Mission Statement

To continue to position ourselves as the sought after supplier of sheet metal accessory products to the HVAC construction industry by providing superior customer service and quality products through innovation.

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J Flange - H Flange

**Detail**

**J Flange**
- Roll formed from 20 gauge
- Tested to a SMACNA J Rating
- Integrated sealant pocket for airtight seal
- Available in 10’ and 20’ bundles
- Meets NFPA 90A & B Class 1 (Sealing Requirements)
- Recommended for 16 gauge to 26 gauge duct work
- Available in galvanized (G60), aluminum, aluminized, SS 304, SS 316 and galvanneal

**J Corner**
- Stamped from 11 gauge
- Supplied with nuts and bolts in box
  (3/8” x 1” carriage bolt)
- Available in galvanized, aluminum, aluminized, ss 304, ss 316 and galvanneal

**H Flange**
- Roll formed from 22 gauge
- Tested to a SMACNA H Rating
- Integrated sealant pocket for airtight seal
- Available in 20’ bundles
- Meets NFPA 90A & B Class 1 (Sealing Requirements)
- Recommended for 20 gauge to 26 gauge duct work
- Available in galvanized, aluminized and galvanneal

**H Corner**
- Stamped from 11 gauge
- Supplied with nuts and bolts in box
  (1/4” x 1” carriage bolt)
- Available in galvanized, aluminized and galvanneal

**Profile**

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LJ15GA</td>
<td>J Flange 20 ft., Galvanized</td>
<td>1,500 ft/bundle</td>
<td>1,100 lbs/bundle</td>
</tr>
<tr>
<td>LJ75GA10</td>
<td>J Flange 10 ft., Galvanized</td>
<td>750 ft/bundle</td>
<td>550 lbs/bundle</td>
</tr>
<tr>
<td>LH15GA</td>
<td>H Flange 20 ft., Galvanized</td>
<td>1,500 ft/bundle</td>
<td>800 lbs/bundle</td>
</tr>
<tr>
<td>LCGA</td>
<td>J Corners, Galvanized (with Nut &amp; Bolt)</td>
<td>200 pcs/box</td>
<td>60 lbs/box</td>
</tr>
<tr>
<td>LHCGA</td>
<td>H Corners, Galvanized (with Nut &amp; Bolt)</td>
<td>400 pcs/box</td>
<td>50 lbs/box</td>
</tr>
</tbody>
</table>

GA = Galvanized, SS = Stainless Steel 304, SS = Stainless Steel 316, GR = Galvanneal, Al = Aluminium, AZ = Aluminized, PVC = PVC Coated
Slip - Drive - Standing S

**Detail**

Quality residential/light commercial duct connection products

- Available in galvanized, aluminum, galvanneal, stainless steel and aluminized
- Available in 10’ and 5’ bundles
- Cut to length available upon request

**Profile**

![Diagram of duct connection products](image)

- 1/2” Standing S
- 1” Standing S
- 1 5/8” Standing S
- Hemmed Slip HSGAK
- Drive Slip DSGAK
- Standing Drive Slip

**Cut to Length**

- Hemmed S 6” through 24” in 2” increments
- Drive Slip 6” through 26” in 2” increments

**Packaging**

- 100 ft/bundle
- Cut to Length - 50 pcs/carton

**Weight Chart (lbs/ft)**

<table>
<thead>
<tr>
<th>Gauges</th>
<th>1/2” Standing S</th>
<th>1” Standing S</th>
<th>1 5/8” 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>.78</td>
<td>.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>.58</td>
<td>.68</td>
<td>N/A</td>
<td>N/A</td>
<td>.46</td>
<td>Green</td>
</tr>
<tr>
<td>24 GA</td>
<td>.41</td>
<td>.55</td>
<td>N/A</td>
<td>.32</td>
<td>.19</td>
<td>.40</td>
<td>Orange</td>
</tr>
<tr>
<td>26 GA</td>
<td>.35</td>
<td>.44</td>
<td>N/A</td>
<td>.25</td>
<td>.15</td>
<td>.33</td>
<td>Blue</td>
</tr>
<tr>
<td>28 GA</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>.227</td>
<td>.12</td>
<td>N/A</td>
<td>Red</td>
</tr>
</tbody>
</table>

N/A - Designates gauges that are not stock, but can be available upon special request.
Self-sealing slip and drive system for low pressure duct systems. The three part system consists of CL’D Slip, CL’D Drive and the CL’D Corner Patch.

- Available in galvanized, stainless steel and aluminum
- Exceeds SMACNA Leakage Class 3
- Meets SMACNA Seal Class A requirements
- Great for exposed duct work
- Eliminates sealing labor and material costs
- Available in 10’ bundles
- Integrated gasket inside the slip
- Integrated gasket inside the drive
- Available in 24, 26 and 28 gauge

### Profile

<table>
<thead>
<tr>
<th>Hot Melt Gasket Spec</th>
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</thead>
<tbody>
<tr>
<td>Color: Black</td>
</tr>
<tr>
<td>VOCs: 0</td>
</tr>
<tr>
<td>Surface Burning Characteristics: ASTM E-84</td>
</tr>
<tr>
<td>Fire Hazard Classification: FHC 25/50</td>
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<tr>
<td>Odorless</td>
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</table>

<table>
<thead>
<tr>
<th>Gasket Spec</th>
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</thead>
<tbody>
<tr>
<td>Color: Black</td>
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<tr>
<td>VOCs: 0</td>
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<tr>
<td>Surface Burning Characteristics: ASTM E-84</td>
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<td>Fire Hazard Classification: FHC 25/50</td>
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<tr>
<td>Odorless</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Corner Patch Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: Black</td>
</tr>
<tr>
<td>VOCs: 0</td>
</tr>
<tr>
<td>Size: 1” x 1” x 1/8”</td>
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<tr>
<td>Surface Burning Characteristics: ASTM E-84</td>
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<tr>
<td>Fire Hazard Classification: FHC 25/50</td>
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<tr>
<td>Odorless</td>
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</table>

### Packaging

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<thead>
<tr>
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<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHSGA24S</td>
<td>CL’D Slip 24 ga</td>
<td>100 ft/bundle</td>
<td>37 lbs/bundle</td>
</tr>
<tr>
<td>WHSGA26S</td>
<td>CL’D Slip 26 ga</td>
<td>100 ft/bundle</td>
<td>33 lbs/bundle</td>
</tr>
<tr>
<td>WHSGA28S</td>
<td>CL’D Slip 28 ga</td>
<td>100 ft/bundle</td>
<td>29 lbs/bundle</td>
</tr>
<tr>
<td>WDSA24S</td>
<td>CL’D Drive 24 ga</td>
<td>100 ft/bundle</td>
<td>21 lbs/bundle</td>
</tr>
<tr>
<td>WDSA26S</td>
<td>CL’D Drive 26 ga</td>
<td>100 ft/bundle</td>
<td>16 lbs/bundle</td>
</tr>
<tr>
<td>WDSA28S</td>
<td>CL’D Drive 28 ga</td>
<td>100 ft/bundle</td>
<td>12 lbs/bundle</td>
</tr>
<tr>
<td>CLDPATCH</td>
<td>CL’D Corner Patch</td>
<td>200 pcs/box</td>
<td>1 lb/box</td>
</tr>
</tbody>
</table>
TDC and TDF Corner

**Detail**

TDC Corner
- Stamped from 14 gauge
- Designed for TDC ductwork
- Designed for 3/8” carriage bolt
- “Star” bolt hole for easy fastening
- Available in galvanized, stainless and aluminum

TDF Corner
- Stamped from 14 gauge
- Designed for TDF ductwork
- Designed for 3/8” carriage bolt
- “Star” bolt hole for easy fastening
- Available in galvanized, stainless and aluminum

**Profile**

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LWCCGA</td>
<td>TDC Corner</td>
<td>300 pcs/box</td>
<td>55 lbs/box</td>
</tr>
<tr>
<td>LWFCGA</td>
<td>TDF Corner</td>
<td>300 pcs/box</td>
<td>55 lbs/box</td>
</tr>
</tbody>
</table>
TDCII and TDFII Corner

**Detail**

TDC II Corner
- Stamped from 16 gauge
- Designed for TDC ductwork
- Designed for 3/8" carriage bolt
- Available in galvanized, stainless and aluminum

TDF II Corner
- Stamped from 16 gauge
- Designed for TDF ductwork
- Designed for 3/8" carriage bolt
- Available in galvanized, stainless and aluminum

**Profile**

![Profile Diagram]

- TDC - 1.22"
- TDF - 1.27"
- 4.063"

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCMCGAMI</td>
<td>TDC II Corner</td>
<td>250 pcs/box</td>
<td>35 lbs/box</td>
</tr>
<tr>
<td>LCMFGAMI</td>
<td>TDF II Corner</td>
<td>250 pcs/box</td>
<td>35 lbs/box</td>
</tr>
</tbody>
</table>
TDC and TDF Cornermatic Corner

**Detail**

TDC Cornermatic™ Corner
- Stamped from 16 gauge
- Designed for TDC ductwork
- Designed for 3/8” carriage bolt
- Available in galvanized, stainless and aluminum

TDF Cornermatic™ Corner
- Stamped from 16 gauge
- Designed for TDF ductwork
- Designed for 3/8” carriage bolt
- Available in galvanized, stainless and aluminum

**Profile**

![Corner detail diagram]

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCMCGA</td>
<td>TDC Cornermatic Corner</td>
<td>250 pcs/box</td>
<td>35 lbs/box</td>
</tr>
<tr>
<td>LCMFGA</td>
<td>TDF Cornermatic Corner</td>
<td>250 pcs/box</td>
<td>35 lbs/box</td>
</tr>
</tbody>
</table>
Cornermatic Strap-Pak™ Corners

**Detail**

The fastest and easiest way to reload your corner inserting machinery is with the use of the new Strap-Pak design. Each “pak” contains 80 corners that will load 3 times faster than conventional loading. Taking only minutes to install, Mestek Machinery approved chutes are also available free of charge to all corner inserter models.

Do you want to speed up your production? Then use the new Cornermatic Strap-Pak Corners...

**Specs**

- Stamped from 16 gauge
- Hole for 3/8” carriage bolt
- Available in Galvanized, Galvanneal, Aluminum, PVC Coated, SS 304 and SS316
- Available in TDC® and TDF®

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCMCGASTPK</td>
<td>TDC Cornermatic Strap-Pak, Galvanized</td>
<td>400 pcs/box</td>
<td>40 lbs</td>
</tr>
<tr>
<td>LCMFGASTPK</td>
<td>TDF Cornermatic Strap-Pak, Galvanized</td>
<td>400 pcs/box</td>
<td>40 lbs</td>
</tr>
<tr>
<td>LCMUGASTPK</td>
<td>Universal Cornermatic Strap-Pak, Galvanized</td>
<td>400 pcs/box</td>
<td>40 lbs</td>
</tr>
</tbody>
</table>

AL = Aluminum, AZ = Aluminized, S4 = SS 304, S6 = SS 316, GN = Galvanneal
Cleat

**Detail**

The CL WARD manufactured “Regular Cleat” and our “TDF Cleat”

- Roll formed from 20 gauge
- 6” pieces standard
- 10’ pieces available upon request
- Available in Galvanized, Aluminized, 304 & 316 Stainless Steel and PVC
- Regular Cleat is designed for J Flange, H Flange and TDC Connections
- F Cleat is designed for TDF Connections

**Profile**

![CL WARD Regular Cleat](image)

![CL WARD F Cleat](image)

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LW6CGA</td>
<td>Regular 6” Cleat</td>
<td>200 ft/case</td>
<td>40 lbs/case</td>
</tr>
<tr>
<td>LW10CGA</td>
<td>Regular 10’ Cleat</td>
<td>100 ft/bundle</td>
<td>20 lbs/bundle</td>
</tr>
<tr>
<td>WJ6PVC</td>
<td>Regular PVC Cleat</td>
<td>200 ft/case</td>
<td>10 lbs/case</td>
</tr>
<tr>
<td>LF6CGA</td>
<td>F Cleat 6”</td>
<td>200 ft/case</td>
<td>40 lbs/case</td>
</tr>
<tr>
<td>LF10CGA</td>
<td>F Cleat 10’</td>
<td>100 ft/bundle</td>
<td>20 lbs/bundle</td>
</tr>
<tr>
<td>WF6PVC</td>
<td>F Cleat 6”</td>
<td>200 ft/case</td>
<td>10 lbs/case</td>
</tr>
</tbody>
</table>
ALL Cleat

**Detail**

- Roll formed from 22 gauge
- Available in 6” and 10’ pieces
- Available in galvanized, SS 304, SS 316, aluminized, galvanneal
- ALL-Cleat is designed for J-Flange and other TDC connections

**Profile**

![CL WARD ALL-Cleat Profile](image)

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Gauge</th>
<th>Packaging</th>
<th>Wt.</th>
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<tbody>
<tr>
<td>LV6CGA</td>
<td>6” ALL Cleat</td>
<td>22</td>
<td>125 ft/box</td>
<td>29 lbs</td>
</tr>
<tr>
<td>LV10CGA</td>
<td>10’ ALL Cleat</td>
<td>22</td>
<td>100 ft/bundle</td>
<td>23 lbs</td>
</tr>
</tbody>
</table>
**TriCleat™**

**Detail**

High quality cleat designed for TDC and J Flange with three integrated “dimples” to lock the cleat in place when snapped onto the flange.

