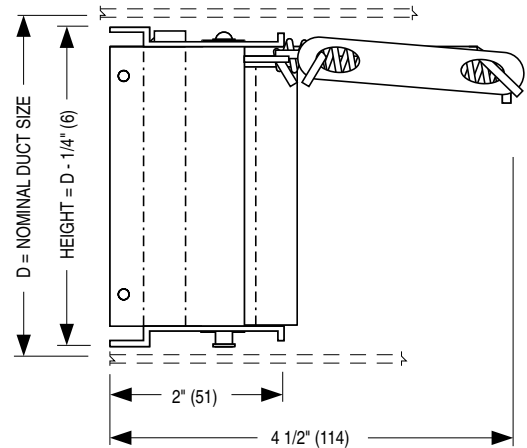
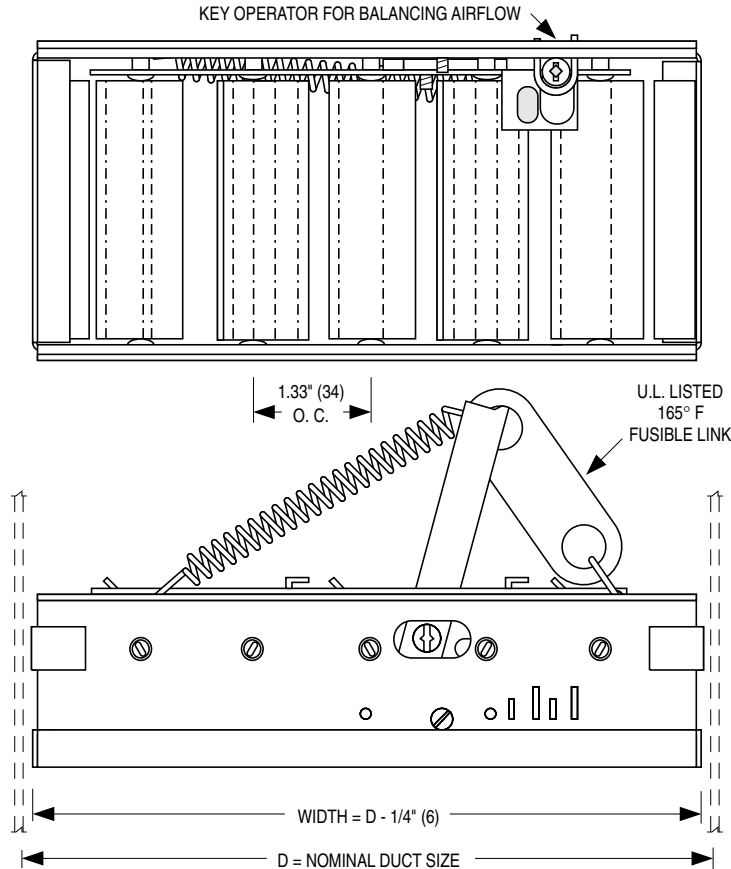



1 1/2 HOUR RATING FOR USE IN FIRE SEPARATIONS OF UP TO 2 HOURS. TESTED IN ACCORDANCE WITH ULC S112/UL 555. APPROVED FOR INSTALLATION WITH OR WITHOUT STEEL GRILLE.



	LISTED FIRE DAMPER - 1 1/2 HR. RATING TESTED IN ACCORDANCE WITH ULC S112/UL 555	NAILOR INDUSTRIES INC. TORONTO, ONTARIO HOUSTON, TEXAS
	WH- FOR INSTALLATION IN VERTICAL OR HORIZONTAL POSITION, WITH OR WITHOUT STEEL REGISTER.	

DESCRIPTION:

The 907FL is a dual purpose heavy gauge opposed blade damper designed primarily for use as an air balancing device behind supply or return air grilles (or in branch ducts) and a 1 1/2 hour labeled fire damper. Where the building code requires the protection of a ductwork penetration in a wall or floor required to have a fire resistance rating, and the ductwork terminates at a grille, the 907FL provides the solution. Rather than using a register and separate curtain type fire damper, the 907FL functions as both, saving on both installation cost and space. The unique 907FL is the only listed fire damper that may be installed directly attached to the back of a steel grille as it was successfully tested this way. Other manufacturers' products require the damper to be installed independently in the duct behind the grille, so adding to the cost and also complicating the installation.

SPECIFICATION:

1. Material: Minimum 20 ga. (0.91) steel blade and frame.
2. Bronze blade pivot bushings.
3. UL listed fusible link 165°F (74°C) standard.
4. Finish: BK Black baked enamel.

NOTES:

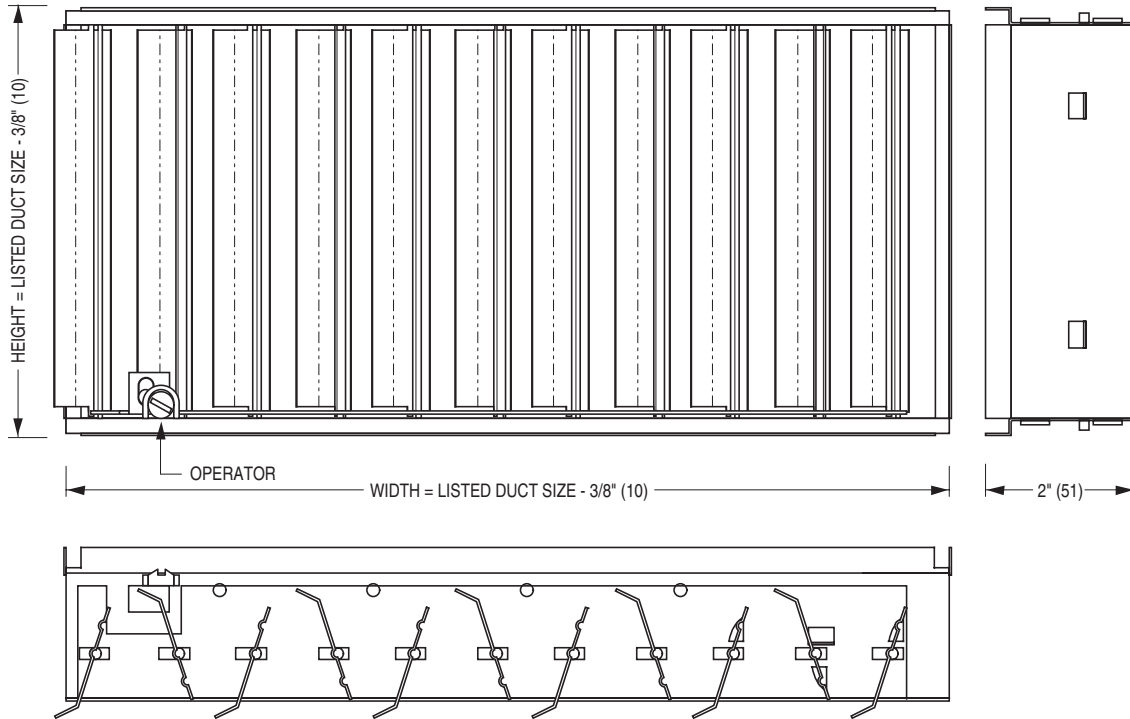
1. Minimum size: 6" x 4" (152 x 102)
 Maximum size: 24" x 12" (610 x 305) single section.
 24" x 24" (610 x 610) or
 48" x 12" (1219 x 305) as a factory assembled multiple section.
2. Refer to drawing 907FL-2 for installation instructions.

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	DATE	C SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	28 - 7 - 99R	ACC. GR.	11 - 94	ACC.907FL-1



AIR BALANCING DEVICES
OPPOSED BLADE DAMPER • NECK MOUNTED FOR
SQUARE AND RECTANGULAR NECKS
MODEL: OBD TYPE SL & PL

TYPE SL Screwdriver Slot Face Operator (Standard)



OBD-L Long Blades (parallel to long dimension)

OBD-S Short Blades (parallel to short dimension)

Minimum Size = 4" x 2 1/2" (102 x 64)

Maximum Size = 24" x 24" (610 x 610)

DESCRIPTION:

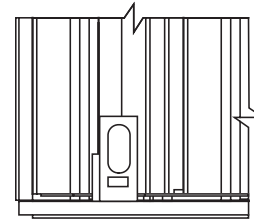
1. Material: Roll-formed, corrosion-resistant steel. Mill finish.
2. Designed to mount directly on the neck of a grille or diffuser in square and rectangular neck applications. Supplied with steel barbed S-clips for easy field mounting. Supplied as standard with a screwdriver slot operator.
3. Gang operated blades on 1" (25) centers move simultaneously in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.

