

## 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

## CONTACT

Office: 888.973.7600

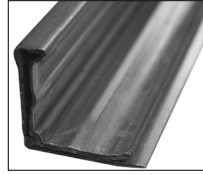
1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

## 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 galvaneal

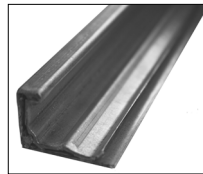


### J Corner

- 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 galvaneal

### H Flange

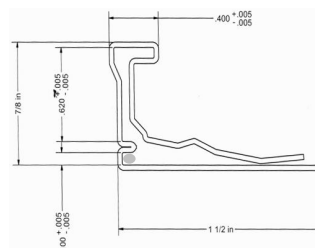
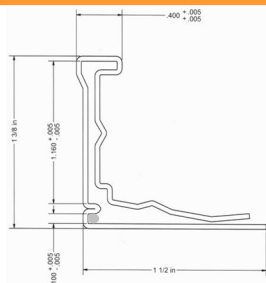
- Roll formed from 22 gauge
- Tested to a SMACNA H Rating
- Integrated sealant pocket for airtight seal
- Available in 20' bundles
- Meets NFPA 90A & B Class 1 (Sealing Requirements)
- Recommended for 20 gauge to 26 gauge duct work
- Available in galvanized, aluminized and galvaneal



### H Corner

- Stamped from 11 gauge
- Supplied with nuts and bolts in box (1/4" x 1" carriage bolt)
- Available in galvanized, aluminized and galvaneal

## Profile



## Packaging

Item	Description	Packaging	Weight
LJ15GA	J Flange 20 ft., Galvanized	1,500 ft/bundle	1,100 lbs/bundle
LJ75GA10	J Flange 10 ft, Galvanized	750 ft/bundle	550 lbs/bundle
LH15GA	H Flange 20 ft., Galvanized	1,500 ft/bundle	800 lbs/bundle
LJCGA	J Corners, Galvanized (with Nut & Bolt)	200 pcs/box	60 lbs/box
LHCGA	H Corners, Galvanized (with Nut & Bolt)	400 pcs/box	50 lbs/box

GA = Galvanized, S4 = Stainless Steel 304, S6 = Stainless Steel 316, GN = Galvaneal, AL = Aluminum, AZ = Aluminized, PVC = PVC Coated

# Slip - Drive - Standing S

## CONTACT

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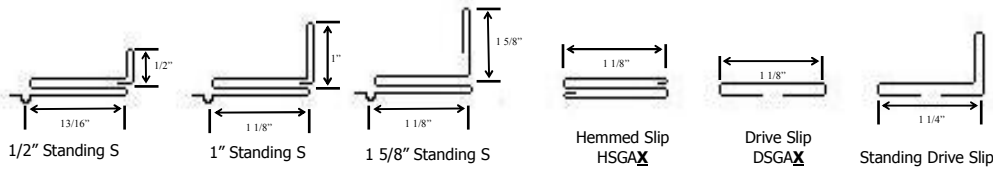
## Detail

Quality residential/light commercial duct connection products

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



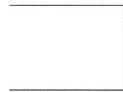
## Profile



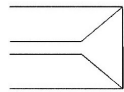
X = 20 ga, 22 ga, 24 ga, 26 ga  
See chart below for available gauges

### Cut to Length

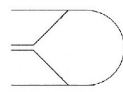
- Hemmed S 6" through 24" in 2" increments
- Drive Slip 6" through 26" in 2" increments



Hemmed S  
Straight end



Drive Slip  
Straight end - 45° bevel



Drive Slip  
Tabbed end - 45° bevel

## Packaging

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

Weight Chart (lbs/ft)

Gauges	1/2" Standing S	1" Standing S	1 5/8" Standing S	Hemmed S	Drive Slip	Standing Drive Slip	Color Code
20 GA	N/A	.78	.79	N/A	N/A	N/A	Yellow
22 GA	N/A	.58	.68	N/A	N/A	.46	Green
24 GA	.41	.55	N/A	.32	.19	.40	Orange
26 GA	.35	.44	N/A	.25	.15	.33	Blue
28 GA	N/A	N/A	N/A	.227	.12	N/A	Red

N/A - Designates gauges that are not stock, but can be available upon special request.

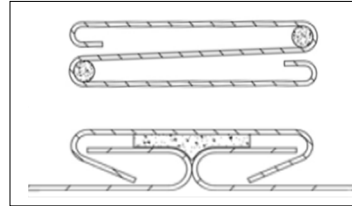
# CL'D™ Slip and Drive

Patent Pending

## Detail

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



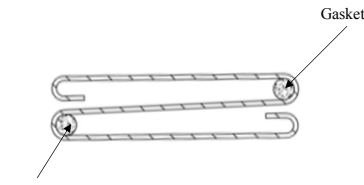
## CONTACT

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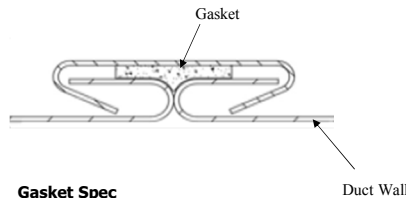
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## Profile



### Hot Melt Gasket Spec

Color: Black  
VOCs: 0  
Surface Burning Characteristics: ASTM E-84  
Fire Hazard Classification: FHC 25/50  
Odorless



### Gasket Spec

Color: Black  
VOCs: 0  
Surface Burning Characteristics: ASTM E-84  
Fire Hazard Classification: FHC 25/50  
Odorless



### Corner Patch Spec

Color: Black  
VOCs: 0  
Size: 1" x 1" x 1/8"  
Surface Burning Characteristics: ASTM E-84  
Fire Hazard Classification: FHC 25/50  
Odorless

## Packaging

Item Code	Item Description	Packaging	Weight
WHSGA24S	CL'D Slip 24 ga	100 ft/bundle	37 lbs/bundle
WHSGA26S	CL'D Slip 26 ga	100 ft/bundle	33 lbs/bundle
WHSGA28S	CL'D Slip 28 ga	100 ft/bundle	29 lbs/bundle
WDSGA24S	CL'D Drive 24 ga	100 ft/bundle	21 lbs/bundle
WDSGA26S	CL'D Drive 26 ga	100 ft/bundle	16 lbs/bundle
WDSGA28S	CL'D Drive 28 ga	100 ft/bundle	12 lbs/bundle
CLDPATCH	CL'D Corner Patch	200 pcs/box	1 lb/box

# TDC and TDF Corner

## CONTACT

Office: 888.973.7600

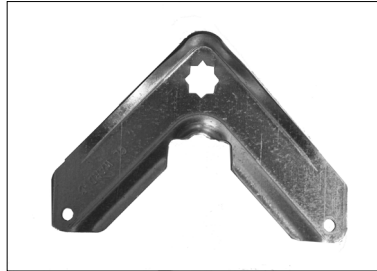
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## Detail

### TDC Corner

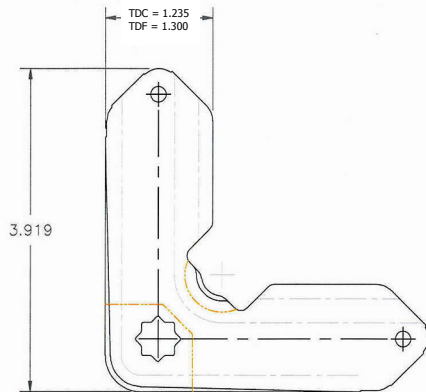
- Stamped from 14 gauge
- Designed for TDC ductwork
- Designed for 3/8" carriage bolt
- "Star" bolt hole for easy fastening
- Available in galvanized, stainless and aluminum



### 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

Item Code	Item Description	Packaging	Weight
LWCCGA	TDC Corner	300 pcs/box	55 lbs/box
LWFCGA	TDF Corner	300 pcs/box	55 lbs/box

# TDCII and TDFII Corner

## CONTACT

Office: 888.973.7600

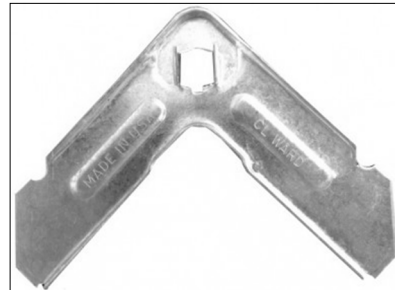
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## Detail

### TDC II Corner

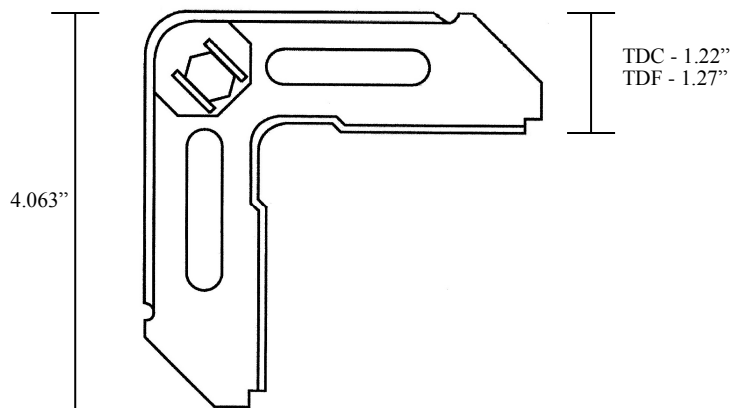
- Stamped from 16 gauge
- Designed for TDC ductwork
- Designed for 3/8" carriage bolt
- Available in galvanized, stainless and aluminum



### TDF II Corner

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

## Profile



## Packaging

Item Code	Item Description	Packaging	Weight
LCMCGAMI	TDC II Corner	250 pcs/box	35 lbs/box
LCMFGAMI	TDF II Corner	250 pcs/box	35 lbs/box

