order †</td>
<td>200 / Carton</td>
<td>49.8 lbs. / Carton</td>
</tr>
<tr>
<td>DJR™</td>
<td>DM25™</td>
<td>16</td>
<td>Corner Clip Included w/Order *</td>
<td>250 / Carton</td>
<td>34 lbs. / Carton</td>
</tr>
<tr>
<td>DBJR</td>
<td>DM25™</td>
<td>16</td>
<td>Nut &amp; Bolt Included</td>
<td>250 / Carton</td>
<td>30 lbs. / Carton</td>
</tr>
</tbody>
</table>

* Please see Table 1 above for all available corner types and alloys
† Extra Corner Clips are also available: Part No. DCLPGABX
‡ Extra Carriage Bolts are also available: Part No. CBGA

### Universal Press-On Bullnosing Part No. Key

**EXAMPLE:** BN1GA

<table>
<thead>
<tr>
<th>Bullnosing</th>
<th>Size</th>
<th>Alloy*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BN = Bullnosing</td>
<td>1&quot;</td>
<td>GA = Galvanized</td>
</tr>
<tr>
<td>10’ Length</td>
<td>1.5 = 1 ½&quot;</td>
<td></td>
</tr>
<tr>
<td>100’ Bundles</td>
<td>2 = 2&quot;</td>
<td></td>
</tr>
</tbody>
</table>

* Please see Table 1 above for all available bullnosing sizes and alloys

### Ductmate Corners Ordering Information

- **DC45™**
- **D3A**
- **D3B**
- **DC35™**
- **BDC35**
- **DJR™**
- **DBJR**

* Please see Table 1 above for all available corner types and alloys
ESTIMATING DUCTMATE ‘25’ ‘35’ & ‘45’ COMPONENTS

FLANGES ESTIMATING FORMULA: Per Duct Size \(\left(\frac{W + H}{3}\right) \times \#\) of Duct Sections.

Add Requirement For Each Size To Determine Total Flange Needed.

Example: Duct size 40” x 30” @ 60 joints.
\[
\left(\frac{40 + 30}{3}\right) \times 60 = 1400 \text{ of Flange.}
\]

CORNERS: Approx. (1) corner for every (3 ft) of flange = 1400 \div 3 = 467 (250 pcs/box)
CLEAT: Approx. (6") of cleat for every (4") of flange = 1400 \div 4 = 350 (6” ea @ 250 ft/ctn or 500 pcs)
GASKETING: Approx. 1 lf per 2 lf of Flange = 1400 \div 2 = 700’ (20 rolls @ 25’ per roll or 500 lf per ctn)

SAMPLE ORDER:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
<th>Total Required</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Bundle</td>
<td>D3515GA</td>
<td>Ductmate ‘35’</td>
<td>1500 ft.</td>
<td>1035 lbs.</td>
</tr>
<tr>
<td>(2) Box</td>
<td>D3BGA</td>
<td>No-Bolt Corners</td>
<td>500 pcs.</td>
<td>86 lbs.</td>
</tr>
<tr>
<td>(1) Box</td>
<td>D6CGA</td>
<td>6” Metal Cleat</td>
<td>500 pcs.</td>
<td>45 lbs.</td>
</tr>
<tr>
<td>(2) Box</td>
<td>440 3/16” x 5/8”</td>
<td>440 Butyl Gasket</td>
<td>1000 lf.</td>
<td>90 lbs</td>
</tr>
</tbody>
</table>

NOTE COMPONENT QUANTITIES WILL VARY WITH SIZE OF DUCT.
W.D.C.I. RECTANGULAR DUCT CONNECTOR SYSTEMS

The W.D.C.I. System
Includes:
440 Butyl Gasket

A non-hardening butyl rubber tape with superior sealing and adhesive qualities for a permanent, leak-proof W.D.C.I. connection.

Snap-On Cleat
(Common to ‘J’ & ‘H’ Systems)

PVC Cleat
Metal Cleat

Bolt-On Cleat

SNAPPER 1
Ideal tool for attaching cleat to W.D.C.I. Flange Joint.

Universal Press-On Bullnosing

THE W.D.C.I. ‘J’ & ‘H’ SLIDE-ON CONNECTORS

MONEY SAVING VALUE ADDED FEATURES

- AIR TIGHT
- NO ADDED SEALING
- CLEAN APPEARANCE
- USED AS AN ARCHITECTURAL FEATURE
- RIGOROUSLY TESTED
- STRONG
- INCREASES STRUCTURAL INTEGRITY OF DUCT
- SUBSTANTIAL SAVINGS ON DUCT GAUGES & REINFORCEMENTS
- COST EFFECTIVE AT 1” STANDING-S OR HEAVIER WHEN SEALING IS REQUIRED & ALL FACTORS CONSIDERED
- CAN BE SHIPPED K.D. TO JOBSITES
- QUICK & SIMPLE TO INSTALL
- BULL NOSING KITS
- ENGINEERING & TECHNICAL SUPPORT
- INSTALLATION MANUALS
- DETAILED DUCT CONSTRUCTION TABLES & SKETCHES

Cleat can be snapped-on or driven-on for large sections of duct or inaccessible areas.

Angle is roll-formed from galvanized steel.

Gasket Tape is applied to W.D.C.I. Flanges before joining duct sections for a no-leak seal.

Duct Wall
Integral mastic sealant perfects the seal
Special guide facilitates duct wall entry
Duct Wall

Ideas that work for you everyday...
TECHNICAL DATA

The characteristics of a particular duct connection or joint are usually referenced to the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Manuals. SMACNA encourages the use of new technology, but does not endorse proprietary products. The W.D.C.I. ‘J’ & ‘H’ Systems have been tested in accordance with SMACNA procedures with no external sealant employed. The tests reveal: the W.D.C.I. ‘J’ Systems are comparable to the SMACNA Class J transverse joint and the W.D.C.I. ‘H’ Systems are comparable to the SMACNA Class H joint.

LIMITATIONS

The W.D.C.I. ‘J’ System is not recommended for applications with duct gauges heavier than 16 GA. or lighter than 26 GA.

The W.D.C.I. ‘H’ System is not recommended for application with duct gauges heavier than 20 GA. or lighter than 26 GA.

DIMENSIONS

Refer to drawings below.

APPLICABLE STANDARDS

Angle Steel: ASTM-A-653 G 60/90

Corner Steel: ASTM A-653 G 60/90

Mastic: 5511M

Gasket: Ductmate 440

COMPOSITION AND MATERIALS

The W.D.C.I. Systems consist of the following components:

a. W.D.C.I. ‘J’ Angle is roll-formed from 20 GA. galvanized steel, with an integral sealant.

b. W.D.C.I. ‘H’ Angle is roll-formed from 22 GA. galvanized steel, with an integral sealant.

c. W.D.C.I. Corner Pieces are inserted into the hollow web of the respective angle. See drawing below for corner styles.

d. Metal cleat is roll-formed from 22 GA. galvanized steel. (PVC Cleat is available upon request).

e. Gasket is extruded butyl for use between mating flanges. (Neoprene gasket is available upon request).

f. Nuts & Bolts

3/8” x 1” for W.D.C.I. ‘J’

1/4” x 1” for W.D.C.I. ‘H’

TECHNICAL SERVICES

Detailed assembly and installation instructions, and videos showing step-by-step procedures, are available from the manufacturer and on the Ductmate website. Factory trained personnel are available upon request, at no charge to instruct new customers in the use of the W.D.C.I. Systems.

W.D.C.I. CLEAT

PVC CLEAT

Polyvinyl chloride (PVC) is an organic polymer derived from petroleum and salt.

Performance Properties:

- Relatively high ignition resistance:
  - Flash ignition 391°C/735°F
  - Self ignition 454°C/850°F
  - Low fuel contribution
  - Lack of flaming drips
  - High external heat necessary to maintain combustion
  - UL94-Passes
  - UL723 (ASTM E-84) Test Data:
    - Flame Spread: 10
    - Fuel Contribution: 0
    - Smoke Density: 10
    - Service Temp: +32°F to +150°F

- PVC Cleat is used around perimeter of transverse joint. Not recommended for roof top applications.

METAL CLEAT

W.D.C.I. Metal Cleat is roll-formed of 22 GA. galvanized steel for application around perimeter of transverse joint. (See installation manual for correct usage).

W.D.C.I. ‘J’ & ‘H’ System Components
W.D.C.I. RECTANGULAR DUCT CONNECTOR SYSTEMS

How to Order A Complete W.D.C.I. Rectangular Duct Connection System:

Table 1: W.D.C.I. Rectangular Connection System Components:

<table>
<thead>
<tr>
<th>W.D.C.I. Flange</th>
<th>Compatible Corner(s)</th>
<th>Standard Bundle Size*</th>
<th>Cleat</th>
<th>Gasket**</th>
<th>Available Alloys*</th>
</tr>
</thead>
<tbody>
<tr>
<td>WJ - 20 ga. W.D.C.I. ‘J’</td>
<td>WJC 11 GA corner 200 pcs./carton Nuts &amp; bolts included (Galvanized only) (54.5 lbs/carton)</td>
<td>(10) 1,000 LF</td>
<td>Metal Cleat</td>
<td>W6C 6” Metal Cleat (500 pcs. @ 50 lbs/carton)</td>
<td>• GA=Galvanized</td>
</tr>
<tr>
<td>Large Profile (.73 lbs per LF)</td>
<td>(15) 1,500 LF</td>
<td>W10C 10’ Metal Cleat (100’ per bundle)</td>
<td>Solid PVC Cleat</td>
<td>6”WPVC 6” Solid PVC Cleat (500 Pcs. @ 22 lbs/carton)</td>
<td>• GN=Galvanneal</td>
</tr>
<tr>
<td>WH - 22 ga. W.D.C.I. ‘H’</td>
<td>WHC 11 GA corner 250 pcs./carton Nuts &amp; bolts included (Galvanized only) (30 lbs/carton)</td>
<td>(Bundles composed of 20’ lengths. 10” lengths available)</td>
<td></td>
<td>10’WPVC 10’ Solid PVC Cleat (100’ per bundle)</td>
<td>• AL=Aluminum*</td>
</tr>
<tr>
<td>Small Profile (.5 lbs per LF)</td>
<td>(W)</td>
<td></td>
<td></td>
<td></td>
<td>• AZ=Aluminized</td>
</tr>
<tr>
<td>Only available in galvanized</td>
<td>(H)</td>
<td></td>
<td></td>
<td></td>
<td>• S4=304 Stainless</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• S6=316 Stainless</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• PVC=PVC Coated**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• BI=Black Iron</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>† WH = Galvanized Only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>‡ Except Cleat</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>** Except Corners</td>
</tr>
</tbody>
</table>

Bullnosing Part No. Key

**EXAMPLE:** BN1GA

<table>
<thead>
<tr>
<th>Bullnosing</th>
<th>Size</th>
<th>Alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: BN</td>
<td>Example: 1</td>
<td>Example: GA</td>
</tr>
<tr>
<td>BN = Bullnosing</td>
<td>1”</td>
<td>GA = Galvanized</td>
</tr>
<tr>
<td>10’ Length</td>
<td>1.5”</td>
<td>S6 = 316 Stainless Steel</td>
</tr>
<tr>
<td>100’ Bundles</td>
<td>2”</td>
<td></td>
</tr>
</tbody>
</table>


FLANGES ESTIMATING FORMULA: Per Duct Size [(W + H) ÷ 3] x # of Duct Sections. Add Requirement For Each Size To Determine Total flange Needed. Example: Duct size 40” x 30” @ 60 joints. [(40” + 30”) ÷ 3] x 60 = 1400’ of Flange.

Corners: Approx. (1) corner for every (3’) of flange = 1400 ÷ 3 = 467 (250 pcs/box)

CLEAT: Approx. (6”) of cleat for every (4’) of flange = 1400 ÷ 4 = 350 (6” ea @ 250 lf/ctn or 500 pcs)

GASKETING: Approx. 1’ per 2’ of Flange = 1400 ÷ 2 = 700’ (20 rolls @ 25’ per roll or 500 lf per ctn)

SAMPLE ORDER:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part No.</th>
<th>Description</th>
<th>Total Required</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Bundle</td>
<td>WJ15GA</td>
<td>W.D.C.I. ‘J’</td>
<td>1500 ft.</td>
<td>1095 lbs.</td>
</tr>
<tr>
<td>(2) Box</td>
<td>WJCGA</td>
<td>Carriage Bolt Corners</td>
<td>400 pcs.</td>
<td>109 lbs.</td>
</tr>
<tr>
<td>(1) Box</td>
<td>W6CGA</td>
<td>6” Metal Cleat</td>
<td>500 pcs.</td>
<td>50 lbs.</td>
</tr>
<tr>
<td>(2) Box</td>
<td>440 3/16 x 5/8</td>
<td>440 Butyl Gasket</td>
<td>1000 lf.</td>
<td>90 lbs.</td>
</tr>
</tbody>
</table>

NOTE: COMPONENT QUANTITIES WILL VARY WITH SIZE OF DUCT.
SLIP AND DRIVE TYPE CONNECTIONS

STANDING S, SLIPS, AND DRIVES
Part Number and Ordering Information

Packing: 10’ Lengths/100’ Bundles
Hemmed S Slip, Drive Slip and 1/2” Standing S are also available in 5’ lengths
Additional lead time and charges will be applied to all cut to length orders.

Weights Listed In Lbs/Ft

<table>
<thead>
<tr>
<th>Gauges</th>
<th>½” Standing S</th>
<th>1” Standing S</th>
<th>1¾” Standing S</th>
<th>Hemmed S</th>
<th>Drive-Slip</th>
<th>Standing Drive Slip</th>
<th>Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 Ga.</td>
<td>N/A</td>
<td>0.78</td>
<td>0.79*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Yellow</td>
</tr>
<tr>
<td>22 Ga.</td>
<td>N/A</td>
<td>0.58</td>
<td>0.68*</td>
<td>N/A</td>
<td>N/A</td>
<td>0.46</td>
<td>Green</td>
</tr>
<tr>
<td>24 Ga.</td>
<td>0.41</td>
<td>0.55*</td>
<td>N/A</td>
<td>0.32*</td>
<td>0.19*</td>
<td>0.40</td>
<td>Orange</td>
</tr>
<tr>
<td>26 Ga.</td>
<td>0.35*</td>
<td>0.44</td>
<td>N/A</td>
<td>0.25*</td>
<td>0.15*</td>
<td>0.33</td>
<td>Blue</td>
</tr>
<tr>
<td>28 Ga.</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0.23</td>
<td>0.12</td>
<td>N/A</td>
<td>Red</td>
</tr>
</tbody>
</table>

* Most popular gauges per connector
Note: N/A designates gauges not available

Cut to length Slips and Drives 24 and 26 Gauge
(100 Pieces Per Carton)

Hemmed Slip – 6” through 24” in 2” increments
(can be manufactured in 1” increments upon request)

Drive Slip – 6” through 26” in 2” increments
(can be manufactured in 1” increments upon request)

* Reinforcing bar not included

Note: May not be available in all alloys

Ideas that work for you everyday...
A new and innovative way of inserting Cornermatic® TDC and TDF corners. These corners save time and improve corner insertion in two different ways:

- With Iowa Precision’s new Cornermatic+Plus machine
- In a traditional Cornermatic machine with our conversion kit

**TDC Part Number:** CMCGASTPK  
**TDF Part Number:** CMFGASTPK  
**Universal Corner Part Number:** CMUGASTPK*

Packaged: 80 Corners/Sleeve (5 Sleeves/Carton)  
*Consult Order Support for details*

The new Cornermatic+ Plus machine is a next generation corner solution from Iowa Precision which allows for speedy corner loading and insertion on a variety of styles of duct. With this table height work station, the corners are fed from below the work surface, eliminating the chance for interference between the duct and corner hopper. Ductwork with acute and obtuse angles, as well as ductwork with offsets and unusual bends can easily work with the new Cornermatic+ Plus machine.

**Universal CORNER**

- Sleeve packaged corners – Part # CMU**S  
- Sleeves contain 80 corners/sleeve  
- 5 sleeves/master carton (400 corners)  
- 40 boxes/pallet (16,000 corners)  
- Must be ordered in multiples of 400

*Insert 2 or 3 letter metal abbreviation in place of **

**Technical Data**

- Fits both TDC® and TDF® profiles  
- Precision stamped from 16 gauge Galvanized steel (GA)  
- Designed for 3/8” carriage bolt
**TDC® / TDF® COMPONENTS**

**T.D.C. and T.D.F. CORNERMATIC® CORNER**
- Cornermatic is a trademark of Systemation, Inc. Ductmate is in no way affiliated with Systemation, Inc.

- 16 Gauge
- Manual insertion only
- Hole for 3/8” Carriage Bolt
- Galvanized only (See Cornermatic Corners for Special Alloys)
- Packaged: 250/carton @ 42 lbs.

**CORNERMATE® T.D.C. MANUAL INSERTION CORNERS**

- 16 Gauge
- Manual insertion only
- Hole for 3/8” Carriage Bolt
- Packaged: 250/carton @ 42 lbs.

**CORNERMATE® T.D.F. MANUAL INSERTION CORNERS**

- 16 Gauge
- Manual insertion only
- Hole for 3/8” Carriage Bolt
- Packaged: 250/carton @ 42 lbs.

**VERSAL CLEAT™**
- 22 Gauge Metal
- 6" Part Number: DV6CGA
- 10” Part Number: DV10CGA
- Available in Metal Alloys Only
- For use on T.D.C. (and some T.D.F.) profiles

**PACKAGING INFORMATION**

<table>
<thead>
<tr>
<th>6&quot; Part Numbers</th>
<th>10’ Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 L.F. (250) pcs./carton @ 31 lbs.</td>
<td>100’/bundle @ 23 lbs.</td>
</tr>
</tbody>
</table>

Use with the Versa-Cleater™ Tool (Page 63)

**T.D.C. CLEAT**
- 22 gauge Metal
- 6" Part Number: T6CGA
- 10” Part Number: T10CGA
- PVC
- 6” Part Number: 6”TPVC
- Available in a variety of metals
- Patent # 5342100
- Packaged: 250/carton @ 42 lbs.

**T.D.F. CLEAT**
- 22 gauge Metal
- 6" Part Number: F6CGA
- 10” Part Number: F10CGA
- PVC
- 6” Part Number: 6”FPVC
- 10” Part Number: 10”FPVC
- Available in a variety of metals
- Packaged: 250/carton @ 35 lbs.

**PACKAGING INFORMATION**

<table>
<thead>
<tr>
<th>6&quot; Part Numbers</th>
<th>10’ Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 L.F. (250) pcs./carton @ 45 lbs.</td>
<td>100’/bundle @ 24 lbs.</td>
</tr>
</tbody>
</table>

Use with the SNAPPER 1 Tool (Page 60)

**VERSAL CLEAT™**
- 22 Gauge Metal
- PVC
- 6" Part Numbers | 10’ Part Numbers |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>250 L.F. (500) pcs./carton @ 45 lbs.</td>
<td>250 L.F. (500) pcs./carton @ 24 lbs.</td>
</tr>
<tr>
<td>100 L.F. (10) pcs./bundle @ 18 lbs.</td>
<td>100 L.F. (10) pcs./bundle @ 12 lbs.</td>
</tr>
</tbody>
</table>

Use with the SNAPPER 1 Tool (Page 60)

**UNIVERSAL PRESS-ON BULLNOSING**

- 1” Part Number: BN1
- 1½” Part Number: BN1.5
- 2” Part Number: BN2
- Available in Galvanized or 316 Stainless Steel

**How To Order T.D.C. & T.D.F. Components Using Part Number Variations:**

**Available Alloys**
- GA = Galvanized
- GN = Galvanneal
- AZ = Aluminized
- AL = Aluminum (except cleat)
- S4 = 304 Stainless
- S6 = 316 Stainless
- PVC = PVC Coated
- BI = Black Iron

**EXAMPLE:** CMFGN (Galvannealed Steel T.D.F. Corner)

To order any of these products, use part number variations as defined. Use the part number for your given corner or cleat type, and add the part number code that corresponds to your desired alloy (listed in the chart above).

**ALL DUCTMATE GASKETS ON PAGE 47. OTHER TIME SAVING TOOLS ON PAGE 60.**
FLEXIBLE DUCT CONNECTORS

**PROflex™ FLEXIBLE DUCT CONNECTOR**

- ISOLATES VIBRATION & NOISE AT SOURCE
- COMMERCIAL & RESIDENTIAL APPLICATIONS
- AIRTIGHT & WATERPROOF
- GALVANIZED, STAINLESS, OR ALUMINUM METAL
- AVAILABLE WITH VINYL SUPER DUTY, NEOPRENE, HYPALON, SILICONE, & TEFILON® FABRICS
- FABRICS ARE AVAILABLE IN VARIOUS WIDTHS WITHOUT METAL ATTACHED.

- FABRICS MEET NFPA 701 REQUIREMENTS
- RESISTANT TO FUNGAL & MOLD GROWTH (ASTM G-21)
- ALL PROflex DUCT CONNECTORS ARE GUARANTEED AGAINST DEFECTIVE MATERIAL
- SHIPPED IN STANDARD 100 FOOT ROLLS PER CARTON
- SHIPPING WEIGHTS VARY WITH METAL AND FABRIC SELECTED

TESTED TO 10” W.G. POSITIVE AND 10” W.G. NEGATIVE!