- Stamped from 22 gauge
- 6 “ Length
- Available in galvanized and stainless steel
- Integrated “dimples” to lock the cleat in place
- Designed for J Flange, TDC, TDF and TDX Connections

**Profile**

![Profile Diagram]

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Gauge</th>
<th>Packaging</th>
<th>Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRI-CLEAT</td>
<td>6” Tri Cleat</td>
<td>22</td>
<td>125 ft/box</td>
<td>29 lbs</td>
</tr>
</tbody>
</table>
**SpiralFlange**

**Detail**

- Round duct connection system
- Meets SMACNA B Reinforcement Class
- 8” - 48” 18 gauge
  50” and up - 16 gauge
- Available in galvanized, galvanneal, stainless, aluminum, aluminized and PVC
- Pre-Punched holes for easier duct connections (12” and up)
- No special tools required
- Available for 1” and 2” double wall
- Specially designed with a split to accommodate minor deviations of pipe diameter (also available welded)
- Available in “halves” for flat oval
- Straight material available for flat oval

**Profile**

- Available in 8” to 72”

In accordance with SMACNA Duct Performance Test Standards #DPTS-2005 as described in the HVAC Duct Construction Standards, Third Ed.-2005, the CL WARD & Family Inc. SpiralFlange for round duct connection system and round duct reinforcement meets the requirements of a SMACNA B Reinforcement Class.

**Packaging**

- Sold as single units

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFRXGA</td>
<td>SpiralFlange - SPLIT</td>
<td>Per Order</td>
</tr>
<tr>
<td>EFRWXGA</td>
<td>SpiralFlange - WELDED</td>
<td>Per Order</td>
</tr>
</tbody>
</table>

X = Diameter
1” Double Wall, X = 2826 (outer/inner)
2” Double Wall, X = 2824 (outer/inner)
SpiralSleeve

Detail

- For round air conditioning, ventilation and dust collection systems.
- 24 ga. galvanized metal sleeve
- Polyethylene seal to ensure air tight seal
- Polyethylene seal can accommodate spiral seam
- Tested to over 30” w.g. positive & negative
- Only one bolt per connection
- Available in Stainless Steel
- Other gaskets available: neoprene, high temp silicone and FDA-approved EPDM rubber gasket
- Double bolt option available (5” to 18”)

Profile

Polyethylene Seal

24 ga. Galvanized metal sleeve formed for rigidity and to retain seal. No sharp edges.

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

Packaging

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>QS3GA</td>
<td>3’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>0.83/sleeve</td>
</tr>
<tr>
<td>QS4GA</td>
<td>4’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>0.91/sleeve</td>
</tr>
<tr>
<td>QS5GA</td>
<td>5’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>0.985/sleeve</td>
</tr>
<tr>
<td>QS6GA</td>
<td>6’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>1.05/sleeve</td>
</tr>
<tr>
<td>QS7GA</td>
<td>7’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>1.16/sleeve</td>
</tr>
<tr>
<td>QS8GA</td>
<td>8’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>1.25/sleeve</td>
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<tr>
<td>QS9GA</td>
<td>9’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>1.35/sleeve</td>
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<td>QS10GA</td>
<td>10’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>1.41/sleeve</td>
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<tr>
<td>QS11GA</td>
<td>11’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>1.50/sleeve</td>
</tr>
<tr>
<td>QS12GA</td>
<td>12’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>1.75/sleeve</td>
</tr>
<tr>
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<td>13’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>1.80/sleeve</td>
</tr>
<tr>
<td>QS14GA</td>
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<td>Per Order</td>
<td>1.90/sleeve</td>
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<tr>
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<td>15’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>1.95/sleeve</td>
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<tr>
<td>QS16GA</td>
<td>16’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>2.00/sleeve</td>
</tr>
<tr>
<td>QS17GA</td>
<td>17’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>2.05/sleeve</td>
</tr>
<tr>
<td>QS18GA</td>
<td>18’ SpiralSleeve, Galv.</td>
<td>Per Order</td>
<td>2.05/sleeve</td>
</tr>
</tbody>
</table>

**LABQS = Double Bolt Option**
Flexible Duct Connector

Detail

An airtight and flexible vibration isolation connection product.
- Minimizes vibration and noise
- Available in Commercial and Residential
- Available with vinyl, neoprene, hypalon, silicone, and teflon fabrics
- Available in Galvanized, Aluminum, Stainless Steel, Galvaneal and PVC
- Meets NFPA 90A & 90B, ASTM
- Fabrics meet NFPA 701
- Airtight and water proof at 10” wg to negative 10” wg

Profile

<table>
<thead>
<tr>
<th>Grade</th>
<th>Composition</th>
<th>Gauge</th>
<th>Recommended Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial (Option 1)</td>
<td>3” x 3” x 3”</td>
<td>24 ga. metal</td>
<td>Commercial and Industrial</td>
</tr>
<tr>
<td>Commercial (Option 2)</td>
<td>3” x 6” x 3”</td>
<td>24 ga. metal</td>
<td>Commercial and Industrial</td>
</tr>
<tr>
<td>Economy</td>
<td>2 ¾” x 4” x 2 ¾”</td>
<td>28 ga. metal</td>
<td>Light Commercial</td>
</tr>
<tr>
<td>Residential</td>
<td>1 ¾” x 3” x 1 ¾”</td>
<td>28 ga. metal</td>
<td>Residential and Light Commercial</td>
</tr>
<tr>
<td>TDC/TDF Commercial</td>
<td>4” x 4” x 4”</td>
<td>24 ga. metal</td>
<td>Commercial and Industrial</td>
</tr>
</tbody>
</table>

X = V for Vinyl, N for Neoprene, H for Hypalon, S for Silicone, T for Teflon

<table>
<thead>
<tr>
<th>Base Fabric</th>
<th>Vinyl-LA Base Fabric</th>
<th>Vinyl Base Fabric</th>
<th>Neoprene Base Fabric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Polyester/Polyester</td>
<td>Polyester/Polyester</td>
<td>Glass Cloth</td>
</tr>
<tr>
<td>Weight</td>
<td>20 oz./sq. yd.</td>
<td>20 oz./sq. yd.</td>
<td>30 oz./sq. yd.</td>
</tr>
<tr>
<td>Tongue Tear</td>
<td>35/35 lbs.</td>
<td>65/70 lbs.</td>
<td>40/30 lbs.</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>280 lbs./220bs.</td>
<td>425/280 lbs.</td>
<td>395/255 lbs.</td>
</tr>
<tr>
<td>Low Temperature</td>
<td>-40°F</td>
<td>-40°F</td>
<td>-40°F</td>
</tr>
<tr>
<td>High Temperature</td>
<td>200°F</td>
<td>200°F</td>
<td>200°F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Base Fabric</th>
<th>Hypalon Base Fabric</th>
<th>Silicone Base Fabric</th>
<th>Teflon Base Fabric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Glass Cloth</td>
<td>Silver</td>
<td>Gray</td>
</tr>
<tr>
<td>Weight</td>
<td>30 oz./sq. yd.</td>
<td>30 oz./sq. yd.</td>
<td>18 oz./sq. yd.</td>
</tr>
<tr>
<td>Tongue Tear</td>
<td>25/20 lbs.</td>
<td>90/90 lbs.</td>
<td>20/20 lbs.</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>475/375 lbs.</td>
<td>372/372 lbs.</td>
<td>410/355 lbs.</td>
</tr>
<tr>
<td>Low Temperature</td>
<td>-4°F</td>
<td>-70°F</td>
<td>-100°F</td>
</tr>
<tr>
<td>High Temperature</td>
<td>200°F</td>
<td>500°F</td>
<td>600°F</td>
</tr>
</tbody>
</table>

Packaging

- 100 ft. per box
Flexible Duct Connector - LA Approved

Detail
An airtight and flexible vibration isolation connection product.
- Minimizes vibration and noise
- City of Los Angeles Approved: M-150029
- Available with vinyl, neoprene and hypalon.
- Available in Galvanized, Aluminum, Stainless Steel, Galvaneal and PVC
- Meets NFPA 90A & 90B, ASTM
- Fabrics meet NFPA 701
- Airtight and water proof at 10” wg to negative 10” wg

Profile

<table>
<thead>
<tr>
<th>Grade</th>
<th>Composition</th>
<th>Gauge</th>
<th>Recommended Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial (Option 1)</td>
<td>3” x 3” x 3”</td>
<td>24 ga.</td>
<td>Commercial and Industrial</td>
</tr>
<tr>
<td>Residential</td>
<td>1 ¾” x 3” x 1 ¾”</td>
<td>28 ga.</td>
<td>Residential and Light Commercial</td>
</tr>
<tr>
<td>TDC/TDF Commercial</td>
<td>4” x 4” x 4”</td>
<td>24 ga.</td>
<td>Commercial and Industrial</td>
</tr>
</tbody>
</table>

X = V for Vinyl, N for Neoprene, H for Hypalon
**Vinyl not available in 4” fabric width**

Item Code for Vinyl ends with "LA" - LCFC3VGA

<table>
<thead>
<tr>
<th>Grade</th>
<th>Base Fabric</th>
<th>Color</th>
<th>Weight</th>
<th>Tongue Tear</th>
<th>Tensile Strength</th>
<th>Low Temperature</th>
<th>High Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial</td>
<td>Polyester/Polyester</td>
<td>Black</td>
<td>20 oz./sq. yd.</td>
<td>91/60 lbs.</td>
<td>295/239 lbs.</td>
<td>-40°F</td>
<td>200°F Continuous 250°F Intermittent</td>
</tr>
<tr>
<td>Residential</td>
<td>Glass Cloth</td>
<td>Black</td>
<td>30 oz./sq. yd.</td>
<td>25/20 lbs.</td>
<td>475/375 lbs.</td>
<td>-40°F</td>
<td>200°F</td>
</tr>
<tr>
<td>TDC/TDF</td>
<td>Glass Cloth</td>
<td>White</td>
<td>30 oz./sq. yd.</td>
<td>25/20 lbs.</td>
<td>475/375 lbs.</td>
<td>-4°F</td>
<td>200°F</td>
</tr>
</tbody>
</table>

Package
- 100 ft. per box
Access Doors (LAD and LRAD)

Detail

- Tested to 20” w.g. with no leakage noted
- Tested to negative 30” w.g. with no leakage noted
- Metal Thickness: 8x4, 10x06, 12x8 - 22 ga.
  16x12, 18x14, 24x18 - 20 ga.
- Available in galvanized, 304 and 316 stainless, aluminum, and PVC coated
- Utilizes a closed cell neoprene gasket for optimum sealing
- Self adhesive template provided for easy installation
- LAD - Flat Access Door
- LRAD - Round Access Door
- Available for double wall installations (4” or 6” extended bolts)
- Doors come with self stick template for easy installation

Profile

- Available sizes:
  - 8x4 Flat 5” through 14” Round
  - 10x6 Flat & 6” through 30” Round
  - 12x8 Flat & 10” through 20” Round
  - 16x12 Flat & 15” through 60” Round
  - 18x14 Flat Only **
  - 24x18 Flat & 29” through 144” Round

**Door is rectangular in shape

FLAT - LAD

ROUND - LRAD

Packaging

- Sold as single units.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>LADxxxxGA</td>
<td>Flat Access Door</td>
<td>Per Order</td>
</tr>
<tr>
<td>LRADxxxxGA</td>
<td>Round Access Door</td>
<td>Per Order</td>
</tr>
</tbody>
</table>

XXX = Door Size, 106 for 10x6, 128 for 12x8
For Round Doors - Example: 1068 = 10x6x8
GA4 and GA6 indicate Double Wall construction. 4 = 4” bolts, 6 = 6” bolts
**Access Door - High Temp (LHTAD)**

**Detail**

- Provides easy access to high temperature duct systems and grease duct.
- Tested to 20” w.g., with no leakage noted.
- Tested to negative 10” w.g., with no leakage noted.
- Meets NFPA 96
- Available in 10x6, 12x8, and 16x12.
- Stamped from 16 gauge
- Ceramic fiber gasket (2,300°) ensures an air tight seal
- Zinc coated wing nuts are easily turned by hand
- Self adhesive template is provided for easy installation.
- Zinc coated conical springs installed between the inner and outer door.
- Available in galvanized, black iron and stainless steel.
- Available in double wall
- The LHTAD access doors have also been qualified for use with FyreWrap® fire rated grease duct enclosure systems. Listed by Intertek Testing Services; approved for FyreWrap Elite 1.5 Duct Insulation systems tested per ASTM E-2336 and UL 1978.