# 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

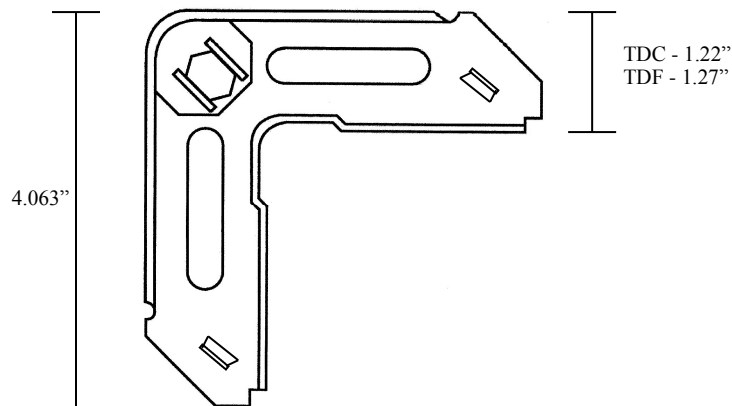
## CONTACT

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## Profile



## Packaging

Item Code	Item Description	Packaging	Weight
LCMCGA	TDC Cornermatic Corner	250 pcs/box	35 lbs/box
LCMFGA	TDF Cornermatic Corner	250 pcs/box	35 lbs/box

# 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...



## CONTACT

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## Specs

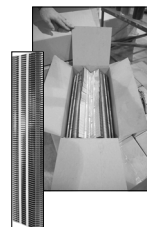
- Stamped from 16 gauge
- Hole for 3/8” carriage bolt
- Available in Galvanized, Galvanneal, Aluminum, PVC Coated, SS 304 and SS316
- Available in TDC® and TDF®



## Packaging

Item Code	Item Description	Packaging	Weight
LCMCGASTPK	TDC Cornermatic Strap-Pak, Galvanized	400 pcs/box	40 lbs
LCMFGASTPK	TDF Cornermatic Strap-Pak, Galvanized	400 pcs/box	40 lbs
LCMUGASTPK	Universal Cornermatic Strap-Pak, Galvanized	400 pcs/box	40 lbs

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



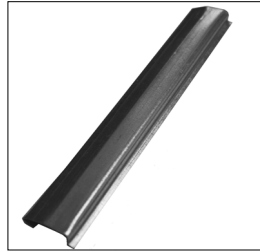


# Cleat

## 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



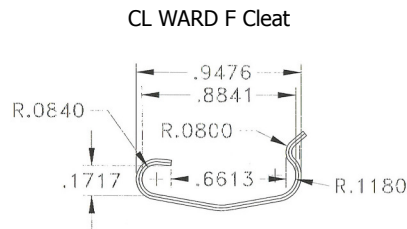
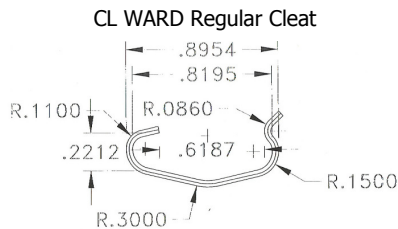
## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
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Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

## Profile



## Packaging

Item Code	Item Description	Packaging	Weight
LW6CGA	Regular 6" Cleat	200 ft/case	40 lbs/case
LW10CGA	Regular 10' Cleat	100 ft/bundle	20 lbs/bundle
WJ6PVC	Regular PVC Cleat	200 ft/case	10 lbs/case
LF6CGA	F Cleat 6"	200 ft/case	40 lbs/case
LF10CGA	F Cleat 10'	100 ft/bundle	20 lbs/bundle
WF6PVC	F Cleat 6"	200 ft/case	10 lbs/case

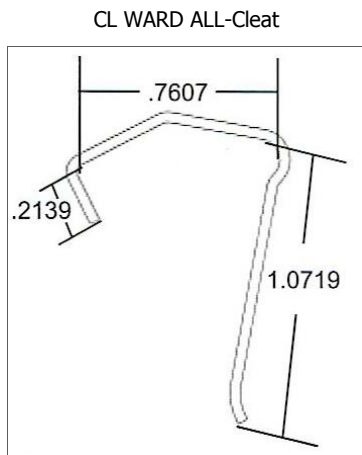
# ALL Cleat

## Detail

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



## Profile



## Packaging

Item	Description	Gauge	Packaging	Wt.
LV6CGA	6" ALL Cleat	22	125 ft/box	29 lbs
LV10CGA	10' ALL Cleat	22	100 ft/bundle	23 lbs

## CONTACT

Office: 888.973.7600

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Suite 1102  
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[www.clward.com](http://www.clward.com)

# TriCleat™

## CONTACT

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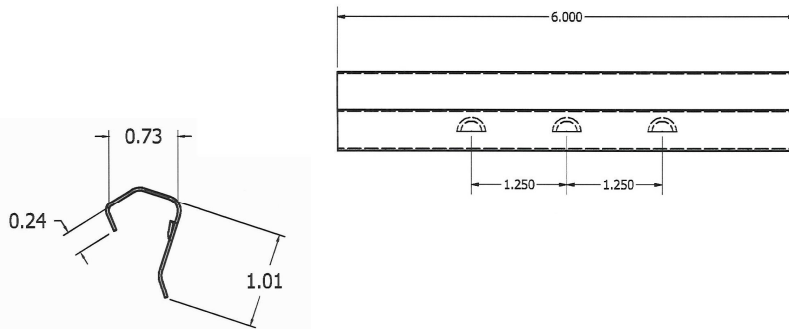
## Detail

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



## Packaging

Item	Description	Gauge	Packaging	Wt.
TRI-CLEAT	6” Tri Cleat	22	125 ft/box	29 lbs

# SpiralFlange

## CONTACT

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## Detail

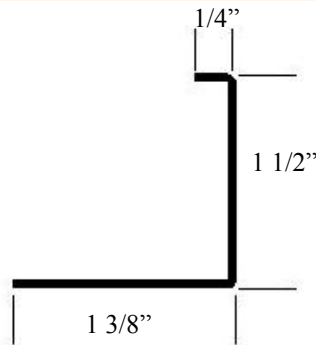
- Round duct connection system
- Meets SMACNA B Reinforcement Class
- 8" - 48" 18 gauge  
50" and up - 16 gauge
- Available in galvanized, galvaneal, stainless, aluminum, aluminized and PVC
- Pre-Punched holes for easier duct connections (12" and up)
- No special tools required
- Available for 1" and 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



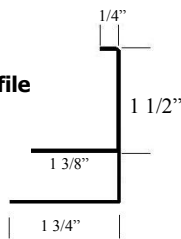
## Profile

- Available in 8" to 72"

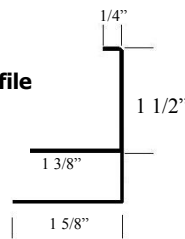
In accordance with SMACNA Duct Performance Test Standards #DPTS-2005 as described in the HVAC Duct Construction Standards, Third Ed.-2005, the CL WARD & Family Inc. SpiralFlange for round duct connection system and round duct reinforcement meets the requirements of a SMACNA B Reinforcement Class.



### 1" Double Wall Profile



### 2" Double Wall Profile



## Packaging

- Sold as single units

Item Code	Item Description	Packaging
EFRXGA	SpiralFlange - SPLIT	Per Order
EFRWXGA	SpiralFlange - WELDED	Per Order

X = Diameter

1" Double Wall, X = 2826 (outer/inner)

2" Double Wall, X = 2824 (outer/inner)

# SpiralSleeve

## CONTACT

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1100 Ashwood Drive  
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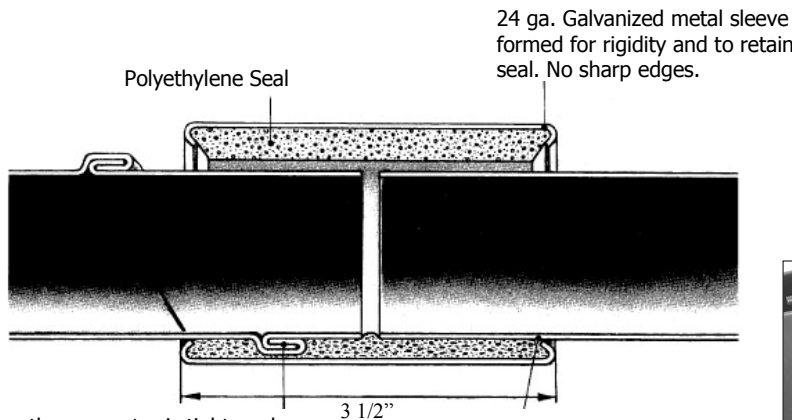
[www.clward.com](http://www.clward.com)

## 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



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

Polyethylene Seal

3 1/2"

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



Double Bolt Option

## Packaging

Item Code	Item Description	Packaging	Weight
QS3GA	3" SpiralSleeve, Galv.	Per Order	.83/sleeve
QS4GA	4" SpiralSleeve, Galv.	Per Order	.91/sleeve
QS5GA	5" SpiralSleeve, Galv.	Per Order	.985/sleeve
QS6GA	6" SpiralSleeve, Galv.	Per Order	1.05/sleeve
QS7GA	7" SpiralSleeve, Galv.	Per Order	1.16/sleeve
QS8GA	8" SpiralSleeve, Galv.	Per Order	1.25/sleeve
QS9GA	9" SpiralSleeve, Galv.	Per Order	1.35/sleeve
QS10GA	10" SpiralSleeve, Galv.	Per Order	1.41/sleeve
QS11GA	11" SpiralSleeve, Galv.	Per Order	1.50/sleeve
QS12GA	12" SpiralSleeve, Galv.	Per Order	1.75/sleeve
QS13GA	13" SpiralSleeve, Galv.	Per Order	1.80/sleeve
QS14GA	14" SpiralSleeve, Galv.	Per Order	1.90/sleeve
QS15GA	15" SpiralSleeve, Galv.	Per Order	1.95/sleeve
QS16GA	16" SpiralSleeve, Galv.	Per Order	2.00/sleeve
QS18GA	18" SpiralSleeve, Galv.	Per Order	2.05/sleeve