New LA Approved! Vinyl

POWER LOCK

SINGLE FOLD

PROTECT LOCK

Metal

Fabric
FABRIC SPECIFICATIONS

VINYL SUPER DUTY (dual fabric)
Base Fabric: Polyester/Polyester
Color: Black
Weight: 20 ± 2 oz/yd²
Tearing Strength: W: 65 lbs F: 70 lbs
Tensile Strength: W: 425 lbs F: 280 lbs
Low Temperature: -40°F
High Temperature: 200°F

LA APPROVED VINYL SUPER DUTY (dual fabric)
Base Fabric: Polyester/Polyester
Color: Black
Weight: 20 ± 2 oz/yd²
Tearing Strength: W: 35 lbs F: 35 lbs
Tensile Strength: W: 280 lbs F: 220 lbs
Low Temperature: -40°F
High Temperature: 200°F

NEOPRENE
Base Fabric: Glass Cloth
Color: Black
Weight: 30 ± 2 oz/yd²
Tearing Strength: W: 40 lbs F: 30 lbs
Tensile Strength: W: 395 lbs F: 255 lbs
Low Temperature: -40°F
High Temperature: 200°F

HYPALON
Base Fabric: Glass Cloth
Color: White
Weight: 30 ± 2 oz/yd²
Tearing Strength: W: 25 lbs F: 20 lbs
Tensile Strength: W: 475 lbs F: 375 lbs
Low Temperature: -40°F
High Temperature: 200°F

SILICONE (silicone rubber coating)
Base Fabric: Fiberglass Fabric
Color: Silver
Weight: 30 ± 2 oz/yd²
Tearing Strength: W: 90 lbs F: 90 lbs
Tensile Strength: W: 372 lbs F: 372 lbs
Low Temperature: -70°F
High Temperature: 500°F

TEFLON
Base Fabric: Glass Cloth
Color: Gray
Weight: 18 ± 1 oz/yd²
Tearing Strength: W: 20 lbs F: 20 lbs
Tensile Strength: W: 410 lbs F: 355 lbs
Low Temperature: -100°F
High Temperature: 600°F

- Strongest all-purpose fabric in the industry with excellent resistance to cuts, tears, and abrasion
- Flame resistant coating
- Resistant to weather and most chemicals
- Mildew resistant per ASTM G-21
- Meets NFPA 701

- Ideal for fume hoods
- Flame resistant coating
- Resistant to weather, most chemicals, fat, and oil
- Mildew resistant per ASTM G-21
- Meets NFPA 701

- Ideal for outdoor applications and fume hoods
- Flame resistant coating
- Resistant to weather, most chemicals, water, and oil
- UV Resistant
- Meets NFPA 701

- Highly durable
- Rubbery surface for grip
- Excellent flame resistance
- Non-combustible fabric
- Resistant to weather, most chemicals, water, and oil
- Meets NFPA 701
- Meets NFPA 90A & 90B

- Excellent chemical resistance
- Excellent flexibility in extreme temperatures
- Flame resistant coating
- Meets NFPA 701

- Do not use in grease hood applications

PROflex™ ORDERING INFORMATION

Standard 100 ft. per carton.
Metal is available in galvanized, stainless and aluminum.
All fabrics are available without metal attached in various widths x 100 ft. per roll.
For other alloys, fabric sizes or chemical resistance information, consult your nearest Ductmate distributor or call Ductmate direct.

<table>
<thead>
<tr>
<th>Fabric</th>
<th>Size metal x fabric x metal</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vinyl Super Duty</td>
<td>All fabrics available in:</td>
<td>PFC*VS**</td>
</tr>
<tr>
<td>Neoprene</td>
<td></td>
<td>PFC*N**</td>
</tr>
<tr>
<td>Hypalon</td>
<td></td>
<td>PFC*H**</td>
</tr>
<tr>
<td>Silicone</td>
<td></td>
<td>PFC*S**</td>
</tr>
<tr>
<td>Teflon</td>
<td></td>
<td>PFC*T**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fabric</th>
<th>Size metal x fabric x metal</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vinyl Super Duty</td>
<td>All fabrics available in:</td>
<td>PFC*VS**</td>
</tr>
<tr>
<td>Neoprene</td>
<td></td>
<td>PFC*N**</td>
</tr>
<tr>
<td>Hypalon</td>
<td></td>
<td>PFC*H**</td>
</tr>
<tr>
<td>Silicone</td>
<td></td>
<td>PFC*S**</td>
</tr>
<tr>
<td>Teflon</td>
<td></td>
<td>PFC*T**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fabric</th>
<th>Size metal x fabric x metal</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vinyl</td>
<td></td>
<td>PFRO3VGA</td>
</tr>
<tr>
<td>Neoprene</td>
<td>All fabrics available in:</td>
<td>PFRO3NGA</td>
</tr>
<tr>
<td>Hypalon</td>
<td></td>
<td>PFRO3HGA</td>
</tr>
<tr>
<td>Silicone</td>
<td></td>
<td>PFRO3SGA</td>
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</table>

Only available in galvanized

<table>
<thead>
<tr>
<th>Fabric</th>
<th>LA Vinyl</th>
<th>Neoprene</th>
<th>Hypalon</th>
<th>Silicone</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA 90A</td>
<td>3x3x3</td>
<td>3x3x3</td>
<td>3x3x3</td>
<td>3x3x3</td>
</tr>
<tr>
<td>4x4x4</td>
<td>3x3x3</td>
<td>4x4x4</td>
<td>3x3x3</td>
<td>4x4x4</td>
</tr>
<tr>
<td>6x6x3</td>
<td>3x3x3</td>
<td>4x4x4</td>
<td>3x3x3</td>
<td>4x4x4</td>
</tr>
</tbody>
</table>

Part Number Key

EXAMPLE: PFC3VSGA Commercial Vinyl Super Duty 3”x3”x3” Galvanized

<table>
<thead>
<tr>
<th>*</th>
<th>Size</th>
<th>**</th>
<th>Alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3”x3”x3”</td>
<td>GA</td>
<td>Galvanized</td>
</tr>
<tr>
<td>T3</td>
<td>4½”x3”x4½”</td>
<td>AL</td>
<td>Aluminum</td>
</tr>
<tr>
<td>4</td>
<td>4”x4”x4”</td>
<td>S4</td>
<td>304 Stainless Steel</td>
</tr>
<tr>
<td>6</td>
<td>3”x6”x3”</td>
<td>S6</td>
<td>316 Stainless Steel</td>
</tr>
</tbody>
</table>

Ideas that work for you everyday...
ROUND DUCT CONNECTOR SYSTEM

SPIRALmate®

MONEY SAVING VALUE ADDED FEATURES
• QUICK & SIMPLE TO INSTALL
• SUBSTANTIAL REDUCTION IN LABOR & TIME
• AIR TIGHT
• NO ADDITIONAL SEALANTS REQUIRED
• CLEAN APPEARANCE
• USED AS AN ARCHITECTURAL FEATURE
• CAN BE INSTALLED ON-SITE
• INCREASES STRUCTURAL INTEGRITY OF DUCT
• PRICE COMPARES TO ANGLE RINGS OR COUPLERS REQUIRING SEALANT
• FLANGES ADJUST TO MODERATE PIPE DIAMETER VARIATIONS
• ONE-BOLT CLOSURE BAND CONNECTION
• WORKS ON DOUBLE-WALL PIPE
• EASY ALIGNMENT OF FITTINGS
• FITS SPIRAL SEAM AND MOST RIBBED PIPE

Spiralmate Small Profile
(8" - 38" Duct)
(203.2mm - 965.2mm)

Spiralmate Large Profile
(30" - 72" Duct)*
(762mm - 1828.8mm)

DUCT FLANGES
One ring is attached to the end of
each duct section to be mated

CLOSURE RING
Tightening Closure Ring applies pressure to the Duct Flanges
to lock the duct joint into an airtight,
permanent connection

SEALANT
A permanent non-hardening mastic
(DM5511M) is injected into the
pocket during manufacturing

GASKET
Ductmate Neoprene Gasket
is applied to Flange face before
joining duct sections

* For Large Profile sizes 30" - 38", consult factory for availability

ALIGNMENT GRIPS
A modified vise grip to help you
do a better job and save time.

 INNER RING FOR DOUBLE WALL APPLICATIONS
Cold-formed galvanized steel Inner
Ring is specially designed for use with
Spiralmate on double wall spiral pipe.

NEOPRENE GASKET TAPE

INTEGRAL SEALANT
Integral sealant is unique to Spiralmate and
ensures a tight connection

TESTED
To 15" W.G. positive pressure and 10" W.G. negative pressure.

VENTMATE DESIGN FOR UNDERGROUND MINING SYSTEMS

• FAST, SAVES TIME
• AIR TIGHT, EFFICIENT
• SIMPLE AND EASY TO INSTALL
• NO ADDITIONAL SEALING REQUIRED
• CONSISTENT CONNECTIONS
• CAN BE INSTALLED ON-SITE
• STANDARD SIZES TO 72"
(LARGER SIZES AVAILABLE ON REQUEST)
2" INCREMENTS STANDARD
1" INCREMENTS AVAILABLE

New
Press-On Inner Rings
See Page 18
**TECHNICAL DATA**
The characteristics of a particular connection or joint are usually referenced to the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Manuals. SMACNA encourages the use of new technology, but does not endorse proprietary products. The Spiralmate Duct Connector System has been tested by Professional Service Industries, Inc., a division of Pittsburgh Testing Laboratories, with test results as noted. No external sealant was used and the certified test results reveal:

- Virtually No leakage at up to 18” WG positive pressure or down to 10” WG negative pressure

Testing was performed on a single-wall connection. Complete test data is available upon request.

**DIMENSIONS**
Refer to Cross Section on previous page.

**LIMITATIONS**
The Spiralmate Small Profile Round Duct Connector is not recommended for applications with spiral duct gauges heavier than 20 GA or lighter than 28 GA. The Spiralmate Large Profile Round Duct Connector is not recommended for applications with spiral duct gauges heavier than 16 GA or lighter than 28 GA. Both Spiralmate Profiles will accept 12 GA longitudinal duct seam. Some duct manufacturers may weld on the seams to keep them from falling apart once the duct is manufactured. These welds may need to be ground down so they can fit the pocket. This will not compromise the duct seam as long as the spiral flanges are attached just after grinding.

**TECHNICAL SERVICES**
Detailed assembly and installation instructions & videos showing step-by-step procedures are available from the manufacturer and are sent to all new customers. Factory-trained personnel are available upon request at no charge to instruct new customers in the use of the Spiralmate System.

**COMPOSITIONS & MATERIALS**
The Spiralmate Round Duct Connector Systems consist of the following components:

- Two mating Round Duct Connector Flanges of roll-formed galvanized steel with an integral sealant. Large Profile 20 ga., Small Profile 22 ga.
- A Closure Ring of roll-formed galvanized steel. Large Ring 18 ga., Small Ring 20 ga.
- Mastic: Ductmate DM5511M
- Gasket: Neoprene and Ductmate 440

**COMPOSITIONS & MATERIALS FOR THE NEW PRESS-ON INNER RING**
The Spiralmate Round Duct Connector Systems consist of the following components:

Two Inner Rings roll-formed from galvanized steel with PSA tape:
- 10” to 48” - 18 ga.
- 49” & up - 16 ga.

---

**SPIRALMATE ORDERING INFORMATION**

**HOW TO ORDER USING PART NUMBER VARIATIONS, EXAMPLE: SM28GA**

<table>
<thead>
<tr>
<th>CONNECTOR TYPE</th>
<th>CONNECTOR SIZE</th>
<th>ALLOY</th>
<th>GASKETING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: SM</td>
<td>Example: 28</td>
<td>Example: GA</td>
<td>NEOPRENE</td>
</tr>
<tr>
<td>SM = Spiralmate</td>
<td>28 = 28” Diameter</td>
<td>GA = Galvanized</td>
<td>NEO 5/16x3/4</td>
</tr>
<tr>
<td></td>
<td>Small Profile Sizes 8” thru 38”</td>
<td>GN = Galvannealed</td>
<td>50’ rolls / 750’ per case</td>
</tr>
<tr>
<td></td>
<td>Large Profile Sizes 30” thru 72”</td>
<td>AZ = Aluminized</td>
<td>440 Butyl Gasket</td>
</tr>
<tr>
<td></td>
<td>All sizes available in even, odd and metric sizes.</td>
<td>S4 = 304 Stainless</td>
<td>440 3/16x5/8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S6 = 316 Stainless</td>
<td>25’ rolls/500’ per case</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PVC = PVC Coated***</td>
<td>440 Butyl Gasket Patches</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>440 3x2x1/8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>512 patches/per case</td>
</tr>
</tbody>
</table>

*** Lead time on PVC coated is 3½ weeks for the coil to arrive at our plant. Production and shipping still have to be factored in.

**NOTE:** SPIRALMATE CONNECTOR SYSTEM COMES COMPLETE WITH 2 FLANGES AND 1 CLOSURE RING. ADDITIONAL FLANGE RINGS AND CLOSURE RINGS ALSO SOLD SEPARATELY. Part Numbers (CRH**GA and DF**GA)

NEOPRENE GASKET IS RECOMMENDED AROUND THE CIRCUMFERENCE OF THE SPIRALMATE FLANGE. SMALL AMOUNT OF 440 BUTYL GASKET REQUIRED AT BREAK IN FLANGE. SEE GASKETING FOR SPECIFICATIONS.

**GASKET CALCULATION:** DIAMETER + 1-1/2”X3.1415=(LI + 12 PER JOINT) X (NUMBER OF RELATED SIZES)=SIZE TOTAL

TOTAL FOOTAGE DETERMINED BY ADDING ALL SIZES TOTAL.

#NUTRUNL - Special long socket for large profile Spiralmate Closure Ring

#NUTRUNS - Special long socket for small profile Spiralmate Closure Ring
NEW UNIVERSAL PRESS-ON INNER RINGS
for Spiralmate and Econoflange Round

专利申请中

MONEY SAVING VALUE ADDED FEATURES
• Fits Spiralmate, Ventmate, Econoflange and virtually any round flange connection system
• Double Sided high strength PSA tape to adhere
• Simplifies installation of double wall duct
• Available in 1’’ and 2’’ rings
• Inner-ring adjusts to fit the variations in pipe diameter
• Tested to 10’’ W.G. positive pressure
• Eliminates welding or fasteners
• Can be installed on-site

Revolutionary Design For Quick, Hassel-Free Installation

The Press-On Inner Ring was specifically designed to significantly reduce installation time and labor cost. This system uses a double-sided pressure sensitive adhesive to bond the outer flange and inner ring without the need for costly welding. There are also no issues with aligning the rings to fit around the insulation and inner diameter of the duct because the outer flange and Press-On Inner Ring are installed on the ductwork separately.

ORDERING AND PACKING INFORMATION
EXAMPLE: 1IR26GAPSA

<table>
<thead>
<tr>
<th>CONNECTOR TYPE</th>
<th>CONNECTOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Ring</td>
<td>Inner Ring Size</td>
</tr>
<tr>
<td>(if application is double wall)</td>
<td>For 1” insulation the inner ring is 2” smaller than connector. Sizes start at 8”</td>
</tr>
<tr>
<td>1 = 1” insulation</td>
<td>For 2” insulation the inner ring is 4” smaller than connector. Sizes start at 12”</td>
</tr>
<tr>
<td>IR = Inner Ring</td>
<td>GA = Galvanized</td>
</tr>
<tr>
<td>26 = Size of inner ring</td>
<td>PSA=Pressure Sensitive Adhesive</td>
</tr>
</tbody>
</table>
**ECONOflange™ Round**

Duct Connection System

**ECONOflange**

8” - 72”

Cold-formed, hot-dipped galvanized steel with pre-punched holes

48” & Under:
18 Gauge Steel

50” & Up:
16 Gauge Steel

- Simple installation process
- Can be installed on-site
- Available in sizes 8” - 72” in standard 2” increments

**ORDERING AND PACKING INFORMATION**

**EXAMPLE:** EFR16*GA

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DIAMETER</th>
<th>ALLOY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example = EFR</td>
<td>Example = 16</td>
<td></td>
</tr>
<tr>
<td>• EFR = ECONOflange</td>
<td>8” 30” 52”</td>
<td>• GA = Galvanized</td>
</tr>
<tr>
<td>• EFRW (Econoflange Welded)</td>
<td>10” 32” 54”</td>
<td>• GN = Galvanneal</td>
</tr>
<tr>
<td></td>
<td>12” 34” 56”</td>
<td>• AZ = Aluminized</td>
</tr>
<tr>
<td></td>
<td>14” 36” 58”</td>
<td>• S4 = 304 Stainless</td>
</tr>
<tr>
<td></td>
<td>16” 38” 60”</td>
<td>• S6 = 316 Stainless</td>
</tr>
<tr>
<td></td>
<td>18” 40” 62”</td>
<td>• PVC = PVC Coated**</td>
</tr>
<tr>
<td></td>
<td>20” 42” 64”</td>
<td>• AL = Aluminum</td>
</tr>
<tr>
<td></td>
<td>22” 44” 66”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24” 46” 68”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>26” 48” 70”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>28” 50” 72”</td>
<td></td>
</tr>
</tbody>
</table>

* For Double Wall enter second diameter here
** Lead time on PVC coils is 3½ weeks for the coil to arrive at our plant. Production and shipping still have to be factored in

**GASKETING**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>PACKAGE QTY./SHIPPING WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEO 5/16X3/4</td>
<td>NEOPRENE</td>
<td>50’ rolls/750’ per case, @ 15 lbs. / case</td>
</tr>
<tr>
<td>440 3/16x5/8</td>
<td>BUTYL</td>
<td>25’ rolls/500’ per case</td>
</tr>
<tr>
<td>440 3x2x1/8</td>
<td>BUTYL PATCHES</td>
<td>512 patches/per case</td>
</tr>
</tbody>
</table>
Basic Use
The ECONOflange Oval connection system was designed as a cost effective oval connection, all while remaining efficient and easy to install.

Special Characteristics
- End Sets shipped complete with connectors attached
- Modular design reduces inventory and allows for manufacturing flexibility
- Cut straight sections on-demand for "exact" fit
- Bolted connectors make installation quick, safe, and easy

Specifications
- Flange Construction:
  - 18 Gauge on sizes 48" & below
  - 16 Gauge on sizes 50" & Up
- Hot Dipped Galvanized Steel
- Gasket: Ductmate Neoprene
- Pre-punched holes for fast connections
- No special tools required
- Simple installation process, can be installed on-site
- Available in sizes 8” - 56” in standard 2” increments
- Available in specialty metals

Ordering Information
EXAMPLE: EFO20GA

<table>
<thead>
<tr>
<th>Semi-Circular End Piece</th>
<th>Endset Size</th>
<th>Straight Flange Sections</th>
<th>Alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: EFO</td>
<td>Example: 12 (2 Endset are needed for a full connection)</td>
<td>Example: EF20</td>
<td></td>
</tr>
<tr>
<td>• EFO = Econoflange Oval semi-circular end piece</td>
<td>12=12”</td>
<td>EF = Straight Flange lengths. Order in 10’ or 20’ lengths.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>14=14”</td>
<td>• Assembly required or straights must be assembled to end sets</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16=16”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>18=18”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>20=20”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>22=22”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24=24”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>26=26”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>30=30”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>32=32”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>34=34”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>36=36”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Larger sizes also available
** Lead time on PVC coils is 3½ weeks for the coil to arrive at our plant. Production and Shipping times still have to be factored in.

Example:
Duct Dimension 68” x 20”

<table>
<thead>
<tr>
<th>Major Dimension</th>
<th>68”</th>
</tr>
</thead>
<tbody>
<tr>
<td>(minus) Minor Dimension</td>
<td>- 20”</td>
</tr>
<tr>
<td>(minus) 6¼</td>
<td>- 6¼”</td>
</tr>
<tr>
<td>(equals) Straight Econoflange</td>
<td>Oval Angle Length 41¾”</td>
</tr>
</tbody>
</table>

Packaging Information
The ECONOflange Oval connection system consists of semicircular end flange sections and straight flange. Straight flange is sold in 20’ lengths. The semi-circular end pieces are sold individually with the connector pieces welded onto the ends. (One oval frame consists of two lengths of straight flange and two semi-circular end pieces.)
ROUND DUCT CONNECTOR SYSTEM

QUICK-SLEEVE

3” THRU 18” ROUND DUCT CONNECTOR SYSTEM

Double-Bolt Connection
Now Available!

Standard Single-Bolt Connection

VALUE ADDED MONEY SAVING FEATURES:

• AIRTIGHT
• NO ADDITIONAL SEALING
• TESTED TO OVER 30” W.G. POS & NEG
• NO PROTRUSIONS IN AIRSTREAM
• FOR ROLLED OR SPIRAL DUCT
• REASSEMBLES WITHOUT COMPROMISING SEAL
• DESIGNED & GASKETED FOR FOOD PROCESSING, DUST COLLECTION, EXHAUST, HIGH-TEMP & STANDARD H.V.A.C. SYSTEMS
• ELIMINATES LENGTHY SHUT DOWN TO SEAL EXISTING SYSTEMS
• SPECIAL ALLOYS AVAILABLE
• NEW DOUBLE-BOLT CLOSURE ENSURES BETTER STABILITY THROUGH LARGER DUCT DIAMETERS

APPLICATION

For air-conditioning, ventilation and dust collection systems.

