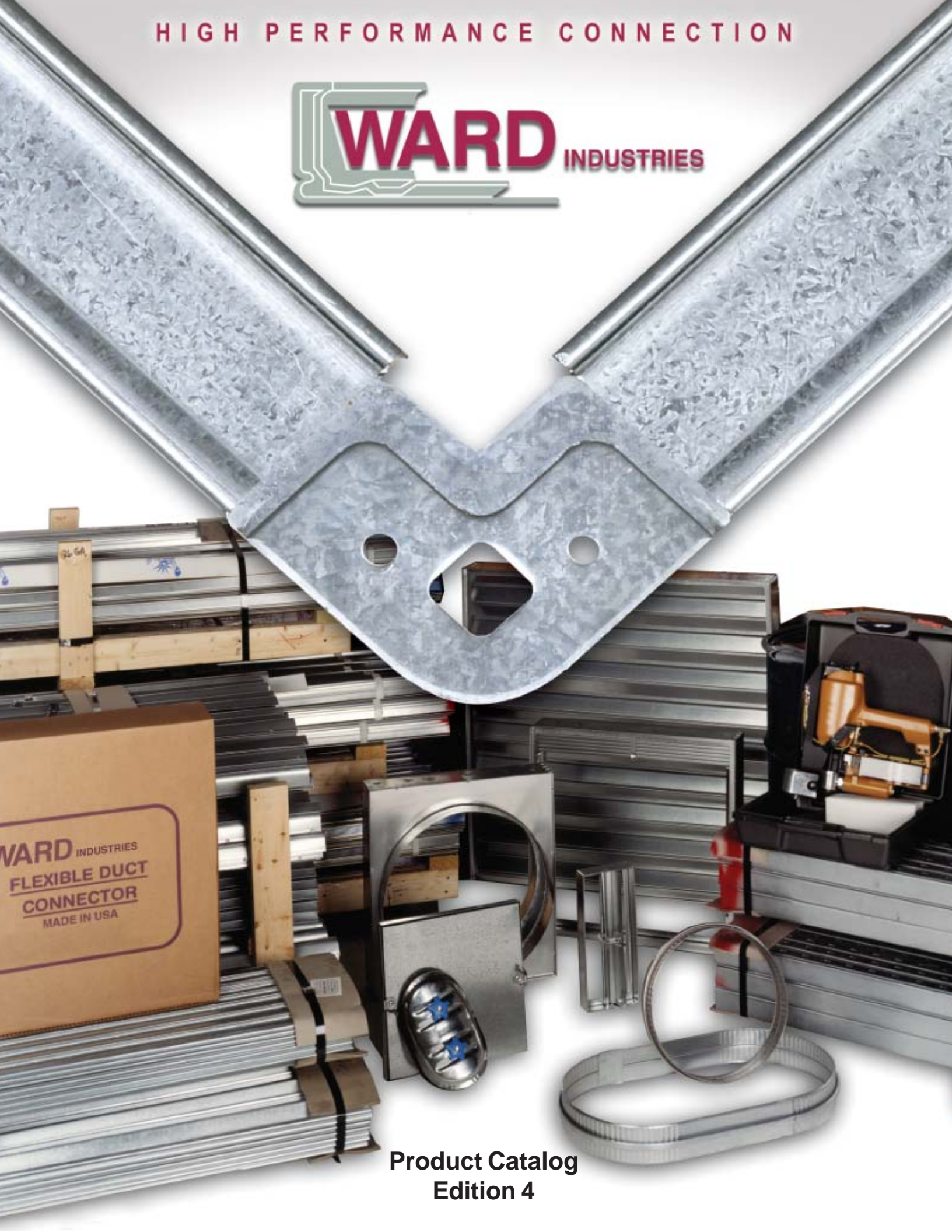


HIGH PERFORMANCE CONNECTION



Product Catalog
Edition 4



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Ward Industries offers a complete line of premium duct system components for the sheet metal, insulation, heating, and air conditioning industries.

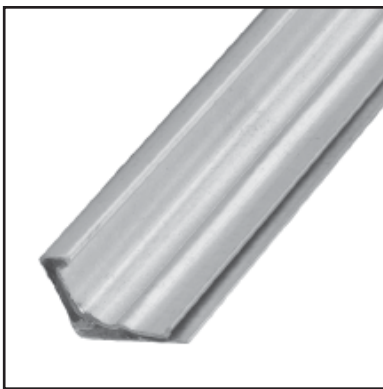
Our extensive product line makes us the first choice for all your duct system component requirements. In addition to the J and H flange connector systems, Ward Industries offers spiral duct connectors, slips and drive, vane and rail, and a wide range of gaskets, adhesives, and sealants.

The accessory products include fire dampers, ceiling radiation dampers, and access doors. Timesaving tools like the Injector and the QuickShot support the installation of the Ward product line, as well as provide cost-saving opportunities for our customers.

Ward Industries products provide high performance you can depend on.

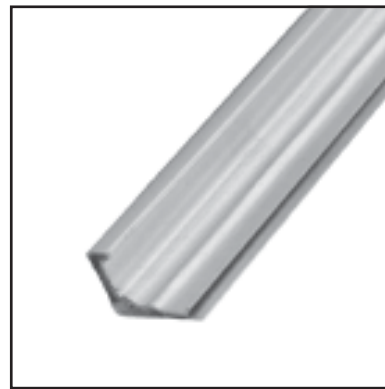
Flange

- Available in specialty metals
- Provides a large butyl-filled integrated sealant pocket to ensure proper sealing
- Offers a metal shoulder to protect gasket
- Available in 10' and 20' lengths
- Recommended for 14-gauge through 26-gauge ductwork



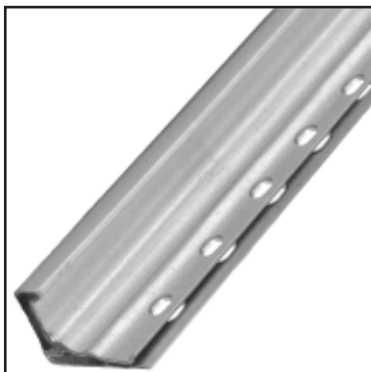
Model FLG J

- J-rated Flange
- 20-gauge galvanized steel
- Meets SMACNA rigidity Class J for transverse joints (steel)
- Meets SMACNA rigidity Class H for transverse joints (aluminum)