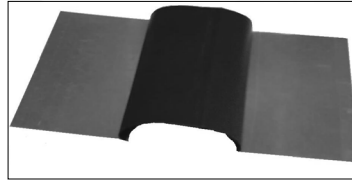
\*\*LABQS = Double Bolt Option

# 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

Grade	Composition Metal - Fabric - Metal	Gauge	Recommended Applications
Commercial (Option 1)	3" x 3" x 3" LCFC3XGA	24 ga. metal	Commercial and Industrial
Commercial (Option 2)	3" x 6" x 3" LCFC6XGA	24 ga. metal	Commercial and Industrial
Economy	2 3/4" x 4" x 2 3/4" LEFC4XGA	28 ga. metal	Light Commercial
Residential	1 3/4" x 3" x 1 3/4" LRFC3XGA	28 ga. metal	Residential and Light Commercial
TDC/TDF Commercial	4" x 4" x 4" LCFC4XGA	24 ga. metal	Commercial and Industrial

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

	Vinyl-LA	Vinyl	Neoprene
Base Fabric	Polyester/Polyester	Polyester/Polyester	Glass Cloth
Color	Black	Black	Black
Weight	20 oz./sq. yd.	20 oz./sq. yd.	30 oz./sq. yd.
Tongue Tear	35/35 lbs.	65/70 lbs.	40/30 lbs.
Tensile Strength	280 lbs./220lbs.	425/280 lbs.	395/255 lbs.
Low Temperature	-40°F	-40°F	-40°F
High Temperature	200°F	200°F	200°F

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

## Packaging

- 100 ft. per box

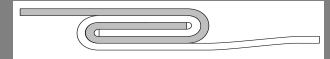


## CONTACT

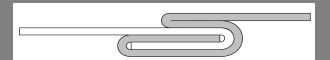
Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

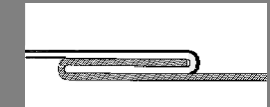
www.clward.com



Power Lock



Protect Lock



Single Lock

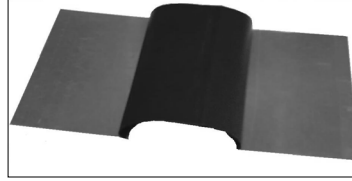


# Flexible Duct Connector - LA Approved

## 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

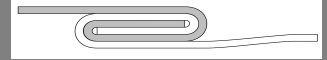


## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)



Power Lock

## Profile

Grade	Composition Metal - Fabric - Metal	Gauge Gauge	Recommended Applications Recommended Applications
Commercial (Option 1)	3" x 3" x 3" LCFC3XGA	24 ga.	Commercial and Industrial
Residential	1 3/4" x 3" x 1 3/4" LRFC3XGA	28 ga.	Residential and Light Commercial
TDC/TDF Commercial	4" x 4" x 4" LCFC4XGA	24 ga.	Commercial and Industrial

X = V for Vinyl, N for Neoprene, H for Hypalon \*\*Vinyl not available in 4" fabric width\*\*  
Item Code for Vinyl ends with "LA" - LCFC3VGALA

	Vinyl	Neoprene	Hypalon
Base Fabric	Polyester/Polyester	Glass Cloth	Glass Cloth
Color	Black	Black	White
Weight	20 oz./sq. yd.	30 oz./sq. yd.	30 oz./sq.yd.
Tongue Tear	91/60 lbs.	25/20 lbs.	25/20 lbs.
Tensile Strength	295/239 lbs.	475/375 lbs.	475/375 lbs.
Low Temperature	-40°F	-40°F	-4°F
High Temperature	200°F Continuous 250°F Intermittent	200°F	200°F

## Packaging

- 100 ft. per box

# Access Doors (LAD and LRAD)

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

## 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

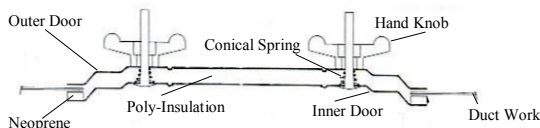


## Profile

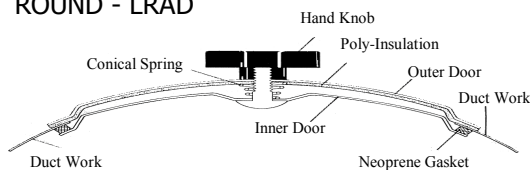
- Available sizes:
 

8x4	<b>Flat 5" through 14" Round</b>
10x6	<b>Flat &amp; 6" through 30" Round</b>
12x8	<b>Flat** &amp; 10" through 20" Round</b>
16x12	<b>Flat &amp; 15" through 60" Round</b>
18x14	<b>Flat Only **</b>
24x18	<b>Flat &amp; 29" through 144" Round</b>
- \*\*Door is rectangular in shape**

### FLAT - LAD



### ROUND - LRAD



## Packaging

- Sold as single units.

Item Code	Item Description	Packaging
LADxxxxGA	Flat Access Door	Per Order
LRADxxxxGA	Round Access Door	Per Order

XXXX = 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)

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

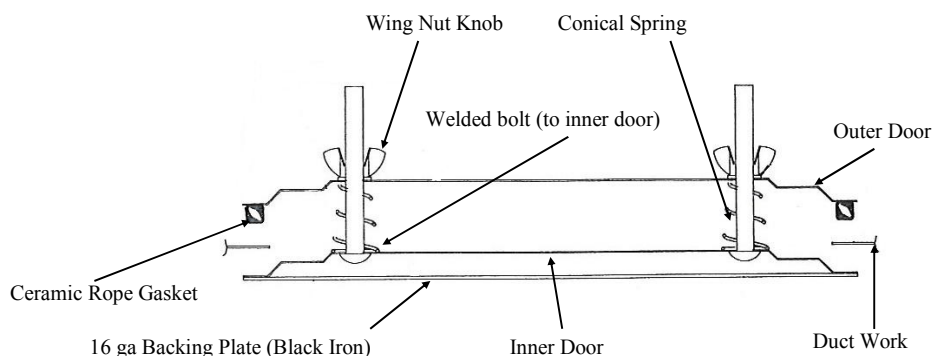
## Detail

- 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\*\*
    - 10x06x 6" through 30"
    - 12x8x 10" through 20"
    - 16x12x 18" through 60"
- \*\*Door is rectangular in shape**



## Packaging

Item Code	Item Description	Packaging
LHTADxxxxBI*	High Temp Access Door	Per Order

XXXX = 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

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

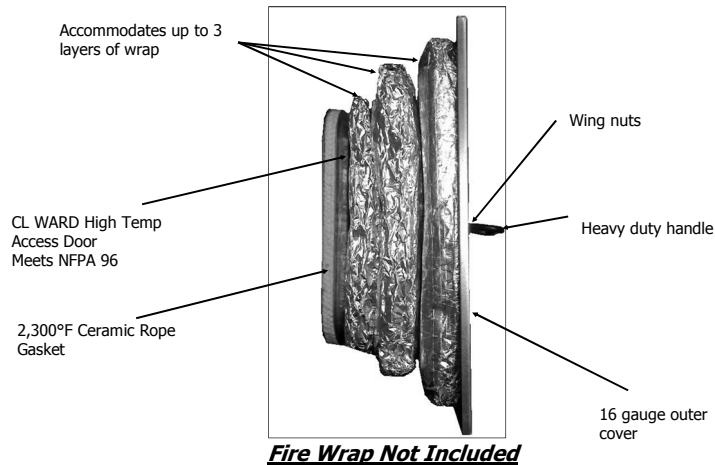
[www.clward.com](http://www.clward.com)

## 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



## Packaging

Item Code	Product Description	Packaging	Weight
LHTGDD106GA16	10x6 Grease Duct Access Door w/Outer Plate	Per Order	8 lbs/door
LHTGDD128GA16	12x8 Grease Duct Access Door w/Outer Plate	Per Order	10 lbs/door
LHTGDD1612GA16	16x12 Grease Duct Access Door w/Outer Plate	Per Order	12 lbs/door

S4 = SS 304

# LADUL - LRADUL ACCESS DOORS

## Detail

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



LADUL - Flat UL Door



LRADUL - Round UL Door

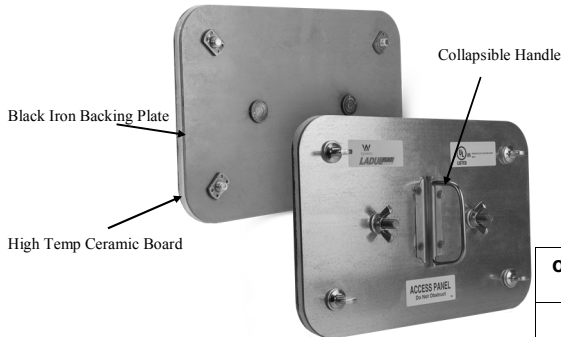
## CONTACT

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1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

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## Profile



Opening Size (Order Size)	Door Size	Minimum Duct Height	Outer Plate Size (Kit)
10" x 6"	12" x 8"	12"	16" x 12"
12" x 8"	14" x 10"	14"	18" x 14"
16" x 12"	18" x 14"	18"	22" x 18"

## Packaging

Item Code	Item Description	Packaging	Weight
LADUL106GABI	UL Rated Flat Access Door 10x6	5 Doors/Box	39 lbs/box
LADUL128GABI	UL Rated Flat Access Door 12x8	5 Doors/Box	55.9 lbs/box
LADUL1612GABI	UL Rated Flat Access Door 16x12	2 Doors/Box	25 lbs/box
LRADUL106xGABI	UL Rated Round Access Door 10x6	5 Doors/Box	39 lbs/box
LRADUL128xGABI	UL Rated Round Access Door 12x8	5 Doors/Box	55.9 lbs/box
LRAD1612xGABI	UL Rated Round Access Door 16x12	2 Doors/Box	25 lbs/box