Polyethylene seal

When the connector is tightened the metal sleeve contacts the duct wall to provide rigidity.

ORDERING INFORMATION

(HOW TO ORDER USING PART NUMBER VARIATIONS)

EXAMPLE: QS10GA

<table>
<thead>
<tr>
<th>CONNECTOR EXAMPLE: QS</th>
<th>GASKETING TYPE Example: **</th>
<th>CONNECTOR SIZE Example: 10</th>
<th>ALLOY TYPE Example: GA</th>
</tr>
</thead>
<tbody>
<tr>
<td>QS = Single-Bolt QUICKSLEEVE</td>
<td>** NO NUMBER REQUIRED FOR STANDARD GASKET (POLYETHYLENE) N = NEOPRENE HT = HIGH-TEMP S = SILICONE FDA = FDA APPROVED</td>
<td>3=3” 4=4” 5=5” 6=6” 7=7” 8=8” 9=9”</td>
<td>9=9” 10=10” 11=11” 12=12” 13=13” 14=14”</td>
</tr>
<tr>
<td>LABQS = Double-Bolt QUICKSLEEVE</td>
<td>5=5” 6=6” 7=7” 8=8” 9=9” 10=10”</td>
<td>11=11” 12=12” 13=13” 14=14” 15=15” 16=16” 18=18”</td>
<td>GA = GALVANIZED GN = GALVANNEALED AZ = ALUMINIZED S4 = 304 STAINLESS S6 = 316 STAINLESS</td>
</tr>
</tbody>
</table>

WEIGHTS

| 3” | 0.76 lbs/ea | 6” | 1.01 lbs/ea | 9” | 1.27 lbs/ea | 12” | 1.69 lbs/ea | 16” | 2.10 lbs/ea |
| 4” | 0.84 lbs/ea | 7” | 1.11 lbs/ea | 10” | 1.49 lbs/ea | 13” | 1.77 lbs/ea | 18” | 2.32 lbs/ea |
| 5” | 0.93 lbs/ea | 8” | 1.16 lbs/ea | 11” | 1.58 lbs/ea | 14” | 1.93 lbs/ea |

Ideas that work for you everyday...
**ACCESS DOORS**

**DUCTMATE® THE SANDWICH® DOOR**

- Advanced pressure vessel design
- Air tight
- No measuring (self-adhesive template provided)
- Record Of Inspection sticker provided
- Effortless opening & closing (no tools required)
- No frames to install or seal
- Shape provides a better access area

| RECTANGULAR DUCT | • Fully insulated or uninsulated  
|                  | • Smooth interior surface on insulated doors  
|                  | • Tested to 20” w.g. positive and 10” negative. (Please specify when ordering doors for negative pressure applications.)  
|                  | • Insulated doors are recommended for negative pressure applications.  
|                  | • Please specify when ordering doors for negative pressure as the gasket is placed on the outer door panel.  
|                  | • Please specify when ordering doors for double wall duct as we provide 6” bolts which will allow the door to be opened wider, making up for the thickness of the liner/duct wall. |

| SPIRAL DUCT | • No frame to install and seal  
|            | • Circular opening effective for duct cleaning  
|            | • Effortless opening & closing  
|            | • EDGE PRO rubber edge guards are available on request |

| CIRCULAR CLEAN-OUT | • For High-Temperature application fiberglass rope (1000°F max) is permanently bonded to the outside panel of the access door to eliminate leakage.  
|                    | • For Grease Duct application, Ceramic Fiber Gasket (2300°F max - meets NFPA 96 standards) is permanently bonded to the outside panel of the access door to eliminate leakage. |

| HIGH TEMP | • For High-Temperature application fiberglass rope (1000°F max) is permanently bonded to the outside panel of the access door to eliminate leakage.  
|          | • For Grease Duct application, Ceramic Fiber Gasket (2300°F max - meets NFPA 96 standards) is permanently bonded to the outside panel of the access door to eliminate leakage. |
### Rectangular Duct

<table>
<thead>
<tr>
<th>Door</th>
<th>Actual Door Size</th>
<th>Template (Opening Size)</th>
<th>Part No.</th>
<th>Gauge</th>
<th># Per Carton</th>
<th>Lbs Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8” x 4”</strong></td>
<td><strong>9” x 5”</strong></td>
<td>8” x 4”</td>
<td>D*84†GA</td>
<td>22</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>10” x 6”</td>
<td>11” x 7”</td>
<td>10” x 6”</td>
<td>D*106†GA</td>
<td>22</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>12” x 8”</td>
<td>13” x 9”</td>
<td>12” x 8”</td>
<td>D*128†GA</td>
<td>22</td>
<td>10</td>
<td>35</td>
</tr>
<tr>
<td>**16” x 12”</td>
<td>17” x 13”</td>
<td>16” x 12”</td>
<td>D*1612†GA</td>
<td>20</td>
<td>5</td>
<td>36</td>
</tr>
<tr>
<td>18” x 14”</td>
<td>19” x 15”</td>
<td>18” x 14”</td>
<td>D*1814†GA</td>
<td>20</td>
<td>5</td>
<td>45</td>
</tr>
<tr>
<td>**24” x 18”</td>
<td>24¾” x 18¾”</td>
<td>23¼” x 17¼”</td>
<td>D*2418†GA</td>
<td>18</td>
<td>3</td>
<td>27</td>
</tr>
</tbody>
</table>

* Available in Insulated (I) or Uninsulated (U), please specify
** Oval Shaped
† (M) For modified doors with longer bolts

### Spiral Duct

<table>
<thead>
<tr>
<th>Door</th>
<th>Actual Door Size</th>
<th>Template (Opening Size)</th>
<th>Duct Diameter</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>8” x 4”</td>
<td>22 Gauge</td>
<td>9” x 4½”</td>
<td>5” - 6”</td>
<td>DR*846†GA</td>
</tr>
<tr>
<td></td>
<td>10 per carton</td>
<td></td>
<td>7” - 9”</td>
<td>DR*849†GA</td>
</tr>
<tr>
<td></td>
<td>12 lbs. per carton</td>
<td></td>
<td>10” - 11”</td>
<td>DR*841†GA</td>
</tr>
<tr>
<td></td>
<td>12” x 8”</td>
<td>12½” x 8⅝”</td>
<td>12” - 14”</td>
<td>DR*1281†GA</td>
</tr>
<tr>
<td></td>
<td>10 Gauge</td>
<td></td>
<td>15” - 16”</td>
<td>DR*12816†GA</td>
</tr>
<tr>
<td></td>
<td>10 per carton</td>
<td></td>
<td>17” - 18”</td>
<td>DR*12818†GA</td>
</tr>
<tr>
<td></td>
<td>35 lbs. per carton</td>
<td></td>
<td>19” - 20”</td>
<td>DR*12820†GA</td>
</tr>
<tr>
<td>16” x 12”</td>
<td>20 Gauge</td>
<td>16½” x 12⅛”</td>
<td>15” - 16”</td>
<td>DR*1611†GA</td>
</tr>
<tr>
<td></td>
<td>5 per carton</td>
<td></td>
<td>17” - 18”</td>
<td>DR*16118†GA</td>
</tr>
<tr>
<td></td>
<td>31 lbs. per carton</td>
<td></td>
<td>19” - 20”</td>
<td>DR*16120†GA</td>
</tr>
<tr>
<td>24” x 18”</td>
<td>available in 2 panel only</td>
<td>24” x 18”</td>
<td>15” - 16”</td>
<td>DR*241832†GA</td>
</tr>
<tr>
<td></td>
<td>18 Gauge</td>
<td></td>
<td>17” - 18”</td>
<td>DR*241836†GA</td>
</tr>
<tr>
<td></td>
<td>2 per carton</td>
<td></td>
<td>19” - 20”</td>
<td>DR*241840†GA</td>
</tr>
<tr>
<td></td>
<td>25 lbs. per carton</td>
<td></td>
<td>30” - 32”</td>
<td>DR*241844†GA</td>
</tr>
<tr>
<td></td>
<td>(Only Available in Galvanized and 316 Stainless)</td>
<td></td>
<td>33” - 36”</td>
<td>DR*241848†GA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>37” - 40”</td>
<td>DR*241852†GA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>41” - 44”</td>
<td>DR*241856†GA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>45” - 48”</td>
<td>DR*241862†GA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>53” - 56”</td>
<td>Consult Factory</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>57” - 62”</td>
<td>Consult Factory</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>63” - 66”</td>
<td>Consult Factory</td>
</tr>
</tbody>
</table>

* Available in Insulated (I) or Uninsulated (U), please specify
† (M) For modified doors with longer bolts

### Rectangular Duct Hi-Temp

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Gauge</th>
<th>No. Per Carton</th>
<th>Lbs. Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8” x 4”</strong></td>
<td>D84†GA</td>
<td>22</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>10” x 6”</td>
<td>D106†GA</td>
<td>22</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>12” x 8”</td>
<td>D128†GA</td>
<td>22</td>
<td>10</td>
<td>35</td>
</tr>
<tr>
<td>**16” x 12”</td>
<td>D1612†GA</td>
<td>20</td>
<td>5</td>
<td>36</td>
</tr>
<tr>
<td>18” x 14”</td>
<td>D1814†GA</td>
<td>20</td>
<td>5</td>
<td>45</td>
</tr>
<tr>
<td>**24” x 18”</td>
<td>D2418†GA</td>
<td>18</td>
<td>3</td>
<td>27</td>
</tr>
</tbody>
</table>

* F1 door heat rated to 1,000°F, F2 door heat rated to 2,300°F.
** Oval Shaped
† (M) For modified doors with longer bolts

### Clean-Out

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Gauge</th>
<th>No. Per Carton</th>
<th>Lbs. Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>10” x 6”</td>
<td>DC106GA</td>
<td>24</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>12” x 8”</td>
<td>DC128GA</td>
<td>24</td>
<td>10</td>
<td>23</td>
</tr>
</tbody>
</table>

### Circular Clean-Out

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Gauge</th>
<th>No. Per Carton</th>
<th>Lbs. Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>8”</td>
<td>DC*8GA</td>
<td>24</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>10”</td>
<td>DC*10GA</td>
<td>24</td>
<td>10</td>
<td>17</td>
</tr>
<tr>
<td>12”</td>
<td>DC*12GA</td>
<td>22</td>
<td>10</td>
<td>26</td>
</tr>
</tbody>
</table>

* Available in Insulated (I), leave blank for standard door

### Installation Instructions

1. Peel backing off template and apply to duct in desired location.
2. Opening can be cut with hand-held plasma cutter or by conventional methods.
3. Insert door into opening at an angle and tighten knobs.
4. Do not overtighten knobs or wing nuts.

** IDEAS THAT WORK FOR YOU EVERYDAY... **
**OBSERVATION ACCESS DOOR**

**DOUBLE PANED OBSERVATION ACCESS DOOR**
16” x 12” Sandwich® Door With 8” x 8” View Port

**Solid Door With Simple Installation**

This door was designed specifically for hospitals, clean rooms, pharmaceuticals, and laboratories to eliminate danger of dust contaminating ductwork while inspecting in-duct smoke detectors, UVC emitters, fire and smoke dampers, and humidifiers.

- Double Pane Safety Glass
- Extra Large 8” x 8” Viewport
- Available Insulated or Uninsulated
- Tested to 10” W.G. positive pressure with minimal leakage noted
- Also Available In Stainless Steel

---

**Packaging Information**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Gauge</th>
<th>No. Per Carton</th>
<th>Lbs. Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>16” x 12”</td>
<td>DO*1612GA</td>
<td>22</td>
<td>5</td>
<td>32 lbs.</td>
</tr>
</tbody>
</table>

* Insert I for insulated or U for uninsulated

---

**SINGLE PANED OBSERVATION ACCESS DOOR**
10” x 6” Sandwich® Door With 4” x 2½” View Port

Allows inspection of the inside of duct without removing the door

Access door which allows inspection of the inside of the duct without door removal.

Provides a solid, leak proof door that offers a simple installation and ability to view the interior of HVAC single wall applications through a clear safety glass without the need to open access door.

- 4” x 2½” viewport
- Single pane of safety glass
- Tested to 10” w.g.

---

**Packaging Information**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Gauge</th>
<th>No. Per Carton</th>
<th>Lbs. Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>10” x 6”</td>
<td>D0106GA</td>
<td>22</td>
<td>10</td>
<td>25</td>
</tr>
</tbody>
</table>

**DOUBLE PANED AHU VIEWPORT ACCESS DOOR**
10” x 6” Sandwich® Door With 4” x 2½” View Port

Effective means for viewing working UV Lights

The AHU Viewport Panel provides a safe, effective means to view working UVC Emitters inside an air handling unit (AHU) with an insulated wall thickness of up to 3”. The AHU Viewport Panel includes 2 layers of laminated safety glass with a 4”x2½” clear window.

- 4” x 2½” viewport
- Two layers of safety glass
- Tested to 10” w.g.

---

**Packaging Information**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Gauge</th>
<th>No. Per Carton</th>
<th>Lbs. Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>10” x 6”</td>
<td>D0106GA4</td>
<td>22</td>
<td>10</td>
<td>25</td>
</tr>
</tbody>
</table>
**ACCESS DOORS**

**DRYWALL ACCESS DOOR**

Ideal For Drywall, Block, & Cement Board - Multipurpose for all construction trades

Ductmate® Drywall Access Doors are designed for installation into drywall, block, cement board and feature a one piece frame. These doors are suitable for either wall or ceiling applications. The frame has rounded corners for safety, hidden hinge pins, and a 1/4 turn slot drive latch. The doors are paintable and finish flush to the wall for a professional look.

- Precision stamped one piece design
- High quality professional satin finish
- Contoured corners for safety and aesthetics
- Stringent door/frame tolerances for clean streamline appearance
- Standard sizes 6” to 24” and 24” x 36”
- Special sizes and configurations available upon request

**ORDERING INFORMATION**

*EXAMPLE: DWF6SC*

<table>
<thead>
<tr>
<th>Door Type</th>
<th>Door Size</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>DWF = Drywall Framed</td>
<td>6” x 6”</td>
<td>SC = Satin Coating</td>
</tr>
<tr>
<td>8” x 8”</td>
<td>10” x 10”</td>
<td></td>
</tr>
<tr>
<td>12” x 12”</td>
<td>14” x 14”</td>
<td></td>
</tr>
<tr>
<td>16” x 16”</td>
<td>18” x 18”</td>
<td></td>
</tr>
<tr>
<td>20” x 20”</td>
<td>24” x 24”</td>
<td></td>
</tr>
<tr>
<td>24” x 36”</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WDCI SANDWICH® DOOR**

Oval Configuration

- Attached gasket makes door completely airtight
- Insulated with polyester foam permanently bonded to outer door
- Conical springs between inner and outer doors for easier operation
- Hand knobs have threaded brass inserts

**CROSS SECTION OF W.D.C.I. ACCESS DOOR**

(End View - Round)

**CROSS SECTION OF W.D.C.I. GREASE DUCT ACCESS DOOR**

(Side View - Round)

- Shape, design, and construction differ from Ductmate® Sandwich Door®
- Stamped from hot-dipped galvanized G-60
- No measuring (self adhesive template provided)
- No frame to install and seal
- Effortless opening and closing (no tools required)

**ORDERING INFORMATION**

*EXAMPLE: WR161236GA*

<table>
<thead>
<tr>
<th>Door Type</th>
<th>Insulation</th>
<th>Door Size</th>
<th>Duct Diameter (for round duct only)</th>
<th>High Temp Door Class</th>
<th>Alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>W = Flat</td>
<td>1 = Insulated</td>
<td>Rectangular Doors</td>
<td></td>
<td>F1 = 1000° F</td>
<td>GA = GALVANIZED</td>
</tr>
<tr>
<td>WR = Round</td>
<td>2 = Stainless</td>
<td>106 = 10” x 6”</td>
<td>10612 = 10” x 12”</td>
<td>14 = 13” - 14”</td>
<td>2 = ALUMINIZED</td>
</tr>
<tr>
<td>2418 = 24” x 18”</td>
<td>54 = 13” x 4”</td>
<td>6” - 28”</td>
<td>9 = 8” - 9”</td>
<td>14 = 13” - 14”</td>
<td>S4 = 304 STAINLESS</td>
</tr>
<tr>
<td>106 = 10” x 6”</td>
<td>1612 = 16” x 12”</td>
<td>12” - 20”</td>
<td>12 = 10” - 12”</td>
<td>18 = 17” - 20”</td>
<td>56 = 316 STAINLESS</td>
</tr>
<tr>
<td>1612 = 16” x 12”</td>
<td>2418 = 24” x 18”</td>
<td>20” - 60” (Over 60” consult factory)</td>
<td>14 = 13” - 14”</td>
<td>24 = 23” - 28”</td>
<td>BI = BLACK IRON</td>
</tr>
<tr>
<td>2418 = 24” x 18”</td>
<td>(Over 60” consult factory)</td>
<td></td>
<td>28 = 25” - 28”</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Only Available in Galvanized and 316 Stainless
** Only Door Available in Uninsulated (U)
**UL RATED GREASE DUCT DOOR**

**ULTIMATE DOOR™**

- UL 1978 Listed
- Easy to install sandwich design with no special tools required
- Minimal penetration into the duct
- Dramatically reduces installation time
- No welding required
- Grease tight
- Meets NFPA 96 Standards
- Union made in the U.S.A.
- Available in a variety of sizes
- Door is completely removable for easy cleaning
- Can be used with all types of duct wrap insulation systems
- No need for any clips
- No need for any drilling
- Unique collapsible handle design for easy installation

* Insert S4 for Stainless Steel (provided with Stainless Steel hex bolts).
* For D1212UL/D1212ULWS Stainless Steel is a special order and may take additional time.

* Insert BI for Black Iron.

In order to use the minimum duct height, the door must be installed with its longest dimension running horizontally along the length of the duct. If the minimum duct height is used, the top of the opening must be 2" from the top of the duct. For every inch over the minimum duct height, the opening can be lowered 1" from the top of the duct.

---

**Insert Size**

**Part #** | Description | Opening Size | Door Size | Minimum Duct Height | Packaging Quantity | Weight
---|---|---|---|---|---|---
D66UL* | UL Door Only | 6" x 6" | 8" x 8" | 13" | 5 | 25.3 lbs.
D66ULWS* | UL Door with Insulation Kit and 12" x 12" Outer Plate | 6" x 6" | 8" x 8" | 13" | 5 | 45.0 lbs.
D720UL* | UL Door Only | 7" x 20" | 9" x 22" | 13" | 3 | 36.0 lbs.
D720ULWS* | UL Door with Insulation Kit and 13" x 26" Outer Plate | 7" x 20" | 9" x 22" | 13" | 3 | 52.0 lbs.
D106UL* | UL Door Only | 10" x 6" | 12" x 8" | 12" | 5 | 39.0 lbs.
D106ULWS* | UL Door with Insulation Kit and 16" x 12" Outer Plate | 10" x 6" | 12" x 8" | 12" | 5 | 63.0 lbs.
D1010UL | UL Door Only | 10" x 10" | 12" x 12" | 17" | 5 | 57.0 lbs.
D1010ULWS* | UL Door with Insulation Kit and 16" x 16" Outer Plate | 10" x 10" | 12" x 12" | 17" | 5 | 70.0 lbs.
D128UL* | UL Door Only | 12" x 8" | 14" x 10" | 14" | 5 | 55.9 lbs.
D128ULWS* | UL Door with Insulation Kit and 18" x 14" Outer Plate | 12" x 8" | 14" x 10" | 14" | 5 | 70.0 lbs.
D1212UL* | UL Door Only | 12" x 12" | 14" x 14" | 19" | 2 | 24.0 lbs.
D1212ULWS* | UL Door with Insulation Kit and 18" x 18" Outer Plate | 12" x 12" | 14" x 14" | 19" | 2 | 43.5 lbs.
D1612UL* | UL Door Only | 16" x 12" | 18" x 14" | 18" | 2 | 25 lbs.
D1612ULWS* | UL Door with Insulation Kit and 22" x 18" Outer Plate | 16" x 12" | 18" x 14" | 18" | 2 | 54.6 lbs.
D1814UL* | UL Door Only | 18" x 14" | 20" x 16" | 20" | 2 | 48.0 lbs.
D1814ULWS* | UL Door with Insulation Kit and 24" x 20" Outer Plate | 18" x 14" | 20" x 16" | 20" | 2 | 68.0 lbs.
D2020UL* | UL Door Only | 20" x 20" | 22" x 22" | 26" | 1 | 36 lbs.
D2020ULWS* | UL Door with Insulation Kit and 26" x 26" Outer Plate | 20" x 20" | 22" x 22" | 26" | 1 | 49 lbs.
D2418UL* | UL Door Only | 24" x 18" | 26" x 20" | 24" | 1 | 39 lbs.
D2418ULWS* | UL Door with Insulation Kit and 30" x 24" Outer Plate | 24" x 18" | 26" x 20" | 24" | 1 | 50 lbs.

**ULINSULKIT** Kit 1: Four 8" extension studs, washers, fasteners, “Do Not Obstruct” stickers, and installation instructions | | | | | 5 | 1.12 lbs.