**Profile**

- Available sizes:
  - 10x06 Flat
  - 12x08 Flat**
  - 16x12 Flat
  - 18x14 Flat**
  - 10x06x6” through 30”
  - 12x8x10” through 20”
  - 16x12x18” through 60”

  **Door is rectangular in shape**

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHTADxxxxBI*</td>
<td>High Temp Access Door</td>
<td>Per Order</td>
</tr>
</tbody>
</table>

X00X = Door Size, 106 for 10x6, 128 for 12x8
For Round Doors - Example: 1068 = 10x6x8
GA = Galvanized, BI = Black Iron, S4 = SS 304
Access Door - LHTGDD Door

Detail

- Quick installation
- Fabricated to accept 3 layers of grease duct wrap.
- No tools required to open and close the door.
- Access door outer cover is fabricated from 16 gauge.
- Available in Stainless Steel (Access Door & Outer Plate)
- Threaded Rod Conduit enables clean and easy installation.
- CL WARD High Temp Access Door has 2,300°F ceramic rope gasket.
- Meets NFPA 96
- The LHTGDD access doors have also been qualified for use with FyreWrap® fire rated grease duct enclosure systems. Listed by Intertek Testing Services; approved for FyreWrap Elite 1.5 Duct Insulation systems tested per ASTM E-2336 and UL 1978.

Profile

![Diagram of Access Door]

- Accommodates up to 3 layers of wrap
- Heavy duty handle
- Wing nuts
- 2,300°F Ceramic Rope Gasket
- CL WARD High Temp Access Door Meets NFPA 96

Fire Wrap Not Included

Packaging

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHTGDD106GA16</td>
<td>10x6 Grease Duct Access Door w/Outer Plate</td>
<td>Per Order</td>
<td>8 lbs/door</td>
</tr>
<tr>
<td>LHTGDD128GA16</td>
<td>12x8 Grease Duct Access Door w/Outer Plate</td>
<td>Per Order</td>
<td>10 lbs/door</td>
</tr>
<tr>
<td>LHTGDD1612GA16</td>
<td>16x12 Grease Duct Access Door w/Outer Plate</td>
<td>Per Order</td>
<td>12 lbs/door</td>
</tr>
</tbody>
</table>

S4 = SS 304
UL RATED Access Door for grease duct or high temperature applications.

- UL 1978 Listed
- Meets NFPA 96 Standards
- No welding required
- Air tight
- Grease tight
- Can accommodate all types of duct wrap insulation
- Quick and easy to install
- Available in 10x6, 12x8 and 16x12
- Available for both flat and round duct work
- High temp ceramic board is rated to 2,300°F
- Self adhesive template provided for installation cut out
- Available in stainless steel
- Extension/Insulation kits available

<table>
<thead>
<tr>
<th>Opening Size (Order Size)</th>
<th>Door Size</th>
<th>Minimum Duct Height</th>
<th>Outer Plate Size (Kit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10” x 6”</td>
<td>12” x 8”</td>
<td>12”</td>
<td>16” x 12”</td>
</tr>
<tr>
<td>12” x 8”</td>
<td>14” x 10”</td>
<td>14”</td>
<td>18” x 14”</td>
</tr>
<tr>
<td>16” x 12”</td>
<td>18” x 14”</td>
<td>18”</td>
<td>22” x 18”</td>
</tr>
</tbody>
</table>

X = Diameter for round doors
View Door

**Detail**

An easy solution for an access point where visual inspection may be needed.

- Tested to 10” w.g. with no leakage noted
- Stamped from 22 gauge
- Viewport: 4” x 2 5/8”
- Available in galvanized, 304 and 316 stainless and aluminum,
- Utilizes a closed cell neoprene gasket for optimum sealing
- Self adhesive template provided for easy installation
- Doors come with self stick template for easy installation

**Profile**

Available sizes: 10x6

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDO106GA</td>
<td>10x6 Observation Door</td>
<td>Per Order</td>
</tr>
</tbody>
</table>

Manufactured by CL WARD INC.
Framed Access Doors

Detail

• High density fiberglass insulation with UL classification: FHC25/50
• Consist of two, 24 gauge galvanized steel panels, mechanically locked together
• Designed for up to 3” Positive/2” Negative static pressure.
• R-Value of 5
• Available in CAM/CAM and HINGED/CAM
• Meets SMACNA requirements for low pressure doors
• High density, closed cell gasket, which has a service range of –20° to 100°, is bonded to both the inside and outside of the dovetail frame.
• Dovetail Frames 6x6 to 12x12 are manufactured from 24 gauge Galvanized steel. Dovetail frames 14x14 to 24x24 are manufactured from 22 gauge galvanized steel.
• All frames are manufactured with spotwelds at each corner for increased strength
• Hinges are full length galvanized piano hinge secured to both the frame and door with three spot welds
• Cams are manufactured from 16 gauge galvanized steel and secured to the door with a rivet
• Latches are manufactured from 20 gauge galvanized steel and secured to the frame with two spot welds
• Access doors available with chains upon request
• Available in Stainless Steel and Aluminum
• **Frames available for 1” and 1.5” ductboard.**

Profile

Hinged Doors - 6” x 6” through 14” x 14” have one CAM lock
16” x 16” through 24” x 24” have two CAM locks

CAMMED

Cammed Hinged Doors - 6” x 6” through 14” x 14” have two CAM locks
16” x 16” through 24” x 24” have four CAM locks

Cammed

1"  1/2"

Dovetail Tabs

Closed Cell Neoprene Gasket

Fiberglass Insulation (1” Standard - 2” Available)

Packaging

<table>
<thead>
<tr>
<th>CAM</th>
<th>HINGED</th>
<th>PRODUCT DESCRIPTION</th>
<th>PACKAGING</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDC6GA</td>
<td>FDH6GA</td>
<td>6X6 FRAMED DOOR</td>
<td>20/CARTON</td>
<td>31 lbs/carton</td>
</tr>
<tr>
<td>FDC8GA</td>
<td>FDH8GA</td>
<td>8X8 FRAMED DOOR</td>
<td>20/CARTON</td>
<td>45 lbs/carton</td>
</tr>
<tr>
<td>FDC10GA</td>
<td>FDH10GA</td>
<td>10X10 FRAMED DOOR</td>
<td>10/CARTON</td>
<td>30 lbs/carton</td>
</tr>
<tr>
<td>FDC12GA</td>
<td>FDH12GA</td>
<td>12X12 FRAMED DOOR</td>
<td>10/CARTON</td>
<td>39 lbs/carton</td>
</tr>
<tr>
<td>FDC14GA</td>
<td>FDH14GA</td>
<td>14X14 FRAMED DOOR</td>
<td>10/CARTON</td>
<td>50 lbs/carton</td>
</tr>
<tr>
<td>FDC16GA</td>
<td>FDH16GA</td>
<td>16X16 FRAMED DOOR</td>
<td>5/CARTON</td>
<td>30 lbs/carton</td>
</tr>
<tr>
<td>FDC18GA</td>
<td>FDH18GA</td>
<td>18X18 FRAMED DOOR</td>
<td>5/CARTON</td>
<td>38 lbs/carton</td>
</tr>
<tr>
<td>FDC22GA</td>
<td>FDH22GA</td>
<td>20X20 FRAMED DOOR</td>
<td>5/CARTON</td>
<td>45 lbs/carton</td>
</tr>
<tr>
<td>FDC24GA</td>
<td>FDH24GA</td>
<td>24X24 FRAMED DOOR</td>
<td>5/CARTON</td>
<td>60 lbs/carton</td>
</tr>
</tbody>
</table>

Weight

31 lbs/carton  
45 lbs/carton  
30 lbs/carton  
39 lbs/carton  
50 lbs/carton  
30 lbs/carton  
38 lbs/carton  
45 lbs/carton  
60 lbs/carton
Press-On Framed Access Doors

**Detail**

- High density fiberglass insulation with UL classification: FHC25/50
- Consist of two, 24 gauge galvanized steel panels, mechanically locked together
- Designed for up to 3” static pressure.
- R-Value of 5
- Available in CAM/CAM and HINGED/CAM
- Meets SMACNA requirements for low pressure doors
- High density, closed cell gasket, which has a service range of –20° to 100°, is bonded to the inside only of the press-on door frame. Press-on frame has a double sided adhesive gasket on the outside of the door frame that has a service range of -100° to 200°
- All frames are manufactured with spotwelds at each corner for increased strength
- Press-on doors have a durable double sided adhesive gasket that allows an easy installation to metal ductwork
- Hinges are full length galvanized piano hinge secured to both the frame and door with three spot welds
- Cams are manufactured from 16 gauge galvanized steel and secured to the door with a rivet
- Latches are manufactured from 20 gauge galvanized steel and secured to the frame with two spot welds
- Access doors available with chains upon request

**Profile**

- Metal Door Panel 24 gauge
- Door Size (W x H)
- Fiberglass Insulation (1” Standard - 2” Available)
- Closed Cell Neoprene Gasket
- 1.5” Adhesive Gasket

**Packaging**

<table>
<thead>
<tr>
<th>CAM</th>
<th>HINGED</th>
<th>PRODUCT DESCRIPTION</th>
<th>PACKAGING</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDPC6GA</td>
<td>FDPH6GA</td>
<td>6X6 FRAMED DOOR</td>
<td>20/CARTON</td>
<td>31 lbs/carton</td>
</tr>
<tr>
<td>FDPC8GA</td>
<td>FDPH8GA</td>
<td>8X8 FRAMED DOOR</td>
<td>20/CARTON</td>
<td>45 lbs/carton</td>
</tr>
<tr>
<td>FDPC10GA</td>
<td>FDPH10GA</td>
<td>10X10 FRAMED DOOR</td>
<td>10/CARTON</td>
<td>30 lbs/carton</td>
</tr>
<tr>
<td>FDPC12GA</td>
<td>FDPH12GA</td>
<td>12X12 FRAMED DOOR</td>
<td>10/CARTON</td>
<td>39 lbs/carton</td>
</tr>
<tr>
<td>FDPC14GA</td>
<td>FDPH14GA</td>
<td>14X14 FRAMED DOOR</td>
<td>10/CARTON</td>
<td>50 lbs/carton</td>
</tr>
<tr>
<td>FDPC16GA</td>
<td>FDPH16GA</td>
<td>16X16 FRAMED DOOR</td>
<td>5/CARTON</td>
<td>30 lbs/carton</td>
</tr>
<tr>
<td>FDPC18GA</td>
<td>FDPH18GA</td>
<td>18X18 FRAMED DOOR</td>
<td>5/CARTON</td>
<td>38 lbs/carton</td>
</tr>
<tr>
<td>FDPC22GA</td>
<td>FDPH22GA</td>
<td>20X20 FRAMED DOOR</td>
<td>5/CARTON</td>
<td>45 lbs/carton</td>
</tr>
<tr>
<td>FDPC24GA</td>
<td>FDPH24GA</td>
<td>24X24 FRAMED DOOR</td>
<td>5/CARTON</td>
<td>60 lbs/carton</td>
</tr>
</tbody>
</table>
Framed Doors - High Pressure

Detail

- High density fiberglass 1” insulation with UL classification: FHC25/50
- Consist of two, 24 gauge galvanized steel panels, mechanically locked together
- Tested to 10” static pressure with minimal leakage
- High density, closed cell gasket, which has a service range of –20° to 100°, is bonded to both the inside and outside of the dovetail frame.
- Dovetail Frames 6x6 to 12x12 are manufactured from 24 gauge galvanized steel. Dovetail frames 14x14 to 24x24 are manufactured from 22 gauge galvanized steel.
- All frames are manufactured with spotwelds at each corner for increased strength
- Cams are manufactured from 16 gauge galvanized steel and secured to the door with a rivet
- Latches are manufactured from 20 gauge galvanized steel and secured to the frame with two spot welds
- Available is galvanized, galvannealed, stainless 304, stainless 316 and aluminized

Profile

Hinged Doors - 6" x 6" through 14" x 14" have one CAM lock
16" x 16" through 24" x 24" have two CAM locks

Packaging

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Door Size</th>
<th># of Cams</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDHPC6GA</td>
<td>6” x 6”</td>
<td>4</td>
<td>20</td>
<td>31 lbs</td>
</tr>
<tr>
<td>FDHPC8GA</td>
<td>8” x 8”</td>
<td>8</td>
<td>20</td>
<td>45 lbs</td>
</tr>
<tr>
<td>FDHPC10GA</td>
<td>10” x 10”</td>
<td>8</td>
<td>10</td>
<td>30 lbs</td>
</tr>
<tr>
<td>FDHPC12GA</td>
<td>12” x 12”</td>
<td>8</td>
<td>10</td>
<td>39 lbs</td>
</tr>
<tr>
<td>FDHPC14GA</td>
<td>14” x 14”</td>
<td>8</td>
<td>10</td>
<td>50 lbs</td>
</tr>
<tr>
<td>FDHPC16GA</td>
<td>16” x 16”</td>
<td>8</td>
<td>5</td>
<td>30 lbs</td>
</tr>
<tr>
<td>FDHPC18GA</td>
<td>18” x 18”</td>
<td>8</td>
<td>5</td>
<td>38 lbs</td>
</tr>
<tr>
<td>FDHPC20GA</td>
<td>20” x 20”</td>
<td>8</td>
<td>5</td>
<td>45 lbs</td>
</tr>
<tr>
<td>FDHPC24GA</td>
<td>24” x 24”</td>
<td>8</td>
<td>5</td>
<td>60 lbs</td>
</tr>
</tbody>
</table>

CONTACT

Office: 888-973-7600
1100 Ashwood Drive
Suite 1102
Canonsburg, PA 15317
www.clward.com
Butyl Gasket - WBG

**Detail**

Premium grade sealing tape for CL WARD four bolt connectors.