SPECIAL FEATURES:

_____.

OPTIONS:

Type PL Pivot Lever Operator.



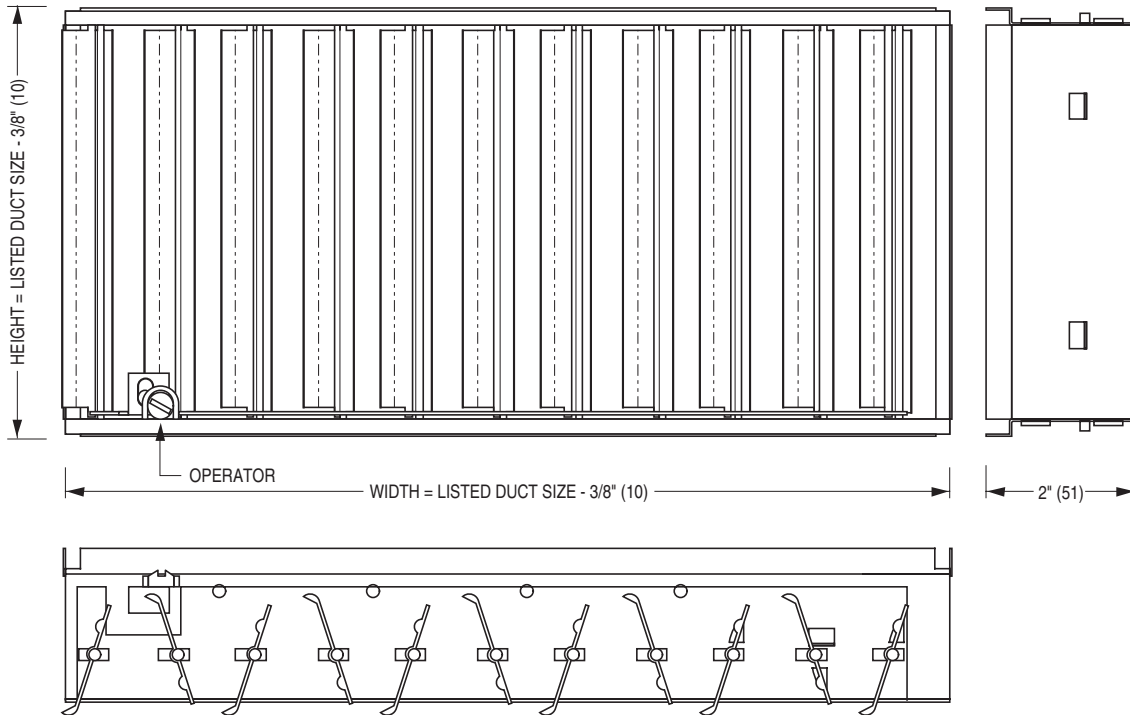
For fixed, angled deflection return grilles. Blade orientation of damper must be opposite of grille. Adjusted with a screwdriver.

SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	8 - 11 - 20	ACC.DIF/GR	26 - 8 - 99R	ACC.ABD-1	



**AIR BALANCING DEVICES
 OPPOSED BLADE DAMPER • DUCT MOUNTED
 FOR SQUARE AND RECTANGULAR NECKS
 MODEL: OBD-A TYPE SL & PL**

TYPE SL Screwdriver Slot Face Operator (Standard)



OBD-A-L Long Blades (parallel to long dimension)

OBD-A-S Short Blades (parallel to short dimension)

Minimum Size = 4" x 2 1/2" (102 x 64)

Maximum Size = 24" x 24" (610 x 610)

DESCRIPTION:

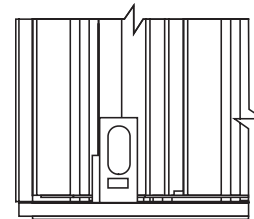
1. Material: Heavy gauge, extruded aluminum with miscellaneous steel components. Mill finish.
2. Designed to mount directly on the neck of a grille or diffuser in square and rectangular neck applications. Supplied with steel barbed S-clips for easy field mounting. Supplied as standard with a screwdriver slot operator.
3. Gang operated blades on 1" (25) centers move simultaneously in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.

SPECIAL FEATURES:

_____.

OPTIONS:

Type PL Pivot Lever Operator.



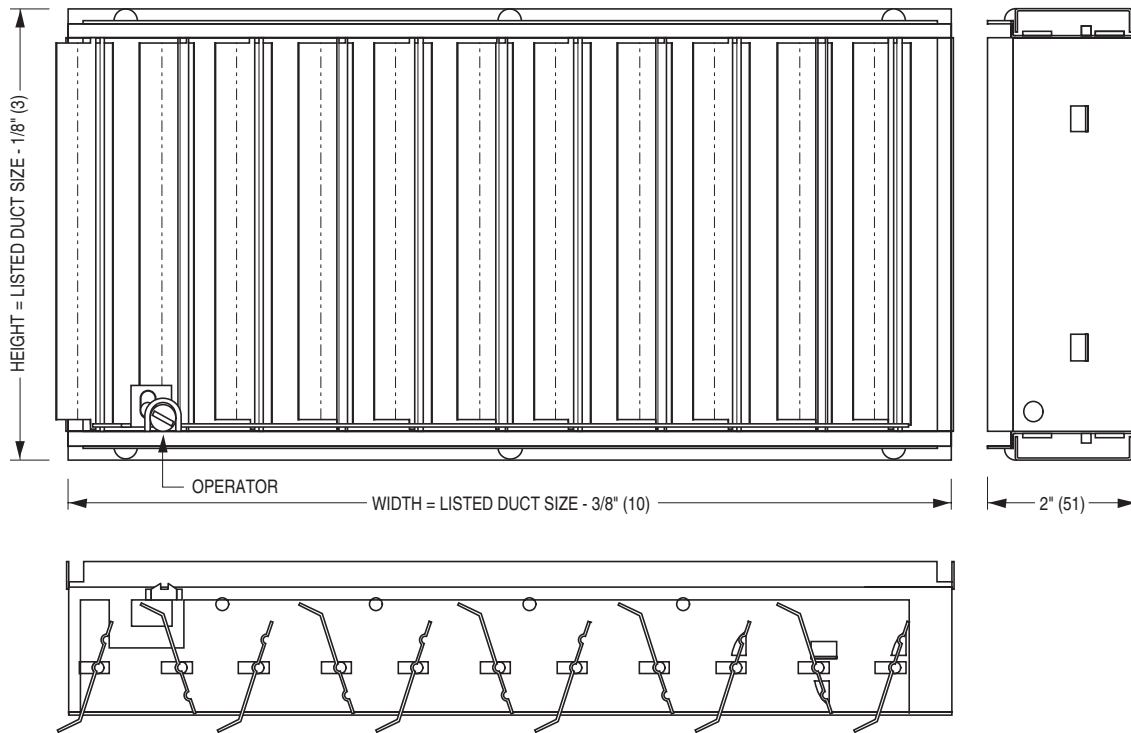
For fixed, angled deflection return grilles. Blade orientation of damper must be opposite of grille. Adjusted with a screwdriver.

SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	8 - 11 - 20	ACC.DIF/GR	26 - 8 - 99R	ACC.ABD-2	



**AIR BALANCING DEVICES
OPPOSED BLADE DAMPER • DUCT MOUNTED
FOR SQUARE AND RECTANGULAR NECKS
MODEL: OBDD TYPE SL & EH**

TYPE SL Screwdriver Slot Face Operator (Standard)



OBDD-L Long Blades (parallel to long dimension)

OBDD-S Short Blades (parallel to short dimension)

Minimum Size = 4" x 2 1/2" (102 x 64)

Maximum Size = 24" x 24" (610 x 610)

DESCRIPTION:

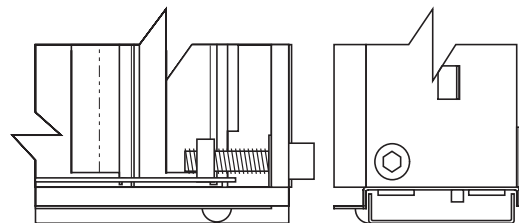
1. Material: Roll-formed, corrosion-resistant steel. Mill finish.
2. Designed to be installed independently of the air outlet in the duct behind the grille or diffuser. Double skin frame on two sides provides a friction fit. If sheet metal screws are used to secure the damper in place, care should be taken to avoid fouling the damper mechanism or distorting the frame. Supplied as standard with a screwdriver slot operator.
3. Gang operated blades on 1" (25) centers move simultaneously in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.