**OP_UL** Kit 2: UL Door Outer Plate | | | | | Consult Factory

*Insert Size*

**Insert Size**


**UL RATED GREASE DUCT DOOR**

**ULTIMATE DOOR II™**

- UL 1978 Listed
- Available with optional hinge
- No special tools to remove
- Minimal penetration into the duct
- Dramatically reduces installation time
- Grease tight
- Meets NFPA 96 Standards
- Union made in the U.S.A.
- Available in a variety of sizes
- Can be used with all types of duct wrap insulation systems
- No need for any clips
- No need for any drilling
- Unique collapsible handle design for easy installation
- Top plate is completely removable for easy cleaning

---

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Opening Size</th>
<th>Door Size</th>
<th>Minimum Duct Height</th>
<th>Packaging Quantity</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW66UL*</td>
<td>UL Door Only</td>
<td>6” x 6”</td>
<td>8” x 8”</td>
<td>9”</td>
<td>5</td>
<td>20.0 lbs.</td>
</tr>
<tr>
<td>DWH66UL*</td>
<td>UL Door with Insulation Kit and 12” x 12” Outer Plate</td>
<td>6” x 6”</td>
<td>8” x 8”</td>
<td>9”</td>
<td>5</td>
<td>26.7 lbs.</td>
</tr>
<tr>
<td>DW106UL*</td>
<td>UL Door Only</td>
<td>10” x 6”</td>
<td>12” x 8”</td>
<td>9”</td>
<td>5</td>
<td>38.1 lbs.</td>
</tr>
<tr>
<td>DWH106UL*</td>
<td>UL Door with Insulation Kit and 16” x 12” Outer Plate</td>
<td>10” x 6”</td>
<td>12” x 8”</td>
<td>9”</td>
<td>5</td>
<td>42.5 lbs.</td>
</tr>
<tr>
<td>DW1010UL*</td>
<td>UL Door Only</td>
<td>10” x 10”</td>
<td>12” x 12”</td>
<td>13”</td>
<td>5</td>
<td>40.0 lbs.</td>
</tr>
<tr>
<td>DWH1010UL*</td>
<td>UL Door with Insulation Kit and 16” x 16” Outer Plate</td>
<td>10” x 10”</td>
<td>12” x 12”</td>
<td>13”</td>
<td>4</td>
<td>50.0 lbs.</td>
</tr>
<tr>
<td>DW128UL*</td>
<td>UL Door Only</td>
<td>12” x 8”</td>
<td>14” x 10”</td>
<td>11”</td>
<td>5</td>
<td>46.2 lbs.</td>
</tr>
<tr>
<td>DWH128UL*</td>
<td>UL Door with Insulation Kit and 18” x 14” Outer Plate</td>
<td>12” x 8”</td>
<td>14” x 10”</td>
<td>11”</td>
<td>4</td>
<td>53.0 lbs.</td>
</tr>
<tr>
<td>DW1814UL*</td>
<td>UL Door Only</td>
<td>18” x 14”</td>
<td>20” x 16”</td>
<td>17”</td>
<td>2</td>
<td>32.6 lbs.</td>
</tr>
<tr>
<td>DWH1814UL*</td>
<td>UL Door with Insulation Kit and 24” x 20” Outer Plate</td>
<td>18” x 14”</td>
<td>20” x 16”</td>
<td>17”</td>
<td>2</td>
<td>34.0 lbs.</td>
</tr>
<tr>
<td>DW2020UL*</td>
<td>UL Door Only</td>
<td>20” x 20”</td>
<td>22” x 22”</td>
<td>23”</td>
<td>1</td>
<td>34.95 lbs.</td>
</tr>
<tr>
<td>DWH2020UL*</td>
<td>UL Door with Insulation Kit and 26” x 26” Outer Plate</td>
<td>20” x 20”</td>
<td>22” x 22”</td>
<td>23”</td>
<td>1</td>
<td>37.0 lbs.</td>
</tr>
<tr>
<td>DW2418UL*</td>
<td>UL Door Only</td>
<td>24” x 18”</td>
<td>26” x 20”</td>
<td>21”</td>
<td>1</td>
<td>23.5 lbs.</td>
</tr>
<tr>
<td>DWH2418UL*</td>
<td>UL Door with Insulation Kit and 30” x 24” Outer Plate</td>
<td>24” x 18”</td>
<td>26” x 20”</td>
<td>21”</td>
<td>1</td>
<td>36.0 lbs.</td>
</tr>
<tr>
<td>ULINSULKIT</td>
<td>Kit 1: Four 8” extension studs, washers, fasteners, “Do Not Obstruct” stickers, and installation instructions</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td>1.12 lbs.</td>
</tr>
<tr>
<td>OP_UL*</td>
<td>INSERT SIZE</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>Consult Factory</td>
</tr>
</tbody>
</table>

* Insert S4 for Stainless Steel (provided with Stainless Steel hex bolts).
* Insert BI for Black Iron.

Items in **Bold** refer to hinged doors.

Unlike the ULtimate sandwich style door, the ULtimate II weld on door requires minimal additional clearance. The duct only needs to be large enough to accommodate the frame and satisfy the NFPA 96 Standard. Although the frame only extends 1” past each side of the opening, the NFPA 96 standard requires a minimum of 1.5” clearance between the opening and all seams or edges. Therefore, a minimum of 1.5” clearance is recommended on each side of the opening. In order to use the minimum duct height, the door must be installed with its longest dimension running horizontally along the length of the duct.

---

**Listed**

88VF
Fittings for Hood and Duct Penetration
Grease Duct Access Door

---

**Ideas that work for you everyday...**
UL RATED GREASE DUCT DOOR

Ultimate Round Door Packaging Info and Sizing Guidelines

- UL 1978 Listed
- Easy to install Sandwich design with no special tools required
- Minimal penetration into the duct
- Dramatically reduces installation time
- No welding required
- Grease and air tight
- Meets NFPA 96 standards
- Union made in the U.S.A.
- Holes line up easily with adjustable fastening system
- Door is completely removable for easy cleaning
- Can be used with all types of duct wrap insulation systems
- No need for any clips
- No need for any drilling
- Unique collapsible handle design for easy installation

The door frame extends 1" around the opening; therefore, a minimum of 1" clearance is required on either side of the welded seam. Cutting the opening too close to the welded seam may lead to leakage.

For Use With Duct Wrap Systems

For Use With Duct Wrap Systems

XX Outer Plate Diameter
‡‡ Available in BI (Black Iron) or S4 (Stainless Steel Type 304) Outer plates will be offered to cover the 3 current round doors being offered.

<table>
<thead>
<tr>
<th>Door Part #</th>
<th>Description</th>
<th>Opening Size</th>
<th>Door Size</th>
<th>Minimum Diameter</th>
<th>Package Quantity</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR106†UL*</td>
<td>Round UL Door 10&quot; x 6&quot;</td>
<td>10&quot; x 6&quot;</td>
<td>12&quot; x 8&quot;</td>
<td>10&quot;</td>
<td>5</td>
<td>39.0 lbs</td>
</tr>
<tr>
<td>DR128†UL*</td>
<td>Round UL Door 12&quot; x 8&quot;</td>
<td>12&quot; x 8&quot;</td>
<td>14&quot; x 10&quot;</td>
<td>10&quot;</td>
<td>5</td>
<td>55.9 lbs</td>
</tr>
<tr>
<td>DR1814†UL*</td>
<td>Round UL Door 18&quot; x 14&quot;</td>
<td>18&quot; x 14&quot;</td>
<td>20&quot; x 16&quot;</td>
<td>14&quot;</td>
<td>2</td>
<td>48.0 lbs</td>
</tr>
</tbody>
</table>

For Use With Duct Wrap Systems

‡ Insert pipe diameter.
* Insert S4 for Stainless Steel (provided with Stainless Steel hex bolts).
* Insert BI for Black Iron.

<table>
<thead>
<tr>
<th>Outer Template Part #</th>
<th>Description</th>
<th>Outer Plate</th>
<th>Package Quantity</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPR106ULXX‡‡ (Sold Separately)</td>
<td>Outer Plate for 10&quot; x 6&quot; Door</td>
<td>16&quot; x 12&quot;</td>
<td>1</td>
<td>Consult Factory</td>
</tr>
<tr>
<td>OPR128ULXX‡‡ (Sold Separately)</td>
<td>Outer Plate for 12&quot; x 8&quot; Door</td>
<td>18&quot; x 14&quot;</td>
<td>1</td>
<td>Consult Factory</td>
</tr>
<tr>
<td>OPR1814ULXX‡‡ (Sold Separately)</td>
<td>Outer Plate for 18&quot; x 14&quot; Door</td>
<td>24&quot; x 20&quot;</td>
<td>1</td>
<td>Consult Factory</td>
</tr>
<tr>
<td>ULRINSULKIT (Sold Separately)</td>
<td>Insulation Kit: Two(2) 6&quot; extension studs, 2 washers, 2 coupler nuts, 2 wing nuts, “Do Not Obstruct” sticker, and Installation Instructions.</td>
<td>1</td>
<td>1.0 lbs</td>
<td></td>
</tr>
</tbody>
</table>

Note: To determine the diameter of the outer plate: Insulation thickness x number of layers x 2 + duct diameter
Example: Diameter of the duct is 14" using 3 layers of 1½" insulation. (1½" x 3) x 2 + 14" = 23" Outer Plate.

Part# OPR106UL23BI

UL RATED GREASE DUCT DOOR

CUSTOM SIZES NOW AVAILABLE!
SQUARE FRAMED ACCESS DOORS

STANDARD CHARACTERISTICS OF DUCTMATE SQUARE FRAMED ACCESS DOORS

- DOUBLE GASKETED
- PRECISION DESIGNED AND MANUFACTURED
- INSULATED
- AVAILABLE IN SPECIALTY METALS & RECTANGULAR SIZES

TECHNICAL INFORMATION

- 1” High density fiber glass insulation board made from inorganic glass fibers bonded with renewable bio-based materials (FHC25/50).
- R Valve 4.2.
- Door consists of two, 24 gauge galvanized steel panels, mechanically locked together.
- Meets SMACNA requirements for low pressure doors (2” w.g. positive/2” w.g. negative).
- Closed cell cross-linked polyethylene gasketing, with a service temperature range of -70°F to 175°F, is bonded to the inside of both the Dovetail frame and Press-On frames, and also to the outside of the Dovetail frame only.
- Double-sided adhesive gasket: closed cell cross-linked polyethylene is UL 94HF1 listed with a temperature range -110°F to 158°F and is bonded to the outside of the Press-on frame only for easy installation to metal ductwork.
- Frames measuring 6” x 6” to 12” x 12” are manufactured from 24 gauge galvanized steel. Frames measuring 14” x 14” to 24” x 24” are manufactured from 22 gauge steel.
- Dovetail frames have an improved design for easy installation on Metal Ductwall, 1” Duct Board or 1 1/2” Duct Board.*
- Hinged Models come with full length piano hinge secured to both the door and frame.
- All cams are manufactured from 16 gauge galvanized steel and secured to the door with a rivet.
- All latches are manufactured from 20 gauge galvanized steel and securely fastened to the frame.
- All Hinge and Cam Doors available with additional Cam Locks*
- All Cam Doors available with optional Chain*
* Consult Ductmate for ordering information

Doors For Metal And High Pressure Ductwall

Tabbed:

Tabbed High Pressure:

Press-On:

Doors For Duct Board

* 1” or 1½”

* Doors can be manufactured with dovetailed flange in extended widths to accommodate 1” or 1 1/2” thick Duct Board.

ORDERING INFORMATION

EXAMPLE: FD1C10GA

<table>
<thead>
<tr>
<th>Door Type</th>
<th>Frame Type</th>
<th>Closure</th>
<th>Sizes:**</th>
<th>Alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD = Framed Door</td>
<td>1 = 1” Duct Board</td>
<td>C = Cam Latch</td>
<td>6 = 6” x 6”</td>
<td>GA = Galvanized</td>
</tr>
<tr>
<td></td>
<td>15 = 1 1/2” Duct Board</td>
<td>H = Hinge</td>
<td>8 = 8” x 8”</td>
<td>GN = Galvanneal</td>
</tr>
<tr>
<td></td>
<td>P = Press-On Frame</td>
<td></td>
<td>10 = 10” x 10”</td>
<td>AL = Aluminum</td>
</tr>
<tr>
<td></td>
<td>HP = High Pressure (Insert nothing for a tabbed door for metal ductwall, Example: FDC10GA)</td>
<td></td>
<td>12 = 12” x 12”</td>
<td>AZ = Aluminized</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>14 = 14” x 14”</td>
<td>S4 = 304 Stainless</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>16 = 16” x 16”</td>
<td>S6 = 316 Stainless</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>18 = 18” x 18”</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>20 = 20” x 20”</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>24 = 24” x 24”</td>
<td></td>
</tr>
</tbody>
</table>

** Note: Sizes Larger Than 14”: Hinged: Two Cams Are Attached Opposite The Hinge -- Cam Latch: Four Cams Are Attached
Doors are available up to size 36”x36” for square or rectangular

PACKAGING INFORMATION

<table>
<thead>
<tr>
<th>Door Size</th>
<th>6”</th>
<th>8”</th>
<th>10”</th>
<th>12”</th>
<th>14”</th>
<th>16”</th>
<th>18”</th>
<th>20”</th>
<th>24”</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. / Carton</td>
<td>20</td>
<td>20</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Lbs / Carton</td>
<td>31</td>
<td>45</td>
<td>30</td>
<td>39</td>
<td>50</td>
<td>30</td>
<td>38</td>
<td>45</td>
<td>60</td>
</tr>
</tbody>
</table>
CLUTCHER CABLE HANGING/REINFORCEMENT SYSTEM

U.S. Patent No. 7,222,824

• Meets SMACNA upper and lower attachment construction standards if used per manufacturer’s installation guidelines
• Comprehensive Clutcher Hanging System Load Charts and Installation Videos available online at Ductmate.com
• Seismic tested and conforms to ICC Code guidelines AC284
• Engineered for strength and durability
• Tapered bore design for fast and easy installation
•Eliminates the need to stock multiple lengths of cable
• Compact design is aesthetically pleasing
• Easily adjust hanging height by hand
• Available in 3 sizes to meet specific load ranges
• Items can be hung at angles up to 60° from vertical

The Ductmate Clutcher System and Ductmate Clutcher Cable Must Always be Used In Conjunction. Use Of Any Other Steel Cable Is Prohibited.

PACKAGING INFO

<table>
<thead>
<tr>
<th>Size</th>
<th>Box Quantity</th>
<th>Bag Quantity</th>
<th>Bag/Boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL10</td>
<td>500</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>CL20</td>
<td>400</td>
<td>10</td>
<td>40</td>
</tr>
<tr>
<td>CL30</td>
<td>120</td>
<td>4</td>
<td>30</td>
</tr>
</tbody>
</table>

LOAD RATINGS

<table>
<thead>
<tr>
<th>Clutcher Part #</th>
<th>Load Rating</th>
<th>Required Ductmate Clutcher Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL10</td>
<td>125 lbs.</td>
<td>WR10</td>
</tr>
<tr>
<td>CL20</td>
<td>250 lbs.</td>
<td>WR20</td>
</tr>
<tr>
<td>CL30</td>
<td>650 lbs.</td>
<td>WR30</td>
</tr>
</tbody>
</table>
CLUTCHER CABLE

Ductmate Clutcher cable is designed for the suspension of HVAC systems. This product has been designed exclusively to be used in conjunction with Ductmate’s Clutcher Cable Hanging System.

- Ductmate Clutcher Cable can be easily recognized by the unique red thread woven into the cable
- Engineered for superior strength
- Supplied in spools of 500’ and 1000’ to reduce waste
- Available in 3 diameter sizes to match each Clutcher mechanism

The Ductmate Clutcher System and Ductmate Clutcher Cable Must Always be Used In Conjunction. Use Of Any Other Steel Cable Is Prohibited.

TECHNICAL and PACKAGING INFORMATION

<table>
<thead>
<tr>
<th>Part #</th>
<th>Length</th>
<th>For use with</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR10500</td>
<td>500’/Spool</td>
<td>CL10</td>
</tr>
<tr>
<td>WR101000</td>
<td>1000’/Spool</td>
<td>CL10</td>
</tr>
<tr>
<td>WR20500</td>
<td>500’/Spool</td>
<td>CL20</td>
</tr>
<tr>
<td>WR201000</td>
<td>1000’/Spool</td>
<td>CL20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #</th>
<th>Length</th>
<th>For use with</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR30500</td>
<td>500’/Spool</td>
<td>CL30</td>
</tr>
<tr>
<td>WR301000</td>
<td>1000’/Spool</td>
<td>CL30</td>
</tr>
</tbody>
</table>

Also Available:

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFCCS</td>
<td>Corner Cleat Saddle for rectangular duct edges. For WR10 &amp; WR20.</td>
</tr>
<tr>
<td>HFWRC</td>
<td>Clutcher Cable Cutter for WR10 &amp; WR20 Clutcher Cable</td>
</tr>
<tr>
<td>HWRC</td>
<td>Clutcher Cable Cutter for WR10 &amp; WR20 Clutcher Cable</td>
</tr>
<tr>
<td>WESTWARD</td>
<td>Heavy Duty Clutcher Cable Cutter for WR30 Clutcher Cable</td>
</tr>
<tr>
<td>Model #10D453</td>
<td></td>
</tr>
<tr>
<td>CLTOOL1020</td>
<td>Declutcher for CL10 &amp; CL20</td>
</tr>
</tbody>
</table>
Direct Mount Hanging Bracket For Condenser Units, Heat Pumps, and Other Equipment.

HANGER SYSTEMS

HurricaneAir Brace™

Compare the Air Brace to Conventional Methods

- Rugged structural grade steel construction
- Tested for use in hurricane regions
- Meets the most stringent building codes!
- Available in stainless steel type 304 (Hardware included)
- Engineered product to determine allowable weight loads
- No leveling of ground or waiting for final grade
- No need for shovels, gravel, or block
- Provided individually packaged in a sturdy box
- Reduced chance for air blockage

- No cracking, chipping, or decaying
- Bracket supports are a true 90° angle
- Right and left brackets are rounded as an added safety factor
- 10 Gauge mounting brackets are precision punched for accurate spacing every time
- Includes 6 hurricane straps (1” x 6” x 16 ga. galvanized G90)
- Lightweight—transports easily
- Assembles and mounts in minutes
- Perfect for low-lying and flood-prone areas

Technical Information

<table>
<thead>
<tr>
<th>Wall Material</th>
<th>Allowable Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Block/Brick</td>
<td>375</td>
</tr>
<tr>
<td>Concrete</td>
<td>425</td>
</tr>
<tr>
<td>Steel Stud</td>
<td>375</td>
</tr>
<tr>
<td>Wood Stud</td>
<td>375</td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Packaging</th>
<th>Shipping</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRBRACE36GA</td>
<td>36” x 30” Condenser Unit Support</td>
<td>1 per box</td>
<td>16.4 lbs. each</td>
</tr>
<tr>
<td>AIRBRACE45GA</td>
<td>45” x 36” Condenser Unit Support</td>
<td>1 per box</td>
<td>23 lbs. each</td>
</tr>
<tr>
<td>AIRBRACE55GA</td>
<td>55” x 48” Condenser Unit Support</td>
<td>1 per box</td>
<td>30.85 lbs. each</td>
</tr>
</tbody>
</table>

* All widths adjustable down to 20”

Also available in 304 Stainless Steel

Mounting fasteners not included: Because of the diversity of wall materials, (brick, wood, concrete, etc.) the mounting is the responsibility of the installer.

Note: If using only one hole in the mounting brackets, use the bottom hole.
DUCTMATE TRAPEZE DUCT HANGER

DESCRIPTION

Pre-punched channel section for supporting rectangular or oval ductwork.

SPECIAL CHARACTERISTICS

- 18 gauge galvanized, 20' lengths 2" high x 1-1/2" wide. Oval holes punched 2" on center.
- Easy to cut, light in weight, low in theft
- Neat professional appearance
- Eliminates the hard to cut and punched angle iron, and painting of same, when applicable. Nothing is done in the shop, ship directly to jobsite for immediate use.
- Highly competitive in pricing to 2"x2"x1/4", 2-1/2"x2-1/2"x1/8"x1/8", 2"x2"x3/16" black angle iron, galvanized iron, or unistrut when all is considered.
- Versatile enough to standardize, thus possibly replacing several other types of hangers, reducing inventory cost.

INSTALLATION INSTRUCTIONS

1. Cut trapeze duct hanger to size.
2. Slide all thread through pre-punched oval holes. Slide on washer (included with each bundle), tighten nut.
3. Space hanger rods according to load chart below:

<table>
<thead>
<tr>
<th>L</th>
<th>d=2 inches P (lbs)</th>
<th>*d=6 inches P (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18&quot;</td>
<td>1100</td>
<td>850</td>
</tr>
<tr>
<td>24&quot;</td>
<td>1100</td>
<td>850</td>
</tr>
<tr>
<td>30&quot;</td>
<td>1100</td>
<td>840</td>
</tr>
<tr>
<td>36&quot;</td>
<td>1100</td>
<td>830</td>
</tr>
<tr>
<td>42&quot;</td>
<td>1100</td>
<td>810</td>
</tr>
<tr>
<td>48&quot;</td>
<td>1100</td>
<td>780</td>
</tr>
<tr>
<td>54&quot;</td>
<td>1100</td>
<td>735</td>
</tr>
<tr>
<td>60&quot;</td>
<td>1100</td>
<td>680</td>
</tr>
<tr>
<td>66&quot;</td>
<td>1100</td>
<td>600</td>
</tr>
<tr>
<td>72&quot;</td>
<td>1100</td>
<td>520</td>
</tr>
<tr>
<td>78&quot;</td>
<td>680</td>
<td>400</td>
</tr>
<tr>
<td>84&quot;</td>
<td>190</td>
<td>275</td>
</tr>
<tr>
<td>96&quot;</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>108&quot;</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

L = Distance between hanger rods.
D = Distance between hanger rods and duct wall. Above tables assume duct is centered between hangers.
P = Total weight of duct including reinforcements, connections, insulation, etc. NOTE: For d greater than 2 inches, the 6 inch table MUST be used.