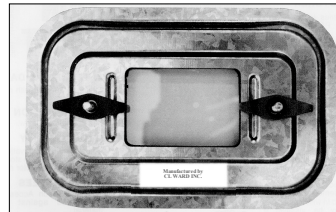
X = Diameter for round doors

# 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



## CONTACT

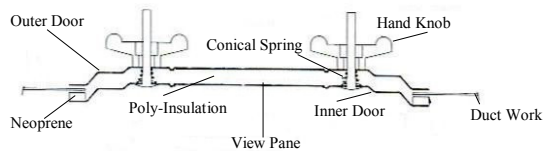
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## Profile

Available sizes: 10x6



## Packaging

Item Code	Item Description	Packaging
LDO106GA	10x6 Observation Door	Per Order

# Framed Access Doors

## CONTACT

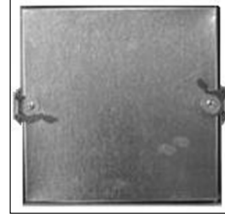
Office: 888.973.7600

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Suite 1102  
Canonsburg, PA 15317

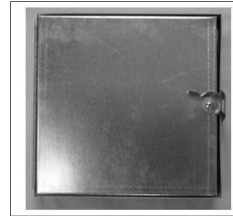
[www.clward.com](http://www.clward.com)

## 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.**



CAMMED

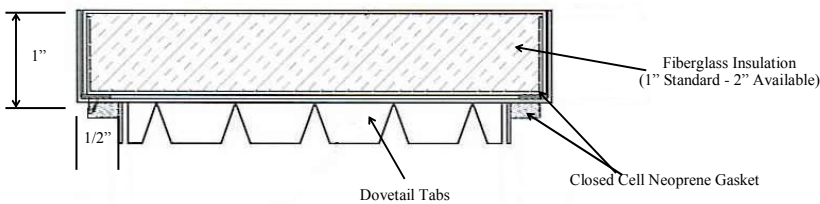


HINGED

## 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

CAM Doors - 6" x 6" through 14" x 14" have two CAM locks  
16" x 16" through 24" x 24" have four CAM locks



## Packaging

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



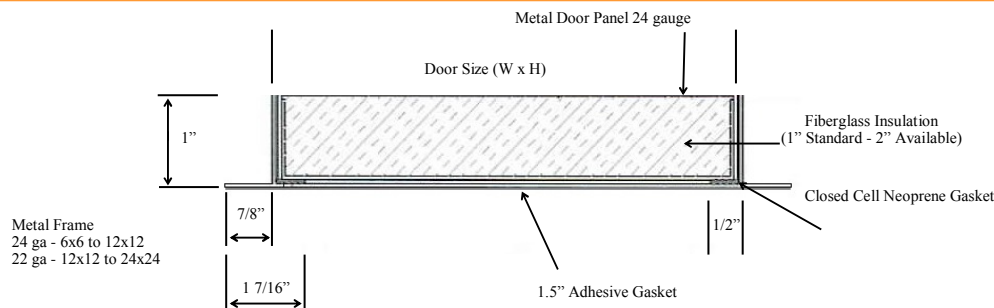
## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

## Profile



## Packaging

CAM	HINGED	PRODUCT DESCRIPTION	PACKAGING	Weight
FDPC6GA	FDPH6GA	6X6 FRAMED DOOR	20/CARTON	31 lbs/carton
FDPC8GA	FDPH8GA	8X8 FRAMED DOOR	20/CARTON	45 lbs/carton
FDPC10GA	FDPH10GA	10X10 FRAMED DOOR	10/CARTON	30 lbs/carton
FDPC12GA	FDPH12GA	12X12 FRAMED DOOR	10/CARTON	39 lbs/carton
FDPC14GA	FDPH14GA	14X14 FRAMED DOOR	10/CARTON	50 lbs/carton
FDPC16GA	FDPH16GA	16X16 FRAMED DOOR	5/CARTON	30 lbs/carton
FDPC18GA	FDPH18GA	18X18 FRAMED DOOR	5/CARTON	38 lbs/carton
FDPC22GA	FDPH22GA	20X20 FRAMED DOOR	5/CARTON	45 lbs/carton
FDPC24GA	FDPH24GA	24X24 FRAMED DOOR	5/CARTON <sup>22</sup>	60 lbs/carton



# Framed Doors - High Pressure

## CONTACT

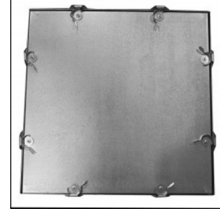
Office: 888.973.7600

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Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

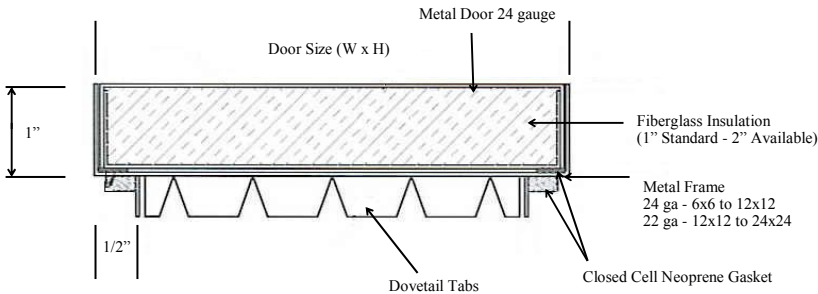
## Detail

- 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, galvanized, 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

Item Code	Door Size	# of Cams	Packaging	Weight
FDHPC6GA	6" x 6"	4	20	31 lbs
FDHPC8GA	8" x 8"	8	20	45 lbs
FDHPC10GA	10" x 10"	8	10	30 lbs
FDHPC12GA	12" x 12"	8	10	39 lbs
FDHPC14GA	14" x 14"	8	10	50 lbs
FDHPC16GA	16" x 16"	8	5	30 lbs
FDHPC18GA	18" x 18"	8	5	38 lbs
FDHPC20GA	20" x 20"	8	5	45 lbs
FDHPC24GA	24" x 24"	8	5	60 lbs

# Butyl Gasket - WBG

## CONTACT

Office: 888.973.7600

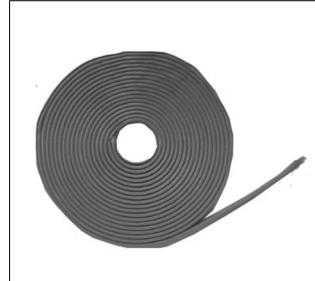
1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

## Detail

Premium grade sealing tape for CL WARD four bolt connectors.

- Solids: 99.8%
- Color: Off-White (ASTM D1729-69)
- Specific Gravity: 1.60 ±.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

Item Code	Item Description	Packaging	Weight
WBG	Butyl Gasket - 30' rolls	750 ft/case	57 lbs per case



# TEE Gasket

## CONTACT

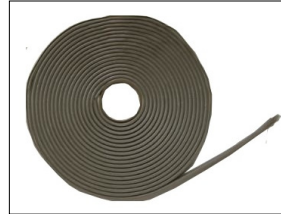
Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

## 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

Item Code	Item Description	Packaging	Weight
TEE GASKET	TEE GASKET Butyl Gasket	500 ft/case (25 ft rolls)	40 lbs/box

# Neoprene Gasket (WNEO)

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

## 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 Absorbtion, 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

Item	Description	Packaging	Weight
WNEO	Neoprene Gasket - 5/16" x 3/4"	750 ft/box	15 lbs/box

# 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 be 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

Item	Description	Packaging	Weight
WNEOHD	Neoprene Gasket - 5/16" x 3/4" - High Density	750 ft/box	15 lbs/box

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

# Turning Vane & Rail

## CONTACT

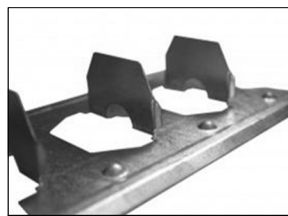
Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

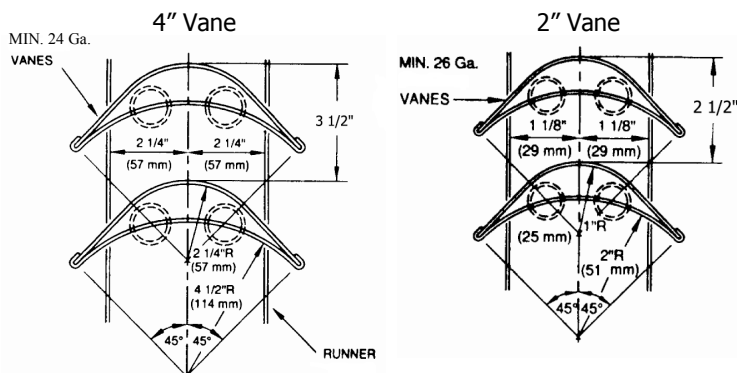
[www.clward.com](http://www.clward.com)

## 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



## Packaging

Item	Description	Gauge	Ft./Bundle	Wt./Bundle
2VGA26	2" Vane	26	100	43 lbs
L2RGA22	2" Regular Rail	22	100	39 lbs
4VGA24	4" Vane	24	50	65 lbs
L4RGA22	4" Regular Rail	22	100	73 lbs
4AVGA24	4" Acoustical Vane	24	50	66 lbs

# Speedy Rail

## CONTACT

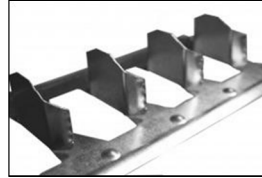
Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

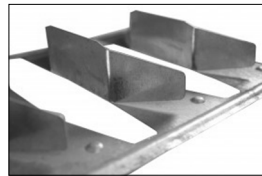
[www.clward.com](http://www.clward.com)

## 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

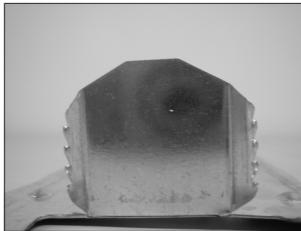


2" SpeedyRail



4" SpeedyRail

## 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

Item	Description	Gauge	Ft./Bundle	Wt./Bundle
LP2RGA22	2" SpeedyRail	22	100	39 lbs
LP4RGA22	4" SpeedyRail	22	100	73 lbs