- Solids: 99.8%
- Color: Off-White (ASTM D1729-69)
- Specific Gravity: $1.60 \pm 0.05$ (ASTM D-71-72)
- 40% polymer content derived from butyl and proprietary co-polymers
- Fillers are inert and used as extenders and process aids
- Remaining compounds consists of antioxidants, fungicides, and organic processing aids
- Slump Resistance: 300°, 20 min, No slump
- Heat Resistance: 190°, 24 hours, No sag
- Density: 1.45 gm/cc+ .05
- Flash Point: 400°F-Penske Martens CC (ASTM E-134)
- Shelf and Service Life: 20 years minimum
- Life Expectancy: 20 years minimum
- Service Temperature: -65°F to 220°F
- Application Temperature: Above 40°F
- Water Resistance: Vacuum .75% max, Static 0%
- Oil Migration: None (applied to galvanized steel and subjected to a temperature of 158° for one week)
- Flexibility: No cracks when bent around a 1/4” mandrel after being subjected to 3 weeks at 158°F
- Adhesion: Excellent to most non-porous surfaces
- Specifications: MIL-C 0 18969 B, Type 2, Class B
- Elongation (%min): Over 300%
- UL 723 (ASTM E 84-84)
- Flame Spread: 5
- Smoke Developed: 5
- Military Specifications: M1 L-C– 18969B. Type II, Class B
- Federal Specification: TT-C– 1796A, Type II, Class B
- 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: Meets Requirement 21CFR175.105
- VOC Content: 0 g/l per ASTM D-2369, 37 g/l per Modified EPA Method 24

**Profile**

- 3/16” x 5/8”

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBG</td>
<td>Butyl Gasket - 30’ rolls</td>
<td>750 ft/case</td>
<td>57 lbs per case</td>
</tr>
</tbody>
</table>
**Detail**

Industrial grade butyl sealing tape for TDC and TDF Connections and other rectangular duct connections.

- Solids: 99.8%
- Color: Grey
- Hardness: 77°F - 9.0mm - 10.5mm max
- Shelf Life: 1 year minimum
- Life Expectancy: 20 years minimum
- Plasticizer Migration: No bleed/contact stain
- Staining: No bleed/contact skin
- Elongation & Webbing: 0°F 250% min., 77°F 800% min.
- Service Temperature: -40°F to 190°F
- Flexibility: Passes, no cracking or loss of adhesion
- Water Resistance: Vacuum .75% max, Static 0%
- Adhesion: Excellent to most non-porous surfaces
- Tested to the equivalent of UL 723 and ASTM E 84
- Flame Spread: 10
- Smoke Developed: 10
- No VOC's

**Profile**

- 3/16” x 5/8”

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEE GASKET</td>
<td>TEE GASKET Butyl Gasket</td>
<td>500 ft/case (25 ft rolls)</td>
<td>40 lbs/box</td>
</tr>
</tbody>
</table>
Neoprene Gasket (WNEO)

**Detail**

Closed cell, rubber based sealing tape for Four Bolt Connector, Round and Flat Oval Connections

- **Hazardous Ingredients:** None. This material is not made from chemical components that are known to present possible carcinogenic, mutagenic or other chronic hazards
- **Odor:** negligible
- **Density:** 3.0 to 14.0 lbs. per cubic foot
- **Percent, volatile by volume:** 0
- **Flash point:** n/a
- **Extinguishing media:** Water spray, dry chemical, CO2
- **Special fire fighting procedures:** self contained breathing apparatus
- **Unusual fire and explosion hazards:** Toxic fire/gas hazard includes hydrogen chloride, a pulmonary irritant
- **Oil Resistance:** E1/E2 ASTM D 1056 78
- **25% Compression Resistance (PSI):** 4.0 to 4.5 ASTM D 1667
- **50% Compression Set, Max (%):** 25.0 ASTM D 1056 78
- **Linear Shrinkage, Max 24hrs @ 158°(%)** 3.0
- **Flammability (Burning rate, in/min MVS 302, Horizontal strip 4x141/2x1/2”)** 4
- **Flammability UL94 V- (1/2” and above) PASS**
- **Flammability UL94HBF (1/8” and above) PASS**
- **Flammability-FAR 25.853 A (1/4” sample) FAR 25.853 B PASS**
- **Water Absorption, Max % 5 ASTM D 1667**
- **Cold Crack (180° bend), min 1/2” mandrel within 5 sec – 40 MIL P 15280**
- **Thermal Conductivity, Max (BTU/in/hr/sq.ft.0°F)** .30 ASTM C 177
- **Tensile Strength, Min (psi) 90 ASTM D 412**
- **Elongation, Min(%) 175 ASTM D 412**
- **Durometer, Shore 00: 40+/−5**
- **Temperature range, High Continuous: 150°**
- **Temperature range, High Intermittent: 200°**
- **Flame Spread:** 10 ASTM E 84
- **Fuel Contribution:** 0 ASTM E 84
- **Smoke Density:** 0 ASTM E 84

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WNEO</td>
<td>Neoprene Gasket - 5/16” x 3/4”</td>
<td>750 ft/box</td>
<td>15 lbs/box</td>
</tr>
</tbody>
</table>
Neoprene Gasket-HD (WNEOHD)

**Detail**
The CL WARD WNEOHD is a closed cell rubber based sealing tape. For use between duct work flange for an airtight seal. It is also a great gasket to use when ducts must disassembled for cleaning and inspection purposes.

- Color: Black
- Service Temperature: -40° to 250°F
- Flammability Specifications: UL94 HF-1 Listed
- UL157, UL50E, UL508 Listed
- Water Absorption: 5%
- Density: 4-8 (pcf) average
- Compression Deflection: 2-5 psi

**Profile**

- Item Code: WNEOHD
- 5/16” x 3/4”
- 50 ft rolls - 750 ft per carton
- 15 lbs per box

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WNEOHD</td>
<td>Neoprene Gasket - 5/16” x 3/4” - High Density</td>
<td>750 ft/box</td>
<td>15 lbs/box</td>
</tr>
</tbody>
</table>
Turning Vane & Rail

**Detail**
- Vane: Available in 2” and 4”
- Rail: Available in 2” and 4”
- Available in galvanized, stainless, and aluminum
- Available in 4” Acoustical
- Vane conforms to SMACNA Standards
- Rail conforms to SMACNA Standards
- Easily attach vane without the need of fasteners
- Strong “dimple lock” to ensure vane walls stay together

**Profile**

**Packing**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Gauge</th>
<th>Ft./Bundle</th>
<th>Wt./Bundle</th>
</tr>
</thead>
<tbody>
<tr>
<td>2VGA26</td>
<td>2” Vane</td>
<td>26</td>
<td>100</td>
<td>43 lbs</td>
</tr>
<tr>
<td>L2RGA22</td>
<td>2” Regular Rail</td>
<td>22</td>
<td>100</td>
<td>39 lbs</td>
</tr>
<tr>
<td>4VGA24</td>
<td>4” Vane</td>
<td>24</td>
<td>50</td>
<td>65 lbs</td>
</tr>
<tr>
<td>L4RGA22</td>
<td>4” Regular Rail</td>
<td>22</td>
<td>100</td>
<td>73 lbs</td>
</tr>
<tr>
<td>4AVGA24</td>
<td>4” Acoustical Vane</td>
<td>24</td>
<td>50</td>
<td>66 lbs</td>
</tr>
</tbody>
</table>
Speedy Rail

**Detail**

- Available in 2” and 4”
- Manufactured from 22 gauge
- Available in galvanized, stainless, and aluminum
- Conforms to SMACNA Standards with 2 1/8” tab spacing on the 2” rail and 3 1/4” spacing on the 4” rail
- “Winged” profile for extra strong hold

**Profile**

The “Serrated Edge” of the SpeedyRail™ provide a tight installation keeping the vane in place.

The “Serrated Edge” have been specially designed to keep the vane from moving once the vane is installed onto the rail.

Also shown are the rail dimples that provide easy stacking.

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Gauge</th>
<th>Ft./Bundle</th>
<th>Wt./Bundle</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP2RGA22</td>
<td>2” SpeedyRail</td>
<td>22</td>
<td>100</td>
<td>39 lbs</td>
</tr>
<tr>
<td>LP4RGA22</td>
<td>4” SpeedyRail</td>
<td>22</td>
<td>100</td>
<td>73 lbs</td>
</tr>
</tbody>
</table>
Acoustical Vane

Detail

- Aids in directing air when quiet operation is required
- Available in 4” only
- Available in galvanized, stainless, and aluminum
- Vane conforms to SMACNA Standards
- Filled with 1.3 lb. insulation
- Insulation meets ASTM E-84 and UL 723
- Insulation has high thermal efficiency and acoustical performance

Profile

4” Vane

Fiberglass Insulation

Perforation is 1” x 1/8”
Spacing between perforation is 1/2”

Packaging

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4AVGA24</td>
<td>4” Acoustical Vane</td>
<td>100 ft/bundle</td>
<td>66 lbs/bundle</td>
</tr>
</tbody>
</table>
Single Wall Vane

**Detail**

Single wall turning vane for directing air in duct elbows.

- Available in 2” and 4”
- Available in galvanized, stainless, and aluminum
- Vane conforms to SMACNA Standards
- Union made in the U.S.A.

**Profile**

2” Vane

![2” Vane Diagram](image1)

4” Vane

![4” Vane Diagram](image2)

Hem on each edge of the vane to add rigidity.

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2VGA24SW</td>
<td>2” Vane - Single Wall</td>
<td>100 ft/bundle</td>
<td>22 lbs/bundle</td>
</tr>
<tr>
<td>4VGA22SW</td>
<td>4” Vane - Single Wall</td>
<td>100 ft/bundle</td>
<td>65 lbs/bundle</td>
</tr>
</tbody>
</table>
UniRail

Detail

Single wall rail system
- Available in 2” and 4”
- Stamped from hot-dipped galvanized steel
- Conforms to SMACNA Standards

Profile

Size (Double and Single Wall) | X   | Y
---|---|---
2” UniRail | 1 1/8” | 1 1/2”
4” UniRail | 2 1/4” | 3 1/4”

Packaging

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSW2GA24</td>
<td>2” UniRail</td>
<td>200 ft/box</td>
<td>40 lbs/box</td>
</tr>
<tr>
<td>LSW4GA24</td>
<td>4” UniRail</td>
<td>100 ft/box</td>
<td>40 lbs/box</td>
</tr>
</tbody>
</table>
Trapeze Hanger

Detail

- 18 gauge
- 10’ and 20’ lengths
- Pre-punched slots at 2” centers
- Isolation pad available for reducing noise
- SMACNA “I” Strength
- Trapeze Washer available
- Very cost effective
- Isolation pad available

Profile

Packaging

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>TRAP0310GA</td>
<td>Trapeze 10’</td>
<td>150 ft/bundle</td>
<td>150 lbs/bundle</td>
</tr>
<tr>
<td>TRAP05GA</td>
<td>Trapeze 20’</td>
<td>500 ft/bundle</td>
<td>625 lbs/bundle</td>
</tr>
<tr>
<td>LTWGA</td>
<td>Trapeze Washer</td>
<td>150 pcs/box</td>
<td>20 lbs/box</td>
</tr>
</tbody>
</table>
Spiral Hanger

**Detail**

- 20 gauge
- Available in 4” to 20”
- 1/4” nut and bolt included
- Odd sizes available

**Profile**

1/4” Nut & Bolt

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Description</th>
<th>Packaging</th>
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</thead>
<tbody>
<tr>
<td>RDH04GA20</td>
<td>Spiral Hanger, 4”</td>
<td>100 pcs/box</td>
</tr>
<tr>
<td>RDH06GA20</td>
<td>Spiral Hanger, 6”</td>
<td>100 pcs/box</td>
</tr>
<tr>
<td>RDH08GA20</td>
<td>Spiral Hanger, 8”</td>
<td>100 pcs/box</td>
</tr>
<tr>
<td>RDH10GA20</td>
<td>Spiral Hanger, 10”</td>
<td>100 pcs/box</td>
</tr>
<tr>
<td>RDH12GA20</td>
<td>Spiral Hanger, 12”</td>
<td>100 pcs/box</td>
</tr>
<tr>
<td>RDH14GA20</td>
<td>Spiral Hanger, 14”</td>
<td>50 pcs/box</td>
</tr>
<tr>
<td>RDH16GA20</td>
<td>Spiral Hanger, 16”</td>
<td>50 pcs/box</td>
</tr>
<tr>
<td>RDH18GA20</td>
<td>Spiral Hanger, 18”</td>
<td>50 pcs/box</td>
</tr>
<tr>
<td>RDH20GA20</td>
<td>Spiral Hanger, 20”</td>
<td>50 pcs/box</td>
</tr>
</tbody>
</table>
Punched Angle

**Detail**

- Available in 14, 16, and 18 gauge
- Available in 1 1/2”, 2”, and 2 1/2”
- Pre-Punched 7/32” holes
- Great for mounting fire dampers