See page 5.14 fig. 5-6 of the 2005 SMACNA HVAC Duct Construction Standards - metal and flexible for calculation method.

* This table is similar to table in SMACNA in that it assumes a 6" space between duct and hanger rod.

PACKAGING INFORMATION

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Product</th>
<th>Packing Unit</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRAP03GA</td>
<td>Trapeze Hanger</td>
<td>300' bundle w/75 washers</td>
<td>360 lbs/bdl</td>
</tr>
<tr>
<td>TRAP05GA</td>
<td>Trapeze Hanger</td>
<td>500' bundle w/125 washers</td>
<td>600 lbs/bdl</td>
</tr>
<tr>
<td>DM2735AS</td>
<td>Isolation Pad</td>
<td>100 Pieces</td>
<td>12 lbs/carton</td>
</tr>
<tr>
<td>TBCLAMP1</td>
<td>Beam Clamp only</td>
<td>Each</td>
<td>.275 lbs</td>
</tr>
<tr>
<td>TBCLAMP</td>
<td>Beam Clamp Assembly*</td>
<td>100 Pieces</td>
<td>48 lbs/carton</td>
</tr>
</tbody>
</table>

* Beam Clamp Assembly consists of: beam clamp, trap washer, 3/8 x 6" bolt, 2 flat washers, and nut.
HANGER SYSTEMS

VISUALLY APPEALING DUCT HANGERS
NO TOOLING OR FABRICATION REQUIRED

Please Contact Ductmate About Specialty Metal Requests

ISOLATION DUCT HANGER

The sturdy tension bracket has a much greater load-bearing capacity than the corresponding threaded rods.

The rubber padding which prevents vibrations from being transmitted is 1-3/4” (45 mm) x 2” (50 mm) and 2-3/16” (55 mm) thick.

RUBBER PREVENTS VIBRATION NOISE TRANSMISSION FROM AIR DUCTS AND OTHER VENTILATION DEVICES TO PARTS OF THE BUILDING.

- For 3/8” Threaded Rod
- Overall Length 5-7/8” (150mm)
- Max. Width 1-13/16”x1-13/16” (45x45mm)
- Load-Bearing Capacity: 1100 lbs (500 kg) 680 lbs (308 kg) is the maximum allowable load with ⅜” rod.
- Packing Unit: 50 Pcs./Case
  @ 37 lbs (17KG)/Case

Technical Information:

- Finish/Coating: Zinc Electroplated to 10-15 Microns
- Rubber Type: Styrene-butadiene
- Durometer Hardness: 75-85 Shore Hardness
- Max Temp: 194° F
- Min Temp: -22° F

Part No. DM2723SI

ROUND DUCT HANGER

Specifications:

- Manufactured from 20 gauge galvanized metal.
- ¼”-20x1” carriage bolt with zinc plated wing nut.
- No tools needed

Part Number Variation: RDH_*GA20

* Insert desired diameter in sizes
  3”-10” (in 1” increments)
  12”-34” (in 2” increments)
HANGER SYSTEMS

ROUND DUCT STRAP BRACKET

THE IDEAL WAY TO HANG ROUND DUCTWORK.
NO TOOLS NEEDED.
THE STEEL STRAP IS HAND BENT INTO THE BRACKET WHICH IS SELF LOADING.

CONVENIENT STRAPPING FOR HANGING

- Convenient carrying handle
- Easy to dispense box design
- Standard galvanized
- Available in stainless
- Perfect for small or difficult installations

VINYL DUCT STRAPPING

SIMPLEST WAY TO HANG FLEXIBLE OR LIGHT WEIGHT DUCT.
STRONGEST ALL-PURPOSE FABRIC.
PERFECT FOR SMALL INSTALLATIONS.

PART NUMBER VARIATIONS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Alloy</th>
<th>PACKAGING QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM4703</td>
<td>GA = 14 GA. Galvanized</td>
<td>200 Pcs./Case @ 27.5 Lbs. (12.5 KG)/Case</td>
</tr>
<tr>
<td>DM471S</td>
<td>S6 = 316 Stainless Steel</td>
<td></td>
</tr>
</tbody>
</table>

SPECIFICATIONS

- Can be used with ductwork up to 50" in diameter
- Fits strapping 1" in width, gauges 18 - 22
- Can be used with rod 5/16" - 3/8"
- Review SMACNA’s 2005 HVAC Duct Construction Standards Table 5-1 for allowable weight load

STRAPPING IN A BOX

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>GAUGE</th>
<th>WIDTH</th>
<th>WT. PER BOX</th>
<th>FT. PER BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1BSTGA16</td>
<td>16</td>
<td>1&quot;</td>
<td>22 LBS</td>
<td>100</td>
</tr>
<tr>
<td>1BSTGA18</td>
<td>18</td>
<td>1&quot;</td>
<td>17 LBS</td>
<td>100</td>
</tr>
<tr>
<td>1BSTGA20</td>
<td>20</td>
<td>1&quot;</td>
<td>12 LBS</td>
<td>100</td>
</tr>
<tr>
<td>1BSTGA22</td>
<td>22</td>
<td>1&quot;</td>
<td>21 LBS</td>
<td>200</td>
</tr>
<tr>
<td>1BSTGA24</td>
<td>24</td>
<td>1&quot;</td>
<td>17 LBS</td>
<td>200</td>
</tr>
<tr>
<td>1BSTGA26</td>
<td>26</td>
<td>1&quot;</td>
<td>15 LBS</td>
<td>200</td>
</tr>
<tr>
<td>1.5BSTGA24</td>
<td>24</td>
<td>1.5&quot;</td>
<td>26 LBS</td>
<td>200</td>
</tr>
<tr>
<td>1.5BSTGA26</td>
<td>26</td>
<td>1.5&quot;</td>
<td>20 LBS</td>
<td>200</td>
</tr>
<tr>
<td>1.5BSTGA28</td>
<td>28</td>
<td>1.5&quot;</td>
<td>18 LBS</td>
<td>200</td>
</tr>
</tbody>
</table>

STRAPPING IN 10' LENGTHS

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>GAUGE</th>
<th>WIDTH</th>
<th>WT. (lbs.)</th>
<th>PACKAGING QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1STGA16</td>
<td>16</td>
<td>1&quot;</td>
<td>.200/LF</td>
<td>10' LENGTHS 100' BUNDLES (ALL GAUGES)</td>
</tr>
<tr>
<td>1STGA18</td>
<td>18</td>
<td>1&quot;</td>
<td>.170/LF</td>
<td></td>
</tr>
<tr>
<td>1STGA20</td>
<td>20</td>
<td>1&quot;</td>
<td>.120/LF</td>
<td></td>
</tr>
<tr>
<td>1STGA24</td>
<td>24</td>
<td>1&quot;</td>
<td>.100/LF</td>
<td></td>
</tr>
<tr>
<td>1STGA26</td>
<td>26</td>
<td>1&quot;</td>
<td>.074/LF</td>
<td></td>
</tr>
</tbody>
</table>

STRAPPING IN COILS

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>GAUGE</th>
<th>WIDTH</th>
<th>WEIGHT</th>
<th>LENGTH</th>
<th>PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1CST100GA18</td>
<td>18</td>
<td>1&quot;</td>
<td>APP. 100 LBS. PER COIL</td>
<td>APP. 610 FT PER COIL</td>
<td>1 SKID 10 COILS - 1000 LBS.</td>
</tr>
</tbody>
</table>

100 LB Coils have a 20” I.D. with 30” O.D.
18 gauge hot-dipped galvanized (meets ASTM-A-653 G 60/90)
Available in 100 pound coils
Each coil is banded with metal straps
Orders must be by full skids

CONVENIENT STRAPPING FOR HANGING

- Convenient carrying handle
- Easy to dispense box design
- Standard galvanized
- Available in stainless
- Perfect for small or difficult installations

SPECIFICATIONS

- Can be used with light weight steel and flexible duct
- Fabric is NFPA 701
- Vinyl width size is 1.5"
- Custom widths available, minimum purchase required

VINYL SUPER DUTY FABRIC SPECIFICATIONS (Dual Fabric)

Base Fabric: Polyester/Polyester
Color: Gray
Weight: 20 oz/sq.yd ± 2
Tearing Strength: W: 65 lbs F: 70 lbs
Tensile Strength: W: 425 lbs F: 280 lbs
Low Temperature: -40°F
High Temperature: 200°F

Ideas that work for you everyday...
EASYROD TIE ROD CONSTRUCTION

A simple, strong component system to make the installation of tie rods faster. Can be used for both positive and negative pressure.

NEW MAGNETIC TIE ROD ANCHOR SET

Innovative device to help install the bolt anchor into pipe. Heavy cast steel with magnetic tip insures a fast, strong friction fit.

- Pull out strength of 600 lbs for ½" and 900 lbs for ¾"
- Quickly inserts into ductwork
- Can be used for both Positive and Negative pressure

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>PACKING UNIT</th>
<th>UNIT WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ50</td>
<td>BOLT, WASHER, INSERT FOR 1/2&quot; EMT CONDUIT</td>
<td>250 SETS</td>
<td>9 LBS (4.1 KG)</td>
</tr>
<tr>
<td>EZ75</td>
<td>BOLT, WASHER, INSERT FOR 3/4&quot; EMT CONDUIT</td>
<td>250 SETS</td>
<td>10 LBS (4.5 KG)</td>
</tr>
<tr>
<td>EZTOOL</td>
<td>MAGNETIC TIE ROD ANCHOR SET</td>
<td>1 EA.</td>
<td>2 LBS (.9 KG)</td>
</tr>
</tbody>
</table>

EASYSTUD TIE ROD CONSTRUCTION

- Pull out strength of 600 lbs
- Quickly inserts into ductwork
- Can be easily installed by one person
- Can be used for both Positive and Negative pressure

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>PACKING UNIT</th>
<th>UNIT WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES50</td>
<td>INSERT WITH THREADED ROD ATTACHED, WASHER, NUT, FOR 1/2&quot; EMT CONDUIT</td>
<td>250 SETS</td>
<td>10.5 LBS (4.1 KG)</td>
</tr>
<tr>
<td>ESTOOL</td>
<td>INSEETER TOOL FOR EASYSTUD</td>
<td>1 EA</td>
<td>2 LBS (.9 KG)</td>
</tr>
</tbody>
</table>
**REINFORCEMENTS**

**FEATURES:**
- Advanced Design
- Cost Effective
- Light Weight
- Strong
- Easy To Use

**SPECIFICATIONS:**
- Precision roll-formed from 24 gauge galvanized steel.
- Classification Conforms to SMACNA “H” equivalent.

**RECOMMENDED USE:**
Intermediate reinforcement for rectangular duct. Fasten within 3/4" of vertical duct wall, then 8" on center.

**PACKAGING:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Weight</th>
<th>Length/Bundle</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLST15GA</td>
<td>“Z-BAR”</td>
<td>.67 lbs/ft</td>
<td>(75) 20’ pcs/1500’ bdl.</td>
</tr>
</tbody>
</table>

NOTE: CONSULT MATERIAL AVAILABILITY CHART FOR SPECIALTY ALLOYS

**DUCTMATE “Z-BAR” REINFORCEMENT**

**REETAIN ANGLE FOR EXTERNAL REINFORCEMENT & FRAMING FIRE DAMPERS**

- Cold formed galvanized angle
- SMACNA E class rigidity (may be used for duct reinforcement)
- Available in 14, 16, and 18 gauge
- Optional pre-punched 7/32 holes (one or both sides) for faster fastening of angle to sleeve
- Available in 10’ and 20’ lengths; 12’ lengths also available in certain sizes/gauges
- Available in 1.5” and 2”
- Additional angle and bundle sizes, gauges, and materials available - contact Ductmate for availability

**Typical Installation Details**

(A) Retaining Angles: Minimum 1 1/2 x 1 1/2 x 0/058 (16 ga.) Retaining angles must lap structural opening 1” minimum and cover corners of openings.

(B) Clearance: 1/8 Per Linear Foot Both Dimensions.

(C) Steel Sleeve

(D) Approved Fire Damper (curtain or blade type)

(E) Secure Retaining Angle to Sleeve Only on 8” Centers With:
1. 1/2 long welds or
2. 1/4 Bolts and Nuts, or
3. No. 10 screws, or
4. Minimum 3/16 Steel Rivets

(F) Secure Damper To Sleeve On 8” Centers With:
1. 1/2 long welds, or
2. 1/4 Bolts and Nuts, or
3. No. 10 Steel Screws, or
4. Minimum 1/16 Steel Rivets

**MEETS ASHRAE, SMACNA and UMC STANDARDS**

**FEATURES:**
- Advanced Design
- Cost Effective
- Light Weight
- Strong
- Easy To Use

**SPECIFICATIONS:**
- Precision roll-formed from 24 gauge galvanized steel.
- Classification Conforms to SMACNA “H” equivalent.

**PACKAGING:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bundle Size</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI1.5*GA1410**</td>
<td>1.5” X 1.5” - 14 ga</td>
<td>1000’</td>
<td>.73 lbs/lf.</td>
<td>10’ or 20’ pcs</td>
</tr>
<tr>
<td>AI1.5*GA1450**</td>
<td>1.5” X 1.5” - 14 ga</td>
<td>500’</td>
<td>.73 lbs/lf.</td>
<td>10’ or 20’ pcs</td>
</tr>
<tr>
<td>AI1.5*GA1610**</td>
<td>1.5” X 1.5” - 16 ga</td>
<td>1000’</td>
<td>.62 lbs/lf.</td>
<td>10’ or 20’ pcs</td>
</tr>
<tr>
<td>AI1.512GA16600</td>
<td>1.5” X 1.5” - 16 ga</td>
<td>600’</td>
<td>.62 lbs/lf.</td>
<td>12’ pcs</td>
</tr>
<tr>
<td>AI1.5*GA1650**</td>
<td>1.5” X 1.5” - 16 ga</td>
<td>500’</td>
<td>.62 lbs/lf.</td>
<td>10’ or 20’ pcs</td>
</tr>
<tr>
<td>AI2*GA141000**</td>
<td>2” X 2” - 14 ga</td>
<td>1000’</td>
<td>1.04 lbs/lf.</td>
<td>10’ or 20’ pcs</td>
</tr>
<tr>
<td>AI2*GA161000**</td>
<td>2” X 2” - 16 ga</td>
<td>1000’</td>
<td>.77 lbs/lf.</td>
<td>10’ or 20’ pcs</td>
</tr>
<tr>
<td>AI2*GA181000**</td>
<td>2” X 2” - 18 ga</td>
<td>1000’</td>
<td>.632 lbs/lf.</td>
<td>10’ or 20’ pcs</td>
</tr>
</tbody>
</table>

* Insert 10 for 10’ lengths; Insert 20 for 20’ lengths
** Insert H for holes; NH for no holes
EXAMPLE: AI1.520GA1410NH = 20’ length, no holes
UNIQUE FRICTION-FIT FEATURES & BENEFITS

- Assembles quickly and easily
- Substantial reduction in labor
- Superior pull-out strength / tested to 15" W.G.
- Securely locks vane & rail together
- Tabs conform to SMACNA's spacing standards
- No mechanical fasteners required
- No special tools needed
- Vanes are automatically centered and aligned
- Extended tabs increase vane rigidity resulting in less noise & vibration
- Works on standard 2” & 4” double wall and acoustical vanes
- Magnetic templates available to ease fastening rail to ductwall
- Installation literature available for reducing elbows, offsets, etc.
- Available for double wall vane only

ORDERING INFORMATION
EXAMPLE: 2PRGA24

<table>
<thead>
<tr>
<th>P R O R A I L SIZE</th>
<th>A L L O Y</th>
<th>G A U G E S</th>
</tr>
</thead>
<tbody>
<tr>
<td>2PR</td>
<td>Example: GA</td>
<td>Example: 24</td>
</tr>
<tr>
<td>2PR = 2” PRORAIL</td>
<td>GA = GALVANIZED</td>
<td>22 = 22 GA</td>
</tr>
<tr>
<td>4PR = 4” PRORAIL</td>
<td>GN = GALVANEAL</td>
<td>24 = 24 GA</td>
</tr>
<tr>
<td></td>
<td>S4 = 304 STAINLESS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S6 = 316 STAINLESS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AZ = ALUMINIZED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AL = ALUMINUM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI = BLACK IRON</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PVC = PVC COATED</td>
<td></td>
</tr>
</tbody>
</table>

PACKAGING INFORMATION

<table>
<thead>
<tr>
<th>I T E M</th>
<th>P A C K A G I N G Q T Y</th>
<th>W E I G H T (l b s / f t)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” R A I L</td>
<td>10’/ea-100’/bdll</td>
<td>.47 .39</td>
</tr>
<tr>
<td>4” R A I L</td>
<td>10’/ea-100’/bdll</td>
<td>.73 .61</td>
</tr>
</tbody>
</table>
TURNING VANE AND RAIL SYSTEMS

ECONORAIL™

- Can be used with a variety of double wall vane
- Easily attaches vane to rail without the use of fasteners
- Economic means to install double wall vane
- No special tools required
- Tab Spacing - Does not meet SMACNA
  - 2" - 2½"
  - 4" - 3½"

PACKAGING

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PACKAGING</th>
<th>22 ga</th>
<th>24 ga</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot; RAIL</td>
<td>10'/ea-100'/bdl</td>
<td>.47</td>
<td>.39</td>
</tr>
<tr>
<td>4&quot; RAIL</td>
<td>10'/ea-100'/bdl</td>
<td>.87</td>
<td>.74</td>
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ORDERING INFORMATION

<table>
<thead>
<tr>
<th>ECONORAIL SIZE</th>
<th>ALLOY TYPE</th>
<th>GAUGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: 2ER</td>
<td>GA = GALVANIZED</td>
<td>Example: 22</td>
</tr>
<tr>
<td>2ER = 2&quot; ECONORAIL</td>
<td>GN = GALVANEAL</td>
<td>24 GA</td>
</tr>
<tr>
<td>4ER = 4&quot; ECONORAIL</td>
<td>S4 = 304 STAINLESS</td>
<td>24 GA</td>
</tr>
<tr>
<td></td>
<td>S6 = 316 STAINLESS</td>
<td></td>
</tr>
</tbody>
</table>

MONORAIL™

- Versatile single wall or double wall system
- Slotted for even spacing of vane
- Rigid design for reduced vibration
- No special tools required
- Tab Spacing - Does not meet SMACNA
  - 2" - 2½"
  - 4" - 3½"

PACKAGING

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PACKAGING</th>
<th>WEIGHT (per Box)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot; Rail</td>
<td>100'/Roll - 2 Roll/Box</td>
<td>40 Lbs.</td>
</tr>
<tr>
<td>4&quot; Rail</td>
<td>100'/Roll - 1 Roll/Box</td>
<td>40 Lbs.</td>
</tr>
</tbody>
</table>

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>MONORAIL SIZE</th>
<th>ALLOY TYPE</th>
<th>GAUGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>2MR = 2&quot; Monorail</td>
<td>GA = GALVANIZED</td>
<td>Example: 24</td>
</tr>
<tr>
<td>4MR = 4&quot; Monorail</td>
<td>AL = ALUMINUM</td>
<td>24 GA</td>
</tr>
<tr>
<td></td>
<td>S4 = 304 STAINLESS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S6 = 316 STAINLESS</td>
<td></td>
</tr>
</tbody>
</table>

DOUBLE WALL TURNING VANE

4" vane is available in two options:
1. Standard Double Wall
2. Acoustical Vane
- Sound-absorbing insulation inside perforated metal fascia.
- Dimpled seam for superior strength
- Consistent product quality
- Union made in the U.S.A.