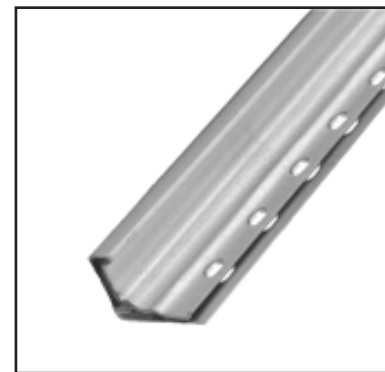
Model FLG H

- H-rated Flange
- 22-gauge galvanized steel
- Meets SMACNA rigidity Class H for transverse joints (steel)



Model Q FLG J QUICK FLANGE™

- J-rated Flange
- 20-gauge galvanized steel
- Meets SMACNA rigidity Class J for transverse joints (steel)
- Meets SMACNA rigidity Class H for transverse joints (aluminum)



Model Q FLG H QUICK FLANGE™

- H-rated Flange
- 22-gauge galvanized steel
- Meets SMACNA rigidity Class H for transverse joints (steel)

Corner

- Formed galvanized steel
- Available in specialty metals to match flange material



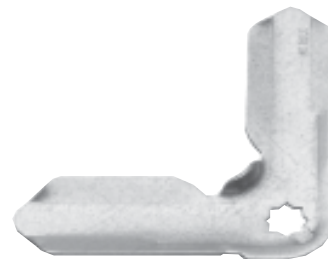
Model CNR J

- J Flange Corner
- Nuts and bolts included (galvanized)



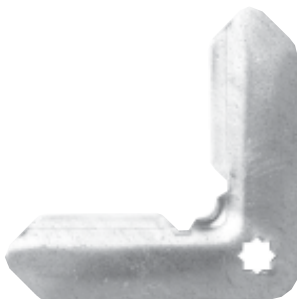
Model CNR H

- H Flange Corner
- Nuts and bolts included (galvanized)



Model CNR TC

- TDC Flange Corner
- Use with TDC-formed flange



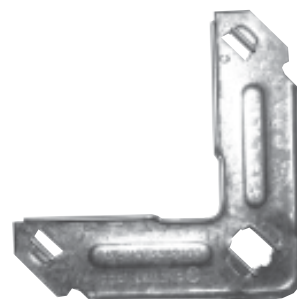
Model CNR TF

- TDF Flange Corner
- Use with TDF-formed flange



Model CNR CC

- Cornermatic TDC Flange Corner
- 16-gauge
- Use with Cornermatic corner injection machines

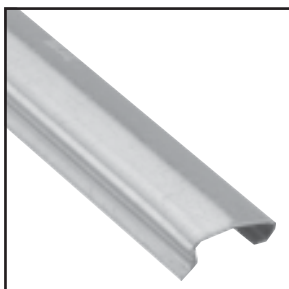


Model CNR CF

- Cornermatic TDF Flange Corner
- 16-gauge
- Use with Cornermatic corner injection machines

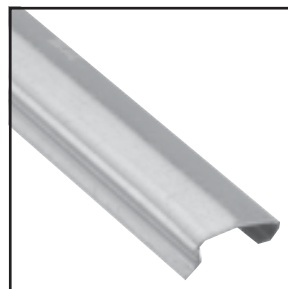
Cleat

- Formed galvanized steel
- Available in specialty metals to match flange material
- Available in 10' or 6" lengths
- Available in .070" thick extruded PVC for breakaway connections (6" only)



Model CLT W

- W Cleat
- Use with Ward J and H flange, as well as TDC-formed flange

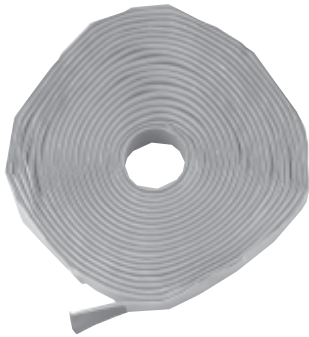


Model CLT F

- F Cleat
- Use with TDF-formed flange

Butyl Gasket

- Provides a nondrying, permanently flexible gasket
- Adheres to a variety of clean, dry surfaces
- Contains high percentage of virgin butyl rubber to enhance its sealing and aging characteristics
- Formulated to retain handling properties through a wide temperature range
- Will not crack or separate while being applied at low temperatures
- Product is UL-listed



Model GSK-BT Butyl Tape Gasket

- Product is 3/16" x 5/8" and is available in 30' rolls
- Product is 3/16" x 5/8" and is available in 25' rolls



Model GSK-BP Butyl Patch Gasket

- Product is 3/16" thick, and is available in 1" x 2" and 2" x 3" patch sizes

Neoprene Tape Gasket

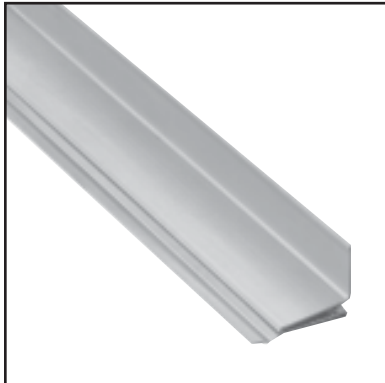
- Closed-cell foam comprised of neoprene, PVC, and nitrile
- Has good chemical resistance and is flame-rated
- Product is 5/16" x 3/4", and is available in 50' rolls
- Product is UL-listed



Model GSK-NT

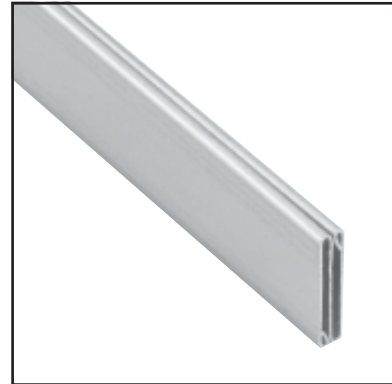
Slip

- Roll-formed galvanized steel
- Available in specialty metals
- Available in 5' and 10' lengths



Model SLS

- Standing slip
- Available in 1/2" in 24-gauge and 26-gauge
- Available in 1" in 20-gauge through 26-gauge