# Acoustical Vane

## CONTACT

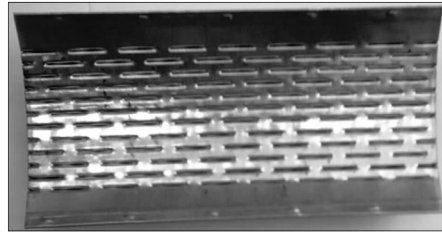
Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

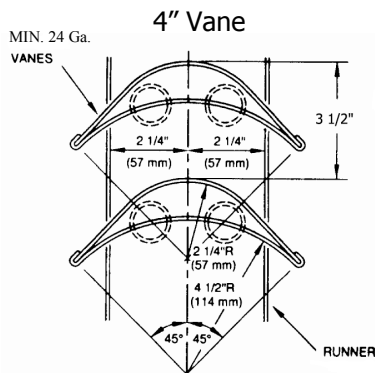
[www.clward.com](http://www.clward.com)

## Detail

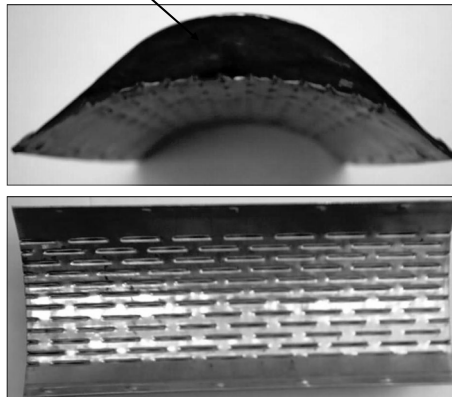
- Aids in directing air when quiet operation is required
- Available in 4" only
- Available in galvanized, stainless, and aluminum
- Vane conforms to SMACNA Standards
- Filled with 1.3 lb. insulation
- Insulation meets ASTM E-84 and UL 723
- Insulation has high thermal efficiency and acoustical performance



## Profile



Fiberglass Insulation



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

## Packaging

Item Code	Item Description	Packaging	Weight
4AVGA24	4" Acoustical Vane	100 ft/bundle	66 lbs/bundle

# Single Wall Vane

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

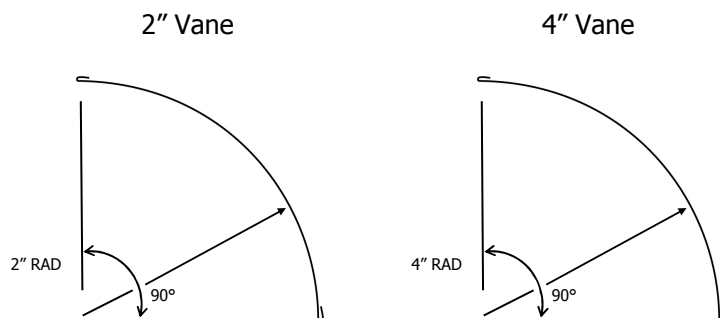
## Detail

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



Hem on each edge of the vane to add rigidity.

## Packaging

Item Code	Item Description	Packaging	Weight
2VGA24SW	2" Vane - Single Wall	100 ft/bundle	22 lbs/bundle
4VGA22SW	4" Vane - Single Wall	100 ft/bundle	65 lbs/bundle

# UniRail

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

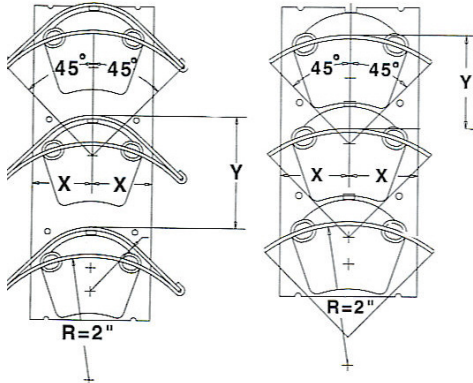
## Detail

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

Item Code	Item Description	Packaging	Weight
LSW2GA24	2" UniRail	200 ft/box	40 lbs/box
LSW4GA24	4" UniRail	100 ft/box	40 lbs/box



# Trapeze Hanger

## CONTACT

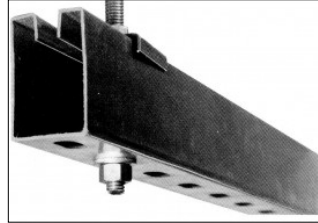
Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

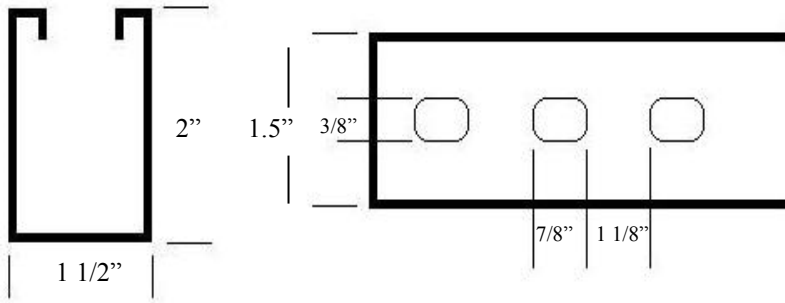
[www.clward.com](http://www.clward.com)

## 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

Item Code	Item Description	Packaging	Weight
TRAP0310GA	Trapeze 10'	150 ft/bundle	150 lbs/bundle
TRAP05GA	Trapeze 20'	500 ft/bundle	625 lbs/bundle
LTWGA	Trapeze Washer	150 pcs/box	20 lbs/box

# Spiral Hanger

## CONTACT

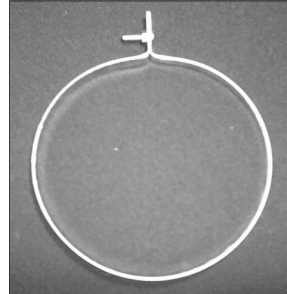
Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

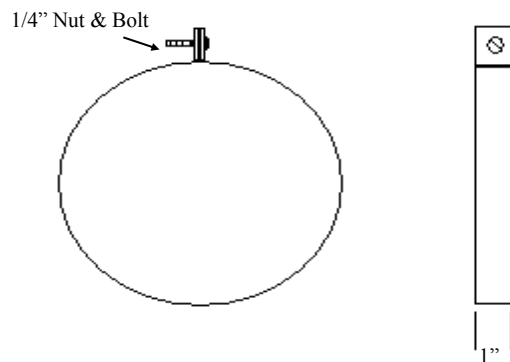
[www.clward.com](http://www.clward.com)

## Detail

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



## Profile



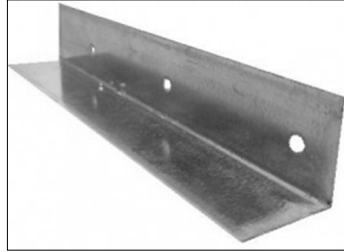
## Packaging

Item Code	Product Description	Packaging
RDH04GA20	Spiral Hanger, 4"	100 pcs/box
RDH06GA20	Spiral Hanger, 6"	100 pcs/box
RDH08GA20	Spiral Hanger, 8"	100 pcs/box
RDH10GA20	Spiral Hanger, 10"	100 pcs/box
RDH12GA20	Spiral Hanger, 12"	100 pcs/box
RDH14GA20	Spiral Hanger, 14"	50 pcs/box
RDH16GA20	Spiral Hanger, 16"	50 pcs/box
RDH18GA20	Spiral Hanger, 18"	50 pcs/box
RDH20GA20	Spiral Hanger, 20"	50 pcs/box

# 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

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

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

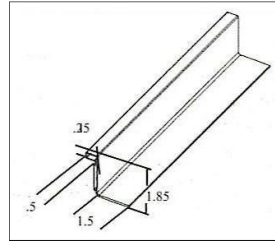
[www.clward.com](http://www.clward.com)

# Z-Bar

## Detail

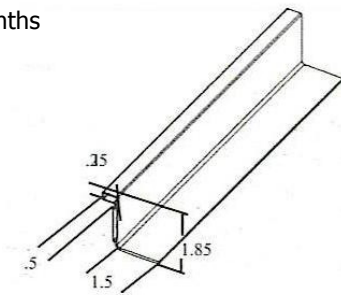
### Intermediate Duct Reinforcement

- 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

Item	Description	Packaging	Weight
DLST15GA	Z-Bar Reinforcement	1,500 ft/bundle	1,005 lbs/bundle

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

# 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



## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

## Packaging

Item Code	Item Description	Packaging	Weight
L1BSTGA16	1" Boxed Strapping 16 ga.	100'/box	22 lbs/box
L1BSTGA18	1" Boxed Strapping 18 ga.	100'/box	17 lbs/box
L1BSTGA20	1" Boxed Strapping 20 ga.	100'/box	12 lbs/box
L1BSTGA22	1" Boxed Strapping 22 ga.	200'/box	21 lbs/box
L1BSTGA24	1" Boxed Strapping 24 ga.	200'/box	17 lbs/box
L1BSTGA26	1" Boxed Strapping 26 ga.	200'/box	15 lbs/box
1STGA16	1" Bundled Strapping 16ga.	100'/bundle	22 lbs/bundle
1STGA18	1" Bundled Strapping 18ga.	100'/bundle	17 lbs/bundle
1STGA20	1" Bundled Strapping 20ga.	100'/bundle	12 lbs/bundle
1STGA22	1" Bundled Strapping 22ga.	100'/bundle	11 lbs/bundle
1STGA24	1" Bundled Strapping 24ga.	100'/bundle	9 lbs/bundle
1STGA26	1" Bundled Strapping 26ga.	100'/bundle	8 lbs/bundle
1CST50GA22	1" Strapping - Coils	50 lbs/coil	50 lbs/coil

# 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.

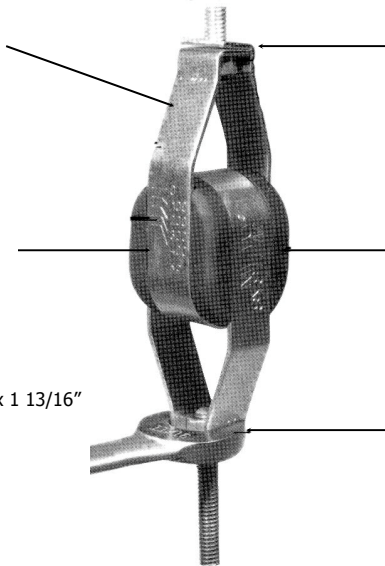


## Profile

The sturdy tension brackets have a much stronger load bearing capacity than the corresponding threaded rods.