PACKAGING

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PACKAGING</th>
<th>WEIGHT (lbs/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot; SINGLE WALL VANE</td>
<td>10'/EA-100'/bdl</td>
<td>.22</td>
</tr>
<tr>
<td>4&quot; DOUBLE WALL VANE</td>
<td>10'/EA-100'/bdl</td>
<td>.43</td>
</tr>
<tr>
<td>4&quot; SINGLE WALL VANE</td>
<td>10'/EA-50'/bdl</td>
<td>.65</td>
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<tr>
<td>4&quot; DOUBLE WALL ACoustical VANE</td>
<td>10'/EA-50'/bdl</td>
<td>1.3</td>
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</table>

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>VANE SIZE</th>
<th>ALLOY TYPE</th>
<th>GAUGES</th>
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</thead>
<tbody>
<tr>
<td>2V = 2&quot; Double Wall Vane</td>
<td>GA = GALVANIZED</td>
<td>Example: 22</td>
</tr>
<tr>
<td>4V = 4&quot; Double Wall Vane</td>
<td>AL = ALUMINUM</td>
<td>24 GA</td>
</tr>
<tr>
<td>4AV = 4&quot; Double Wall Acoustical Vane</td>
<td>S4 = 304 STAINLESS</td>
<td>26 GA</td>
</tr>
<tr>
<td>4SWV = 4&quot; Single Wall Vane</td>
<td>S6 = 316 STAINLESS</td>
<td>24 GA</td>
</tr>
<tr>
<td>2SWV = 2&quot; Single Wall Vane</td>
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<td></td>
</tr>
</tbody>
</table>

SINGLE WALL TURNING VANE

4" Single Wall Vane

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>VANE SIZE</th>
<th>ALLOY TYPE</th>
<th>GAUGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>2V = 2&quot; Double Wall Vane</td>
<td>GA = GALVANIZED</td>
<td>Example: 22</td>
</tr>
<tr>
<td>4V = 4&quot; Double Wall Vane</td>
<td>AL = ALUMINUM</td>
<td>24 GA</td>
</tr>
<tr>
<td>4AV = 4&quot; Double Wall Acoustical Vane</td>
<td>S4 = 304 STAINLESS</td>
<td>26 GA</td>
</tr>
<tr>
<td>4SWV = 4&quot; Single Wall Vane</td>
<td>S6 = 316 STAINLESS</td>
<td>24 GA</td>
</tr>
<tr>
<td>2SWV = 2&quot; Single Wall Vane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PROseal is a premium water based high-velocity duct sealant.

- Indoor/outdoor grade
- For applications up to 15" WG
- Low brush drag & spreadability
- Permanently seals metal duct systems
- Highly crack resistant
- Remains flexible
- Excellent UV, flexibility, mold resistant, & water resistant properties
- Paintable with latex based paint
- Will not drip or sag
- Mild odor
- UL 181B-M Listed & UL 723 Classified
- LEED® Compliant, meets all applicable SCAQMD standards
- Conforms to requirements of NFPA 90A & 90B
- Manufactured by S.M.W.I.A. Local 12

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PACKAGING</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROSEALT</td>
<td>1/12 gallon tubes (25 tubes/case)</td>
<td>25 lbs./case</td>
</tr>
<tr>
<td>PROSEAL1</td>
<td>1 gallon pail (4 pails/case)</td>
<td>48 lbs./case</td>
</tr>
<tr>
<td>PROSEAL5</td>
<td>5 gallon pail</td>
<td>58 lbs./pail</td>
</tr>
<tr>
<td>PROSEAL55</td>
<td>54 gallon drum</td>
<td>639 lbs./drum</td>
</tr>
</tbody>
</table>

**BASE:** Engineered Polymer Emulsion  
**COLOR:** Gray  
**TYPE:** Water Base  
**DENSITY:** 11.3 ± 3 lbs per gallon  
**SOLID CONTENTS:** 68±3%  
**VISCOSITY:** 325,000 ± 50,000 c.p.s.  
**VOC CONTENT EPA Method 24:** 1.3 g/L  
**TVOC EMISSIONS CDPH Standard Method v1.1:** Pass  
**APPLICATION TEMPERATURE:** 35°F to 110°F  
**SERVICE TEMPERATURE:** 0°F to 220°F  
**STORAGE TEMPERATURE:** 35°F to 110°F  
**DRY TO TOUCH:** 1 hour (approximate)  
**CURE TIME:** 24 to 72 hours +  
**FLASH POINT:** No flash to boiling  
**FLEXIBILITY ASTM D522 (1/8" Mandrel Bend):** Pass  
**MOLD RESISTANCE UL 181B Mold & Humidity Test:** Pass  
**ADHESION STRENGTH ASTM C794:** Bright Annealed Stainless Steel - 6.25 PLI  
**SAG/SLUMP ASTM D2202:** 0  
**COVERAGE:** 25 sq. ft./gal. at 1/16"  
**ODOR:** Mild (wet) None (dry)  
**SHELF LIFE:** 1 year (unopened container)  
**CURED SEALANT:** Tough and permanently flexible

**WARNING: DO NOT ALLOW TO FREEZE**  
**KEEP OUT OF REACH OF CHILDREN** Consult The SDS Sheet Before Using Product
PROseal Spray is a premium water based high-velocity duct sealant that can be applied using a wide range of sealant application equipment.

- Tremendous labor savings
- Indoor/Outdoor grade
- For applications up to 15” w.g.
- UL 181B-M listed & UL 723 classified
- LEED® Compliant, meets all applicable SCAQMD standards
- Excellent UV, Flexibility, & Mold Resistant Properties
- Remains flexible
- Excellent adhesion to metal
- Will not drip or sag
- Low shrinkage
- Non-Flammable
- Mild odor
- Conforms to requirements of NFPA 90A & 90B
- Paintable with latex based paint
- Manufactured by S.M.W.I.A. local 12

### Ordering Information

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PACKAGING</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROSEALSPRAY5</td>
<td>5 gallon pail</td>
<td>60 lbs./pail</td>
</tr>
<tr>
<td>PROSEALSPRAY55</td>
<td>54 gallon drum</td>
<td>608 lbs./drum</td>
</tr>
</tbody>
</table>

### Characteristics

- **Base:** Engineered Polymer Emulsion
- **Color:** Gray
- **Type:** Water Base
- **Density:** 11.3 ± .3 lbs per gallon
- **Solid Contents:** 68% ± 3%
- **Viscosity:** 80,000 cPs +/- 20,000 cPs
- **VOC Content EPA Method 24:** 1.3 g/L
- **TVOC Emissions CDPH Standard Method v1.1:** Pass
- **Application Temperature:** 35°F to 110°F
- **Service Temperature:** 0°F to 220°F
- **Storage Temperature:** 35°F to 110°F
- **Dry to Touch:** 1 hour (approximate)
- **Cure Time:** 24 to 72 hours +
- **Flash Point:** No flash to boiling
- **Flexibility ASTM D522 (1/8” Mandrel Bend):** Pass
- **Mold Resistance UL 181B Mold & Humidity Test:** Pass
- **Freeze Thaw Stability UL 181B:** 5 cycles
- **Adhesion Strength ASTM C794:** Bright Annealed Stainless Steel - 6.25 PLI
- **Sag/Slump ASTM D2202:**
  - Coverage: 0
  - 25 sq. ft./gal. at 1/16”
  - 50 sq. ft./gal. at 1/32”
- **Odor:** Mild (wet) None (dry)
- **Shelf Life:** 1 year (unopened container)
- **Cured Sealant:** Tough and permanently flexible

*Keep Out of Reach of Children* Consult The SDS Sheet Before Using Product
FIBERseal is a premium water based high-velocity duct sealant.

- Indoor/outdoor grade
- For applications up to 15” WG
- Low brush drag & spreadability
- Permanently seals metal duct systems
- Highly crack resistant
- Remains flexible
- Excellent UV, flexibility, mold resistant, & water resistant properties
- Paintable with latex based paint
- Will not drip or sag
- Mild odor
- UL 181B-M Listed & UL 723 Classified
- LEED® Compliant, meets all applicable SCAQMD standards
- Conforms to requirements of NFPA 90A & 90B
- Manufactured by S.M.W.I.A. Local 12

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PACKAGING</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIBERSEALT</td>
<td>1/12 gallon tubes (25 tubes/case)</td>
<td>24 lbs./case</td>
</tr>
<tr>
<td>FIBERSEAL1</td>
<td>1 gallon pail (4 pails/case)</td>
<td>46 lbs./case</td>
</tr>
<tr>
<td>FIBERSEAL5</td>
<td>5 gallon pail</td>
<td>58 lbs./pail</td>
</tr>
<tr>
<td>FIBERSEAL55</td>
<td>54 gallon drum</td>
<td>639 lbs./drum</td>
</tr>
</tbody>
</table>

**BASE:** Engineered Polymer Emulsion with fiber reinforcement

**COLOR:** Gray

**TYPE:** Water Base

**DENSITY:** 11.2 +/- .3 lbs per gallon

**SOLID CONTENTS:** 68% +/- 3%

**VISCOSITY:** 350,000 ±50,000 c.p.s.

**VOC CONTENT* EPA Method 24:** 1.3 g/L

**TVOC EMISSIONS CDPH Standard Method v1.1:** Pass

**APPLICATION TEMPERATURE:** 35°F to 110°F

**SERVICE TEMPERATURE:** 0°F to 220°F

**STORAGE TEMPERATURE:** 35°F to 110°F

**DRY TO TOUCH:** 1 hour (approximate)

**CURE TIME:** 24 to 72 hours + Depending on humidity, application, and temperature

**FLASH POINT:** No flash to boiling

**FLEXIBILITY ASTM D522 (1/8" Mandrel Bend):** Pass

**MOLD RESISTANCE UL 181B Mold & Humidity Test:** Pass

**FREEZE THAW STABILITY UL 181B:** 5 cycles

**ADHESION STRENGTH ASTM C794:** Bright Annealed Stainless Steel - 9.33 PLI

**SAG/SLUMP ASTM D2202:** 0

**COVERAGE:** 25 sq. ft./gal. at 1/16”

**ODOR:** Mild (wet) None (dry)

**SHELF LIFE:** 1 year (unopened container)

**CURED SEALANT:** Tough and permanently flexible

KEEP OUT OF REACH OF CHILDREN Consult The SDS Sheet Before Using Product
EVERseal is a commercial grade water based, smooth duct sealant.

- Indoor/outdoor grade
- For applications up to 15" WG
- Low brush drag & spreadability
- Permanently seals metal duct systems
- Highly crack resistant
- Remains flexible
- Excellent UV, flexibility, mold resistant, & water resistant properties
- Paintable with latex based paint
- Will not drip or sag
- Mild odor
- UL 181B-M Listed & UL 723 Classified
- LEED® Compliant, meets all applicable SCAQMD standards
- Conforms to requirements of NFPA 90A & 90B
- Manufactured by S.M.W.I.A. Local 12

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PACKAGING</th>
<th>WEIGHT</th>
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</thead>
<tbody>
<tr>
<td>EVERSEALT</td>
<td>1/12 gallon tubes (25 tubes/case)</td>
<td>26 lbs./case</td>
</tr>
<tr>
<td>EVERSEAL1</td>
<td>1 gallon pail (4 pails/case)</td>
<td>48 lbs./case</td>
</tr>
<tr>
<td>EVERSEAL5</td>
<td>5 gallon pail</td>
<td>58 lbs./pail</td>
</tr>
<tr>
<td>EVERSEAL55</td>
<td>54 gallon drum</td>
<td>639 lbs./drum</td>
</tr>
</tbody>
</table>

**BASE:** Engineered Polymer Emulsion  
**COLOR:** Gray  
**TYPE:** Water Base  
**DENSITY:** 11.3 +/- .3 lbs per gallon  
**SOLID CONTENTS:** 66% +/- 3%  
**VISCOSITY:** 325,000 ±50,000 c.p.s.  
**VOC CONTENT EPA Method 24:** 0 g/L  
**TVOC EMISSIONS CDPH Standard Method v1.1:** Pass  
**APPLICATION TEMPERATURE:** 35 °F to 110 °F  
**SERVICE TEMPERATURE:** 0 °F to 220 °F  
**STORAGE TEMPERATURE:** 35 °F to 110 °F  
**DRY TO TOUCH:** 1 hour (approximate)  
**CURE TIME:** 24 to 72 hours + Depending on humidity, application, and temperature  
**FLASH POINT:** No flash to boiling  
**FLEXIBILITY ASTM D522 (1/8" Mandrel Bend):** Pass  
**MOLD RESISTANCE UL 181B Mold & Humidity Test:** Pass  
**FREEZE THAW STABILITY:** Passes 5 cycles  
**ADHESION STRENGTH ASTM C794:** Bright Annealed Stainless Steel - 6.93 PLI  
**SAG/SLUMP ASTM D2202:** 0  
**COVERAGE:**  
- 25 sq. ft./gal. at 1/16”  
- 50 sq. ft./gal. at 1/32”  
**ODOR:** Mild (wet) None (dry)  
**SHELF LIFE:** 1 year (unopened container)  
**CURED SEALANT:** Tough and permanently flexible  

**KEEP OUT OF REACH OF CHILDREN** Consult The SDS Sheet Before Using Product
EZ-Seal is a commercial grade water-based duct sealant with fiber reinforcement.

- Indoor/outdoor grade
- For applications up to 15” WG
- Low brush drag & spreadability
- Permanently seals metal duct systems
- Highly crack resistant
- Remains flexible
- Excellent UV, flexibility, mold resistant, & water resistant properties
- Paintable with latex based paint
- Will not drip or sag
- Mild odor
- UL 181B-M Listed & UL 723 Classified
- LEED® Compliant, meets all applicable SCAQMD standards
- Conforms to requirements of NFPA 90A & 90B
- Manufactured by S.M.W.I.A. Local 12

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PACKAGING</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>EZSEALT</td>
<td>1/12 gallon tubes (25 tubes/case)</td>
<td>25 lbs./case</td>
</tr>
<tr>
<td>EZSEAL1</td>
<td>1 gallon pail (4 pails/case)</td>
<td>47 lbs./case</td>
</tr>
<tr>
<td>EZSEAL5</td>
<td>5 gallon pail</td>
<td>58 lbs./pail</td>
</tr>
<tr>
<td>EZSEAL55</td>
<td>54 gallon drum</td>
<td>639 lbs./drum</td>
</tr>
</tbody>
</table>

BASE:
Engineered Polymer Emulsion with fiber reinforcement

COLOR:
Gray

TYPE:
Water Base

DENSITY:
11.2 +/- .3 lbs per gallon

SOLID CONTENTS:
64% +/- 2%

VISCOITY:
350,000 ±50,000 c.p.s.

VOC CONTENT EPA Method 24:
0 g/L

TVOC EMISSIONS CDPH Standard Method v1.1:
Pass

APPLICATION TEMPERATURE:
35°F to 110°F

SERVICE TEMPERATURE:
0°F to 220°F

STORAGE TEMPERATURE:
35°F to 110°F

DRY TO TOUCH:
1 hour (approximate)

CURE TIME:
24 to 72 hours +

FLASH POINT:
No flash to boiling

FLEXIBILITY ASTM D522 (1/8” Mandrel Bend):
Pass

MOLD RESISTANCE UL 181B Mold & Humidity Test:
Pass

FREEZE THAW STABILITY
Passes 5 cycles

ADHESION STRENGTH ASTM C794:
Bright Annealed Stainless Steel - 7.37 PLI

SAG/SLUMP ASTM D2202:
0

COVERAGE:
25 sq. ft./gal. at 1/16”
50 sq. ft./gal. at 1/32”

ODOR:
Mild (wet) None (dry)

SHELF LIFE:
1 year (unopened container)

CURED SEALANT:
Tough and permanently flexible

KEEP OUT OF REACH OF CHILDREN Consult The SDS Sheet Before Using Product
SOLVENT BASED SEALANT

SOLVseal is a premium solvent based high velocity duct sealant based on a blend of unique synthetic elastomers, select hydrocarbon resins and minerals. This blend results in a superior product that is unequaled in performance.

- UL Classified
- Permanently flexible
- Fast drying
- Exceptional workability
- Will not drip or sag
- High water resistance
- Low brush drag
- Excellent spreadability
- Minimal shrinkage
- Excellent adhesion to metal
- Indoor & outdoor use
- Superior sealing strength
- Conforms to the requirements of NFPA 90A & 90B
- Mildew resistant
- USDA Chemically Acceptable

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PACKAGING</th>
<th>WEIGHT</th>
</tr>
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<tbody>
<tr>
<td>SOLVSEALT11LVOC</td>
<td>1/12 gallon tubes (24 tubes/case)</td>
<td>21 lbs./case</td>
</tr>
<tr>
<td>SOLVSEAL1LVOC</td>
<td>1 gallon pail (4 pails/case)</td>
<td>39 lbs./case</td>
</tr>
</tbody>
</table>

TECHNICAL INFORMATION

PRESSURE RATING: 15" w.g.
CHEMICAL TYPE: Synthetic Rubber
COLOR: Gray
TYPE: Solvent based
ODOR: Mild (wet) None (dry)
VOC CONTENT: 193 g/L
EPA Method 24
TVOC EMISSIONS: Private Office - Pass
CDPH Standard Method v1.1
DENSITY: 9.1 ±3 lbs per gallon
SOLID CONTENTS: 67% ±1%
VISCOITY: 152,300 ±25,000 c.p.s.
APPLICATION TEMPERATURE: 0°F to 110°F
SERVICE TEMPERATURE: -20°F to 190°F
STORAGE TEMPERATURE: 35°F to 110°F
DRY TO TOUCH: 15 minutes (approximate)
CURE TIME: 24 to 48 hours - Depending on humidity, application, and temperature
FLEXIBILITY: Pass
ASTM D522 (1/8" Mandrel Bend)
FREEZE THAW STABILITY: Pass
WARNING: DO NOT FREEZE or apply at freezing conditions. If frozen completely thaw prior to use.
FLASH POINT: <75°F
SAG/SLUMP: Pass
ASTM D2202
COVERAGE: Approximately 50 to 75 sq. ft. per gallon
SHELF LIFE: 1 year (unopened container)
Gecko Glue™ Gold is a versatile, easy-to-use, premium water-based duct liner adhesive. Gecko Glue™ Gold works effectively using a variety of application methods and dries faster than typical water-based adhesives to bond duct liner insulation with sheet metal.

Gecko Glue™ Gold can be sprayed and dripped on coil lines, roll-applied through roto-bonders, sprayed off line, and manually rolled or brushed on.

- Spray, drip, roto-bond or manually apply
- Water-based adhesive
- Fast tacking
- Solvent free
- Non-flammable in wet and dry states
- UL Classified
- Wipes clean with water
- Exceptional coverage
- LEED® Compliant, meets all applicable EPA Method 24 and CDPH standards
- Conforms to requirements of NFPA 90A and 90B

### Ordering Information

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Quantity &amp; Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td>GECKOGLD5B</td>
<td>5 Gal - Black</td>
<td>1 - 5 Gal pail</td>
</tr>
<tr>
<td></td>
<td></td>
<td>@ 45 lbs/pail</td>
</tr>
<tr>
<td>GECKOGLD54B</td>
<td>54 Gal - Black</td>
<td>1 - 54 Gal drum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>@ 494 lbs/drum</td>
</tr>
<tr>
<td>GECKOGLD5W</td>
<td>5 Gal - White</td>
<td>1 - 5 Gal pail</td>
</tr>
<tr>
<td></td>
<td></td>
<td>@ 45 lbs/pail</td>
</tr>
<tr>
<td>GECKOGLD54W</td>
<td>54 Gal - White</td>
<td>1 - 54 Gal drum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>@ 494 lbs/drum</td>
</tr>
</tbody>
</table>

### CHEMICAL TYPE:
- Synthetic Latex

### COLOR:
- Black or White

### ODOR:
- Minimal

### VOC CONTENT:
- EPA Method 24
- 20 g/L

### TVOC EMISSIONS:
- CDPH Standard Method v1.1
- Pass

### DENSITY:
- 9.0 ± 0.1 lbs. - gallon

### SOLIDS:
- 65.0 ± 0.5%

### VISCOSITY:
- 9,000 cPs ± 2,000 cPs

### APPLICATION TEMPERATURE:
- 20°F to 90°F

### STORAGE TEMPERATURE:
- 20°F to 90°F

### DRY TIME:
- 8 minutes at 76°F
- Depending on temperature, humidity, and recommended coverage

### COVERAGE:
- Approximately 400 sq. ft./gal,
- Depending on application technique

### SHELF LIFE:
- 1 year (unopened containers)

### PACKAGING:
- Available in 5 or 54 gallons

#### KEEP OUT OF REACH OF CHILDREN
- Consult The SDS Sheet Before Using Product
Gecko Glue™ Silver is a commercial grade, water-based duct liner adhesives specifically formulated for spray and roller coating applications.

- UL Classified
- Water-based adhesive
- Fast tacking
- Non-flammable in wet and dry states
- Moisture resistant
- Solvent free
- Spray, roll, or brush application
- Exceptional coverage
- LEED® Compliant, meets all applicable EPA Method 24 and CDPH standards

<table>
<thead>
<tr>
<th>Ordering Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part #</td>
</tr>
<tr>
<td>GECKOSILV5B</td>
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<tr>
<td>GECKOSILV54B</td>
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<tr>
<td>GECKOSILV5W</td>
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<tr>
<td>GECKOSILV54W</td>
</tr>
</tbody>
</table>

**CHEMICAL TYPE:** Synthetic Latex

**COLOR:** Black or White

**ODOR:** Minimal

**VOC CONTENT:** 20 g/L

**TVOC EMISSIONS:** Pass

**EPA Method 24**

**CDPH Standard Method v1.1**

**DENSITY:** 8.6 ± 0.1 lbs. - gallon

**SOLIDS:** 46.0 ± 0.5%

**VISOSITY:** 4,000 cPs ± 2,000 cPs

**APPLICATION TEMPERATURE:** 20°F to 90°F

**STORAGE TEMPERATURE:** 20°F to 90°F

**DRY TIME:** 15 minutes at 76°F

**Depending on temperature, humidity, and recommended coverage**

**COVERING:** Approximately 400 sq. ft./gal,

**Depending on application technique**

**SHELF LIFE:** 1 year (unopened containers)

**PACKAGING:** Available in 5 or 54 gallons

**KEEP OUT OF REACH OF CHILDREN** Consult The SDS Sheet Before Using Product
Quick-Stick adhesive is formulated for fast tack and a permanent bond.