SPECIAL FEATURES:

_____.

OPTIONS:

Type EH External Hex Operator.



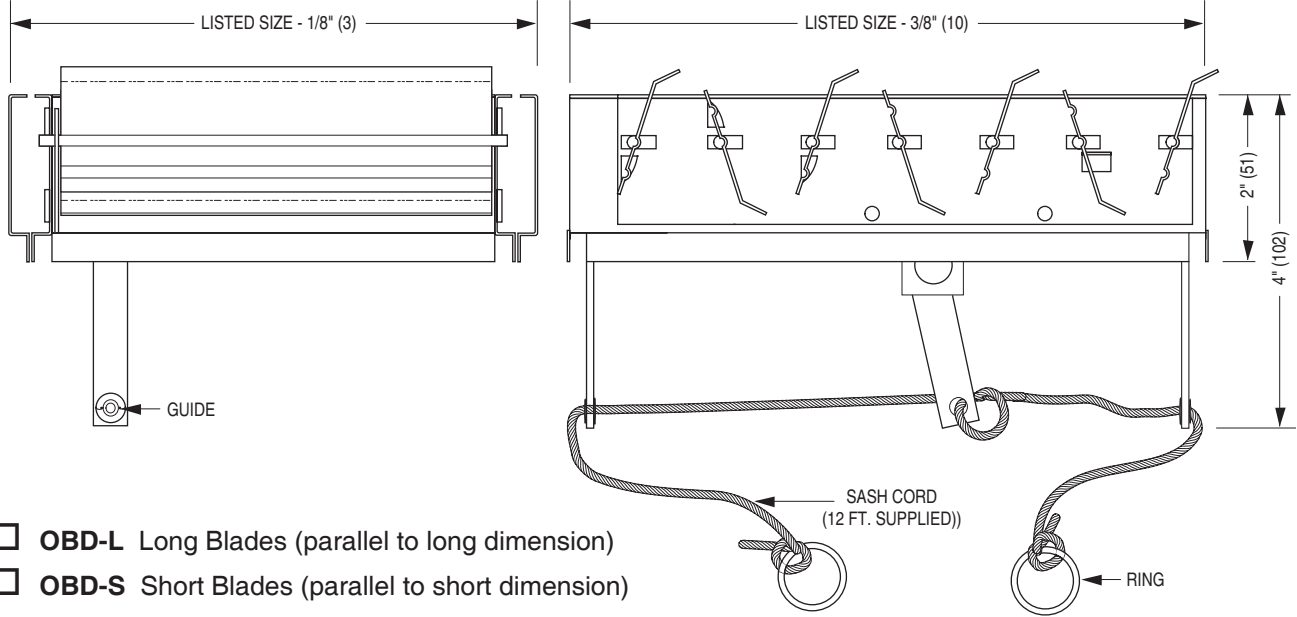
Used when face of damper is inaccessible. Operator penetrates duct wall to provide control. For use with 3/16" (5) Allen key wrench (by others).

SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	8 - 11 - 20	ACC.DIF/GR	26 - 8 - 99R	ACC.ABD-3	



AIR BALANCING DEVICES
OPPOSED BLADE DAMPER • STEEL • DUCT
MOUNTED FOR SQUARE AND RECTANGULAR NECKS
MODEL: OBDD TYPE CD

TYPE CD Cord Operator



- OBD-L** Long Blades (parallel to long dimension)
- OBD-S** Short Blades (parallel to short dimension)

Minimum Size = 6" x 4" (152 x 102)
 Maximum Size = 24" x 24" (610 x 610)

DESCRIPTION:

1. Material: Roll-formed, corrosion-resistant steel. Mill finish.
2. Designed to be installed independently of the air outlet in the duct behind the grille or diffuser. Double skin frame on two sides provides a friction fit. If sheet metal screws are used to secure the damper in place, care should be taken to avoid fouling the damper mechanism or distorting the frame. Supplied as standard with cord operator.
3. Gang operated blades on 1" (25) centers move simultaneously in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.

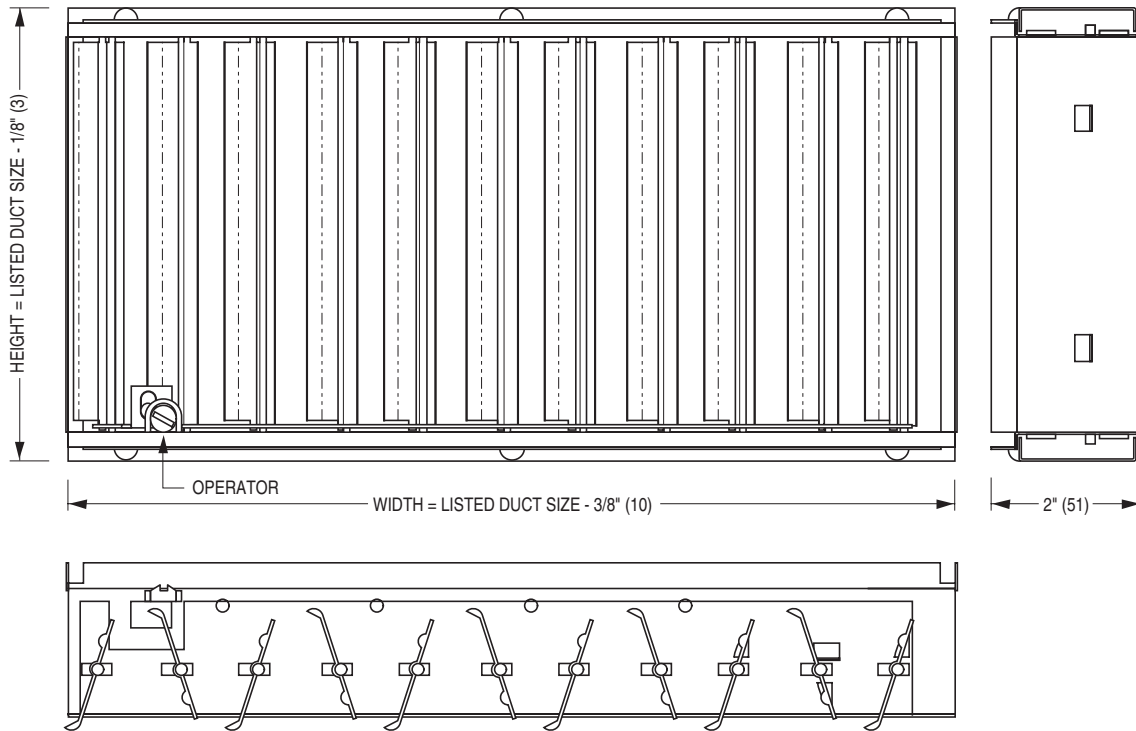
SPECIAL FEATURES:

SCHEDULE TYPE		Dimensions are in inches (mm).			
PROJECT					
ENGINEER	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR	8 - 11 - 20	ACC.DIF/GR	1 - 21 - 03	ACC.ABD-3A	



**AIR BALANCING DEVICES
OPPOSED BLADE DAMPER • DUCT MOUNTED
FOR SQUARE AND RECTANGULAR NECKS
MODEL: OBDD-A TYPE SL & EH**

TYPE SL Screwdriver Slot Face Operator (Standard)



OBD-A-L Long Blades (parallel to long dimension)

OBD-A-S Short Blades (parallel to short dimension)

Minimum Size = 4" x 2 1/2" (102 x 64)

Maximum Size = 24" x 24" (610 x 610)

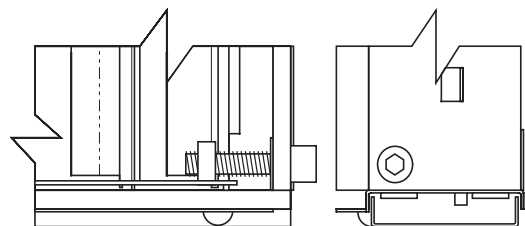
DESCRIPTION:

1. Material: Heavy gauge, extruded aluminum with miscellaneous steel components. Mill finish.
2. Designed to be installed independently of the air outlet in the duct behind the grille or diffuser. Double skin frame on two sides provides a friction fit. If sheet metal screws are used to secure the damper in place, care should be taken to avoid fouling the damper mechanism or distorting the frame. Supplied as standard with a screwdriver slot operator.
3. Gang operated blades on 1" (25) centers move simultaneously in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.

SPECIAL FEATURES:

OPTIONS:

Type EH External Hex Operator.