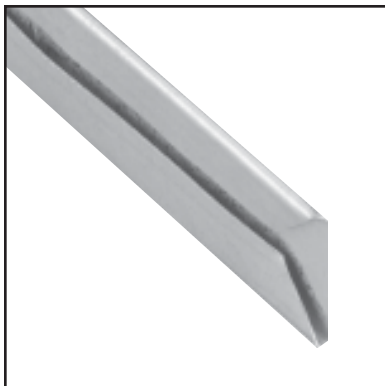
Model SLF

- Flat slip
- Available in 22-gauge through 26-gauge



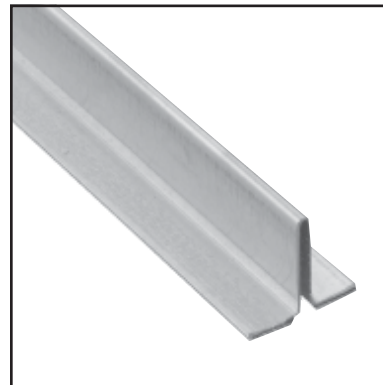
Drive

- Roll-formed galvanized steel
- Available in specialty metals
- Available in 5' and 10' lengths



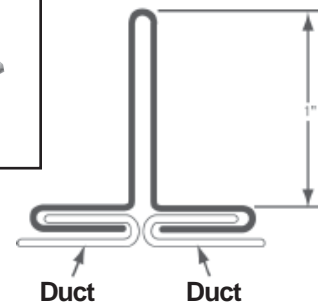
Model DRF

- Flat drive
- Available in 22-gauge through 26-gauge



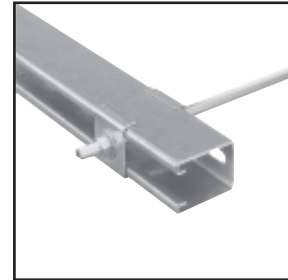
Model DRS

- Standing drive
- Available in 24-gauge and 26-gauge
- Available in 1" height



Trapeze Hanger

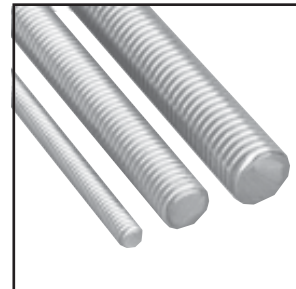
- Roll-formed galvanized steel
- Slotted holes 2-1/4" on center
- Available in both 16-gauge and 18-gauge
- Available in 10' and 20' lengths
- Inexpensive, yet strong alternative to standard strut systems
- Compatible with multiple clamp and component items
- Use trapeze washer (TZW) and threaded rod for a complete system (sold separately)



**Model TZH
and Model TZW**

Threaded Rod

- Zinc-plated threaded rod
- Available in standard thread diameters ranging from 1/4" to 7/8"
- Available in 6', 10' or 12' lengths
- Use with trapeze hanger and washer for a complete hanging system (sold separately)



Model THR

Hanger Strap

- Galvanized steel
- Available in 16-gauge through 24-gauge
- Available in 200' rolls or 10' flat blanks
- Great multipurpose product for hanging ductwork
- Use with strap buckle for quick and easy installation

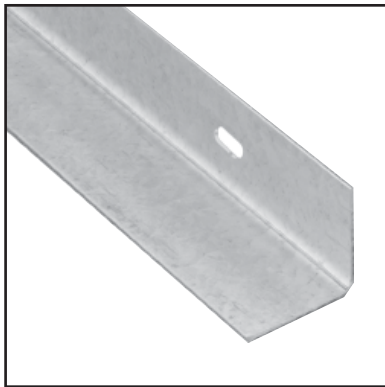
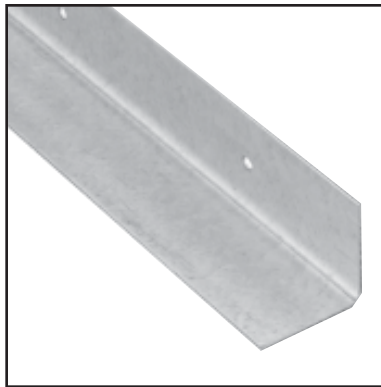
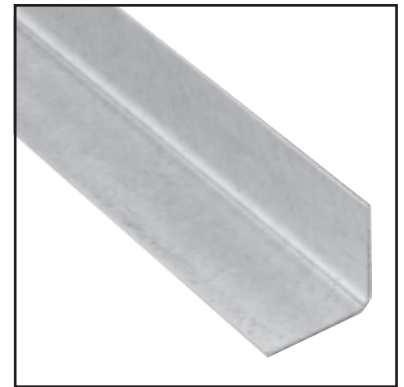


Model SHR

**Model SHB (10' strip) also
available**

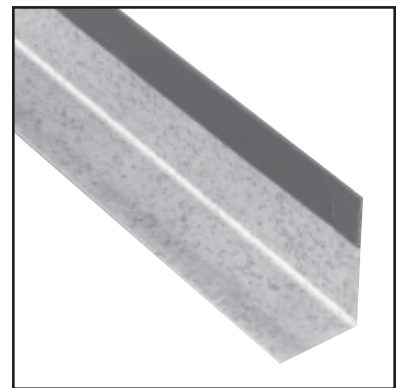
Angle Iron

- Roll-formed galvanized steel
- Slotted and punched holes 4" on center
- Available in 14-, 16-, and 18-gauge
- Available in 12' lengths
- Great multipurpose product

**Model AGS - slotted****Model AGP - punched****Model AGX - solid**

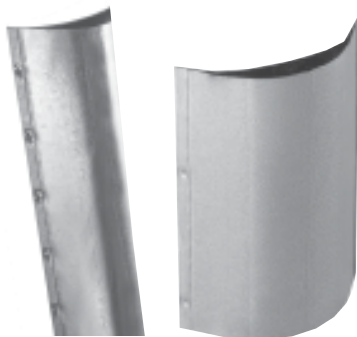
Bull Nosing

- Formed 26-gauge galvanized steel
- Self-adhesive tape provides quick and easy installation
- Available in sizes for insulation from 1/2" to 2" thick

**Model BLN**

Vane and Rail

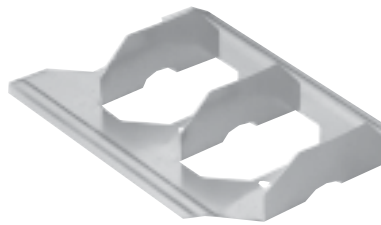
- Roll-formed galvanized steel
- Available in specialty metals
- Available in 10' lengths
- Custom lengths available
- Double-wall turning vane and turning rail designs in accordance to SMACNA guidelines



2" Vane 4" Vane

Model VNN/VNA

- Roll-formed 24-gauge galvanized steel (4")
- Roll-formed 26-gauge galvanized steel (2")
- Acoustical vane utilizes a perforated inner vane wall and insulation for sound absorption