**BASIC USE**
QUICK-STICK is designed to apply insulation or other materials to smooth nonporous surfaces.

**SPECIAL CHARACTERISTICS**
- Pressure sensitive
- Methylene chloride based
- High solids content
- Easy application
- Extremely quick tack
- Strong permanent bond
- Meets DOT 39 NRC
- Non-Flammable in wet and dry state
- Exceptional coverage
- Convenient 40 and 200 lb. cylinders

**APPLICATION:** Apply using Ductmate approved spray hoses, and gun to smooth nonporous surfaces. Surfaces should be free from all dirt, oil, and grease.

**DIRECTIONS FOR USE:**
Keep cylinder off of concrete floor during freezing temperatures. For best results use at temperatures between 60°F - 90°F.
1. Make sure all surfaces to be sprayed are clean and free from debris, dust, dirt, grease, etc.
2. Try gun on a test surface to make sure adhesive is flowing.
3. Hold spray gun 8-10 inches from surface to be sprayed.
4. Avoid buildup of adhesive or bubbles. Edges of spray pattern should overlap giving consistent coverage over surface

**FOR PERMANENT BOND:** Spray both surfaces, bond activates from moment of contact with adhesive, bond will be permanent after 2 minutes.

**CLEAN UP:** Ductmate recommends that a degreaser be used for cleaning out hoses and spray guns.

**DISPOSAL:** When all adhesive has been used from cylinder, close cylinder valve and clear hose and gun before disconnecting hose from cylinder. Do not clear hose and gun until a new cylinder is available. After hose and gun are connected to cylinder, leave pressure in gun and hose to prevent the adhesive from hardening. The cylinder is not hazardous when empty. Once empty and the hose is disconnected, open the valve to exhaust all the vapors from the cylinder. Puncture the empty emergency release valve to ensure the container cannot be repressurized. In most areas the empty cylinder can be disposed of in the same way as an aerosol can, or it may be recycled as scrap metal. Dispose of product in accordance with applicable local, state, and federal regulations.

**TECHNICAL INFORMATION**
- **BASE:** Solvent
- **SOLVENT:** Methylene Chloride
- **COLOR:** Green
- **SOLIDS:** 25%
- **APPLICATION TEMP:** 60°F to 90°F
- **SERVICE TEMP:** -30°F to 160°F
- **STORAGE TEMP:** Below 120°F
- **FLAMMABILITY:** Non-flammable wet and dry
- **FLASH POINT:** None
- **COVERAGE:**
  - 200 lbs: 23,000 sq. ft. - 23,650 sq. ft.
  - 40 lbs: 4,000 sq. ft. - 4,600 sq. ft.
  (Depending on temperature, humidity, and thickness)
- **BONDING TIME:** 1 - 10 minutes
  (Depending on application rate)
- **FREEZE THAW:** Does not apply
- **SHELF LIFE:** 1 year

**PACKAGING AND ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>QTY/WEIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUICKSTICK40</td>
<td>40 lbs. Cylinder</td>
<td>(1) @ 40 lbs.</td>
</tr>
<tr>
<td>QUICKSTICK200*</td>
<td>200 lbs. Cylinder</td>
<td>(1) @ 200 lbs.</td>
</tr>
<tr>
<td>QSSG</td>
<td>Quick-Stick Spray Gun</td>
<td>(1) @ 1 lbs.</td>
</tr>
<tr>
<td>QSH6</td>
<td>Quick-Stick 6' Hose</td>
<td>(1) @ 1 lbs.</td>
</tr>
<tr>
<td>QSH12</td>
<td>Quick-Stick 12' Hose</td>
<td>(1) @ 1 lbs.</td>
</tr>
<tr>
<td>QSH18</td>
<td>Quick-Stick 18' Hose</td>
<td>(1) @ 2 lbs.</td>
</tr>
</tbody>
</table>

* 200 lbs Cylinder only available by custom order
No Deposit Required

---

**ALSO AVAILABLE IN AEROSOL CANS**

**PART NUMBER:** QUICKSTICKCAN

**QUANTITY/WEIGHT:**
(12) 11.75 oz. cans/case @ 15 lbs/case

Contact Ductmate for more information

Not Available in California
**QUICK-STICK™ HS**

**SOLVENT-BASED SPRAY ADHESIVE**

**DESCRIPTION**
Quick-Stick HS is a premium-quality, high strength adhesive formulated for fast tack and a permanent bond.

**BASIC USE**
QUICK-STICK HS is designed to apply insulation or other materials to smooth nonporous surfaces.

**SPECIAL CHARACTERISTICS**
- Extremely quick tack
- Non-flammable
- Pressure sensitive
- High solids content
- Easy application
- Strong permanent bond
- Exceptional coverage

**APPLICATION:** Apply using Ductmate approved spray hoses, and gun to smooth nonporous surfaces. Surfaces should be free from all dirt, oil, and grease.

**DIRECTIONS:**
1. Insure that surfaces are dry and free from dirt, grease, oils and any other solvents. Try gun on a test surface to make sure adhesive is flowing.
2. Hold spray gun 8-10 inches from surface to be sprayed.
3. Avoid buildup of adhesive or bubbles. Edges of spray pattern should overlap giving consistent coverage over surface.
4. Allow solvent to evaporate for 2 minutes before making bond. Apply even pressure along the two surfaces to ensure effective bond.

**CLEAN UP:** Ductmate recommends that a degreaser be used for cleaning out hoses and spray guns.

**DISPOSAL:** When all adhesive has been used from cylinder, close cylinder valve and clear hose and gun before disconnecting hose from cylinder. Do not clear hose and gun until a new cylinder is available. After hose and gun are connected to cylinder, leave pressure in gun and hose to prevent the adhesive from hardening. The cylinder is not hazardous when empty. Once empty and the hose is disconnected, open the valve to exhaust all the vapors from the cylinder. Puncture the empty emergency release valve to ensure the container cannot be repressurized. In most areas the empty cylinder can be disposed of in the same way as an aerosol can, or it may be recycled as scrap metal. Dispose of product in accordance with applicable local, state, and federal regulations.

**TECHNICAL INFORMATION**

<table>
<thead>
<tr>
<th>BASE:</th>
<th>Solvent</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLVENT:</td>
<td>Methylene Chloride</td>
</tr>
<tr>
<td>COLOR:</td>
<td>Green</td>
</tr>
<tr>
<td>SOLIDS:</td>
<td>32 - 34%</td>
</tr>
<tr>
<td>APPLICATION TEMP:</td>
<td>60° F - 90°F</td>
</tr>
<tr>
<td>FLAMMABILITY:</td>
<td>Non-flammable wet and dry</td>
</tr>
<tr>
<td>COVERAGE:</td>
<td>4,000 sq.ft. - 4,600 sq.ft.</td>
</tr>
<tr>
<td>BONDING TIME:</td>
<td>3 to 5 minutes</td>
</tr>
<tr>
<td>LIQUID SPEC. GRAVITY:</td>
<td>1.19 +/- 0.02</td>
</tr>
<tr>
<td>SHEAR ADHESION:</td>
<td>&gt;100 psi</td>
</tr>
<tr>
<td>FAILURE TEMP:</td>
<td>200° F</td>
</tr>
<tr>
<td>SHELF LIFE:</td>
<td>1 year</td>
</tr>
</tbody>
</table>

**PACKAGING INFORMATION**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>QTY/WEIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUICKSTICKHS40</td>
<td>40 lbs.</td>
<td>(1) @ 40 lbs</td>
</tr>
<tr>
<td>QSH6</td>
<td>6' Hose</td>
<td>(1) @ 1 lb</td>
</tr>
<tr>
<td>QSH12</td>
<td>12' Hose</td>
<td>(1) @ 1 lb</td>
</tr>
<tr>
<td>QSH18</td>
<td>18' Hose</td>
<td>(1) @ 2 lbs</td>
</tr>
<tr>
<td>QSSG</td>
<td>Spray Gun</td>
<td>(1) @ 1 lb</td>
</tr>
</tbody>
</table>
FIBERGLASS COATING

SUPER LINER SEAL™

S.L.S. QUICKLY AND EFFICIENTLY SEALS THE SURFACE OF DUCT INSULATION, VIRTUALLY ELIMINATING THE PROBLEM OF AIRBORNE FIBERS

- Flame and moisture resistant
- Exceptional coverage
- Good dry time
- Durable finish

- LEED® Compliant - meets all applicable EPA Method 24 and CDPH standards
- Wipes clean with water

BASIC USE: S.L.S. is used to encapsulate fiberglass duct and duct insulation, eliminating airborne fibers, the leading contributor to poor indoor air quality.

CLEANING: Clean tools with soap and water or mineral spirits.

APPLICATION: S.L.S. has been specially formulated for spray applications.

CHEMICAL TYPE: Synthetic Latex
COLOR: Black and White
ODOR: Minimal
VOC CONTENT: 20 g/L
TVOC: CDPH Pass
DENSITY: 9.0 ± 0.1 lbs. - gallon
SOLIDS: 65.0 ± 0.5%
VISCOSITY: 9,000 cPs ± 2,000 cPs
APPLICATION TEMPERATURE: 20°F to 90°F
STORAGE TEMPERATURE: 20°F to 90°F
DRY TIME: 8 minutes at 76°F
Depending on temperature, humidity, & recommended coverage

COVERAGE: Approximately 400 sq. ft./gal
Depending on application technique

SHELF LIFE: 1 year (unopened containers)
PACKAGING: Available in 5 or 54 gallons

ORDERING & PACKAGING INFORMATION

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>WEIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLS5W</td>
<td>S.L.S. 5-GAL WHITE</td>
<td>1-5 GAL PAIL</td>
<td>45 LBS/PAIL</td>
</tr>
<tr>
<td>SLS5B</td>
<td>S.L.S. 5-GAL BLACK</td>
<td>1-5 GAL PAIL</td>
<td>45 LBS/PAIL</td>
</tr>
<tr>
<td>SLS54W</td>
<td>S.L.S. 54 GAL WHITE</td>
<td>1-54 GAL DRUM</td>
<td>494 LBS/DRUM</td>
</tr>
<tr>
<td>SLS54B</td>
<td>S.L.S. 54-GAL BLACK</td>
<td>1-54 GAL DRUM</td>
<td>494 LBS/DRUM</td>
</tr>
</tbody>
</table>
LAGGING ADHESIVE

LAG-IT™

LAG-IT IS A FAST, COST EFFECTIVE MEANS FOR SEALING THE EDGES AND TEARS IN DUCT INSULATION

- Encapsulates fibers
- Repair liner tears
- Heavy-duty water-based formula
- Water and UV resistant
- Low odor
- Crack and peel resistant
- Tough and permanently flexible
- UL Listed/UL Classified
- High-strength and durability
- Sag resistant
- Non-flammable in wet state
- Exceptional coverage
- Will not discolor over time
- LEED Compliant - meets all applicable EPA Method 24 and CDPH standards

TYPICAL PHYSICAL PROPERTIES AND TECHNICAL INFORMATION

CHEMICAL TYPE: Engineered Polymer Emulsion
COLOR: Gray or White
DENSITY: 11.3 ± .3 lbs per gallon
SOLID CONTENTS: 68% ± 3%
VOC CONTENT: EPA Method 24
TVOC EMISSIONS: CDPH Standard Method v1.1
APPLICATION TEMPERATURE:
SERVICE TEMPERATURE:
STORAGE TEMPERATURE:
DRY TO TOUCH:
CURE TIME:
FLEXIBILITY: ASTM D522 (1/8” Mandrel Bend)
MOLD RESISTANCE: UL 181B Mold & Humidity Test
FREEZE THAW STABILITY: UL 181B
ADHESION STRENGTH: ASTM C794
SAG/SLUMP: ASTM D2202
COVERAGE:
ODOR:
SHELF LIFE:

BASIC USE: LAG-IT is used for bonding and sealing jackets of canvas, cloth and other fabrics/insulators to air-conditioning ducts, cold water pipes, etc.
CLEANING: Clean tools with soap and water or mineral spirits.
APPLICATION: LAG-IT can be applied to cloth or duct board surfaces using a trowel, brush, hand (rubber gloves recommended), or airless spray.

PACKAGING & ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>WEIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAGIT1B</td>
<td>LAGIT 1-GAL BLACK</td>
<td>(4) 1 GAL PAILS</td>
<td>45 LBS/CS</td>
</tr>
<tr>
<td>LAGIT5B</td>
<td>LAGIT 5-GAL BLACK</td>
<td>(1) 5 GAL PAIL</td>
<td>64 LBS/PAI</td>
</tr>
<tr>
<td>LAGIT1W</td>
<td>LAGIT 1-GAL WHITE</td>
<td>(4) 1 GAL PAILS</td>
<td>45 LBS/CS</td>
</tr>
<tr>
<td>LAGIT5W</td>
<td>LAGIT 5-GAL WHITE</td>
<td>(1) 5 GAL PAIL</td>
<td>64 LBS/PAI</td>
</tr>
</tbody>
</table>

Ideas that work for you everyday...
5511M™ Seam Sealer

5511M is a non-skinning, non-oxidizing, non-drying synthetic polymer-based, pumpable mastic/sealant specifically formulated for precise application to duct joints at the roll-forming line.

**TYPICAL PHYSICAL PROPERTIES AND TECHNICAL INFORMATION**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>% SOLIDS</td>
<td></td>
<td>≥ 90%</td>
</tr>
<tr>
<td>COLOR</td>
<td></td>
<td>Off white to grey</td>
</tr>
<tr>
<td>WEIGHT per GALLON</td>
<td></td>
<td>12 lbs ± 2</td>
</tr>
<tr>
<td>SHELF LIFE</td>
<td></td>
<td>Indefinite</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(unopened container)</td>
</tr>
<tr>
<td>SERVICE TEMPERATURE</td>
<td></td>
<td>0°F to 200°F</td>
</tr>
<tr>
<td>EXTRUDABILITY</td>
<td>ASTM D1252</td>
<td>3 - 8 s/mL</td>
</tr>
<tr>
<td>SLUMP</td>
<td>ASTM D2202</td>
<td>≤ 0.2”</td>
</tr>
<tr>
<td>MOLD AND MILDEW</td>
<td>ASTM G21</td>
<td>0 - 2 growth</td>
</tr>
<tr>
<td>TACK STRENGTH</td>
<td>ASTM C907 mod.</td>
<td>&gt; 2,000 Psi (peak)</td>
</tr>
<tr>
<td>APPLICATION METHOD</td>
<td></td>
<td>Hand or power pump equipment</td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>PART #</th>
<th>PACKAGING</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>5511 M-55 W</td>
<td>52 gal (196.84 liters)</td>
<td>584 lbs/drum</td>
</tr>
<tr>
<td>5511M5</td>
<td>5 gal (19 liters)</td>
<td>57 lbs/pail</td>
</tr>
</tbody>
</table>

UL723 (ASTM E-84-80) Test Data:
Flame Spread: 5
Fuel Contribution: 0
Smoke Density: 0

LEED® COMPLIANT, MEETS ALL APPLICABLE SCAQMD STANDARDS
Ductmate System Gaskets

DUCTMATE 440™ BUTYL GASKET

Ductmate 440 is a non-skimming, non-drying synthetic polymer based sealing tape, capable of withstanding joint movement without cracking.

Ductmate 440 is also available in 2” x 2” and 3” x 2” patches. Perfect for covering the critical points in the corner of a 4 bolt connection. Optional corner patch can be used on “ALL” 8 corners in conjunction with continuous piece in lieu of standard gasketing method.

PERFORMANCE PROPERTIES:

- **% SOLIDS ASTM C771-74:** >98%
- **COLOR:** Off-White
- **SPECIFIC GRAVITY:** 1.71 ± .05
- **SHORE 00 HARDNESS:** 50 - 65
- **SLUMP RESISTANCE DM 1100 (300°F, 24 hours):** ≤ 0.5”
- **FLEXIBILITY ASTM C 765-73:** Cold temperature passes
- **WATER RESISTANCE:** Hydrophobic
- **ELONGATION DM 1200:** ≥ 600%
- **ELONGATION AFTER AGING DM 1200A:** ≥ 600%
- **COMRESSIBILITY ASTM C 907-mod. (75°F, 50%H):** ≥ 40 lbF - peak force
- **TENSILE STRENGTH ASTM C 907:** ≥ 7 psi
- **TACK STRENGTH ASTM D 3121 (Ambient):** < 1”
- **PEEL ADHESION ASTM C 794-mod.:** ≥ 2.0 PLI on galvanized steel
- **SERVICE TEMPERATURE:** 0°F to 190°F
- **APPLICATION TEMPERATURE:** Above 40°F
- **DIMENSIONAL TOLERANCES:** Tape Width 5/8” ±1/32”
- **FEDERAL SPECIFICATIONS:** TT-C-1796A (Supersedes MILC-18909B & 18969B)
- **U.S.D.A ACCEPTABILITY:** Product chemically acceptable to the U.S. Department of Agriculture for use in meat and poultry processing areas under Federal inspection.
- **F.D.A REQUIREMENTS 21CFR175.105:** Meets requirements

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART #</th>
<th>PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEO 5/16 X 3/4 (RECOMMENDED FOR SPIRALTITE &amp; ECONOFLANGE ROUND &amp; OVAL)</td>
<td>(15) 50 ft/rolls 750 ft/case 15 lbs/case</td>
</tr>
<tr>
<td>NEO 5/16 X 1 (Used with DM45)</td>
<td>(20) 50 ft/rolls 1000 ft/case 23 lbs/case</td>
</tr>
<tr>
<td>VM GASKET-L 5/16 X 1 1/4</td>
<td>(19) 50 ft rolls 950 ft/case 21 lbs/case</td>
</tr>
</tbody>
</table>

STICKY TAPE GASKET

Part Number: STICKY TAPE
- Butyl Gasket
- 3/16” x 5/8” x 25’ rolls
- Packaged: 500 LF/carton @ 40 lbs.

Neoprene Gasket Tape is a synthetic closed cell, rubber-based sealing tape. Excellent for connecting ductwork which must be taken apart periodically for cleaning purposes, or for fire damper breakaway installations.

PERFORMANCE PROPERTIES:

- **Color:** Black
- **Density:** (p.c.f.) average 4-8
- **Water absorption by wt. (max):** 5%
- **Compression deflection (p.s.i.):** 2-5
- **Temp range**
  - Low (Flex without cracking): -40°F
  - High continuous: 200°F
  - High intermittent: 250°F
- **UL 94 HF-1-Passes**

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART #</th>
<th>PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>440 3/16 X 5/8</td>
<td>(20) 25 ft/rolls 500 ft/case @ 45 lbs/case</td>
</tr>
<tr>
<td>440 3/16 X 1 (used w/ DM45)</td>
<td>(16) 25 ft/rolls 400 ft/case @ 53 lbs/case</td>
</tr>
<tr>
<td>440 3X2X1/8</td>
<td>512 Patches @ 22 lbs/case</td>
</tr>
<tr>
<td>440 2X2X3/16</td>
<td>22 Patches @ xx lbs/case</td>
</tr>
</tbody>
</table>
PolyArmor duct liner is engineered from strong and safe polyester to provide industry leading R-values with excellent noise reduction values and superior indoor air quality.