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI1.50GA141000</td>
<td>1.5 x 1.5 14 ga. - 10 ft bundle</td>
<td>1000’/bundle</td>
<td>730 lbs/bundle</td>
</tr>
<tr>
<td>AI1.50GA14500</td>
<td>1.5 x 1.5 14 ga. - 10 ft bundle</td>
<td>500’/bundle</td>
<td>365 lbs/bundle</td>
</tr>
<tr>
<td>AI1.512GA16600</td>
<td>1.5 x 1.5 16 ga. - 12 ft bundle</td>
<td>600’/bundle</td>
<td>372 lbs/bundle</td>
</tr>
<tr>
<td>AI1.510GA161000</td>
<td>1.5 x 1.5 16 ga. - 10 ft bundle</td>
<td>1000’/bundle</td>
<td>620 lbs/bundle</td>
</tr>
<tr>
<td>AI1.510GA16500</td>
<td>1.5 x 1.5 16 ga. - 10 ft bundle</td>
<td>500’/bundle</td>
<td>310 lbs/bundle</td>
</tr>
<tr>
<td>AI1.510GA181000</td>
<td>1.5 x 1.5 18 ga. - 10 ft bundle</td>
<td>1000’/bundle</td>
<td>480 lbs/bundle</td>
</tr>
<tr>
<td>AI1.510GA18500</td>
<td>1.5 x 1.5 18 ga. - 10 ft bundle</td>
<td>500’/bundle</td>
<td>240 lbs/bundle</td>
</tr>
<tr>
<td>AI210GA141000</td>
<td>2 x 2 14 ga. - 10 ft bundle</td>
<td>1000’/bundle</td>
<td>1040 lbs/bundle</td>
</tr>
<tr>
<td>AI210GA14500</td>
<td>2 x 2 14 ga. - 10 ft bundle</td>
<td>500’/bundle</td>
<td>520 lbs/bundle</td>
</tr>
<tr>
<td>AI210GA161000</td>
<td>2 x 2 16 ga. - 10 ft bundle</td>
<td>1000’/bundle</td>
<td>870 lbs/bundle</td>
</tr>
<tr>
<td>AI210GA16500</td>
<td>2 x 2 16 ga. - 10 ft bundle</td>
<td>500’/bundle</td>
<td>435 lbs/bundle</td>
</tr>
<tr>
<td>AI210GA181000</td>
<td>2 x 2 18 ga. - 10 ft bundle</td>
<td>1000’/bundle</td>
<td>1180 lbs/bundle</td>
</tr>
<tr>
<td>AI210GA18500</td>
<td>2 x 2 18 ga. - 10 ft bundle</td>
<td>500’/bundle</td>
<td>554 lbs/bundle</td>
</tr>
<tr>
<td>AI2.50GA141000</td>
<td>2.5 x 2.5 14 ga. - 10 ft bundle</td>
<td>1000’/bundle</td>
<td>2328 lbs/bundle</td>
</tr>
<tr>
<td>AI2.50GA14500</td>
<td>2.5 x 2.5 14 ga. - 10 ft bundle</td>
<td>500’/bundle</td>
<td>1164 lbs/bundle</td>
</tr>
<tr>
<td>AI2.510GA161000</td>
<td>2.5 x 2.5 16 ga. - 10 ft bundle</td>
<td>1000’/bundle</td>
<td>1924 lbs/bundle</td>
</tr>
<tr>
<td>AI2.510GA16500</td>
<td>2.5 x 2.5 16 ga. - 10 ft bundle</td>
<td>500’/bundle</td>
<td>962 lbs/bundle</td>
</tr>
<tr>
<td>AI2.510GA181000</td>
<td>2.5 x 2.5 18 ga. - 10 ft bundle</td>
<td>1000’/bundle</td>
<td>2126 lbs/bundle</td>
</tr>
<tr>
<td>AI2.510GA18500</td>
<td>2.5 x 2.5 18 ga. - 10 ft bundle</td>
<td>500’/bundle</td>
<td>1063 lbs/bundle</td>
</tr>
<tr>
<td>LA2GA20-4</td>
<td>2” x 2” x 4’ 20ga</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Z-Bar

Detail

Intermediate Duct Reinforcement

- Roll formed from 24 gauge
- Classification conforms to SMACNA “H” equivalent
- Light weight
- Easy to use
- Cost effective

Profile

- 20 ft lengths

Intermediate reinforcement for rectangular duct.
Fasten with 3/4” of vertical duct wall and then 8” on center.

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLST15GA</td>
<td>Z-Bar Reinforcement</td>
<td>1,500 ft/bundle</td>
<td>1,005 lbs/bundle</td>
</tr>
</tbody>
</table>
**Hanger Strap**

**Detail**

- 1" Width
- Convenient carrying handle
- Easy to dispense box design
- Available in galvanized and stainless steel
- Available in 100' and 200' boxes, depending on gauge
- Available in 10' bundles
- Available in 50 lbs coils—20" I.D. with 25" O.D.
- Coils are banded with metals straps
- Perfect for small or difficult installations

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1BSTGA16</td>
<td>1&quot; Boxed Strapping 16 ga.</td>
<td>100'/box</td>
<td>22 lbs/box</td>
</tr>
<tr>
<td>L1BSTGA18</td>
<td>1&quot; Boxed Strapping 18 ga.</td>
<td>100'/box</td>
<td>17 lbs/box</td>
</tr>
<tr>
<td>L1BSTGA20</td>
<td>1&quot; Boxed Strapping 20 ga.</td>
<td>100'/box</td>
<td>12 lbs/box</td>
</tr>
<tr>
<td>L1BSTGA22</td>
<td>1&quot; Boxed Strapping 22 ga.</td>
<td>200'/box</td>
<td>21 lbs/box</td>
</tr>
<tr>
<td>L1BSTGA24</td>
<td>1&quot; Boxed Strapping 24 ga.</td>
<td>200'/box</td>
<td>17 lbs/box</td>
</tr>
<tr>
<td>L1BSTGA26</td>
<td>1&quot; Boxed Strapping 26 ga.</td>
<td>200'/box</td>
<td>15 lbs/box</td>
</tr>
<tr>
<td>1STGA16</td>
<td>1&quot; Bundled Strapping 16ga.</td>
<td>100'/bundle</td>
<td>22 lbs/bundle</td>
</tr>
<tr>
<td>1STGA18</td>
<td>1&quot; Bundled Strapping 18ga.</td>
<td>100'/bundle</td>
<td>17 lbs/bundle</td>
</tr>
<tr>
<td>1STGA20</td>
<td>1&quot; Bundled Strapping 20ga.</td>
<td>100'/bundle</td>
<td>12 lbs/bundle</td>
</tr>
<tr>
<td>1STGA22</td>
<td>1&quot; Bundled Strapping 22ga.</td>
<td>100'/bundle</td>
<td>11 lbs/bundle</td>
</tr>
<tr>
<td>1STGA24</td>
<td>1&quot; Bundled Strapping 24ga.</td>
<td>100'/bundle</td>
<td>9 lbs/bundle</td>
</tr>
<tr>
<td>1STGA26</td>
<td>1&quot; Bundled Strapping 26ga.</td>
<td>100'/bundle</td>
<td>8 lbs/bundle</td>
</tr>
<tr>
<td>1CST50GA22</td>
<td>1&quot; Strapping - Coils</td>
<td>50 lbs/coil</td>
<td>50 lbs/coil</td>
</tr>
</tbody>
</table>
**Vibration Hanger**

**Detail**

Vibration isolation hanging system.

- Prevents vibration noise transmission from air ducts and other ventilation devices to parts of the building
- Hanger has a load scale imprinted on the side
- Tension brackets have a much greater load-bearing capacity than the corresponding threaded rods
- For 3/8” Threaded Rod
- Load-bearing capacity of 1,100 lbs.

**Profile**

- The sturdy tension brackets have a much stronger load-bearing capacity than the corresponding threaded rods.
- The open space corresponds to the width of the nut preventing the nut from turning.
- The rubber padding prevents vibrations from being transmitted.
- Overall length: 5 7/8”
- Overall width: 1 13/16” x 1 13/16”
- Outside dimension corresponds to an ordinary wrench size.

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2723SI</td>
<td>Vibration Hanger</td>
<td>Single Unit</td>
<td>.74 lbs/unit</td>
</tr>
</tbody>
</table>
Strap Buckle

**Detail**

Economical and quick hanging system for round duct work. Works great for exposed installations.

- No tools required
- Made from galvanized steel
- Provides a suspension point for a hanger rod
- Accommodates 5/16” through 3/8” hanger rod
- Accommodates 1” x 18 GA through 22 GA strapping
- Load rating of 660 lbs.
- Meets SMACNA standards for use on ducts up through 36” round when installed at maximum of 12’ spacing

**Profile**

Assemble is secured by its own weight. No bolts are needed.

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSBGA</td>
<td>Strap Buckle</td>
<td>200 pcs/box</td>
<td>27.50 lbs/box</td>
</tr>
</tbody>
</table>
Hang-Fast

**Detail**

- No special tools required
- Meets all mechanical codes
- Dramatically reduces installation time
- Patented
- No welding required
- Available in a variety of sizes
- Independently tested and carries a safety factor of 5:1

**Profile**

1. **Zinc Housing** - Provides anti-corrosion properties with strength and consistent manufacturing quality.
2. **Stainless Springs** - Type 302 S26. One spring in each channel.
3. **Setting Key** - Entry hole.
4. **Serrated Teeth** - Enables a strong grip on the wire rope without sacrificing wire rope strength. Found in each wire rope channel.
5. **Locking Wedges** - Provides a locking type grip on the wire rope which only allows one way entry.
6. **End-Cap** - Plastic end-cap holds the spring in place.
7. **Setting Key** - Entry hole.

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Qty per Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF0105</td>
<td>#1 Hang-Fast 5 ft.</td>
<td>150</td>
</tr>
<tr>
<td>HF0110</td>
<td>#1 Hang-Fast 10 ft.</td>
<td>100</td>
</tr>
<tr>
<td>HF0115</td>
<td>#1 Hang-Fast 15 ft.</td>
<td>80</td>
</tr>
<tr>
<td>HF0130</td>
<td>#1 Hang-Fast 30 ft.</td>
<td>50</td>
</tr>
<tr>
<td>HF0205</td>
<td>#2 Hang-Fast 5 ft.</td>
<td>100</td>
</tr>
<tr>
<td>HF0210</td>
<td>#2 Hang-Fast 10 ft.</td>
<td>100</td>
</tr>
<tr>
<td>HF0215</td>
<td>#2 Hang-Fast 15 ft.</td>
<td>100</td>
</tr>
<tr>
<td>HF0230</td>
<td>#2 Hang-Fast 30 ft.</td>
<td>50</td>
</tr>
<tr>
<td>HF0305</td>
<td>#3 Hang-Fast 5 ft.</td>
<td>100</td>
</tr>
<tr>
<td>HF0310</td>
<td>#3 Hang-Fast 10 ft.</td>
<td>50</td>
</tr>
<tr>
<td>HF0315</td>
<td>#3 Hang-Fast 15 ft.</td>
<td>50</td>
</tr>
<tr>
<td>HF0330</td>
<td>#3 Hang-Fast 30 ft.</td>
<td>25</td>
</tr>
<tr>
<td>HF0415</td>
<td>#4 Hang-Fast 15 ft.</td>
<td>20</td>
</tr>
<tr>
<td>HF0430</td>
<td>#4 Hang-Fast 30 ft.</td>
<td>10</td>
</tr>
<tr>
<td>HF0515</td>
<td>#5 Hang-Fast 15 ft.</td>
<td>8</td>
</tr>
<tr>
<td>HF0530</td>
<td>#5 Hang-Fast 30 ft.</td>
<td>6</td>
</tr>
</tbody>
</table>
Detail

Premium grade water based duct sealant

- Indoor and outdoor use
- UL 723 Classification
- UL 181B-M Listed
- Conforms to requirements of NFPA 90A and 90B
- Manufactured by SMART Local #12
- Extremely Flexible
- Water Based
- For applications up to 15” w.g.
- Base: Engineered polymer emulsion
- Color: Gray
- Type: Water Base
- Weight: 11±.2 lbs per gallon
- Solid Contents: 68% ±3%
- Viscosity: 350,000 c.p.s.
- Application Temp: 35°F to 100°F
- VOC Content: ASTM3690-05(13) - 1.3 g/L
- Service Temp: 0°F to 175°F
- Dry To Touch: 1 hour (approx.)
- Cure Time: 24 to 72 hours + (depending on humidity, application, and temperature)
- Shore A Hardness of 65 +/-
- Flammability: Non-flammable in both wet and dry state
- Flash Point: No flash to boiling
- Mold Resistance: UL 181B Mold & Humidity Test - Pass
- Water Resistance: Excellent
- Flexibility: ASTM D522 (1/8” Madrel Bend) - Pass
- Freeze Thaw Stability: UL 181B 5 cycles
- Coverage: 25 sq.ft./gal. at 1/16”
  50 sq.ft./gal. at 1/32”
- Odor: Mild (wet) None (dry)
- Shelf Life: 1 year
- Cured Sealant: Tough and permanently flexible
- Ultraviolet Ray and Ozone resistant
- LEED Compliant, meets all applicable SCAQMD standards

* Total VOC’s after 14 days is between .5 and 5.0 mg/m³ measured as specified in the CDPH Standard Method v1.1

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSEALT</td>
<td>S-Seal 11oz Tube</td>
<td>25 tubes/case</td>
<td>25 lbs/case</td>
</tr>
<tr>
<td>SSEAL1</td>
<td>S-Seal 1 gal</td>
<td>4 gallon/case</td>
<td>50 lbs/case</td>
</tr>
<tr>
<td>SSEAL5</td>
<td>S-Seal 5 gal</td>
<td>Each</td>
<td>64 lbs/pail</td>
</tr>
<tr>
<td>SSEAL54</td>
<td>S-Seal 54 gal</td>
<td>Each</td>
<td>700 lbs/drum</td>
</tr>
</tbody>
</table>
S-Seal Spray

Detail

Premium grade water based "SPRAYABLE" duct sealant.