Integrated load scale

**Overall length** 5 7/8"  
**Overall width** 1 13/16" x 1 13/16"



The open space corresponds to the width of the nut preventing the nut from turning.

The rubber padding prevents vibrations from being transmitted.

Outside dimension corresponds to an ordinary wrench size.

## Packaging

Item Code	Item Description	Packaging	Weight
L2723SI	Vibration Hanger	Single Unit	.74 lbs/unit

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

# Strap Buckle

## CONTACT

Office: 888.973.7600

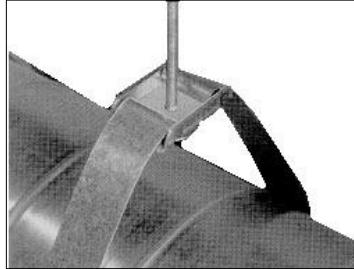
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Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

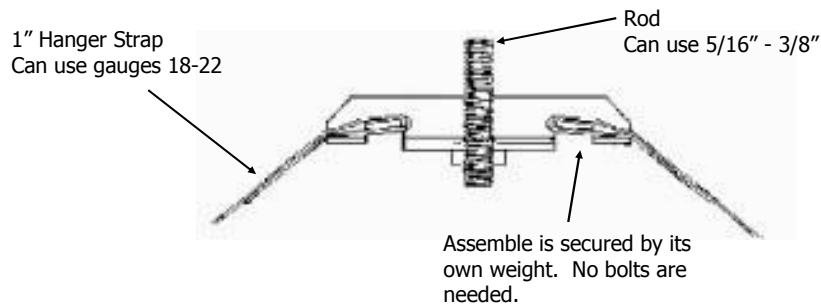
## Detail

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



## Packaging

Item Code	Item Description	Packaging	Weight
LSBGA	Strap Buckle	200 pcs/box	27.50 lbs/box

# Hang-Fast

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

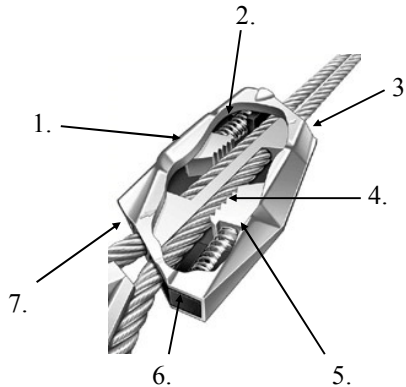
## Detail

- 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

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



# S-Seal

LEED Compliant, Meets All Applicable SCAQMD Standards

## 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: ASTM D3619-05(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



Caulking and Sealants  
Control No.  
SURFACE BUILDING CHARACTERISTICS  
**S Seal**  
USC - Classification  
Applied to Inorganic Reinforced Cement Board  
**FHC 25/50**  
+ - Tested as applied in two 2 in. wide strips spaced 8 in. on center (covering 22.2% of the exposed test sample area) at a coverage rate of 25 ft<sup>2</sup>/gallon  
  
CNC - Classification  
Applied to Inorganic Reinforced Cement Board  
**FHC 25/50**  
+ - Tested as applied in two 50mm wide strips spaced 200mm on center (covering 22% of the exposed test sample area) at a coverage rate of .61 to .73 m/L<sup>2</sup>  
  
The FHC 25/50 "Fire Hazard Classification" indicates that the labeled material has a flame spread of 25 or less and a smoke developed of 50 or less as tested per UL723 or equivalent.

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

\* Total VOC's after 14 days is between .5 and 5.0 mg/m<sup>3</sup> measured as specified in the CDPH Standard Method v1.1

## Packaging

Item	Description	Packaging	Weight
SSEALT	S-Seal 11oz Tube	25 tubes/case	25 lbs/case
SSEAL1	S-Seal 1 gal	4 gallon/case	50 lbs/case
SSEAL5	S-Seal 5 gal	Each	64 lbs/pail
SSEAL54	S-Seal 54 gal	Each	700 lbs/drum



# S-Seal Spray

Qualifies for LEED Credit EQ 4.1

## 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



## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

## Packaging

Item	Description	Packaging	Weight
SSEALSPRAY5	S-Seal Spray 5 gal	each	64 lbs/pail

# 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



Caulking and Sealants  
Control No.  
SURFACE BUILDING CHARACTERISTICS  
**S Seal**  
USC - Classification  
Applied to Inorganic Reinforced Cement Board  
**FHC 25/50**  
+ - Tested as applied in two 2 in. wide strips spaced 8 in. on center (covering 22.2% of the exposed test sample area) at a coverage rate of 25 ft<sup>2</sup>/gallon  
  
CNC - Classification  
Applied to Inorganic Reinforced Cement Board  
**FHC 25/50**  
+ - Tested as applied in two 50mm wide strips spaced 200mm on center (covering 22% of the exposed test sample area) at a coverage rate of .61 to .73 m<sup>2</sup>/L<sup>2</sup>  
  
The FHC 25/50 "Fire Hazard Classification" indicates that the labeled material has a flame spread of 25 or less and a smoke developed of 50 or less as tested per UL723 or equivalent.

\* Total VOC's after 14 days is between .5 and 5.0 mg/m<sup>3</sup> measured as specified in the CDPH Standard Method v1.1

## Packaging

Item	Description	Packaging	Weight
SSEALFRT	S-Seal Fiber Reinforced 11oz Tube	25 tubes/case	25 lbs/case
SSEALFR1	S-Seal Fiber Reinforced 1 gal	4 gallon/case	50 lbs/case
SSEALFR5	S-Seal Fiber Reinforced 5 gal	Each	64 lbs/pail
SSEALFR54	S-Seal Fiber Reinforced 54 gal	Each	700 lbs/drum



## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)



# EcoSeal

LEED Compliant, Meets All Applicable SCAQMD Standards

## Detail

### 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: ASTM D3690-05(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/m<sup>3</sup> measured as specified in the CDPH Standard Method v1.1



Caulking and Sealants  
Control No.  
SURFACE BUILDING CHARACTERISTICS  
**EcoSeal**

USC - Classification  
Applied to Inorganic Reinforced Cement Board  
**FHC 25/50**  
+ - Tested as applied in two 2 in. wide strips spaced 8 in. on center (covering 22.2% of the exposed test sample area) at a coverage rate of 25 ft<sup>2</sup>/gallon

CNC - Classification  
Applied to Inorganic Reinforced Cement Board  
**FHC 25/50**  
+ - Tested as applied in two 50mm wide strips spaced 200mm on center (covering 22% of the exposed test sample area) at a coverage rate of .61 to .73 m<sup>2</sup>/L<sup>2</sup>

The FHC 25/50 "Fire Hazard Classification" indicates that the labeled material has a flame spread of 25 or less and a smoke developed of 50 or less as tested per UL723 or equivalent.

## CONTACT

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## Packaging

Item	Description	Packaging	Weight
ECOSEALT	EcoSeal 11oz Tube	25 tubes/case	25 lbs/case
ECOSEAL1	EcoSeal 1 gal	4 gallon/case	50 lbs/case
ECOSEAL5	EcoSeal 5 gal	Each	64 lbs/pail
ECOSEAL54	EcoSeal 54 gal	Each	700 lbs/drum



# 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: ASTM D3690-05(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/m<sup>3</sup> measured as specified in the CDPH Standard Method v1.1



Caulking and Sealants  
Control No.  
SURFACE BUILDING CHARACTERISTICS

**EcoSeal**

USC - Classification

Applied to Inorganic Reinforced Cement Board

**FHC 25/50**

+ - Tested as applied in two 2 in. wide strips spaced 8 in. on center (covering 22.2% of the exposed test sample area) at a coverage rate of 25 ft<sup>2</sup>/gallon

CNC - Classification

Applied to Inorganic Reinforced Cement Board

**FHC 25/50**

+ - Tested as applied in two 50mm wide strips spaced 200mm on center (covering 22% of the exposed test sample area) at a coverage rate of .61 to .73 m<sup>2</sup>/L<sup>2</sup>

The FHC 25/50 "Fire Hazard Classification" indicates that the labeled material has a flame spread of 25 or less and a smoke developed of 50 or less as tested per UL723 or equivalent.