Model RAL

- Roll-formed 22-gauge galvanized steel (2" and 4")
- Provides extra wide margin for easy fastening
- Rail stacks to minimize storage and shipping requirements
- Self-aligning tabs for easy vane installation

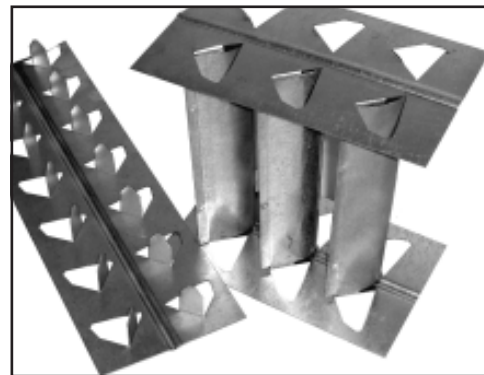


Vane and Rail assembly

Quick Rail™

Model FRI RAL Quick Rail™

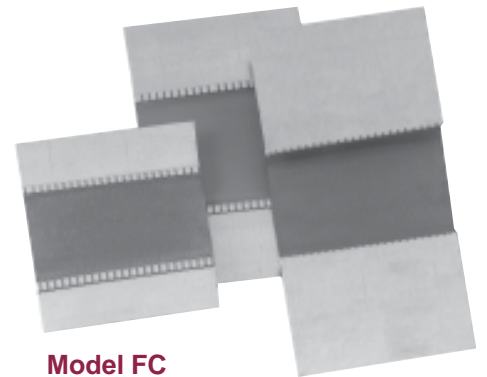
- Roll-formed 22-gauge galvanized steel (2" Rail Only)
- Eliminates the tedious process of bending over each vane to secure it to the rail
- Two tabs instead of one
- Eliminates loose connections that can cause annoying rattle over time
- Self-aligning tabs for easy vane installation
- Self-centers vanes onto rails
- Holds the vanes tangent to the airstream eliminating trailing edges



Quick Rail™ eliminates extra assembly steps

Flexible Connector

- Roll-formed galvanized steel and fabric
- Available in specialty metals
- Available in both commercial and residential grades
- Available with two different styles of seam wraps
- Available in 100' rolls
- All fabrics rated to 10" S.P.
- Absorbs sound and vibration to prevent from transmitting throughout system



Model FC

Keating Koupling

- Formed 20-gauge galvanized steel
- Available in specialty metals
- Provides a large butyl-filled integrated sealant pocket to ensure proper sealing
- Available for both round and flat oval duct
- Available in sizes ranging from 10" to 72"
- Provides a connection that is virtually airtight up to 16" S.P.
- Provides a smooth, clean appearance for exposed installation

**Model KKC - round****Model KKC - oval**

Quick Flange

- Formed 16-gauge galvanized steel
- Available in specialty metals, except stainless steel
- Available for both round and flat oval duct
- Available in sizes ranging from 10" to 72"
- Provides a quick and easy method for connecting round and oval duct

**Model QFC - round****Model QFC - oval**

Quick Connect

- Formed 24-gauge galvanized steel
- Contains closed-cell polyethylene gasket to ensure proper sealing requirements
- Available for round duct
- Available in sizes ranging from 3" to 12"
- Provides a quick and unique connection for round duct



Model QCC

Compression Duct Door

- Formed galvanized steel
- Available in specialty metals
- Available in sizes 8" x 4", 10" x 6" and 16" x 12"
- Available for both flat and round duct
- Self-adhesive template included for proper installation



Model DSA

for Single-Wall Duct

- Formed 20-gauge galvanized steel
- Contains polyfoam insulation
- Utilizes closed-cell neoprene gasket to ensure proper sealing requirements
- Pressure tested to over 20" WG



Model DSA DW

for Double-Wall Duct

- Formed 20-gauge galvanized steel
- Contains polyfoam insulation
- Utilizes closed-cell neoprene gasket to ensure proper sealing requirements
- Increased bolt length allows door to encompass double wall or insulated duct
- Pressure tested to over 20" WG



Model DSA HT

for High-Temperature Duct

- Formed 16-gauge black iron
- Utilizes ceramic rope gasket
- For applications up to 2000°F

Spin-In Access Doors

- Formed 22-gauge galvanized steel frame
- Formed 24-gauge galvanized steel door
- Fiberglass encapsulated in 1" thick door, providing an estimated R-value of 3
- Utilizes closed-cell neoprene gasket
- Available in sizes from 8" to 24" diameter
- Tested to 20" S.P. with minimal leakage



Model DSP

Square Access Doors

- Formed 22-gauge galvanized steel frame
- Formed 24-gauge galvanized steel door
- Fiberglass encapsulated 1" thick door
- Preformed dovetail tabs allow for easy and quick installation
- Available in sizes from 6" x 6" to 24" x 24"
- Available with or without insulation
- Available for high-pressure applications
- Other options available; call with requests



Model DCM
Square Cammed Door

- Provides an estimated R-value of 3
- Utilizes open-cell polyester foam gasket
- Dual-cam design offers complete removal of door for accessing duct
- Tested to 4.5" S.P. with minimal leakage



Model DHG
Square Hinged Door

- Provides an estimated R-value of 3
- Utilizes open-cell polyester foam gasket
- Full-length hinge allows door to pivot out of the way for easy access to the duct
- Tested to 4.5" S.P. with minimal leakage

Roller-Type Adhesive

Model AR05

- Designed for bonding duct liner, duct wrap and fibrous glass insulations to painted steel, galvanized, or aluminum duct
- Can also be used as a contact bond adhesive in areas where water entrapment may be a problem
- Water-based product
- UL-listed, meeting NFPA 90A and 90B 25/50 requirements
- Available in 5-gallon buckets



Spray-Type Adhesive

Model AS55

- Designed for bonding fiberglass and mineral wool duct liner to galvanized duct
- Ideal for applying with high-volume spray and coil line operations
- Can also be applied by extrusion or manual spray equipment
- Water-based product
- UL-listed, meeting NFPA 90A and 90B 25/50 requirements
- Available in 55-gallon drums

Solvent-Based Sealant

Model SSTB/SS01

- Designed as a high velocity duct joint sealant for indoor applications
- Can also be used to adhere duct fabrics and flexible duct to high velocity ducts
- UL-listed, meeting NFPA 90A and 90B 25/50 requirements
- Available in 1-gallon buckets or 11-ounce tubes