- Fire Resistant
- UL 723 Classification
- UL 181B-M Listed
- Conforms to Requirements of NFPA 90A and 90B
- Manufactured by SMART Local #12
- Tested to 15” w.g.
- Extremely Flexible
- Water Based
- Resists Mildew
- Base: Synthetic latex emulsion
- Color: Gray
- Type: Water Base
- Weight: 11±.2 lbs per gallon
- Solid Contents: 66% ±2%
- Viscosity: 80,000 c.p.s.
- Application Temp: 35°F to 100°F
- Service Temp: -25°F to 175°F
- Storage Temp: 40°F to 85°F
- Dry To Touch: 1 hour (approx.)
- Cure Time: 24 to 72 hours + (depending on humidity, application, and temperature)
- Flammability: Non-flammable in both wet and dry state
- Flash Point: No flash to boiling
- Mildew Resistance: Excellent
- Water Resistance: Excellent
- Flexibility: Excellent
- Freeze Thaw Stability: 5 cycles
- Coverage: 25 sq.ft./gal. at 1/16”
  50 sq.ft./gal. at 1/32”
- Odor: Mild (wet) None (dry)
- Shelf Life: 1 year
- Cured Sealant: Tough and permanently flexible
- Flame Spread: 0
- Smoke Developed: 0
- Ultraviolet Ray and Ozone resistant
- LEED Compliant

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSEALSPRAY5</td>
<td>S-Seal Spray 5 gal</td>
<td>each</td>
<td>64 lbs/pail</td>
</tr>
</tbody>
</table>

QUALIFIES FOR LEED CREDIT EQ 4.1
S-Seal Fiber Reinforced

Qualifies for LEED Credit EQ 4.1

**Detail**

Premium grade water based duct sealant with fiber reinforcement

- Indoor and outdoor use
- UL 723 Classification
- UL 181B-M Listed
- Conforms to requirements of NFPA 90A and 90B
- Manufactured by SMART Local #12
- Extremely Flexible
- Water Based
- For applications up to 15” w.g.
- Base: Engineered polymer emulsion
- Color: Gray
- Type: Water Base
- Weight: ±11.2 lbs per gallon
- Solid Contents: 68% ±3%
- Viscosity: 350,000 c.p.s.
- Application Temp: 35°F to 100°F
- VOC Content: ASTM D3690-05(13) - 1.3 g/L
- Service Temp: 0°F to 175°F
- Storage Temp: 35°F to 110°F
- Dry To Touch: 1 hour (approx.)
- Cure Time: 24 to 72 hours + (depending on humidity, application, and temperature)
- Shore A Hardness of 65 +/-
- Flammability: Non-flammable in both wet and dry state
- Flash Point: No flash to boiling
- Mold Resistance: UL 181B Mold & Humidity Test - Pass
- Water Resistance: Excellent
- Flexibility: ASTM D522 (1/8” Madrel Bend) - Pass
- Freeze Thaw Stability: UL 181B 5 cycles
- Coverage: 25 sq.ft./gal. at 1/16”
  50 sq.ft./gal. at 1/32”
- Odor: Mild (wet) None (dry)
- Shelf Life: 1 year
- Cured Sealant: Tough and permanently flexible
- Ultraviolet Ray and Ozone resistant
- LEED Compliant, meets all applicable SCAQMD standards

* Total VOC’s after 14 days is between .5 and 5.0 mg/m³ measured as specified in the CDPH Standard Method v1.1

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSEALFRT</td>
<td>S-Seal Fiber Reinforced 11oz Tube</td>
<td>25 tubes/case</td>
<td>25 lbs/case</td>
</tr>
<tr>
<td>SSEALFR1</td>
<td>S-Seal Fiber Reinforced 1 gal</td>
<td>4 gallon/case</td>
<td>50 lbs/case</td>
</tr>
<tr>
<td>SSEALFR5</td>
<td>S-Seal Fiber Reinforced 5 gal</td>
<td>Each</td>
<td>64 lbs/pail</td>
</tr>
<tr>
<td>SSEALFR54</td>
<td>S-Seal Fiber Reinforced 54 gal</td>
<td>Each</td>
<td>700 lbs/drum</td>
</tr>
</tbody>
</table>
Industrial grade water based duct sealant.

- Indoor and outdoor use
- UL 723 Classification
- UL 181B-M Listed
- Manufactured by SMART Local #12
- Non-Flammable
- Water Based
- Base: Engineered Polymer emulsion
- Recommended up to 10” wg
- Color: Gray
- Type: Water Base
- Paintable: Latex or Epoxy Paints
- Weight: 11.3±.2 lbs per gallon
- Solid Contents: 66% ±3%
- Viscosity: 320,000 c.p.s.
- VOC Content: ASTMD3690-05(13) - 1.3 g/L
- Application Temp: 35°F to 110°F
- Service Temp: 0°F to 220°F
- Storage Temp: 35°F to 110°F
- Dry To Touch: 1 hour (approx.)
- Cure Time: 24 to 72 hours + (depending on humidity, application, and temperature)
- Flammability: Non-flammable in both wet and dry state
- Flash Point: No flash to boiling
- Mold Resistance: UL 181B Mold & Humidity Test - Pass
- Water Resistance: Excellent
- Flexibility: Excellent
- Freeze Thaw Stability: 5 cycles
- Odor: Mild (wet) None (dry)
- Shelf Life: 1 year (unopened container)
- Cured Sealant: Tough and permanently flexible
- UV Resistant
- LEED Compliant, meets all applicable SCAQMD standards

* Total VOC’s after 14 days is between .5 and 5.0 mg/m³ measured as specified in the CDPH Standard Method v1.1

### Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECOSEALT</td>
<td>EcoSeal 11oz Tube</td>
<td>25 tubes/case</td>
<td>25 lbs/case</td>
</tr>
<tr>
<td>ECOSEAL1</td>
<td>EcoSeal 1 gal</td>
<td>4 gallon/case</td>
<td>50 lbs/case</td>
</tr>
<tr>
<td>ECOSEAL5</td>
<td>EcoSeal 5 gal</td>
<td>Each</td>
<td>64 lbs/pail</td>
</tr>
<tr>
<td>ECOSEAL54</td>
<td>EcoSeal 54 gal</td>
<td>Each</td>
<td>700 lbs/drum</td>
</tr>
</tbody>
</table>
EcoSeal Fiber Reinforced

Qualifies for LEED Credit EQ 4.1

Detail

Industrial grade water based duct sealant with fiber reinforcement

- Indoor and outdoor use
- UL 723 Classification
- UL 181B-M Listed
- Manufactured by SMART Local #12
- Non-Flammable
- Water Based
- Base: Engineered Polymer emulsion
- Recommended up to 10” wg
- Color: Gray
- Type: Water Base
- Paintable: Latex or Epoxy Paints
- Weight: 11.3±.2 lbs per gallon
- Solid Contents: 66% ±3%
- Viscosity: 320,000 c.p.s.
- VOC Content: ASTM3690-05(13) - 1.3 g/L
- Application Temp: 35°F to 110°F
- Service Temp: 0°F to 220°F
- Storage Temp: 35°F to 110°F
- Dry To Touch: 1 hour (approx.)
- Cure Time: 24 to 72 hours + (depending on humidity, application, and temperature)
- Flammability: Non-flammable in both wet and dry state
- Flash Point: No flash to boiling
- Mold Resistance: UL 181B Mold & Humidity Test - Pass
- Water Resistance: Excellent
- Flexibility: Excellent
- Freeze Thaw Stability: 5 cycles
- Odor: Mild (wet) None (dry)
- Shelf Life: 1 year (unopened container)
- Cured Sealant: Tough and permanently flexible
- UV Resistant
- LEED Compliant, meets all applicable SCAQMD standards

* Total VOC’s after 14 days is between .5 and 5.0 mg/m³ measured as specified in the CDPH Standard Method v1.1

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRECOSEALT</td>
<td>EcoSeal 11oz Tube - w/Fiber</td>
<td>25 tubes/case</td>
<td>25 lbs/case</td>
</tr>
<tr>
<td>FRECOSEAL1</td>
<td>EcoSeal 1 gal - w/Fiber</td>
<td>4 gallon/case</td>
<td>50 lbs/case</td>
</tr>
<tr>
<td>FRECOSEAL5</td>
<td>EcoSeal 5 gal - w/Fiber</td>
<td>Each</td>
<td>64 lbs/pail</td>
</tr>
<tr>
<td>FRECOSEAL54</td>
<td>EcoSeal 54 gal - w/Fiber</td>
<td>Each</td>
<td>700 lbs/drum</td>
</tr>
</tbody>
</table>
**S-Seal Solvent - LOW VOC**

**Detail**

Premium grade low VOC solvent based duct sealant that is LEED compliant/CDPH.

- UL Classified
- Low VOC's
- Permanently Flexible
- Fast Drying
- Will not drip or sag (Sag/Slump - Pass, ASTM D522)
- High water resistance
- For use in applications to 15” w.g.
- Low brush drag
- Excellent spreadability
- Minimal shrinkage
- Excellent adhesion to metal
- Indoor or outdoor use
- Superior sealing strength
- Conforms of requirements of NFPA 90A and 90B
- Mildew resistant
- U.S.D.A. chemically acceptable
- Base: Synthetic rubber
- Color: Grey
- Type: Solvent Base
- Weight: 9 lbs per gallon
- VOC Content: 193 g/L (EPA Method 24)
- TVOC Emissions: Private Office - Pass, School Classroom - Pass (CDPH Standard Method v1.1)
- Solid Contents: 67%
- Viscosity: 152,300 cps
- Application Temperature: 0°F to 110°F
- Cure Temperature: 40°F to 110°F
- Service Temperature: -20°F to 190°F
- Storage Temperature: 35°F to 110°F
- Dry to Touch: 15 minutes
- Cure Time: 24 to 48 hours (depending on humidity, application and temperature)
- Flammability: (wet) Extremely Flammable, Flash Point -4°F
- Freeze Thaw Stability: Pass
- Coverage: Approximately 50 to 75 sq. ft. per gallon
- Coverage: 25 sq.ft./gallon at 1/16” - 12.5 sq.ft./gallon at 1/8”
- Odor: Mild solvent (wet) None (dry)
- Shelf Life: 1 year (unopened container)
- Flame Spread - 5 Smoke Developed - 0 (ASTM E84)

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSS11LVOC</td>
<td>S-Seal Solvent 11oz Tube</td>
<td>24 tubes/case</td>
<td>25 lbs/case</td>
</tr>
<tr>
<td>WSS1LVOC</td>
<td>S-Seal Solvent 1 gal</td>
<td>4 gallon/case</td>
<td>36 lbs/case</td>
</tr>
</tbody>
</table>
Duct Liner Adhesive

Detail

Premium grade duct liner adhesive.

- Water Based
- UL Classified
- Fast Dry Time
- Exceptional Coverage: 400 sq.ft./gal
- Apply by Brush, Spray or Roto Bond
- Water Resistant
- Cleans with soap and water or mineral spirits
- Excellent Tack
- Color: Black or White
- Solvent: Water
- Weight per Gallon: 8.1 ± 0.5 lbs.
- Solids: 46 ± 2%
- Viscosity: 4,000 cPs ± 2,000 cPs
- Application Temp: 20°F to 90°F
- Storage Temp: 20°F to 90°F
- Dry Time: 15 minutes at 76°F, depending on temperature, humidity, and application thickness
- Flammability: None
- Flash Point: No flash to boiling
- Freeze Thaw Stability: 5 cycles
- Shelf Life: (Unopened containers) 1 year
- Flame Spread: 0
- Smoke Developed: 0
- Meets ASTM C 916 Type II
- Meets NFPA 90A & 90B
- LEED 4v Compliant
- Meets CDPH and EPA Method 24
- VOC Content: 20.3 g/L
- Contains antimicrobials and fungicides to prevent mold growth

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLADHESIVES5B</td>
<td>Duct Liner Adhesive - Black 5 gal pail</td>
<td>Each</td>
<td>46 lbs/pail</td>
</tr>
<tr>
<td>DLADHESIVES54B</td>
<td>Duct Liner Adhesive - Black 54 gal drum</td>
<td>Each</td>
<td>555 lbs/drum</td>
</tr>
<tr>
<td>DLADHESIVES5W</td>
<td>Duct Liner Adhesive - White 5 gal pail</td>
<td>Each</td>
<td>46 lbs/pail</td>
</tr>
<tr>
<td>DLADHESIVES54W</td>
<td>Duct Liner Adhesive - White 54 gal drum</td>
<td>Each</td>
<td>555 lbs/drum</td>
</tr>
</tbody>
</table>
Duct Liner Adhesive - HV

Premium grade high viscosity duct liner adhesive.