## CONTACT

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## Packaging

Item	Description	Packaging	Weight
FRECOSEALT	EcoSeal 11oz Tube - w/Fiber	25 tubes/case	25 lbs/case
FRECOSEAL1	EcoSeal 1 gal - w/Fiber	4 gallon/case	50 lbs/case
FRECOSEAL5	EcoSeal 5 gal - w/Fiber	Each	64 lbs/pail
FRECOSEAL54	EcoSeal 54 gal - w/Fiber	Each	700 lbs/drum



# S-Seal Solvent - LOW VOC

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
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## 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

Item	Description	Packaging	Weight
WSS11LVOC	S-Seal Solvent 11oz Tube	24 tubes/case	25 lbs/case
WSS1LVOC	S-Seal Solvent 1 gal	4 gallon/case	36 lbs/case



# Duct Liner Adhesive

Qualifies for LEED Credit EQ 4.1

## 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



## CONTACT

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## Packaging

Item	Description	Packaging	Weight
DLADHESIVE5B	Duct Liner Adhesive - Black 5 gal pail	Each	46 lbs/pail
DLADHESIVE54B	Duct Liner Adhesive - Black 54 gal drum	Each	555 lbs/drum
DLADHESIVE5W	Duct Liner Adhesive - White 5 gal pail	Each	46 lbs/pail
DLADHESIVE54W	Duct Liner Adhesive - White 54 gal drum	Each	555 lbs/drum

# Duct Liner Adhesive - HV

Qualifies for LEED Credit EQ 4.1

## Detail

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



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## Packaging

Item	Description	Packaging	Weight
DLADHESIVEHV5B	High Viscosity D L Adhesive - Black 5 gal pail	Each	46 lbs/pail
DLADHESIVEHV54B	High Viscosity D L Adhesive - Black 54 gal drum	Each	555 lbs/drum
DLADHESIVEHV5W	High Viscosity D L Adhesive - White 5 gal pail	Each	46 lbs/pail
DLADHESIVEHV54W	High Viscosity D L Adhesive - White 54 gal drum	Each	555 lbs/drum



# SuperSpray

Qualifies for LEED Credit EQ 4.1

## 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° to 160°F
- Application Temperature: 60° 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 applicatoion rate)
- Shelf life: 1 year
- High solids content (25%)
- Easy application
- Exptremely quick tack
- Strong permanent bond
- Meets DOT 39 NRC
- Non-Flammable in wet and dry state
- Ultraviolet Ray and Ozone resistant
- LEED v4 Compliant



## CONTACT

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## Packaging

Item	Description	Packaging	Weight
SUPERSPRAY12	SuperSpray 12# Canister	Each	12 lbs
SUPERSPRAY40	SuperSpray 40# Canister	Each	40 lbs
SSH6	SuperSpray Hose 6 ft	Each	2 lbs
SSH8	SuperSpray Hose 8 ft	Each	5 lbs
SSH12	SuperSpray Hose 12 ft	Each	4 lbs
SSH18	SuperSpray Hose 18 ft	Each	6 lbs
SSG	SuperSpray Gun	Each	4 lbs

# SuperSpray-Can

## CONTACT

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## 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

Item	Description	Packaging	Weight
SUPERSPRAYCAN	SuperSpray 11.75 oz. Can	12 cans/case	13 lbs/case

# Super Liner Sealer

Qualifies for LEED Credit EQ 4.1

## 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: Approximatley 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



## CONTACT

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## Packaging

Item	Description	Packaging	Weight
SLS5	Super Liner Sealer 5 gallon pail	5 gallon pail	46 lbs/pail
SLS54	Super Liner Sealer 54 gallon drum	54 gallon drum	555 lbs/drum

# Lag Adhesive

Qualifies for LEED Credit EQ 4.1

## 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
- Can 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



## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
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## Packaging

Item	Description	Packaging	Weight
LAGADHESIVE1B	Lagging Adhesive 1 gal Black	4 gallons/case	48 lbs/case
LAGADHESIVE1W	Lagging Adhesive 5 gal pail White	Each	64 lbs/pail
LAGADHESIVE5B	Lagging Adhesive 1 gal Black	4 gallons/case	48 lbs/case
LAGADHESIVE5W	Lagging Adhesive 5 gal pail White	Each	64 lbs/pail

# 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° 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-1a-68
- Flame Spread: 5
- Fuel Contribution: 0
- Smoke Density: 0
- Non-skinning
- Nonoxidizing
- Non-drying

## Packaging

Item	Description	Packaging	Weight
WBT	CL WARD Butyl Sealant - 10.1 oz Tubes	12 tubes/case	7 lbs/case
WB5	CL WARD Butyl Sealant - 5 gal pail	Each	65 lbs/pail
WB55	CL WARD Butyl Sealant - 55 gal drum	Each	625 lbs/drum

## CONTACT

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# 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



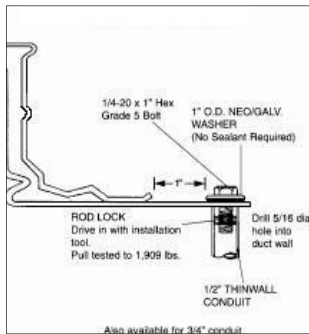
## CONTACT

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## Profile



## Packaging

Item Code	Item Description	Packaging	Weight
LRL50	1/2" Rod Locks	250 sets/box	9 lbs/box
LRL75	3/4" Rod Locks	250 sets/box	9 lbs/box
LRL1	1" Rod Locks	250 sets/box	9 lbs/box

# DBLR - Round Damper Blades

## CONTACT

Office: 888.973.7600

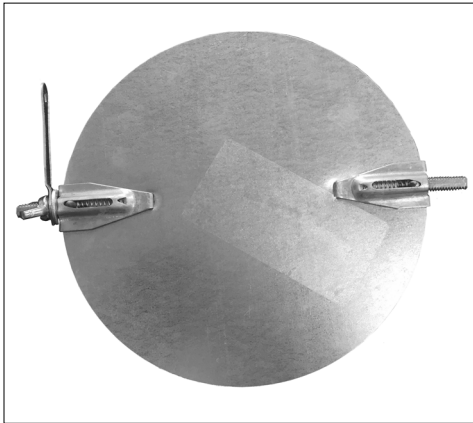
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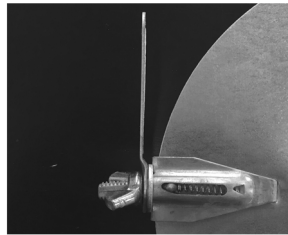
## Detail

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

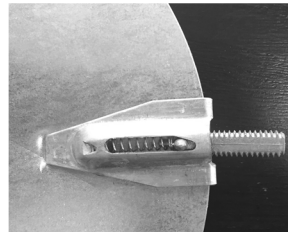
## Profile



DBRL - 6" through 16"



Handle/Spring End Bearing



Spring End Bearing

## Packaging

Item Code	Item Description	Packaging
DBLR4GASDH	4" Damper Blade w/Spring Bearings	10 pcs/box
DBLR5GASDH	5" Damper Blade w/Spring Bearings	10 pcs/box
DBLR6GASDH	6" Damper Blade w/Spring Bearings	10 pcs/box
DBLR7GASDH	7" Damper Blade w/Spring Bearings	10 pcs/box
DBLR8GASDH	8" Damper Blade w/Spring Bearings	10 pcs/box
DBLR9GASDH	9" Damper Blade w/Spring Bearings	10 pcs/box
DBLR10GASDH	10" Damper Blade w/Spring Bearings	10 pcs/box
DBLR12GASDH	12" Damper Blade w/Spring Bearings	10 pcs/box
DBLR14GASDH	14" Damper Blade w/Spring Bearings	10 pcs/box
DBLR16GASDH	16" Damper Blade w/Spring Bearings	10 pcs/box

# DBHD - Heavy Duty Damper Blades

## CONTACT

Office: 888.973.7600

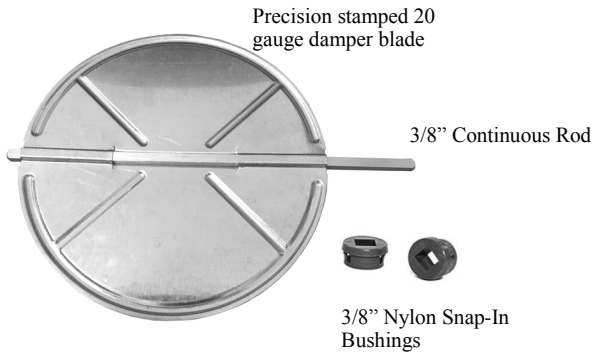
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## Detail

- 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



## Packaging

Item Code	Item Description	Packaging
DBHDR6GA38	6" HD Damper Blade w/Rod	50 pcs/box
DBHDR8GA38	8" HD Damper Blade w/Rod	50 pcs/box
DBHDR10GA38	10" HD Damper Blade w/Rod	50 pcs/box
DBHDR12GA38	12" HD Damper Blade w/Rod	25 pcs/box
DBHDR14GA38	14" HD Damper Blade w/Rod	25 pcs/box
BSNAP38	3/8" Snap-In Bushing	500 pc/box



# Moisture Drain

## CONTACT

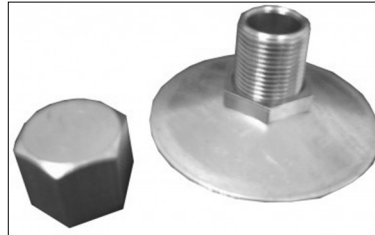
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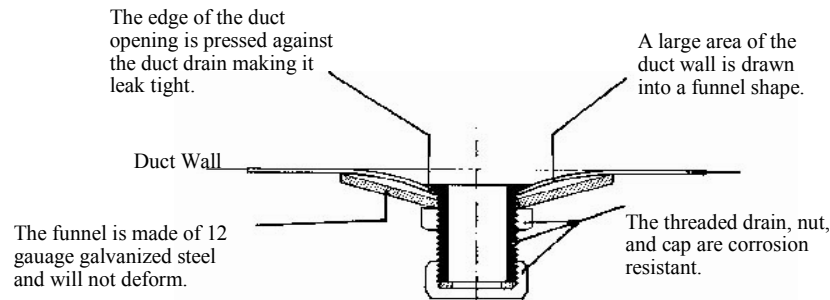
## Detail

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



## Profile

Moisture Drain	3/4"
Diameter of Pipe	3/4"
Diameter of Hole in Ductwall	1 1/16"
Diameter of Funnel	3 1/2"
Total Height Without Cap	1 1/2"



## Packaging

Item Code	Item Description	Packaging	Weight
MD75	3/4" Moisture Drain	10 pcs/box	5.5 lbs/box
MDC75	3/4" Cap	10 pcs/box	.85 lbs/box