Water-Based Sealant

Model SWTB/SW01

- Designed as a vapor barrier duct sealant
 - Can be applied to galvanized, aluminum, or mild steel ducts
 - Ideal for sealing ASJ, FRK, and FSK jackets and board facings at joints or laps
 - Also use over staple and weld pin punctures
 - The cartridge grade is an ideal joint sealant with polystyrene insulation
 - UL-listed, meeting NFPA 90A and 90B 25/50 requirements
 - Available in 1-gallon buckets or 11-ounce tubes
-

Water-Based Reinforced Sealant

Model SWFTB/SWF01

- Designed as a vapor barrier duct sealant
 - Can be applied to galvanized, aluminum, or mild steel ducts
 - Also use over staple and weld pin punctures
 - Fiber reinforcement ensures that it is tough yet flexible
 - UL-listed, meeting NFPA 90A and 90B 25/50 requirements
 - Available in 1-gallon buckets or 11-ounce tubes
-

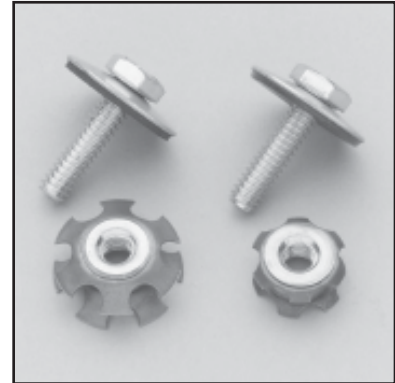
Pumpable Butyl Sealant

Model SBTB/SB05/SB55

- Provides a nondrying, permanently flexible seal for rigid or expansion joints on a variety of materials
- Provides a moisture and vapor-tight seal
- Available in 55-gallon drums, 5-gallon buckets, or 11-ounce tubes

Rod Lock

- Zinc-plated grade 5-bolt
- Zinc-plated washer with neoprene gasket
- Zinc-plated nut with spring steel seat plates
- Available in both 1/2" and 3/4" sizes
- Use with standard conduit to provide quick and easy installation of tie rods
- Use for both joint and center tie rods
- Pull-tested to over 1,900 lbs.
- Use rod lock tool for easy installation (sold separately)

**Model RL**

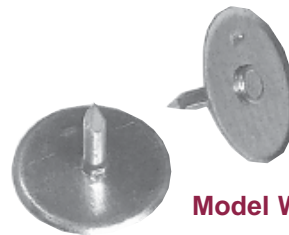
Rod Lock Install Tool

- Installs Rod Lock nuts quickly and accurately in conduit

**Model RODLOCK**

Weld Pins

- Available in 1/2" 3/4" 1", 1-1/2" and 2" sizes
- Cupped head for insulation protection
- Compatible with most weld machines used to apply pins up to 2" in length

**Model WP CH**

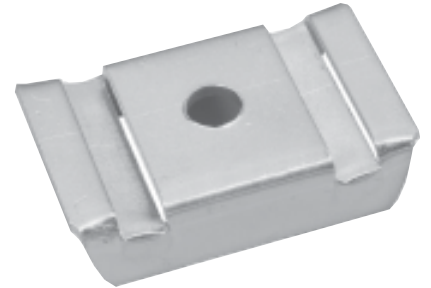
Isolation Hanger

- Rubber padding prevents noise transmission from vibrating ducts to the rest of the building

**Model IH**

Strap Buckle

- Ideal for hanging round duct
- Hanger strap is bent into the strap buckle and suspended with threaded rod

**Model SB**

Moisture Drain

- Creates a leak-proof drain
- Allows moisture in ductwork to collect in one area for easy draining
- Use with moisture drain cap (MC) for a complete drain assembly (sold separately).

**Model MD**

Cleat Install Tool

- Installs finishing cleat quickly and easily

**Model CLEAT**

Corner Injector

- Automatically inserts corners into flange, two at a time
- Adaptable for either Ward J or H Flange
- Total time per cycle is less than 5 seconds



Model INJECTOR

Crimper

- Installs Ward TDC corners in TDC-formed flange
- Installs Ward TDF corners in TDF-formed flange
- Forms hem, presses to crimp, and secures the corner in the flange



Model CRIMPER

Pneumatic QuickShot Gun

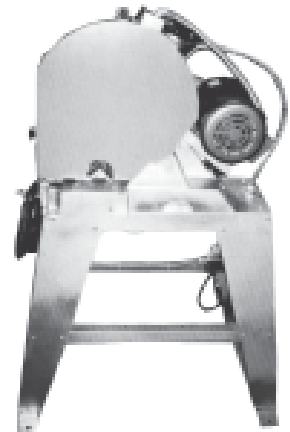
- QuickShot is a combination pneumatic nailer and screwdriver that pierces through metal
- Holds the Ward flange in position while fastening to ensure proper installation
- Provides additional strength by increasing thread engagement
- Reduces possibility of leakage (fasteners will not strip)
- Total time per screw is less than a second
- Also use as general purpose fastening tool for installing turning vane and exterior reinforcements



Model QUICKSHOT

Cut-Off Saw

- 14" metal cutting blade and pneumatically controlled vice guarantee a burr-free cut
- Ensures operator protection with a heavy-gauge blade guard
- Optional counter shuts down the cutting cycle after predetermined number of cuts
- Total time per cut is less than a second



Model QUICK SAW

Sealant Application System

- Provides easy application of pumpable butyl for proper sealing of longitudinal joints



Model SEALER

Adhesive Spray Pump

- Provides easy application of Ward Industries spray adhesive
- Offers an adjustable range of settings
- Provides an extremely fine, uniform coating required for proper application
- Clean-up is fast and easy



Damper Sets

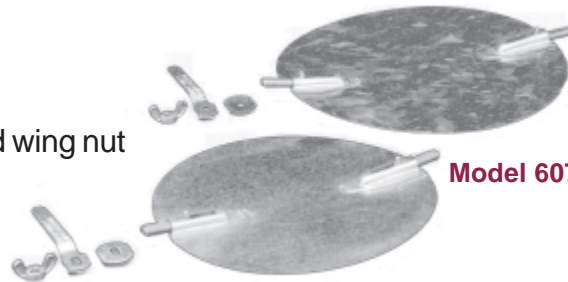
Model 65 and 66 Damper Set

- For use in 5" to 6" round pipe
- One bearing
- Furnished with handle, washer, and wing nut
- Unassembled