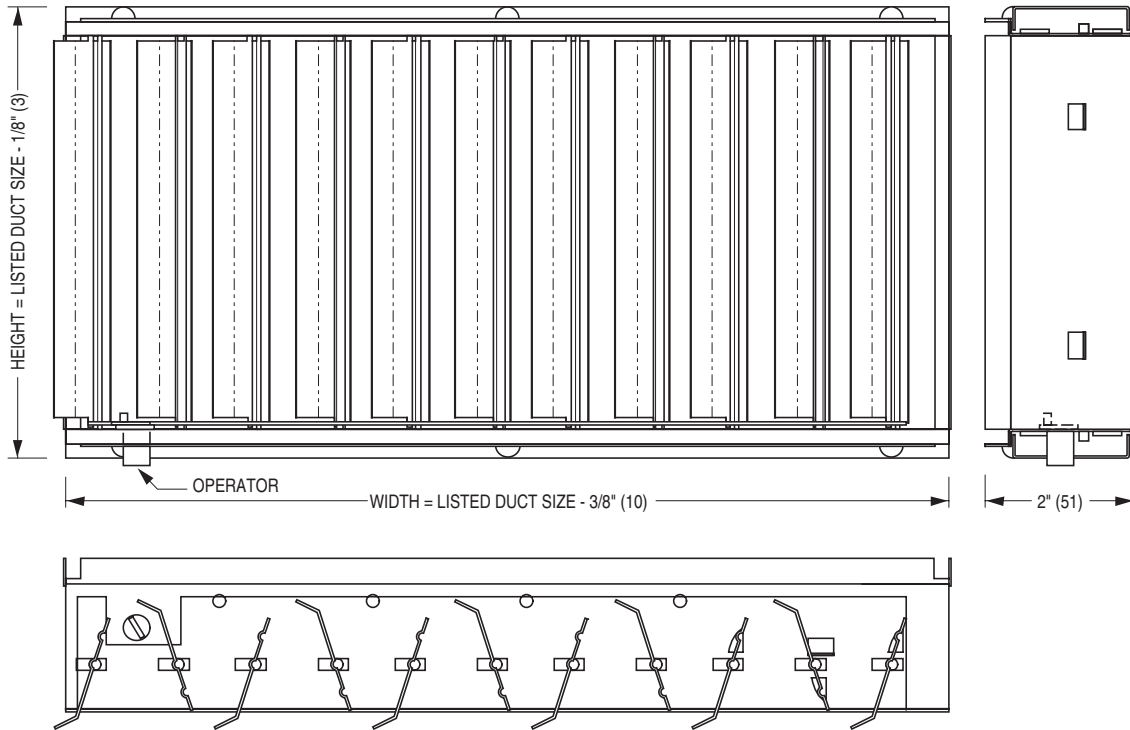
Used when face of damper is inaccessible. Operator penetrates duct wall to provide control. For use with 3/16" (5) Allen key wrench (by others).

SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	8 - 11 - 20	ACC.DIF/GR	26 - 8 - 99R	ACC.ABD-4	



AIR BALANCING DEVICES
OPPOSED BLADE DAMPER • DUCT MOUNTED
FOR SQUARE AND RECTANGULAR NECKS
MODEL: OBDD TYPE EN, QD & QX

TYPE EN External (nylon) Screwdriver Slot Operator



- OBDD-L** Long Blades (parallel to long dimension)
- OBDD-S** Short Blades (parallel to short dimension)

Minimum Size = 4" x 2 1/2" (102 x 64)
 Maximum Size = 24" x 24" (610 x 610)

DESCRIPTION:

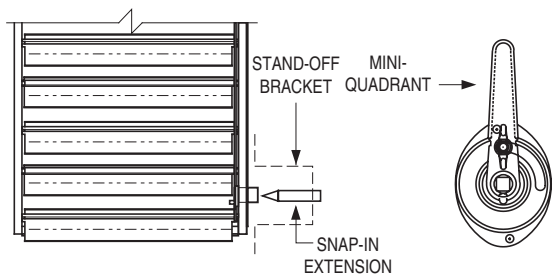
1. Material: Roll-formed, corrosion-resistant steel. Mill finish.
2. Designed to be installed independently of the air outlet in the duct behind the grille or diffuser. Double skin frame on two sides provides a friction fit. If sheet metal screws are used to secure the damper in place, care should be taken to avoid fouling the damper mechanism or distorting the frame.
3. Gang operated blades on 1" (25) centers move simultaneously in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.

SPECIAL FEATURES:

_____.

OPTIONS:

- Type QD Hand locking Quadrant Operator.
 - Type QX Hand locking Quadrant Operator with 2" (51) stand-off bracket.
- Order damper with blades parallel to horizontal duct dimension to have quadrant located on vertical side of duct.

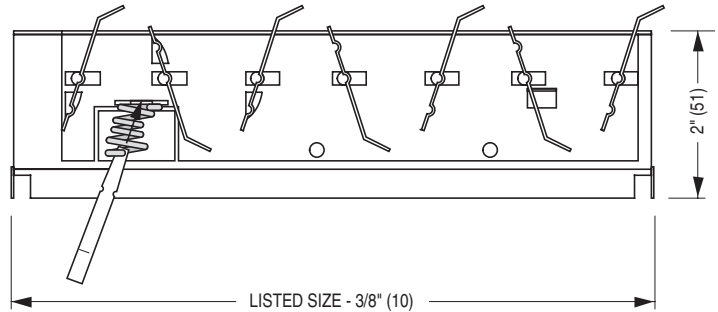
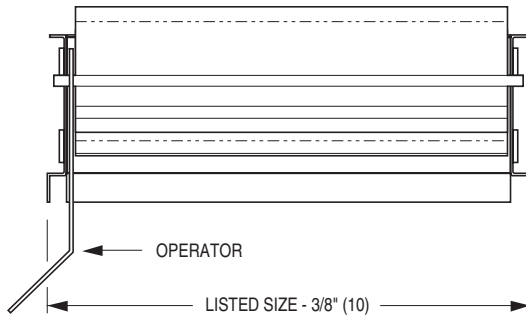


SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	8 - 11 - 20	ACC.DIF/GR	26 - 8 - 99R	ACC.ABD-5	



AIR BALANCING DEVICES
OPPOSED BLADE DAMPER • STEEL • NECK
MOUNTED FOR SQUARE AND RECTANGULAR NECKS
MODEL: OBD TYPE DL & GL

TYPE DL Lever Operator



- OBD-L** Long Blades (parallel to long dimension)
- OBD-S** Short Blades (parallel to short dimension)

Minimum Size = 6" x 4" (152 x 102)
 Maximum Size = 24" x 24" (610 x 610)

DESCRIPTION:

1. Material: Roll-formed, corrosion-resistant steel. Mill finish.
2. Type DL designed to mount directly on the neck of Nailor 6500, 6400 and 6200 Series Pattern Diffusers in square and rectangular neck applications. Supplied with steel barbed S-clips for easy field mounting. Type DL operating lever is accessible from the face side of the diffuser and permits balancing without removing the diffuser inner core assembly.
3. Gang operated blades on 1" (25) centers move simultaneously in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.

OPTIONS:

- Type GL** Lever Operator
 Similar in design except operator handle is straight. May be used on angled deflection 5100, 6100 and 7100 Series Return Grilles and 4900 Series Linear Bar Grilles. When used on linear bar grilles, dampers are sized: Nominal – 1/2" (13). In all cases; specify grille model. Blade orientation of damper must be opposite of grille. Grille Model _____.

SPECIAL FEATURES:

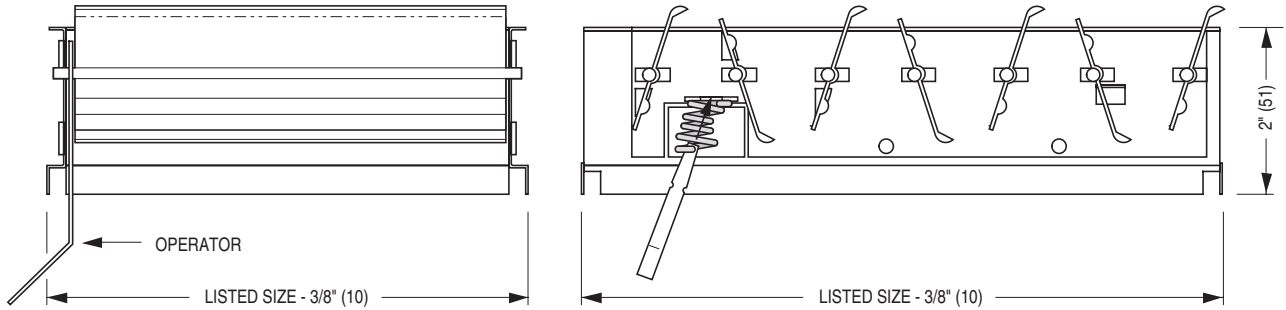
_____.

SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	8 - 11 - 20	ACC.DIF/GR	10 - 9 - 99R	ACC.ABD-6	



**AIR BALANCING DEVICES
OPPOSED BLADE DAMPER • ALUMINUM • NECK
MOUNTED FOR SQUARE AND RECTANGULAR NECKS
MODEL: OBD-A TYPE DL & GL**

TYPE DL Lever Operator



OBD-A-L Long Blades (parallel to long dimension)

OBD-A-S Short Blades (parallel to short dimension)

Minimum Size = 6" x 4" (152 x 102)

Maximum Size = 24" x 24" (610 x 610)

DESCRIPTION:

1. Material: Heavy gauge, extruded aluminum with miscellaneous steel components. Mill finish.
2. Type DL designed to mount directly on the neck of Nailor 6400 and 6200 Series Pattern Diffusers in square and rectangular neck applications. Supplied with steel barbed S-clips for easy field mounting. Type DL operating lever is accessible from the face side of the diffuser and permits balancing without removing the diffuser inner core assembly.
3. Gang operated blades on 1" (25) centers move simultaneously in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.

OPTIONS:

Type GL Lever Operator

Similar in design except operator handle is straight. May be used on angled deflection 5100 and 7100 Series Return Grilles and 4900 Series Linear Bar Grilles. When used on linear bar grilles, dampers are sized: Nominal – 1/2" (13). In all cases; specify grille model. Blade orientation of damper must be opposite of grille. Grille Model _____.

SPECIAL FEATURES:

_____.

SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	8 - 11 - 20	ACC.DIF/GR	10 - 9 - 99R	ACC.ABD-7	



AIR BALANCING DEVICES
OPPOSED BLADE DAMPER • STEEL
ROUND OR OVAL DUCT MOUNT
MODELS: OBDR & OBDO TYPE SL, EN & QD

MODEL:

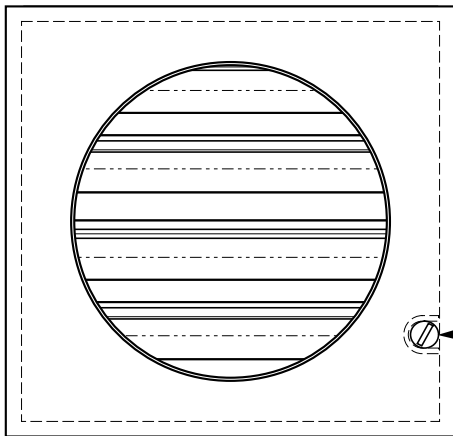
Model OBDR Round Duct Transition Collars

Model OBDO Oval Duct Transition Collars

OPERATOR TYPE:

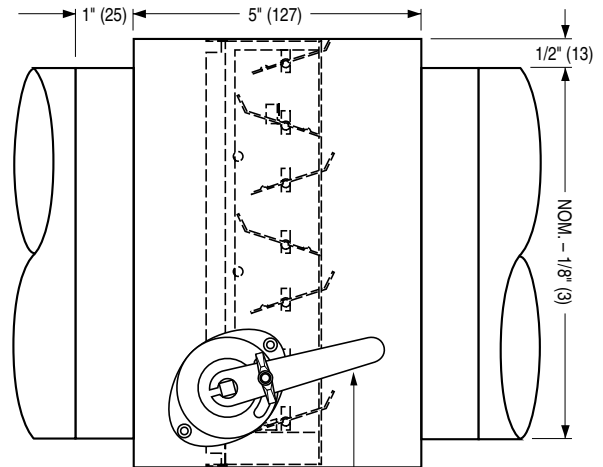
Type SL Screwdriver Slot (face) Operator

Type QD Hand Locking Quadrant



OPERATOR
(WITH
NYLON
PLUG)

Minimum Size = 3" (76) dia. or 4" x 3" (102 x 76) flat oval.
 Maximum Size = 20" dia. or 20" x 20" (508 x 508) flat oval.



OPERATOR

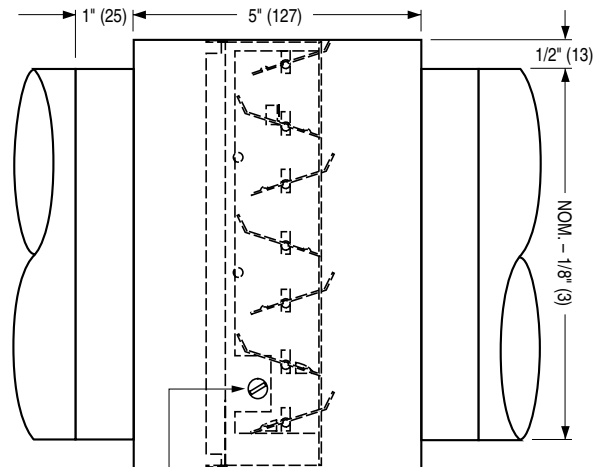
OPERATOR TYPE:

Type EN Screwdriver Slot (side) Operator

DESCRIPTION:

1. Material: Corrosion-resistant steel. Mill finish.
2. Opposed blade damper features roll-formed construction. Gang operated blades on 1" (25) centers move simultaneously only in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.
3. Damper is mounted in a transition enclosure with mounting collars sized for nominal duct connection. Choice of three operator types.

SPECIAL FEATURES:



OPERATOR

Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	20 - 9 - 99R	ACC.DIF	1-88/5100-24	ACC.ABD-8



**AIR BALANCING DEVICES
OPPOSED BLADE DAMPER • STEEL
ROUND OR OVAL DUCT MOUNT
MODELS: OBDR & OBDO TYPE CD**

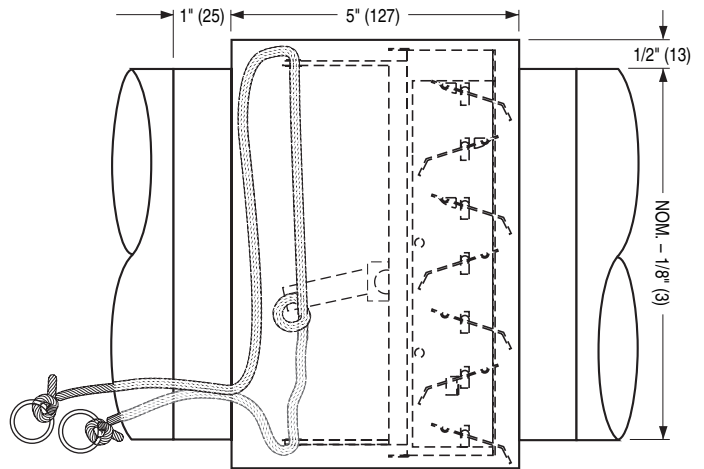
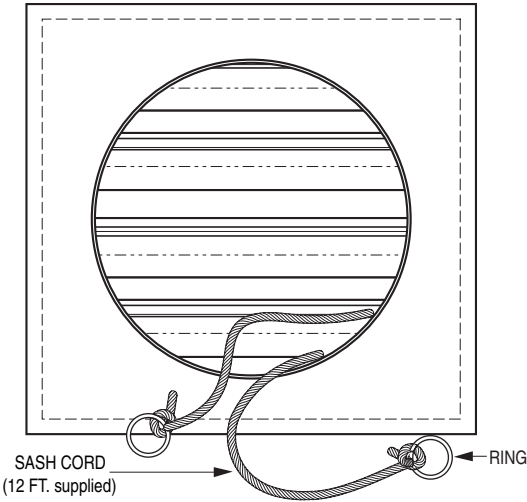
MODEL:

Model OBDR Round Duct Transition Collars

Model OBDO Oval Duct Transition Collars

OPERATOR TYPE:

Type CD Cord Operator



Minimum Size = 3" (76) dia. or 4" x 3" (102 x 76) flat oval.
Maximum Size = 20" dia. or 20" x 20" (508 x 508) flat oval.

DESCRIPTION:

1. Material: Corrosion-resistant steel. Mill finish.
2. Opposed blade damper features roll-formed construction. Gang operated blades on 1" (25) centers move simultaneously only in opposite directions and close at 45° to permit precise metering of the air with a minimal disturbance to the air pattern.
3. Damper is mounted in a transition enclosure with mounting collars sized for nominal duct connection. Designed to be installed independently of the air outlet in the duct behind the grille or diffuser. Supplied with a cord operator for remote operation from the grille or diffuser face.