- Water Based
- UL Classified
- Fast Dry Time
- Coverage: 400 sq.ft./gal.
- Apply by Brush, Spray or Roto Bond
- Water Resistant
- Cleans with soap and water or mineral spirits
- Excellent Tack
- Base: Premium Latex
- Color: Black or White
- Solvent: Water
- Weight per Gallon: 9.0 ± 0.5 lbs.
- Solids: 64 ± 2%
- Viscosity: 9,000 cPs ± 2,000 cPs
- Application Temp: 20°F to 90°F
- Storage Temp: 20°F to 90°F
- Dry Time: 8 minutes, depending on temperature, humidity, and application thickness
- Flammability: None
- Flash Point: No flash to boiling
- Freeze Thaw Stability: 5 cycles
- Shelf Life: (Unopened containers) 1 year
- Flame Spread: 0
- Smoke Developed: 0
- Meets ASTM C 916 Type II
- Meets NFPA 90A & 90B
- LEED v4 Compliant
- VOC Content: 20.3 g/L
- Contains antimicrobials and fungicides to prevent mold growth
- Meets CDPH and EPA Method 24

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLADHESIVEHV5B</td>
<td>High Viscosity D L Adhesive - Black 5 gal pail</td>
<td>Each</td>
<td>46 lbs/pail</td>
</tr>
<tr>
<td>DLADHESIVEHV54B</td>
<td>High Viscosity D L Adhesive - Black 54 gal drum</td>
<td>Each</td>
<td>555 lbs/drum</td>
</tr>
<tr>
<td>DLADHESIVEHV5W</td>
<td>High Viscosity D L Adhesive - White 5 gal pail</td>
<td>Each</td>
<td>46 lbs/pail</td>
</tr>
<tr>
<td>DLADHESIVEHV54W</td>
<td>High Viscosity D L Adhesive - White 54 gal drum</td>
<td>Each</td>
<td>555 lbs/drum</td>
</tr>
</tbody>
</table>
SuperSpray

Detail

Premium quality, pressure sensitive adhesive for a quick permanent tack. A great product for bonding insulation or other materials to smooth nonporous surfaces.

- Pressure sensitive
- Methylene chloride based
- Non-flammable
- Solvent base
- Green in color
- Service Temperature: –30°F to 160°F
- Application Temperature: 60°F to 90°F
- Storage Temperature: Below 120°F
- Flammability: None
- Flashpoint: None
- Freeze-thaw: Does not apply
- Coverage: 12 lb - 1,200 sq.ft. to 1,385 sq.ft.
  40 lb - 4,000 sq.ft. to 4,600 sq.ft.
- Bonding time: 1 to 10 minutes (Depending on application rate)
- Shelf life: 1 year
- High solids content (25%)
- Easy application
- Extremely quick tack
- Strong permanent bond
- Meets DOT 39 NRC
- Non-Flammable in wet and dry state
- Ultraviolet Ray and Ozone resistant
- LEED v4 Compliant

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packing</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPERSPRAY12</td>
<td>SuperSpray 12# Canister</td>
<td>Each</td>
<td>12 lbs</td>
</tr>
<tr>
<td>SUPERSPRAY40</td>
<td>SuperSpray 40# Canister</td>
<td>Each</td>
<td>40 lbs</td>
</tr>
<tr>
<td>SSH6</td>
<td>SuperSpray Hose 6 ft</td>
<td>Each</td>
<td>2 lbs</td>
</tr>
<tr>
<td>SSH8</td>
<td>SuperSpray Hose 8 ft</td>
<td>Each</td>
<td>5 lbs</td>
</tr>
<tr>
<td>SSH12</td>
<td>SuperSpray Hose 12 ft</td>
<td>Each</td>
<td>4 lbs</td>
</tr>
<tr>
<td>SSH18</td>
<td>SuperSpray Hose 18 ft</td>
<td>Each</td>
<td>6 lbs</td>
</tr>
<tr>
<td>SSG</td>
<td>SuperSpray Gun</td>
<td>Each</td>
<td>4 lbs</td>
</tr>
</tbody>
</table>
SuperSpray-Can

Detail
Solvent based fiberglass duct liner adhesive.

- Base: Synthetic Rubber
- Color: Clear
- Weight: 11.75 oz./can
- Solids: 18%
- Service Temp: 0°F - 165°F
- Storage Temp: Approximately 72°F
- Flammability: Extremely Flammable
- Shelf Life: Approximately 1 year
- High Strength and durability
- Good dry time
- Water resistant
- Excellent workability
- Instant adhesion
- Permanently bonds fabric
- Convenient aerosol can
- Can be used to touch up duct liner

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPERSPRAYCAN</td>
<td>SuperSpray 11.75 oz. Can</td>
<td>12 cans/case</td>
<td>13 lbs/case</td>
</tr>
</tbody>
</table>
Super Liner Sealer

Detail
High viscosity water based fiberglass encapsulating coating specifically for spray applications.

- Water Based
- UL 723 Classified
- Fast Dry Time
- Contains EPA registered preservatives to prevent mold, fungus, yeast, mildew and yeast
- Exceptional Coverage
- Water Resistant
- Cleans with soap and water or mineral spirits
- Base: Synthetic Latex
- Color: Off white
- Solvent: Water
- Weight per Gallon: 10.75 ± 0.2%
- Solids: 54 ± 2%
- Viscosity: 15,000 CPS
- Application Temp: 45°F to 90°F
- Storage Temp: 40°F to 90°F
- Open Time: 10-20 minutes, depending on temperature, humidity, and application thickness
- Flammability: None
- Flash Point: No flash to boiling
- Coverage: Approximately 200 sq.ft./gal., depending on application technique
- Freeze Thaw Stability: 5 cycles
- Shelf Life: (Unopened containers) 1 year
- Flame Spread: 0
- Smoke Developed: 0
- LEED Compliant

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLS5</td>
<td>Super Liner Sealer 5 gallon pail</td>
<td>5 gallon pail</td>
<td>46 lbs/pail</td>
</tr>
<tr>
<td>SLS54</td>
<td>Super Liner Sealer 54 gallon drum</td>
<td>54 gallon drum</td>
<td>555 lbs/drum</td>
</tr>
</tbody>
</table>
Lag Adhesive

**Detail**

Lagging adhesive is used for bonding and sealing jackets of canvas, cloth or other fabrics and insulators to air conditioning ducts or cold water pipes.

- Water Based
- ASTM E-84 Certified
- Low odor
- Fire retardant in dry state
- UV resistant
- Sag resistant
- Cap be applied via spray or brush
- Great flexibility
- Base: Acrylic Latex
- Color: White or Black
- Weight/Gal: 11.3 lbs ± .3
- Viscosity: app. 80,000 cp +/- 20,000 cp
- Application Temp: 35°F to +110°F
- Storage Temp: 35°F to +110°F
- Flammability: None
- Flash Point: No flash
- Dry Time: 1 hour
- Freeze Thaw: 5 cycles
- Coverage: 200 sq.ft./gal
- Bonding Time: 40 minutes
- Shelf Life: 1 Year (unopened)
- LEED Compliant—Meets CDPH and EPA Method 24
- VOC Content: 1.3 g/L

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAGADHESIVE1B</td>
<td>Lagging Adhesive 1 gal Black</td>
<td>4 gallon/case</td>
<td>48 lbs/case</td>
</tr>
<tr>
<td>LAGADHESIVE1W</td>
<td>Lagging Adhesive 5 gal pail White</td>
<td>Each</td>
<td>64 lbs/pail</td>
</tr>
<tr>
<td>LAGADHESIVE5B</td>
<td>Lagging Adhesive 1 gal Black</td>
<td>4 gallons/case</td>
<td>48 lbs/case</td>
</tr>
<tr>
<td>LAGADHESIVE5W</td>
<td>Lagging Adhesive 5 gal pail White</td>
<td>Each</td>
<td>64 lbs/pail</td>
</tr>
</tbody>
</table>

Qualifies for LEED Credit EQ 4.1
WB - Butyl Sealant

Detail

“Pumpable” non-drying sealant for the sealing of Pittsburgh seams. Works well this coil lines and stand alone pumping systems.

- Solids: 90%
- Color: Off White
- LEED Compliant
- FDA Approved
- Density: 1.45 gm/cc+.05
- Weight per Gallon: 12.3 pounds Pounds ±.3
- Flash Point: 128°F-Penske Martens CC (ASTM E-134)
- Life Expectancy: 20 years minimum
- Service Temperature: -65°F to +200°F
- Oil Migration: None (applied to galvanized steel and subjected to a temperature of 158°F for one week)
- Flexibility: No cracks when bent around a 1/4” mandrel after being subjected to 3 weeks at 75°F, 24 weeks at –40°F and 3 weeks at 158°F
- Adhesion: Excellent to most non-porous surfaces
- Application Consistency: Hand or power pump equipment
- Specifications: AAMA 802.2; NAAMSS-la-68
- Flame Spread: 5
- Fuel Contribution: 0
- Smoke Density: 0
- Non-skinning
- Nonoxidizing
- Non-drying

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBT</td>
<td>CL WARD Butyl Sealant - 10.1 oz Tubes</td>
<td>12 tubes/case</td>
<td>7 lbs/case</td>
</tr>
<tr>
<td>WB5</td>
<td>CL WARD Butyl Sealant - 5 gal pail</td>
<td>Each</td>
<td>65 lbs/pail</td>
</tr>
<tr>
<td>WB55</td>
<td>CL WARD Butyl Sealant - 55 gal drum</td>
<td>Each</td>
<td>625 lbs/drum</td>
</tr>
</tbody>
</table>
Rod Locks

Detail

Conduit anchoring system for tie rod reinforcements

- Available in 1/2”, 3/4” and 1”
- Pipe insert is friction fitted with internal threads
- Pull out strength of 900 lbs.
- Can be used for both Positive and Negative pressure
- Simple to install

Profile

Conduit anchoring system for tie rod reinforcements

Packaging

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRL50</td>
<td>1/2” Rod Locks</td>
<td>250 sets/box</td>
<td>9 lbs/box</td>
</tr>
<tr>
<td>LRL75</td>
<td>3/4” Rod Locks</td>
<td>250 sets/box</td>
<td>9 lbs/box</td>
</tr>
<tr>
<td>LRL1</td>
<td>1” Rod Locks</td>
<td>250 sets/box</td>
<td>9 lbs/box</td>
</tr>
</tbody>
</table>
DBLR - Round Damper Blades

**Detail**
- Quality round dampers
- Available in 6” through 16”
- Damper Blade - 24 gauge
- Spring loaded end bearings
- Ideal for low pressure applications

**Profile**

```
DBLR - 6” through 16”
Handle/Spring End Bearing
Spring End Bearing
```

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBLR4GASDH</td>
<td>4&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
<tr>
<td>DBLR5GASDH</td>
<td>5&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
<tr>
<td>DBLR6GASDH</td>
<td>6&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
<tr>
<td>DBLR7GASDH</td>
<td>7&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
<tr>
<td>DBLR8GASDH</td>
<td>8&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
<tr>
<td>DBLR9GASDH</td>
<td>9&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
<tr>
<td>DBLR10GASDH</td>
<td>10&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
<tr>
<td>DBLR12GASDH</td>
<td>12&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
<tr>
<td>DBLR14GASDH</td>
<td>14&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
<tr>
<td>DBLR16GASDH</td>
<td>16&quot; Damper Blade w/Spring Bearings</td>
<td>10 pcs/box</td>
</tr>
</tbody>
</table>
DBHD - Heavy Duty Damper Blades

**Detail**

- Available in 6” through 14”
- Meets SMACNA requirements
- Intended for applications that are 2” w.g. and up
- Damper Blade - Galvanized, 20 gauge
- Can accommodate up to 2” stand-off
- Damper rod - Aluminum
- Continuous 3/8” Rod included with damper blade
- Precision stamped blades with reinforced profile
- Installed via 3/8” nylon snap-in bushings

**Profile**

![Precision stamped 20 gauge damper blade](image)

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBHDR6GA38</td>
<td>6” HD Damper Blade w/Rod</td>
<td>50 pcs/box</td>
</tr>
<tr>
<td>DBHDR8GA38</td>
<td>8” HD Damper Blade w/Rod</td>
<td>50 pcs/box</td>
</tr>
<tr>
<td>DBHDR10GA38</td>
<td>10” HD Damper Blade w/Rod</td>
<td>50 pcs/box</td>
</tr>
<tr>
<td>DBHDR12GA38</td>
<td>12” HD Damper Blade w/Rod</td>
<td>25 pcs/box</td>
</tr>
<tr>
<td>DBHDR14GA38</td>
<td>14” HD Damper Blade w/Rod</td>
<td>25 pcs/box</td>
</tr>
<tr>
<td>BSNAP38</td>
<td>3/8” Snap-In Bushing</td>
<td>500 pc/box</td>
</tr>
</tbody>
</table>
Moisture Drain

Detail

- Leak proof system
- Funnel is made of 12 gauge galvanized steel
- Threaded drain, nut, and cap are corrosion resistant

Profile

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD75</td>
<td>3/4” Moisture Drain</td>
<td>10 pcs/box</td>
<td>5.5 lbs/box</td>
</tr>
<tr>
<td>MDC75</td>
<td>3/4” Cap</td>
<td>10 pcs/box</td>
<td>.85 lbs/box</td>
</tr>
</tbody>
</table>

The threaded drain, nut, and cap are corrosion resistant.