**Model 65 and 66 Damper Set**

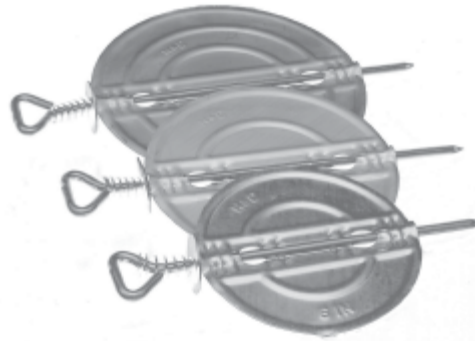
Model 607 and 608 Damper Set

- For use in 7" and 8" round pipe
- Two bearings
- Furnished with handle, washer, and wing nut
- Unassembled

**Model 607 and 608 Damper Set**

Model 506, 507, and 508 Damper Set

- 6", 7", and 8" sizes
- Steel warm air damper
- Spindle is reversible and may be inserted from either end
- Heavy spring holds damper securely under most conditions

**Model 506, 507, and 508 Damper Set**

Damper Regulator Sets

Damper regulator sets are furnished with retractable bolt bearing for fast, easy assembly. Merely slip bearing over edge of damper at the bearing line, lay the bearing on any firm surface, and drive the prong through the damper. The prong firmly clinches the bearing to the damper. 5/16" bearings are ample for most damper installations.

Maximum damper thickness: .022, 22-gauge galvanized

Model 69 Damper Regulator Set

- 704 Washer
- 705 Handle
- 706 Wing Nut
- 708 (one) 5/16" Bearing



Model 69 Damper Regulator Set

Model 70 Damper Regulator Set

- 704 Washer
- 705 Handle
- 706 Wing Nut
- 708 (one) 5/16" Bearing



Model 70 Damper Regulator Set

Model 80 Damper Regulator Set

- 60 - 3/8" Regulator
- 56 - 3/8" Square Shank Bearing
- 60 - 3/8" Dial Regulator Set for large dampers



Model 80 Damper Regulator Set

Damper Tip

- Fixed bearing



Model 102 Damper Tip

Casing Clips

- For fastening casings and drawbands



Model 2 Casing Clip
14-gauge steel



Model 27 Casing Clip
16-gauge steel

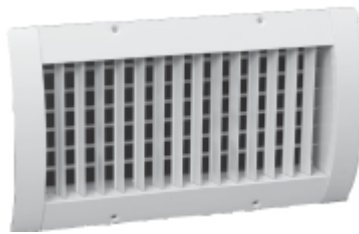
Spiral Diffusers

- Extruded aluminum construction
- Available as diffuser only or diffuser with air scoop
- Optional face adjustable scoop to direct airflow
- Counter-sunk screwholes
- Available in Bright White and Satin Anodized finishes
- Performance data available upon request



Model WSV **Single-Deflection Diffuser**

- One-way deflection
- Single row of individually adjustable blades for deflection control
- Available sizes: 10" x 3" to 36" x 12" for 6" to 30" ducts



Model WSVH **Double-Deflection Diffuser**

- Two-way deflection
- Two rows of individually adjustable blades for horizontal and vertical deflection control
- Available sizes: 10" x 3" to 36" x 12" for 6" to 30" ducts



Model WSS **Linear Face Diffuser**

- Slot sizes available: 1/2", 3/4", 1"
- Two rows of individually adjustable blades for horizontal and vertical deflection control
- Available in one to four slots tall x 48" wide for 6" to 30" ducts

Reference Guide

75 Series

- 1.5-hour fire rating
- Used in barriers rated at 2 hours or less
- Has a 4-1/4" side profile
- 165°F fusible link standard (212°F and 286°F also available)
- Available in both horizontal (H) and vertical (V) damper orientations
- Available in A, B, and C type configurations
- Available in S4 stainless steel

85 Series (Thinline)

- 1.5-hour fire rating
- Used in barriers rated at 2 hours or less
- Has a 2" side profile
- 165°F fusible link standard (212°F and 286°F also available)
- Available in both horizontal (H) and vertical (V) damper orientations
- Available in A, B and C type configurations

95 Series (Thinline)

- 3.0-hour fire rating
- Used in barriers rated at 4 hours or less
- Has a 2" side profile
- 165°F fusible link standard (212°F and 286°F also available)
- Available in vertical (V) damper orientation only
- Available in A, B, and C type configurations

105 Series

- 3.0-hour fire rating
- Used in barriers rated at 4 hours or less
- Has a 4-1/4" side profile
- 165°F fusible link standard (212°F and 286°F also available)
- Available in vertical (V) damper orientation only
- Available in A, B, and C type configurations

Model Summary

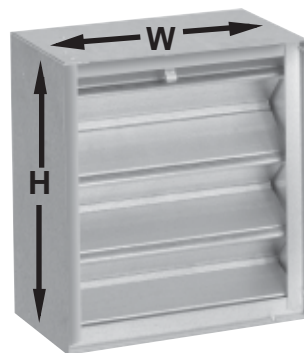
Model	Hour Rating	Side Profile	Damper Orientation	Configuration
75 Series	1.5-hour	Wide (4¼")	H and V	A, B, and C
85 Series	1.5-hour	Thinline (2")	H and V	A, B, and C
95 Series	3-hour	Thinline (2")	V	A, B, and C
105 Series	3-hour	Wide (4¼")	V	A, B, and C

Damper Orientation Guide

- H – Horizontal
- V – Vertical

Configuration Reference Guide

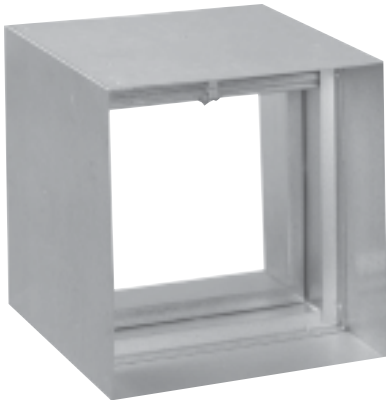
- A – Damper blades and damper frame are in the air stream.
- B – Damper blades are out of the air stream, but the damper frame is in the air stream.
- C – Damper blades and damper frame are both removed from the air stream. The "C" configuration requires the damper to be fitted with a collar that will correspond to the type of duct being used.
- CO – Designates an oval collar for use with oval ductwork.
- CR – Designates a rectangular collar for use with flat ductwork.
- C – Designates a round collar for use with round ductwork.



Order width x height with the width being the blade direction.

Important Facts

Ward Industries fire dampers are undersized 1/4" at the factory (size minus 1/4").