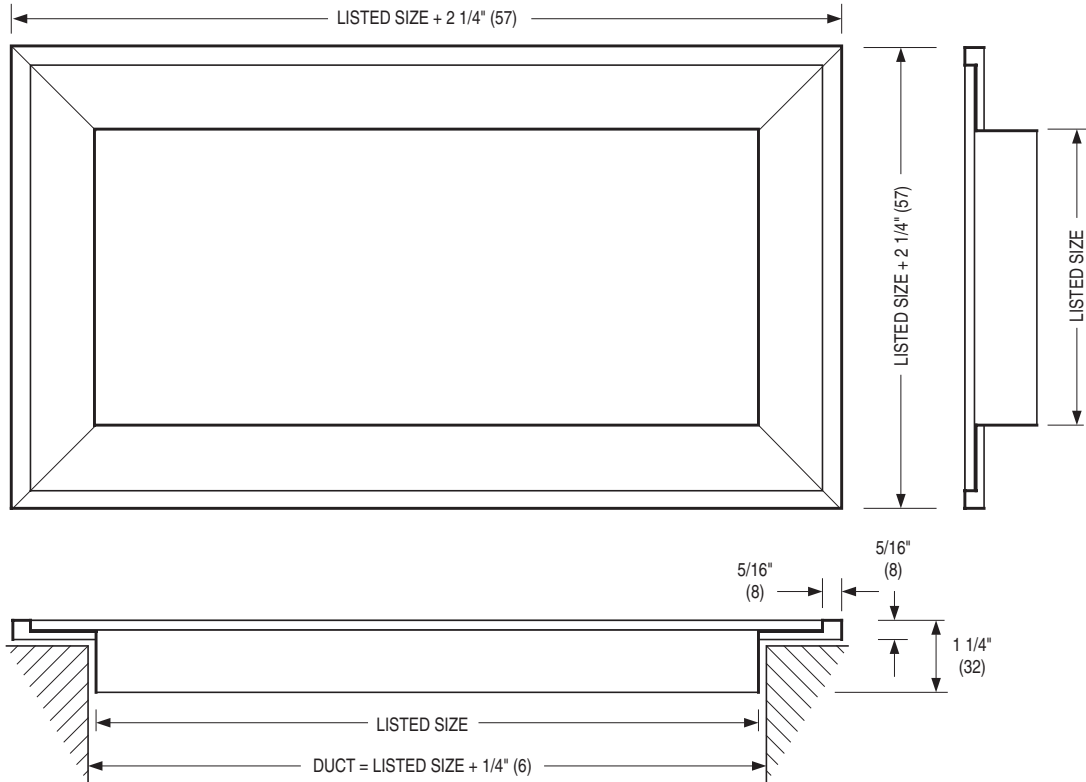
SPECIAL FEATURES:

_____.

SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	12 - 12 - 05	ACC.DIF	NEW	ACC.ABD-8A	

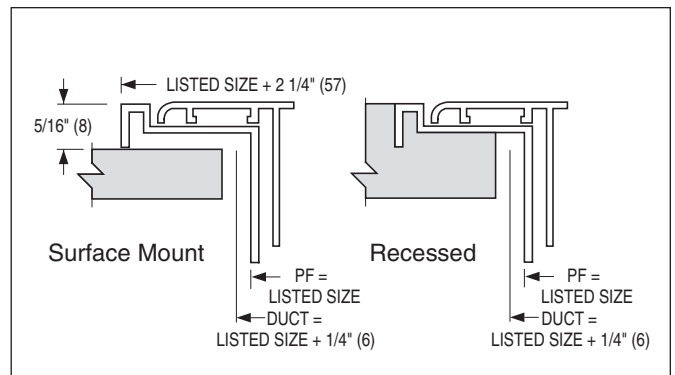


**GRILLES AND REGISTERS ACCESSORY
PLASTER/MOUNTING FRAME**
(FOR USE WITH MODEL SERIES 5100, 6100, AND 7100)
MODEL: PF



DESCRIPTION:

1. Construction: Extruded aluminum frame with staked and mitered mitered corners for strength.
2. Model PF Plaster frame provides a convenient and professional method for finishing off a grille or register opening. It provides a stable anchor for attachment, while enabling the grille or register to be readily removed and replaced without disturbing the finished surface of the wall or ceiling.
3. Frames can be installed before plastering and installed in a recessed fashion or surface mounted afterwards on plaster or other material.
4. Duct openings should be 1/4" (6) larger than nominal listed size to accommodate frame.
5. Finish: Baked enamel finish to match grille or register.



SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	10 - 24 - 01	ACC-GR	5100-11	ACC-PF	



SQUARE TO ROUND TRANSITION COLLARS

STEEL • DIFFUSER ACCESSORY

MODELS: SR, SR-O

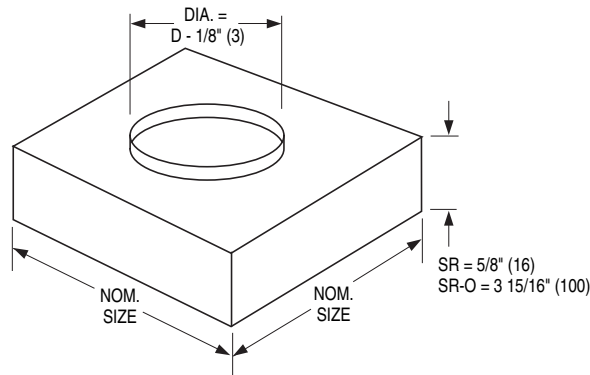
DESCRIPTION:

Transition collars are for use with any Nailor square neck diffuser where a round duct connection is desired. Round necks are sized for flexible or hard duct connection. SR's ship loose for field installation and are supplied with barbed S-clips.

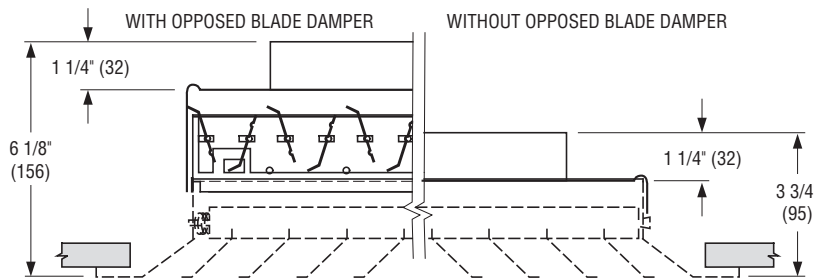
- Model SR
For direct attachment to diffuser neck. Round dampers may be added to neck.
- Model SR-O
For use over a square neck opposed blade damper.

CONSTRUCTION:

22 ga. corrosion-resistant steel.



Square Neck Size (inches)	Round Neck Size D (inches)
6 x 6	4, 5, 6
8 x 8	4, 5, 6, 7, 8
9 x 9	6, 7, 8, 9
10 x 10	6, 7, 8, 9, 10
12 x 12	6, 8, 9, 10, 12
14 x 14	6, 8, 9, 10, 12, 14
15 x 15	6, 8, 10, 12, 14, 15
16 x 16	6, 8, 10, 12, 14, 15, 16
18 x 18	6, 8, 10, 12, 14, 15, 16, 18
20 x 20	6, 8, 10, 12, 14, 15, 16, 18, 20
21 x 21	6, 8, 10, 12, 14, 15, 16, 18, 20
22 x 22	6, 8, 10, 12, 14, 16, 18, 20
24 x 24	6, 8, 10, 12, 14, 15, 16, 18, 20, 22, 24