The edge of the duct opening is pressed against the duct drain making it leak tight.

A large area of the duct wall is drawn into a funnel shape.

The funnel is made of 12 gauge galvanized steel and will not deform.
Bull Nosing

**Detail**
- Available for 1”, 1 1/2”, and 2” insulation
- Protects leading edge of duct insulation
- Constructed from 28 gauge
- Adheres to connector by a double sided super stick tape

**Profile**
- Double sided super stick tape
- Insulation

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Item Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BN1GA</td>
<td>1” Bull Nosing</td>
<td>100 ft/bundle</td>
<td>30 lbs/bundle</td>
</tr>
<tr>
<td>BN1.5GA</td>
<td>1.5” Bull Nosing</td>
<td>100 ft/bundle</td>
<td>31 lbs/bundle</td>
</tr>
<tr>
<td>BN2GA</td>
<td>2” Bull Nosing</td>
<td>100 ft/bundle</td>
<td>32 lbs/bundle</td>
</tr>
</tbody>
</table>
### Weld Pins

**Detail**
- All pins are 10 gauge
- Permanently secure insulation to the inside of sheet metal ductwork
- Designed to work with all standard resistance welding equipment
- Available in a variety of sizes & packaging
- Washer diameter 1”
- Higher electrical resistance reduces weld time
- Consistency reduces the need for adjustments to equipment
- All pins are Electroplate Galvanized
- Can be used with multi-head, automatic feed, single-head, dual-head & portable systems
- Designed to provide complete sheet to pin fusion
- Manufactured in the USA
- Superior Strength
- Cold drawn weldable wire point produces superior electrical contact

**Profile**

| Cupped Head | Reduces jams and machinery down time while preserving the insulation |
| Contact Head | Oversized for increased welding surface. |
| Shaft | Cold drawn weldable wire shaft for strength and consistency |

**Packaging**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty</th>
<th>Packaging</th>
<th>Recommended Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>GWP.5GA10C5</td>
<td>1/2” Weld Pin</td>
<td>5000</td>
<td>Box</td>
<td>1/2” Insulation - All Densities</td>
</tr>
<tr>
<td>GWP.5GA10P5</td>
<td>1/2” Weld Pin</td>
<td>5000</td>
<td>Pail</td>
<td>1/2” Insulation - All Densities</td>
</tr>
<tr>
<td>GWP.75GA10C5</td>
<td>3/4” Weld Pin</td>
<td>5000</td>
<td>Box</td>
<td>1” Insulation - 1 1/2 lb. Density</td>
</tr>
<tr>
<td>GWP.75GA10P5</td>
<td>3/4” Weld Pin</td>
<td>5000</td>
<td>Pail</td>
<td>1” Insulation - 1 1/2 lb. Density</td>
</tr>
<tr>
<td>GWP1GA10C5</td>
<td>1” Weld Pin</td>
<td>5000</td>
<td>Box</td>
<td>1” Insulation - 3 lb. Density</td>
</tr>
<tr>
<td>GWP1GA10P5</td>
<td>1” Weld Pin</td>
<td>5000</td>
<td>Pail</td>
<td>1” Insulation - 3 lb. Density</td>
</tr>
<tr>
<td>GWP1.125GA10C3</td>
<td>1 1/8” Weld Pin</td>
<td>3000</td>
<td>Box</td>
<td>1” Insulation - 4 to 6 lb. Density</td>
</tr>
<tr>
<td>GWP1.125GA10P3</td>
<td>1 1/8” Weld Pin</td>
<td>3000</td>
<td>Pail</td>
<td>1” Insulation - 4 to 6 lb. Density</td>
</tr>
<tr>
<td>GWP1.5GA10C3</td>
<td>1 1/2” Weld Pin</td>
<td>3000</td>
<td>Box</td>
<td>1 1/2” Insulation - 1 1/2lb. Density</td>
</tr>
<tr>
<td>GWP1.5GA10P3</td>
<td>1 1/2” Weld Pin</td>
<td>3000</td>
<td>Pail</td>
<td>1 1/2” Insulation - 1 1/2lb. Density</td>
</tr>
<tr>
<td>GWP2GA10C3</td>
<td>2” Weld Pin</td>
<td>3000</td>
<td>Box</td>
<td>2” Insulation - 1 1/2 and 2 lb. Density</td>
</tr>
<tr>
<td>GWP2GA10P3</td>
<td>2” Weld Pin</td>
<td>3000</td>
<td>Pail</td>
<td>2” Insulation - 1 1/2 and 2 lb. Density</td>
</tr>
</tbody>
</table>
Tek Screws

Detail

- Great for all sheet metal applications
- Chuck included with every box
- #10 - 3/4” (#10-16 screw)
- High hat hex head profile
- Extra wide serrated washer
- Locking serrations
- Chromate finish for corrosion resistance
- Complies with SAE-J78

Profile

- High hat hex head
- Extra wide serrated washer

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSDS31034</td>
<td>5,000 pcs/box</td>
<td>31 lbs/box</td>
</tr>
</tbody>
</table>
DuctGuard™

**Detail**

- Film Thickness: 2.0 mil and 3.0 mil (HP)
- High tack adhesive
- Will not leave residue on duct
- UV Resistant film
- Material: Polyethylene self adhesive film
- Color: Clear or Blue
- Hazardous Components: NONE
- Soluble in Water: NONE
- PH: NONE
- Melting Temperature: 190°F
- Flash Point: 350°F
- Ignition Temperature: 370°F
- Explosion Limits: NONE
- Thermal Decomposition: When you heat to 210°F, gaseous decomposition product that is a harmless irritant will be released.
- Environmental Hazard: Owing to the product’s consistence, dispersion in environment is not possible. Waste can be recycled.
- Dangerous Material: The product is not subject to “Dangerous Material Regulation”.

**Profile**

- 24” x 200’ roll
- 36” x 200’ roll
- 48” x 200’ roll

**Packaging**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG24</td>
<td>24” DuctGuard - Clear</td>
<td>6box - 48/pallet</td>
</tr>
<tr>
<td>DG24B</td>
<td>24” DuctGuard - Blue</td>
<td>6box - 48/pallet</td>
</tr>
<tr>
<td>DG36</td>
<td>36” DuctGuard - Clear</td>
<td>6box - 36/pallet</td>
</tr>
<tr>
<td>DG36B</td>
<td>36” DuctGuard - Blue</td>
<td>6box - 36/pallet</td>
</tr>
<tr>
<td>DG48</td>
<td>48” DuctGuard - Clear</td>
<td>6box - 36/pallet</td>
</tr>
<tr>
<td>DG48B</td>
<td>48” DuctGuard - Blue</td>
<td>6box - 36/pallet</td>
</tr>
<tr>
<td>DG24HP</td>
<td>24” DuctGuard - Clear High Puncture</td>
<td>6box - 48/pallet</td>
</tr>
<tr>
<td>DG36HP</td>
<td>36” DuctGuard - Clear High Puncture</td>
<td>6box - 36/pallet</td>
</tr>
<tr>
<td>DG24BHP</td>
<td>24” DuctGuard - Blue High Puncture</td>
<td>6box - 48/pallet</td>
</tr>
<tr>
<td>DG36BHP</td>
<td>36” DuctGuard - Blue High Puncture</td>
<td>6box - 36/pallet</td>
</tr>
</tbody>
</table>
Speedy Mister

Detail

An accurate and easy tool for applying CL WARD duct liner adhesive.

- Easy application for spray type adhesive
- Extremely fine, uniform coating through the adjustable range of settings
- Easy and fast clean up
- Pneumatically operated
- Delivered assembled for use with CL WARD adhesives
- 90 day manufacturer warranty
- Repair service is available past 90 days

Profile

- (1) 15’ x 1/4” fluid flow hose
- (1) 15’ x 1/4” air line hose
- (1) 3’ x 3/8” suction hose
- (1) Air operated 1/4” diaphragm pump
- Non-corrosive contact hardware
- (2) Air control regulators
- (1) Pressure fed air spray gun

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEEDYMISTER</td>
<td>Adhesive Spray Pump</td>
<td>1 unit/box</td>
<td>50 lbs</td>
</tr>
</tbody>
</table>
Speedy Saw

**Detail**

- Reduces cutting time with a 14” metal cutting blade
- Pneumatically controlled vice holds angle and guarantees a burr free cut, in less than a second
- Heavy gauge blade guard
- Optional piece counter
- Motor: 7.5 horse power - 3 phase - 60 cycle
- Power: Electrical 240/480V (208/575V optional– to be specified at purchase), 25 amp
- 90 to 100 psi air pressure required (filtered and lubricated)
- 14” steel cutting blade, 1” diameter arbor hole
- **MACHINE MUST BE SECURELY ANCHORED**
- **USE HAND AND EYE PROTECTION**

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEEDYSAW</td>
<td>CL WARD Speedy Saw</td>
<td>Each</td>
<td></td>
</tr>
</tbody>
</table>
Speedy Shot 3

Detail

For fastening C.L. Ward & Family J-Flange and H-Flange to the raw edge of ductwork.

- Weight - 12.5 lbs
- Recommended Operating Pressure - 80 to 120 p.s.i.
- Air Consumption - Approx 2 c.f.m. at 110 p.s.i.
- Noise - 94 dB sound power level
- Tool uses 1/4” N.P.T. male plug
- Power Source - Clean, regulated compressed air
- Clamping mechanism to ensure accurate fastening
- Inserts fastener in a fraction of a second

Fasteners
- Item code - SS3000 (3,000 per box)
- Coil-collated steel pins for steel to steel connections
- Fastener Length - 3/4” (19mm)
- Shank Diameter - .100” (2.5mm)
- Shank Type - Helical, GripShank®

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEEDYSHOT3</td>
<td>CL WARD Speedy Shot 3</td>
<td>Each</td>
<td>13 lbs</td>
</tr>
<tr>
<td>SS3000</td>
<td>Speedy Shot Fasteners</td>
<td>3,000/case</td>
<td>21 lbs/box</td>
</tr>
</tbody>
</table>
TDC/TDF Corner Tool

**Detail**

TDC/TDF Corner Installer

- The TDC/TDF Corner Tool bends the duct edge over to hold the corner in place.
- Very durable

**Packaging**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCT</td>
<td>TDC/TDF Corner Tool</td>
<td>Each</td>
<td>3 lbs</td>
</tr>
</tbody>
</table>
ALL Cleat Tool

Detail

- Designed to install CL WARD ALL-Cleat
- Easy to use

Directions
1. Insert cleat into the Cleat Tool.
2. Hook onto frame near corner, apply pressure to handle so the cleat tool compresses frames and cleat snaps on.
3. Work towards the center of duct.

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDCCLEATTOOL</td>
<td>ALL Cleat Tool</td>
<td>Each</td>
<td>1 lb</td>
</tr>
</tbody>
</table>

Cleat Spacing

<table>
<thead>
<tr>
<th>Static Pressure</th>
<th>Recommended Centers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2” to 2”</td>
<td>24” centerline</td>
</tr>
<tr>
<td>2” to 4”</td>
<td>18” centerline</td>
</tr>
<tr>
<td>4” to 10”</td>
<td>12” centerline</td>
</tr>
<tr>
<td>Over 10”</td>
<td>Continuous</td>
</tr>
</tbody>
</table>
Cleat Tool

Detail

Cleat tool for installing CL WARD Regular Cleat.

- Also work with CL WARD TDF Cleat
- Easy to use

Packaging

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEATTOOL</td>
<td>Cleat Tool - Regular Cleat</td>
<td>Each</td>
<td>1 lb</td>
</tr>
</tbody>
</table>

Cleat Spacing

<table>
<thead>
<tr>
<th>Static Pressure</th>
<th>Recommended Centers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2” to 2”</td>
<td>24” centerline</td>
</tr>
<tr>
<td>2” to 4”</td>
<td>18” centerline</td>
</tr>
<tr>
<td>4” to 10”</td>
<td>12” centerline</td>
</tr>
<tr>
<td>Over 10”</td>
<td>Continuous</td>
</tr>
</tbody>
</table>
What else do we have?

CL WARD also has a full line of **Commercial Pipe and Fittings**. Please contact us if you would like our Pipe and Fittings Catalog!!

CL WARD can also provide you with **Fire Dampers** and **Ceiling Radiation Dampers**. Please contact us if you would like our Damper Catalog!!
<table>
<thead>
<tr>
<th>CONTACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office: 888 973 7600</td>
</tr>
<tr>
<td>1100 Ashwood Drive</td>
</tr>
<tr>
<td>Suite 1102</td>
</tr>
<tr>
<td>Canonsburg, PA 15317</td>
</tr>
<tr>
<td><a href="http://www.clward.com">www.clward.com</a></td>
</tr>
</tbody>
</table>