Fire Damper Sleeves

A fire damper sleeve is a rectangular piece of sheet metal (usually the same gauge as the ductwork or heavier) that is wrapped around the damper in order to meet the UL 555 installation instructions. The damper sleeve serves two functions. In many cases it provides a fastening site for the ductwork on either side of the damper. Secondly, a damper sleeve acts as a platform to attach the retaining angle.

Fire damper sleeves are available in 8" to 20" lengths (4" increments) and gauges 14 through 22.

Retaining Angles

Retaining angles attach to the fire damper sleeve on either side of the barrier (wall or floor) for the purpose of securing the damper in place. The retaining angles frame the damper on each side to secure it in position in the barrier and to cover the gap between the damper and the opening in the barrier.

Fusible Links

165°F link is standard. To order 212°F or 286°F link, specify at the time of order.

Listed to Underwriters Laboratories Standard 555

This product is listed by
UNDERWRITERS LABORATORIES, INC.
and bears the mark:



75 Series

1.5-Hour Fire Damper

- Roll-formed 22-gauge galvanized frame
- Roll-formed 22-gauge galvanized blades
- Available in stainless steel
- Stainless steel closure spring (horizontal models only)
- Available in vertical (V) or horizontal (H) models
- Available in both single and multiple unit sizes
- Minimum width 6"
- Maximum single unit size (damper)
 - Vertical: 60" x 60"
 - Horizontal: 60" x 60"
- Maximum multiple unit size (damper)
 - Vertical: 120" x 120"
 - Horizontal: 102" x 60"
- UL-listed, curtain-style fire damper for static systems
- Tested to UL 555, File R16475
- Meets NFPA 90A requirements
- Listed with California State Fire Marshall, Listing 3225-1577:100



**75VA
and
75HA**



Type 75VB



Type 75HB



**75VC
and
75HC**



**75VCO, 75VCR
and
75HCO, 75HCR**

85 Series

1.5-Hour Fire Damper

- Roll-formed 22-gauge galvanized frame
- Roll-formed 22-gauge galvanized blades
- Stainless steel closure spring (horizontal models only)
- Available in vertical (V) or horizontal (H) models
- Available as single units only
- Minimum width 6"
- Maximum single unit size (damper)
 - Vertical: 41" x 36" or 36" x 60"
 - Horizontal: 41" x 36"
- Thinline frame for applications with space constraints
- UL-listed, curtain-style fire damper for static systems
- Tested to UL 555, File R16475
- Meets NFPA 90A requirements
- Listed with California State Fire Marshall, Listing 3225-1577:100



**85VA
and
85HA**



**85VB
and
85HB**



**85VC
and
85HC**

95 Series

3-Hour Fire Damper

- Roll-formed 22-gauge galvanized frame
- Roll-formed 22-gauge galvanized blades
- Available in vertical (V) models only
- Available as single units only
- Minimum width 6"
- Maximum single unit size (damper)
Vertical: 48" x 49"
- Thinline frame for applications with space constraints
- UL-listed, curtain-style fire damper for static systems
- Tested to UL 555: File R16475
- Meets NFPA 90A requirements
- Listed with California State Fire Marshall: Listing 3225-1577:100



95VA



95VB



95VC

105 Series

3-Hour Fire Damper

- Roll-formed 22-gauge galvanized frame
- Roll-formed 22-gauge galvanized blades
- Available in vertical (V) models only
- Available as single units only
- Minimum width 6"
- Maximum single unit size (damper)
Vertical: 60" x 48"
- UL-listed, curtain-style fire damper for static systems
- Tested to UL 555: File R16475
- Meets NFPA 90A requirements
- Listed with California State Fire Marshall: Listing 3225-1577:100

**105VA****105VB****105VC****105VCO, 105VCR**

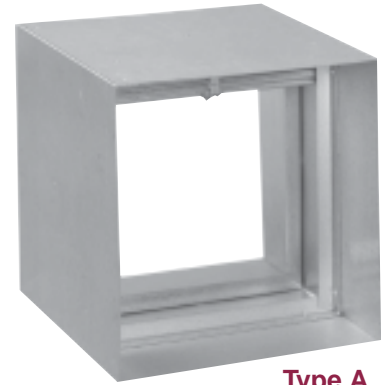
Sleeves

- UL-listed fire damper factory mounted in a galvanized sleeve
- Available in the following lengths:

8"
12"
16"
20"

- Available in the following gauges:

14
16
18
20
22



Type A

- Available in stainless steel (with model 75 only)
- Damper can be ordered offset from center for sidewall applications
- Provides a fastening site for ductwork leading to the damper
- Provides a platform to which retaining angle can be mounted



Type C



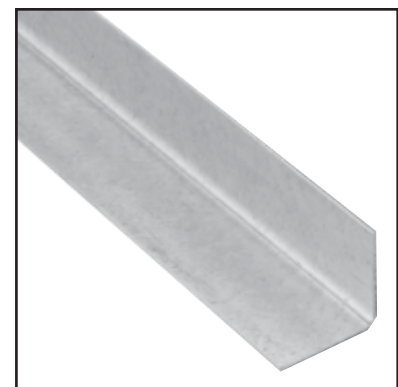
Type B



Type CO and CR

RETAINING ANGLE

- Used to retain fire damper and sleeve assembly in fire-rated partition
- Sandwiches the partition to prevent stress on the damper caused from partition expanding and contracting
- Required on all fire damper and sleeve installations



Model RET ANG

50 Series - Square and Rectangular

WCRD-50-4X

- Single-blade damper
- Great for smaller sized dampers where maximizing airflow is essential
- Rectangular
- Available in 8" x 4", 10" x 4", and 12" x 4" only
- 165°F fusible link standard (212°F also available)

WCRD-50

- Dual-blade damper, arranged in a butterfly configuration
- Square or rectangular
- Minimum size - 4" x 4"
- Maximum size - 24" x 24"
- 165°F fusible link standard (212°F also available)
- Available with easy access hook and catch

55 Series - Round

WCRD-55

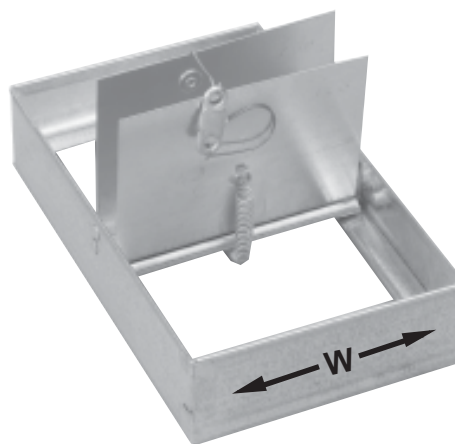
- Dual-blade damper, arranged in a butterfly configuration
- Round
- Sizes range from 4" to 24" diameter
- 165°F fusible link standard (212°F also available)
- Available with easy access hook and catch

Easy Access Suffix

EA - Easy Access

LP - Link Plate

The easy access feature allows for "easy access" to reset the damper.