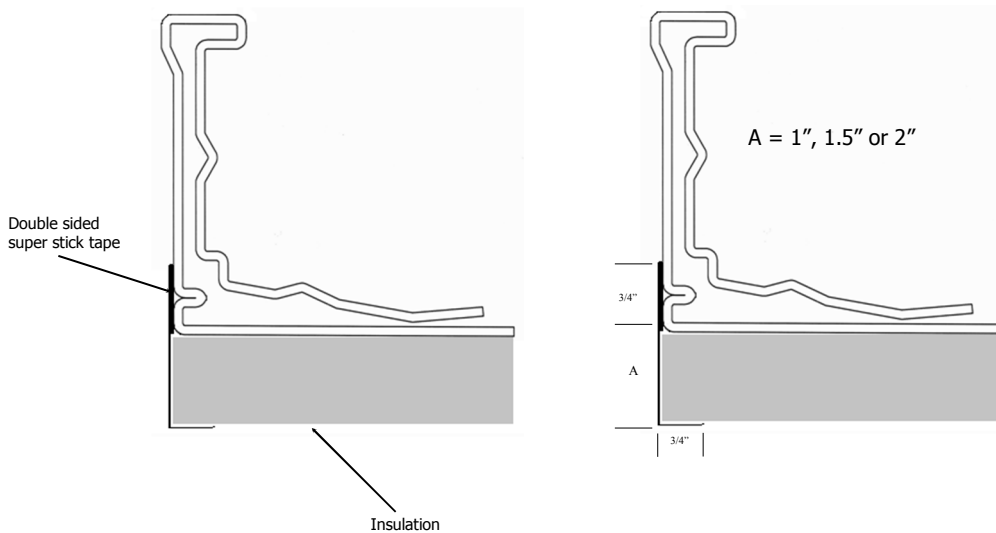
# Bull Nosing

## 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



## Packaging

Item Code	Item Description	Packaging	Weight
BN1GA	1" Bull Nosing	100 ft/bundle	30 lbs/bundle
BN1.5GA	1.5" Bull Nosing	100 ft/bundle	31 lbs/bundle
BN2GA	2" Bull Nosing	100 ft/bundle	32 lbs/bundle

## CONTACT

Office: 888.973.7600

1100 Ashwood Drive  
Suite 1102  
Canonsburg, PA 15317

[www.clward.com](http://www.clward.com)

# 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



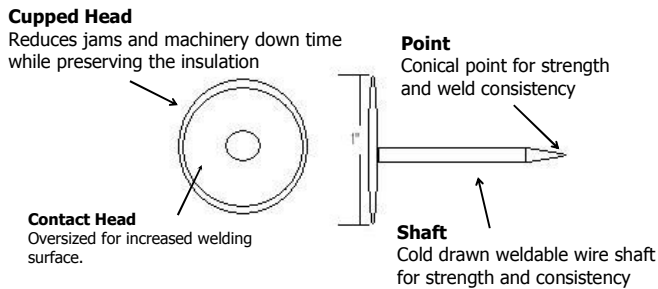
## CONTACT

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## Profile



## Packaging

Part Number	Description	Qty	Packaging	Recommended Insulation
GWP.5GA10C5	1/2" Weld Pin	5000	Box	1/2" Insulation - All Densities
GWP.5GA10P5	1/2" Weld Pin	5000	Pail	1/2" Insulation - All Densities
GWP.75GA10C5	3/4" Weld Pin	5000	Box	1" Insulation - 1 1/2 lb. Density
GWP.75GA10P5	3/4" Weld Pin	5000	Pail	1" Insulation - 1 1/2 lb. Density
GWP1GA10C5	1" Weld Pin	5000	Box	1" Insulation - 3 lb. Density
GWP1GA10P5	1" Weld Pin	5000	Pail	1" Insulation - 3 lb. Density
GWP1.125GA10C3	1 1/8" Weld Pin	3000	Box	1" Insulation - 4 to 6 lb. Density
GWP1.125GA10P3	1 1/8" Weld Pin	3000	Pail	1" Insulation - 4 to 6 lb. Density
GWP1.5GA10C3	1 1/2" Weld Pin	3000	Box	1 1/2" Insulation - 1 1/2lb. Density
GWP1.5GA10P3	1 1/2" Weld Pin	3000	Pail	1 1/2" Insulation - 1 1/2lb. Density
GWP2GA10C3	2" Weld Pin	3000	Box	2" Insulation - 1 1/2 and 2 lb. Density
GWP2GA10P3	2" Weld Pin	3000	Pail	2" Insulation - 1 1/2 and 2 lb. Density

# Tek Screws

## CONTACT

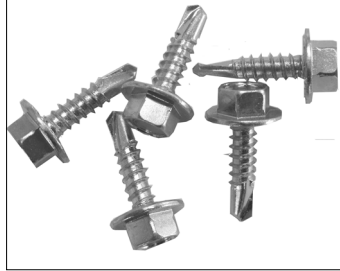
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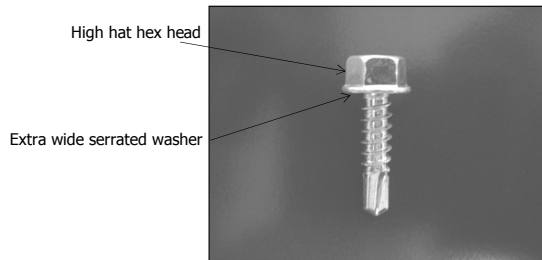
[www.clward.com](http://www.clward.com)

## 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



## Packaging

Item	Packaging	Weight
WSDS31034	5,000 pcs/box	31 lbs/box

# DuctGuard™

## CONTACT

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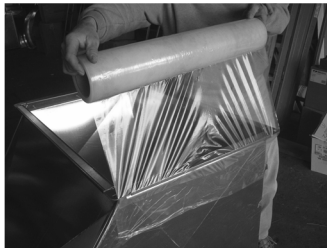
## Detail

- 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°
- 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

Item Code	Description	Packaging
DG24	24" DuctGuard - Clear	6box - 48/pallet
DG24B	24" DuctGuard - Blue	6/box - 48/pallet
DG36	36" DuctGuard - Clear	6/box - 36/pallet
DG36B	36" DuctGuard - Blue	6/box - 36/pallet
DG48	48" DuctGuard - Clear	6/box - 36/pallet
DG48B	48" DuctGuard - Blue	6/box - 36/pallet
DG24HP	24" DuctGuard - Clear High Puncture	6/box - 48/pallet
DG36HP	36" DuctGuard - Clear High Puncture	6/box - 36/pallet
DG24BHP	24" DuctGuard - Blue High Puncture	6/box - 48/pallet
DG36BHP	36" DuctGuard - Blue High Puncture	6/box - 36/pallet

# 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



## CONTACT

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## 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

Item	Description	Packaging	Weight
SPEEDYMISTER	Adhesive Spray Pump	1 unit/box	50 lbs

# 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**



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## Packaging

Item	Description	Packaging	Weight
SPEEDYSAW	CL WARD Speedy Saw	Each	

# Speedy Shot 3

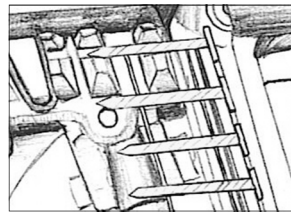
## Detail

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®



# SPEEDY SHOT 3

## Packaging

Item	Description	Packaging	Weight
SPEEDYSHOT3	CL WARD Speedy Shot 3	Each	13 lbs
SS3000	Speedy Shot Fasteners	3,000/case	21 lbs/box

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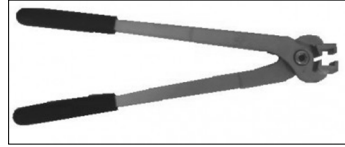


# TDC/TDF Corner Tool

## Detail

TDC/TDF Corner Installer

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



## CONTACT

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## Packaging

Item	Description	Packaging	Weight
TCT	TDC/TDF Corner Tool	Each	3 lbs

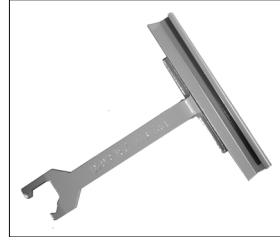
# ALL Cleat Tool

## 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

Item	Description	Packaging	Weight
TDCCLEATTOOL	ALL Cleat Tool	Each	1 lb

### Cleat Spacing

Static Pressure	Recommended Centers
1/2" to 2"	24" centerline
2" to 4"	18" centerline
4" to 10"	12" centerline
Over 10"	Continuous

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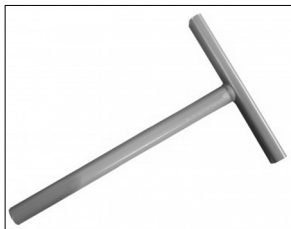
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# Cleat Tool

## Detail

Cleat tool for installing CL WARD Regular Cleat.

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



## CONTACT

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## Packaging

Item	Description	Packaging	Weight
CLEATTOOL	Cleat Tool - Regular Cleat	Each	1 lb

## Cleat Spacing

Static Pressure	Recommended Centers
1/2" to 2"	24" centerline
2" to 4"	18" centerline
4" to 10"	12" centerline
Over 10"	Continuous

# Pipe & Fittings - Fire Dampers

## 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!!



## CONTACT

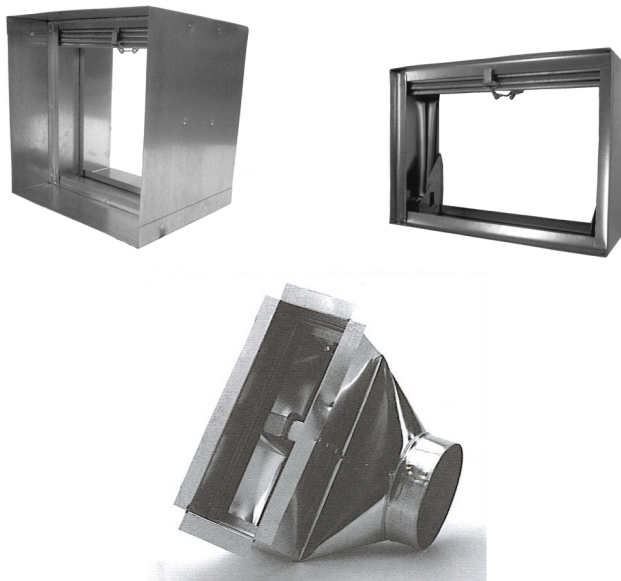
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CL WARD can also provide you with **Fire Dampers** and **Ceiling Radiation Dampers**.

Please contact us if you would like our Damper Catalog!!



# NOTES

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