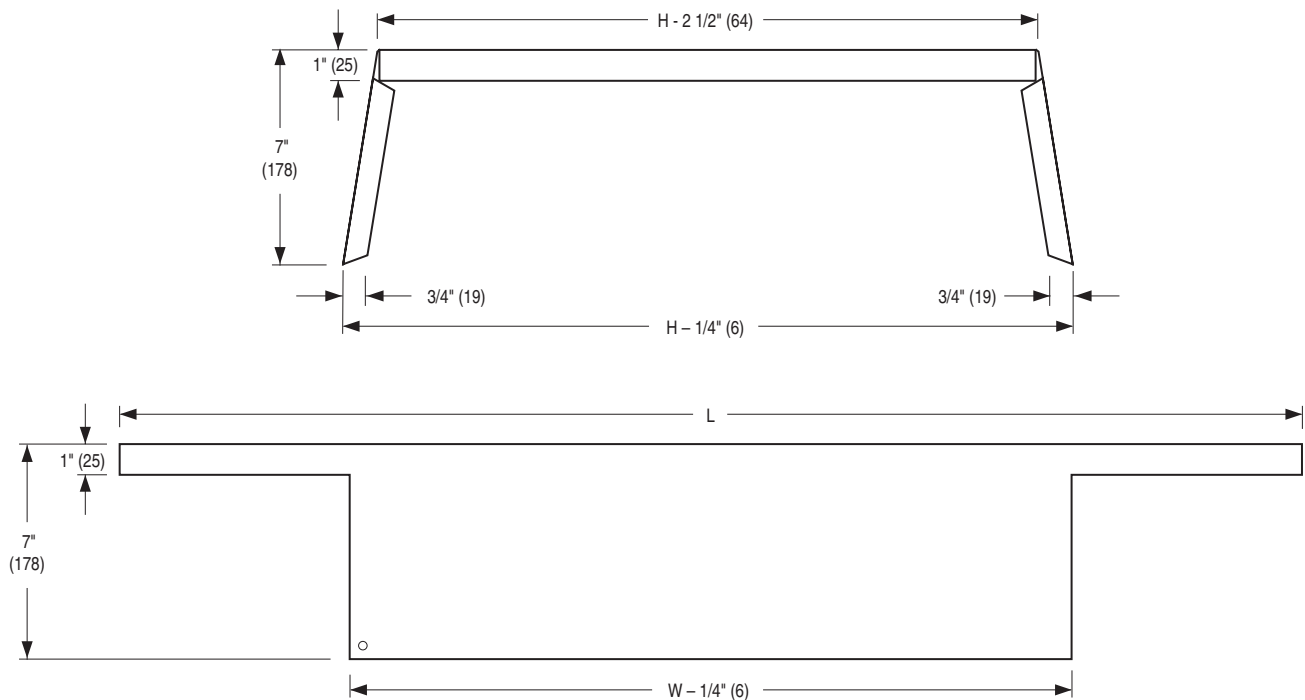


Example illustrated is Model 6500 Pattern Diffuser.

SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	3 - 4 - 16	ACC	10 - 27 - 05	ACC-SR	

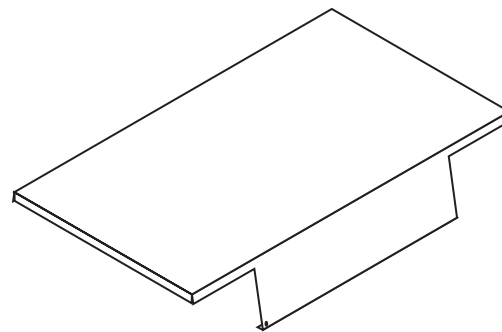


RETURN AIR CROSTALK ATTENUATOR
STEEL • RETURN AIR GRILLES
MODEL: RACA



DIMENSIONAL DATA:

CM Ceiling Module	W	H	L
12" x 12" (305 x 305)	12" (305)	12" (305)	26 1/2" (673)
24" x 12" (610 x 305)	24" (610)	12" (305)	38 1/2" (978)
20" x 20" (508 x 508)	20" (508)	20" (508)	34 1/2" (876)
24" x 24" (610 x 610)	24" (610)	24" (610)	38 1/2" (978)
30" x 30" (762 x 762)	30" (762)	30" (762)	44 1/2" (1130)
48" x 24" (1219 x 610)	48" (1219)	24" (610)	62 1/2" (1588)



DESCRIPTION:

Nailor Model RACA Return Air Crosstalk Attenuator is designed to greatly reduce the amount of sound transferred from the return air plenum through open vents or return grilles, into the adjoining space. For use with non-ducted return grilles in Lay-in T-Bar applications, the RACA allows return air to flow through with minimal pressure drop, while reducing the sound transmission by 7 – 10 NC. Constructed of 22 gauge galvanized steel, the compact, light weight design takes up minimal space in the return plenum, rests on the ceiling grid for easy installation and works effectively as a light shield. Available with 1" (25) fiberglass insulation as standard or optional 1" (25) fiber-free closed cell foam insulation. The RACA fits standard grille sizes and is ideal for interior offices, conference rooms, hotel rooms as well as recording studios.

FEATURES:

- Economical and light- weight design.
- Fits standard grille sizes.
- Easy installation sits on ceiling grid.
- Compact design takes up minimal space in return plenum.
- 1" (25) fiberglass insulation (standard).

OPTION:

- FF1** 1" (25) Fiber-free closed cell foam.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
11 - 7 - 19	ACC	12 - 7 - 15	RACA

Nailor offers a selection of standard colors and finishes available on our grilles, registers and diffusers. For painted finishes, our state-of-the-art paint systems provide environmentally friendly finishing solutions with uniform coverage and coating thickness. The result is an exceptionally durable finish that resists scratching, corrosion and general wear. Additional facilities for special requirements, as well as a selection of anodized or brushed finishes, complete our ability to provide unmatched beauty and durability for any application.

NAILOR POWDER COAT PROPERTIES

FILM THICKNESS	2.0 to 3.0 mils
HARDNESS	2 H
IMPACT RESISTANCE	Direct: 160 inch - lbs. Reverse 160 inch - lbs.
SALT SPRAY	1000 hours

ELECTROCOATING PROPERTIES

FILM THICKNESS	.8 to 1.2 mils
HARDNESS	HB TO H
IMPACT RESISTANCE	80 inch - lbs
SALT SPRAY	100 hours


POWDER COAT

Nailor's powder coat is a high-tech thermosetting polyester powder coating with superior physical properties that provide excellent color and gloss retention. The finish offers extreme durability and hardness that resists scratching, chipping and general wear. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse before a final powder coat finish is applied and baked. The environmentally friendly Nailor powder coat system assures uniform coverage and color consistency resulting in a long lasting superior finish. Colors, including simulated anodizing, which is far more economical than color anodizing, can be selected from Nailor's standard color chart or non-standard colors and can be matched from sample chips provided to Nailor.

ELECTROCOATING

E-Coat is an environmentally friendly coating that provides complete coverage and a wide range of performance properties, formulated to meet corrosion, durability and other performance specifications. Electrocoating is a highly automated process in which paint is electrically deposited onto a metal foundation. Film build thickness is uniform and overall application efficiencies are in excess of 90%. Paint is consistent on all part-to-part surfaces, preventing sags, runs or drips. E-Coat offers flexibility, better first yield pass and quicker production times compared to other forms of paint applications. Electrocoating is an excellent solution that offers superior properties and uniform finish.

CLEAR ANODIZING (Aluminum products only)

Clear anodizing is a clear oxide coating that exemplifies an aluminum surface's natural oxide coating producing a hard, scratch resistant surface that is resistant to general wear and mild chemicals. The process provides a natural looking, virtually maintenance free finish that will endure for many years.

COLOR ANODIZING (Aluminum products only)

Color anodizing is an electrolytic process where, after standard anodizing procedures, colored metallic pigments penetrate the oxide surface pores producing a corrosion resistant, colorfast finish. The process results in a natural metallic appearance that requires little maintenance.

BRUSHED AND CLEAR COAT

Available on specific aluminum products (consult applicable product page for availability). Surface is brushed to achieve a scratch finish texture before being degreased and chemically cleaned. A clear lacquer coating is then applied to provide a durable protective finish.

#4 BRUSHED SATIN POLISHED (Stainless Steel products only)

Surface is polished to ASTM A480 #4 standard to achieve a bright durable finish that is resistant to mild chemicals and corrosion. A final coating is not required due to the inherent anti-corrosion properties of the stainless steel.

PRIME COAT

Prime coat provides a stable base for painting in the field. Surface pretreatment includes degreasing and a chemical cleaning before an alkyd prime coat is applied. After a thorough cleaning for dust, etc. that can contaminate the final finish and cause premature flaking or peeling, finish coat should be field applied as soon as possible.

PAINT PREPARED ALUMINUM (Aluminum products only)

Allows for field applied paint. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse. Finish coat should be field applied as soon as possible.