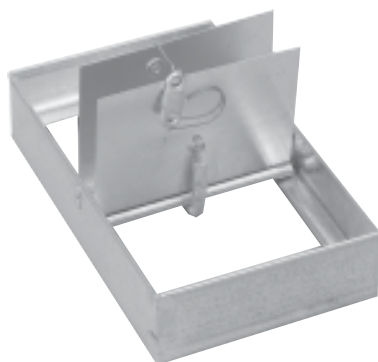
Order width x height with the width being the direction of the damper hinge.

Model Summary

<u>Model</u>	<u>Side Profile</u>	<u>Blade Orientation</u>	<u>Configuration</u>
WCRD-50-4X	Square/Rectangular	Single Blade	Easy access only
WCRD-50	Square/Rectangular	Double Blade	Easy access or link plate
WCRD-50-B	Square/Rectangular w/boot	Double Blade	Easy access or link plate
WCRD-50-4XB	Square/Rectangular w/boot	Single Blade	Easy access only
WCRD-55	Round	Double Blade	Easy access or link plate

Ceiling Radiation Damper

- Roll-formed 22-gauge galvanized frame
- Formed 22-gauge galvanized blades
- Roll-formed 22-gauge galvanized hinge (Model 50-4X has stainless steel spring hinge)
- Available in both easy access (EA) and link plate (LP) versions for mounting the fusible link (Model 50-4X available in EA only)
- Double-blade butterfly configuration (single-blade on Model 50-4X)
- Insulation and scrim are required on dampers over 80 in² in area
- Insulation and scrim are optional on dampers less than 80 in² in area
- Tested to UL 555C: File R16579
- Meets NFPA 90A requirements
- Listed with California State Fire Marshall: Listing 3225-1577:101



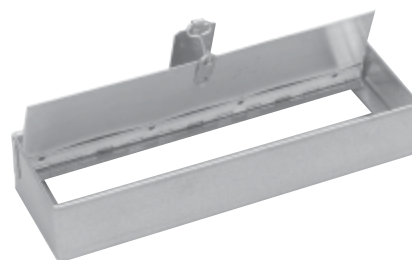
50 Series - easy access

- Minimum unit size: 4" x 4"
- Maximum unit size: 24" x 24"
- Dimensions are determined by blade width (hinge dimension) then by blade height (W x H)



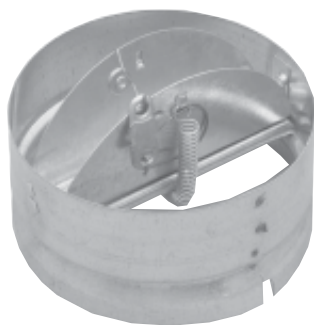
50 Series - with link plate

- Minimum unit size: 4" x 4"
- Maximum unit size: 24" x 24"
- Dimensions are determined by blade width (hinge dimension) then by blade height (W x H)



50-4X - easy access

- Available sizes: 8" x 4", 10" x 4" and 12" x 4"
- Dimensions are determined by blade length (hinge dimension) then by blade width



55 Series - easy access

- Minimum unit size: 4" diameter
- Maximum unit size: 24" diameter



55 Series - with link plate

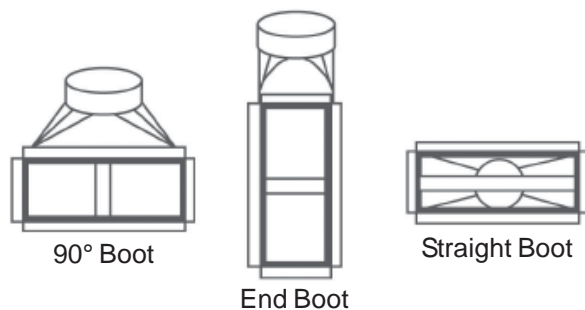
- Minimum unit size: 4" diameter
- Maximum unit size: 24" diameter

Ceiling Radiation Damper with Boot

- UL-listed ceiling radiation damper factory mounted in a galvanized boot
- Available in the following styles: 90° boot
End boot
Straight boot
- Available with collars ranging from 4" to 10"
- Available with throat depths of 4", 6", and 8"
- Available with or without a flange
- Factory-assembled to ensure proper fit and placement
- Eliminates the need for labor to install in the field
- Single-blade damper not available in end boots with a 4" throat



50 Series - CRD with Boot

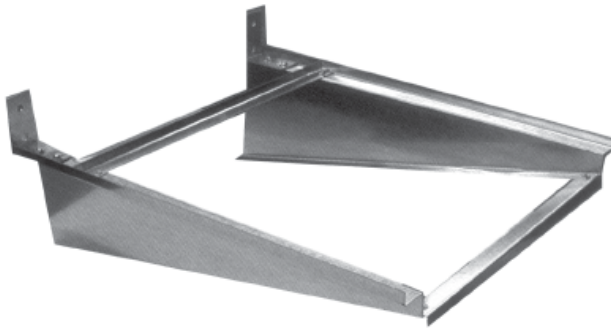


Thermal Blanket and Scrim

- Model CTB 24 (24" x 24" thermal blanket)
- Model CTB SCM 24 (24" x 24" scrim for attaching thermal blanket to damper)

AC Bracket Mount

- Mounts at any height
- Supports air conditioning units above ground level, regardless of the condition of the surrounding terrain
- Assemble and install the unit in minutes
- Constructed of heavy-duty steel
- Lightweight design provides a rated load capacity of 500 lbs.
- Eliminates the need for stand-ups or risers on heat pump applications and improves under-unit air circulation
- Helps control job completion variables on construction sites where the final grading needs to be done.



- **Sizes & Weights:**

- No. 656090 Standard 36" L x 30" W, 17lbs.

- No. 656091 Medium 45" L x 36" W, 22 lbs.

- No. 656092 Large 55" L x 48" W, 25 lbs.

- **Boxed:** 1 Set per box
- **Bulk:** 50 Sets per pallet



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