**SOUND ABSORPTION COEFFICIENTS AT FREQUENCY**  
- ASTM Standard C423

<table>
<thead>
<tr>
<th>Material</th>
<th>125 Hz</th>
<th>250 Hz</th>
<th>500 Hz</th>
<th>1,000 Hz</th>
<th>2,000 Hz</th>
<th>NRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PolyArmor</td>
<td>Min. 1”</td>
<td>0.10</td>
<td>0.30</td>
<td>0.73</td>
<td>1.07</td>
<td>0.49</td>
</tr>
<tr>
<td>Elastomeric</td>
<td>Min. 1”</td>
<td>0.10</td>
<td>0.15</td>
<td>0.31</td>
<td>0.57</td>
<td>0.36</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>Min. 1”</td>
<td>0.18</td>
<td>0.36</td>
<td>0.59</td>
<td>0.86</td>
<td>0.95</td>
</tr>
</tbody>
</table>

- High Noise Reduction Coefficient (NRC) value
- Smooth and extremely durable facing
- Made of soft user friendly and hypoallergenic polyester
- Engineered for application with water based adhesives
- Labor saving alternative to elastomeric duct liner
- Made with recycled content
- Mildew and mold resistant
- Light weight design with excellent rebound
- Can be installed utilizing standard insulation application methods
- Can be used in spiral duct work

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Test Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal resistance</td>
<td>ASTM C518, 75 F</td>
<td>R-4.2 R-5 R-6 R-8</td>
</tr>
<tr>
<td>Surface burning characteristics</td>
<td>ASTM E84</td>
<td>&lt;25 &lt;50</td>
</tr>
<tr>
<td>Density, lb/ft³</td>
<td>ASTM D1667</td>
<td>1.6 1.5 1.5 1.4</td>
</tr>
<tr>
<td>Temperature Resistance Upper Limit</td>
<td>ASTM C411</td>
<td>Up to 250°F</td>
</tr>
<tr>
<td>Erosion Resistance</td>
<td>ASTM C 1071 (tested to maximum throughput of 10,000 fpm)</td>
<td>Rating 4,000 fpm</td>
</tr>
<tr>
<td>Smoke density and toxicity Density, optical Ds at 4 minutes</td>
<td>ASTM E662/ ASTM E800 (non flaming)</td>
<td>2.5 (0.54)</td>
</tr>
<tr>
<td>Toxicity, ppm</td>
<td>ASTM E662 flaming (flaming exposure)</td>
<td>21</td>
</tr>
<tr>
<td>CO, HBr, HCl, HCN, HF, NOx, SO₂</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Volatile Organic Compound (VOC), ppm</td>
<td>ASTM D5116 (CA1350)</td>
<td>0</td>
</tr>
<tr>
<td>Odor</td>
<td>ASTM C1304</td>
<td>Pass</td>
</tr>
<tr>
<td>Moisture vapor absorption, %</td>
<td>ASTM C1104</td>
<td>0.24</td>
</tr>
<tr>
<td>Corrosiveness</td>
<td>ASTM C665</td>
<td>Pass</td>
</tr>
<tr>
<td>Fungi Resistance</td>
<td>ASTM C1338</td>
<td>Pass</td>
</tr>
<tr>
<td>Mold Growth</td>
<td>ASTM G-21/UL 181</td>
<td>Meets Requirements</td>
</tr>
<tr>
<td>Odor</td>
<td>ASTM C1304</td>
<td>Pass</td>
</tr>
<tr>
<td>Greenguard® Environmental Institute</td>
<td>Compliant, CS</td>
<td></td>
</tr>
</tbody>
</table>

**PACKAGING INFORMATION**

<table>
<thead>
<tr>
<th>Width</th>
<th>R-4.2 1’ x 100’</th>
<th>R-5 1¼’ x 100’</th>
<th>R-6 1½’ x 50’</th>
<th>R-8 2’ x 50’</th>
</tr>
</thead>
<tbody>
<tr>
<td>47.5”</td>
<td>PA475F1W100</td>
<td>PA475F125W100</td>
<td>PA475F15W50</td>
<td>PA475F2W50</td>
</tr>
<tr>
<td>48”</td>
<td>PA48F1W100</td>
<td>PA48F125W100</td>
<td>PA48F15W50</td>
<td>PA48F2W50</td>
</tr>
<tr>
<td>56.25”</td>
<td>PA5625F1W100</td>
<td>PA5625F125W100</td>
<td>PA5625F15W50</td>
<td>PA5625F2W50</td>
</tr>
<tr>
<td>59”</td>
<td>PA59F1W100</td>
<td>PA59F125W100</td>
<td>PA59F15W50</td>
<td>PA59F2W50</td>
</tr>
<tr>
<td>60”</td>
<td>PA60F1W100</td>
<td>PA60F125W100</td>
<td>PA60F15W50</td>
<td>PA60F2W50</td>
</tr>
</tbody>
</table>
DUCT COVERS

- Heavy-Duty grade for superior performance
- Standard grade for light applications
- High-tack and low-tack adhesive coating
- Leaves no sticky residue on ductwork
- Elongation up to 600%
- Excellent strength with convenient pliability

ProGuard protective film combines the latest in adhesive and plastic technology to effectively and economically protect ductwork from contamination.

ProGuard Heavy-Duty grade uses dual-film polyethylene for high strength while reducing material weight. The result is an extremely puncture-resistant light-weight film, providing greater protection for ductwork and less plastic film into the waste stream. ProGuard Heavy-Duty grade’s tacky non-residue adhesive grabs hold of metal edges, reducing overlap waste.

TECHNICAL INFORMATION

Colors: Blue and Clear
Adhesion: Adheres to Galvanized, Stainless Steel, Galvannealed, Aluminum, PVC Coated, Aluminized, and Black Iron.
Type: Polyethylene
Shelf Life: For best results use within 1 year of purchase
Elongation:
  - Heavy Duty Grade: 600%
  - Standard Grade: 325% MD
Break Strength:
  - Heavy Duty Grade: 13.1 lbs/in (5.9 kg/mm)
  - Standard Grade: 12.6 lbs/in (5.7 kg/mm)
Indoor/Outdoor: Stands up to the rain, snow, and sun
UV Resistance: Good
Adhesive: Acrylic. Does not leave sticky residue on ductwork after removal
VOC Content: 0 g/L

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grade</th>
<th>Dimension</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color - Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PG24B</td>
<td>Standard</td>
<td>24” x 200’ x 2.5 Mil</td>
<td>6 rolls/box</td>
</tr>
<tr>
<td>PG24BR</td>
<td>Standard Reverse Wound</td>
<td>24” x 200’ x 2.5 Mil</td>
<td>6 rolls/box</td>
</tr>
<tr>
<td>PG24B-2M</td>
<td>Standard 2 Mil</td>
<td>24” x 200’ x 2 Mil</td>
<td>6 rolls/box</td>
</tr>
<tr>
<td>PG36B</td>
<td>Standard</td>
<td>36” x 200’ x 2.5 Mil</td>
<td>6 roll/box</td>
</tr>
<tr>
<td>PG36BR</td>
<td>Standard Reverse Wound</td>
<td>36” x 200’ x 2.5 Mil</td>
<td>6 roll/box</td>
</tr>
<tr>
<td>PG36B-2M</td>
<td>Standard 2 Mil</td>
<td>36” x 200’ x 2 Mil</td>
<td>6 roll/box</td>
</tr>
<tr>
<td>PG48B</td>
<td>Standard</td>
<td>48” x 200’ x 2.5 Mil</td>
<td>6 roll/box</td>
</tr>
<tr>
<td>PG48B-2M</td>
<td>Standard 2 Mil</td>
<td>48” x 200’ x 2 Mil</td>
<td>6 roll/box</td>
</tr>
<tr>
<td>PG60B-2M</td>
<td>Standard 2 Mil</td>
<td>60” x 200’ x 2 Mil</td>
<td>Special Order - Not Stocked</td>
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<tr>
<td>Color - Clear</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PG24</td>
<td>Heavy Duty</td>
<td>24” x 200’ x 3.2 Mil</td>
<td>2 rolls/box</td>
</tr>
<tr>
<td>PG24-2M</td>
<td>Standard 2 Mil</td>
<td>24” x 200’ x 2 Mil</td>
<td>6 rolls/box</td>
</tr>
<tr>
<td>PG24K</td>
<td>Heavy Duty</td>
<td>24” x 1000’ x 2.5 Mil</td>
<td>1 roll/box</td>
</tr>
<tr>
<td>PG24C</td>
<td>Standard</td>
<td>24” x 200’ x 2.5 Mil</td>
<td>6 rolls/box</td>
</tr>
<tr>
<td>PG36</td>
<td>Heavy Duty</td>
<td>36” x 200’ x 3.2 Mil</td>
<td>1 roll/box</td>
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<tr>
<td>PG36-2M</td>
<td>Standard 2 Mil</td>
<td>36” x 200’ x 2 Mil</td>
<td>6 roll/box</td>
</tr>
<tr>
<td>PG36K</td>
<td>Heavy Duty</td>
<td>36” x 1000’ x 2.5 Mil</td>
<td>Special Order - Not Stocked</td>
</tr>
<tr>
<td>PG36C</td>
<td>Standard</td>
<td>36” x 200’ x 2.5 Mil</td>
<td>6 roll/box</td>
</tr>
<tr>
<td>PG48</td>
<td>Heavy Duty</td>
<td>48” x 200’ x 3.2 Mil</td>
<td>1 roll/box</td>
</tr>
<tr>
<td>PG48C</td>
<td>Standard</td>
<td>48” x 200’ x 2.5 Mil</td>
<td>6 roll/box</td>
</tr>
</tbody>
</table>
WELD PINS

DESCRIPTION
Ductmate Weld Pins are used to permanently secure insulation to the inside of sheet metal ductwork. Ductmate Weld Pins are designed to work with all the standard resistance welding equipment.

RECOMMENDATIONS
All equipment should be well maintained and operated within the machine's specifications. The first time Ductmate weld pins are used on a new machine, it is recommended that the user examine the first fifty welds for contact and strength. Adjustments may need to be made to the machine's electrical current before a satisfactory weld can be achieved.

FEATURES
- Can be used with multi-head, automatic-feed, single-head, dual-head and portable systems
- Cupped head prevents liner tears
- Conical point for strength and weld consistency.
- Superior strength
- Unmatched product consistency
- Superior design helps reduce misfires
- Cupped head reduces jams and down time
- Available in a variety of sizes and packaging
- Conical point reduces welding time
- Designed to provide complete sheet to pin fusion
- All Ductmate pins are electroplate galvanized
- All pins are 10 gauge
- Manufactured in the USA

Press On Hanger

DESCRIPTION
Ductmate's Press On Hanger have a unique Easy-Peel adhesive backing design so that there isn't any fumbling with the release paper. Every Press On Hanger is neatly packed for quick access and they take up about a third less storage space than loose packed hangers. Prevent injuries and speed up your operation with Ductmate Press On Hangers.

FEATURES
- Fasteners and self-locking washers are manufactured from low carbon galvanized steel.
- All spindles are 12 gauge. Other spindle lengths, gauges and materials are available upon request.
- Washers measure 1¼” X 1⅛”
- Load per anchor should not exceed 3 lbs.
- Operating temperature should not exceed 150°F
- Application temperature should exceed 40°F
- Shelf life is estimated at 2 years if hangers are stored at room temperature and at 50% relative humidity.

PACKAGING & ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP.5GA10C1</td>
<td>1/2&quot; Weld Pin</td>
<td>1,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP.5GA10C5</td>
<td>1/2&quot; Weld Pin</td>
<td>5,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP.5GA10P5</td>
<td>1/2&quot; Weld Pin</td>
<td>5,000</td>
<td>5 Gal. Pail</td>
</tr>
<tr>
<td>WP.75GA10C1</td>
<td>3/4&quot; Weld Pin</td>
<td>1,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP.75GA10C5</td>
<td>3/4&quot; Weld Pin</td>
<td>5,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP.75GA10P5</td>
<td>3/4&quot; Weld Pin</td>
<td>5,000</td>
<td>5 Gal. Pail</td>
</tr>
<tr>
<td>WP1GA10C1</td>
<td>1&quot; Weld Pin</td>
<td>1,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP1GA10C5</td>
<td>1&quot; Weld Pin</td>
<td>5,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP1GA10P5</td>
<td>1&quot; Weld Pin</td>
<td>5,000</td>
<td>5 Gal. Pail</td>
</tr>
<tr>
<td>WP1.125GA10C1</td>
<td>1 1/8&quot; Weld Pin</td>
<td>1,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP1.125GA10C3</td>
<td>1 1/8&quot; Weld Pin</td>
<td>3,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP1.125GA10P3</td>
<td>1 1/8&quot; Weld Pin</td>
<td>3,000</td>
<td>5 Gal. Pail</td>
</tr>
<tr>
<td>WP1.5GA10C1</td>
<td>1 1/2&quot; Weld Pin</td>
<td>1,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP1.5GA10C3</td>
<td>1 1/2&quot; Weld Pin</td>
<td>3,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP1.5GA10P3</td>
<td>1 1/2&quot; Weld Pin</td>
<td>3,000</td>
<td>5 Gal. Pail</td>
</tr>
<tr>
<td>WP2GA10C1</td>
<td>2&quot; Weld Pin</td>
<td>1,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP2GA10C3</td>
<td>2&quot; Weld Pin</td>
<td>3,000</td>
<td>Box</td>
</tr>
<tr>
<td>WP2GA10P3</td>
<td>2&quot; Weld Pin</td>
<td>3,000</td>
<td>5 Gal. Pail</td>
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</table>

PACKAGING & ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>IH.75GA2B</td>
<td>.75&quot; Press On Hanger</td>
<td>2,000/Box</td>
</tr>
<tr>
<td>IH1.25GA1B</td>
<td>1.25&quot; Press On Hanger</td>
<td>1,000/Box</td>
</tr>
<tr>
<td>IH1.625GA1B</td>
<td>1.625&quot; Press On Hanger</td>
<td>1,000/Box</td>
</tr>
<tr>
<td>IH2GA1B</td>
<td>2&quot; Press On Hanger</td>
<td>1,000/Box</td>
</tr>
<tr>
<td>IH2.5GA1B</td>
<td>2.5&quot; Press On Hanger</td>
<td>1,000/Box</td>
</tr>
<tr>
<td>IH3.5GA1B</td>
<td>3.5&quot; Press On Hanger</td>
<td>1,000/Box</td>
</tr>
<tr>
<td>IHS125GA</td>
<td>1.25&quot; x 1.125&quot; Washer</td>
<td>1,000/Box</td>
</tr>
</tbody>
</table>
**MOISTURE DRAINS**

**Installation**

1. Drill a 1 1/16" hole in duct  
2. Insert threaded drain through drilled hole from inside of the duct  
3. On the outside of the duct, insert the funnel on the threaded drain  
4. Screw the nut on the threaded drain until the duct wall is drawn into a funnel shape.  
5. Use drain cap when needed.

**Dimensions**

<table>
<thead>
<tr>
<th>MOISTURE DRAIN</th>
<th>DIAMETER OF MPT PIPE</th>
<th>DIA. OF HOLE IN DUCTWALL</th>
<th>DIAMETER OF FUNNEL</th>
<th>TOTAL HEIGHT WITHOUT CAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>1-1/16&quot; (27 MM)</td>
<td>3-1/2&quot; (86 MM)</td>
<td>1-1/2&quot; (40 MM)</td>
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</table>

**Shipping Information**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MOISTURE DRAIN</th>
<th>PACKING UNIT</th>
<th>UNIT WEIGHT</th>
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</thead>
<tbody>
<tr>
<td>MD75GA</td>
<td>3/4&quot; DRAIN FITTINGS</td>
<td>1 PIECE</td>
<td>8.8 Oz</td>
</tr>
<tr>
<td>MDC75GA</td>
<td>3/4&quot; DRAIN CAPS</td>
<td>1 PIECE</td>
<td>0.136 Oz</td>
</tr>
<tr>
<td>MD75GAK</td>
<td>3/4&quot; DRAIN FITTINGS AND CAPS</td>
<td>1 SET</td>
<td>10.24 Oz</td>
</tr>
</tbody>
</table>
## BANGIT™ DAMPER HARDWARE
FROM DUCTMATE

<table>
<thead>
<tr>
<th>Description</th>
<th>Ordering Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td><strong>Part Number</strong></td>
</tr>
<tr>
<td>Spring Clip</td>
<td>BDHBSC</td>
</tr>
<tr>
<td>Precision stamped galvanized damper clip. Superior spring loaded design for labor saving installation. Engineered with an oversized point for increased strength.</td>
<td></td>
</tr>
<tr>
<td>Blank Clip</td>
<td>BDHBC</td>
</tr>
<tr>
<td>Precision stamped galvanized damper clip, with threaded post for easy installation. Engineered with an oversized point for increased strength.</td>
<td></td>
</tr>
<tr>
<td>Washer</td>
<td>BDHBW</td>
</tr>
<tr>
<td>Stamped from galvanized steel for increased strength and corrosion resistance.</td>
<td></td>
</tr>
<tr>
<td>Damper Handle</td>
<td>BDHBH</td>
</tr>
<tr>
<td>Stamped from galvanized steel for increased strength and corrosion resistance. Allows for fast and easy adjustment of the dampers. (BDHBH is used on Spring Clip)</td>
<td></td>
</tr>
<tr>
<td>Wing Nut</td>
<td>BDHBWN</td>
</tr>
<tr>
<td>This galvanized steel wing nut is die cast for superior strength and reliability.</td>
<td></td>
</tr>
<tr>
<td>BANGIT Hardware</td>
<td>DBLR_GASDH</td>
</tr>
<tr>
<td>Comes completely assembled with 2-Springs Clips, Handle, washer and wingnut</td>
<td></td>
</tr>
<tr>
<td>BANGIT Hardware</td>
<td>DBLR_GABDH</td>
</tr>
<tr>
<td>Comes completely assembled with 1- Spring Clip, 1-Blank Clip, handle, washer and wingnut</td>
<td></td>
</tr>
</tbody>
</table>
HiTex
self-drilling fasteners

Part Number: WDS31034
Box Quantity: 5000

- Recommended for all sheet metal applications
- High-hat hex head fits snugly into provided chuck
- Extra wide serrated washer reduces walking and stripping
- #10-16 screw
- Locking serrations
- #3 S-Type Point
- Complies with SAE-J78
- Chromate finish for corrosion resistance

Repeater 4200

Quickest HVAC Flange Fastener In The Industry!

Features:
- Lightweight - only 10.5 lbs
- Depth of drive adjustment
- 360° adjustable exhaust deflector
- Uses Smooth Wire-Collated Coil Nails
- Anti-Double fire mechanism
- Shock absorbing comfort rubber handle
- Belt clip

Fastener Specifications:
- Smooth Wire-Collated Coil Nails: ¾”
- Shank Diameter: .100”
- Shank Type: Helical/Gripshank

Ordering Information:
- Part Number: RFF3000
- Pins Per Roll: 200
- Rolls Per Case: 15
- Pins Per Case: 3,000
- Pin Length: ¾”
**Ductmate® System Alignment Grip Tool**
Reduce onsite installation time for rectangular duct. This tool uses the holes in the Ductmate corners to quickly align and compress mating ductwork allowing for fast and easy installation of Ductmate’s patented corner clips.

**Part Number:** AG2000

**Ductmate System Cleater® 1 and 2 Tools**
The Cleater 1 is the ideal tool for attaching cleat to Ductmate Flange joints where spacing is not an issue. Use the Cleater 2 in conjunction with 5/8” deep-wall socket, extensions, and wrench (not included) to attach cleat in hard-to-reach places.

**Part Numbers:** CLEATER1 / CLEATER2

---

**PolyArmor™ Tools**
High speed mechanical rotatory knives, available for purchase from Eastman®, for fast and effective cutting of all sizes of PolyArmor. The Cardinal 534 is Eastman’s lightweight model and provides lightweight maneuverability with plenty of cutting power. The Falcon 548 equips Eastman’s Cardinal model 548 with a special baseplate and handle to work with the Falcon guide track making straight cuts fast and easy. Both models are capable of cutting any thickness of PolyArmor.

Cardinal 534  
Falcon 548

---

**Ductmate System Versa-Cleater Tool**
Versatile tool to attach the Ductmate Versa-Cleat to Ductmate 35, 45, or TDC (and some TDF) profiles.

**Part Number:** VERSA TOOL

---

**Spiralmate® System Alignment Grip Tool**
These customized vise grips work in conjunction with Ductmate’s Spiralmate system to quickly align mating duct sections, reducing time manpower and cost. This tool is a must for any large installer of round duct.

**Part Number:** AG2001

---

**Spiralmate® System Nut Runners**
Custom deep dish sockets designed to open and close the Spiralmate Closure Band. Available in two sizes 7/16” small and 9/16” large.

**Part Numbers:** NUTRUNS/NUTRUNL

---

**Clutcher® System Tools**
The Clutcher Cable Cutter (HFWRC) and the DeClutcher (CLTOOL1020) were both engineered to making working with the Clutcher Cable Hanging System easier. The cutter was specifically designed to cut WR10 and WR20 Clutcher Cable without causing the cable ends to fray. The DeClutcher easily releases the locking boar on CL10 and CL20 Clutchers allowing for adjustments to be made.

* Please see detailed Clutcher Installation Instructions before using Clutcher or Clutcher Tools.

**Part Numbers:** HFWRC/CLTOOL1020

---

**Snapper Cleat Tool**
The Snapper1 is the ideal tool for attaching cleat to the WDCI Flange, or TDC/TDF Cleat to the flange profile.

**Part Number:** Snapper1
GLUE IT RIGHT
FROM THE GET GO

NEW! Ductmate Gecko Glue™ is a new family of high-performance, water-based formulas designed to make it easier for you to get on with your day - with a quicker wet tack, shorter dry times and stronger holds. And they’re free of Red List chemicals. With two products to choose from, all you need to do is get the right Gecko Glue™ - and get going.

1-800-245-3188 | orders@ductmate.com
One Source. Infinite Solutions.

Rectangular Connections
We started our business building better connectors, and we continue to excel in this area. The Ductmate '25''35''45', WDCI J&H, PROflex, and Slips and Drives are the gold standard in the industry when it comes to rectangular ducts requiring a rigid, near leak-proof connection. Time has proved just how durable these connectors are.

Sealants, Adhesives, & Gaskets
This family of products includes duct sealants, adhesives, and gaskets. Formulated for indoor or outdoor use that function well in low, medium and high pressure systems. Each is designed to solve problems, such as mildew resistance, UL specs and flexibility.

Round Connections
We started our business building better connectors, and we continue to excel in this area. Spiralmate, ECONOflange, Quick-Sleeve, and PROflex are easy to install, virtually air tight and very cost efficient. In most cases, no end prep of the ductwork is needed.

HVAC Components
These products and tools are problem-solvers and simply make it easier to get the job done. They are used to reduce the noise the system generates, direct air flow, reduce leakage and remove excess moisture.

Scan The Code To Request A Digital Version Of The Ductmate Product Catalog Or Visit Ductmate.com

For more information about our complete line of products and services, call or visit us online. 1-800-245-3188 | www.ductmate.com