MILL FINISH

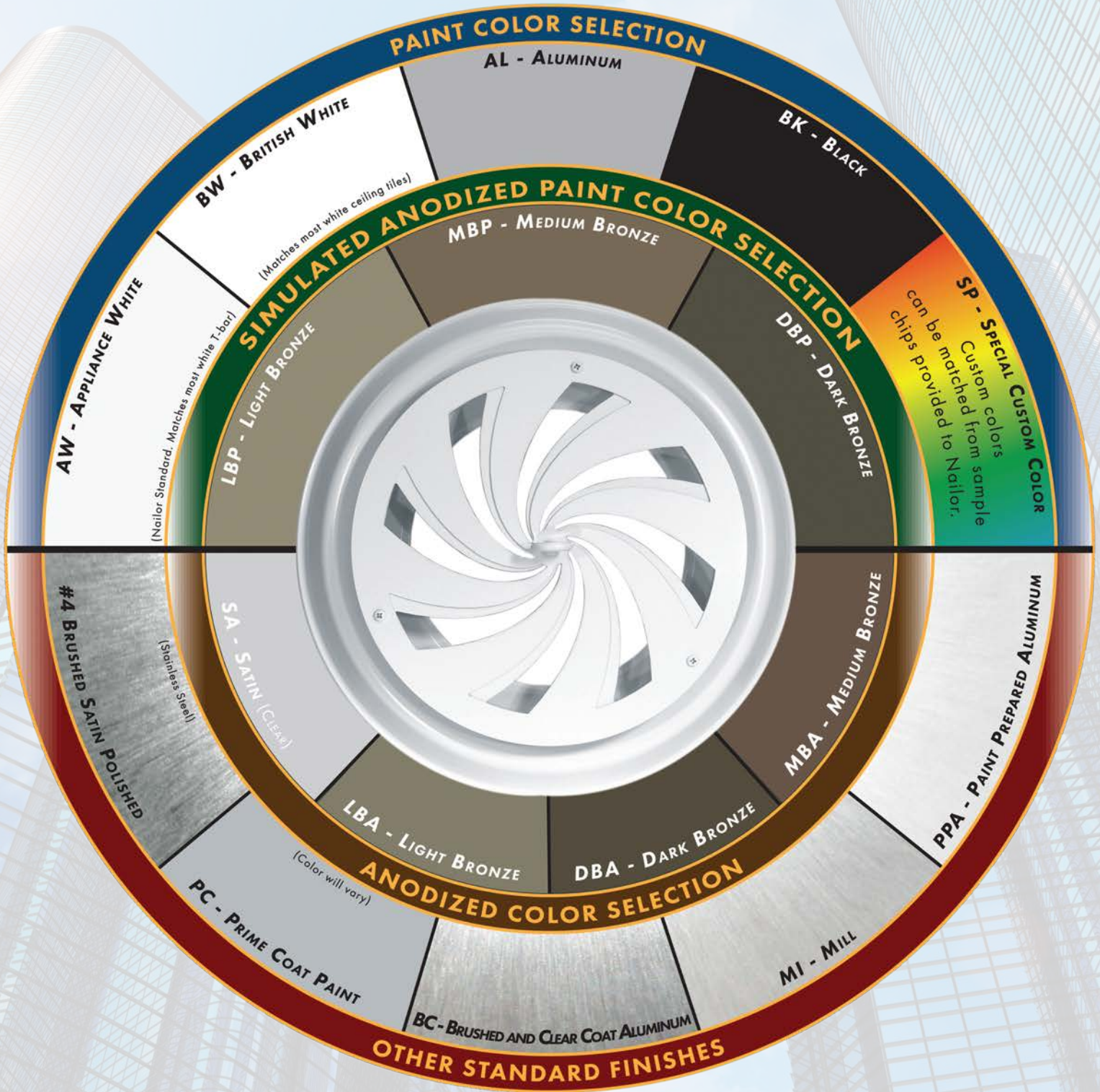
Surface is left untreated and requires cleaning, degreasing, etc. in the field before final finish can be applied if required.



Nailor[®]
Industries Inc.

STANDARD AND OPTIONAL FINISHES FOR GRILLES AND DIFFUSERS

The following standard colors and finishes are available on applicable Nailor air distribution products. Consult individual product pages for availability



The pictured finishes have been represented as best as possible within printing limitations. However, actual finish may vary. Contact your Nailor representative for a color chip sample on the material specified for a more accurate representation.

DBK - Black (for registers ordered with factory mounted dampers) - **BA** - Perforated Diffusers (4300 series only) Appliance White (AW) face with black back pan and pattern controllers.

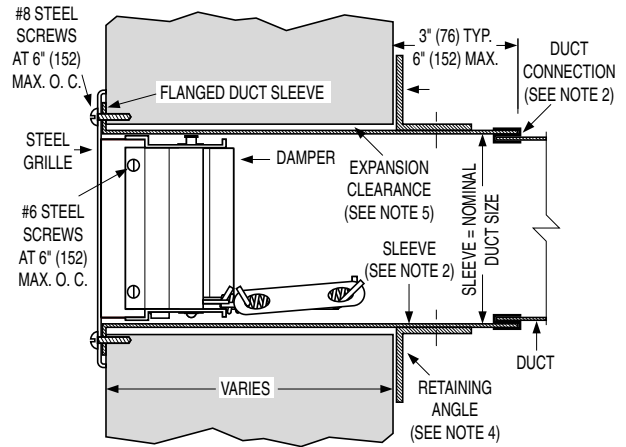
"Complete Air Control and Distribution Solutions."

WGDSOF2015

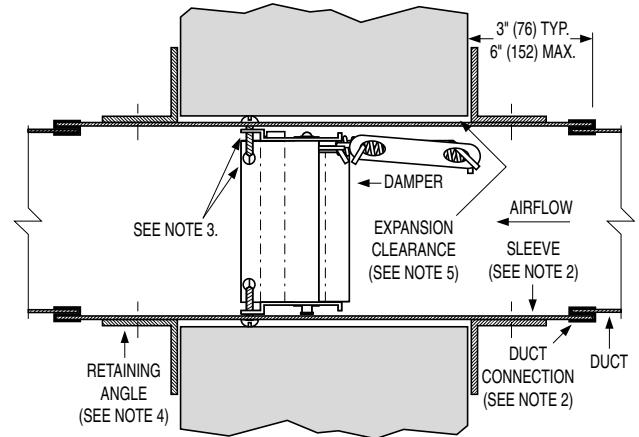
www.nailor.com

NOTES:

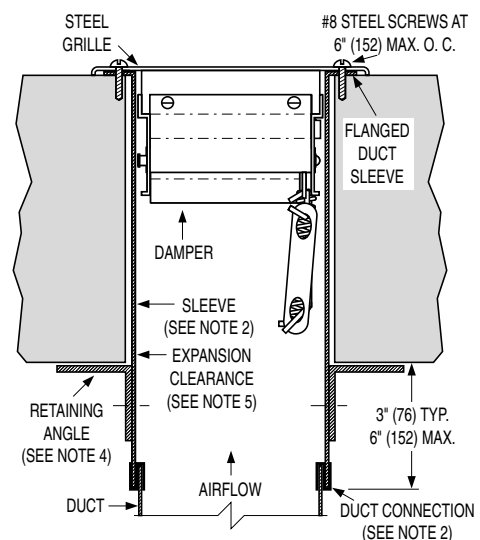
- Installation shall be in accordance with the appropriate requirements of the local building code having jurisdiction.
- Sleeve:** Gauge shall conform to SMACNA or ASHRAE standards and shall not be less than the gauge of the duct to which it is attached when one of the following duct-sleeve connections (break-away joint) is used; plain 'S' slip, hemmed 'S' slip, double 'S' slip, inside slip joint, standing S and reinforced standing S. Drive slip may be used on sides only on dampers up to 20" (508) in height. If any other duct connection is used, sleeve thickness shall be a minimum of 0.054" (16 ga.) (1.4) for dampers up to 36" (914) in width and 24" (610) in height and 0.068" (14 ga.) (1.73) for larger dampers.
- Secure damper to sleeve** with #6 min. (M3-5) steel screws, 1/4" (M6) nuts and bolts, 1/2" (13) long welds or 3/16" (5) steel rivets at max. 6" (152) o.c. and 2" (51) max. from the corner of the damper on all four sides. Alternatively, directly attach damper to steel grille with #6 (M3-5) steel screws at 6" (152) max. o.c.
- Retaining angles** shall be a minimum of 1 1/2" x 1 1/2" x 0.059" (16 ga.) (38 x 38 x 1.5) and must overlap opening by a minimum of 1" (25) on all four sides and cover corners of opening. Attach to sleeve with #10 (M5) steel screws, 1/4" (M6) bolts and nuts, 1/2" (13) long welds or 3/16" (5) steel rivets at 8" (203) max. o.c.
- Expansion clearance** between the sleeve and wall or floor shall be a minimum of 1/8" (3) per foot of width and height of the sleeve. The maximum size of the opening shall be 1/2" (13) larger in either dimension than the allowable minimum.
- Minimum size:** 6" x 4" (152 x 102).
Maximum size: 24" x 12" (610 x 305) single section; 24" x 24" (610 x 610) or 48" x 12" (1219 x 305) as a factory assembled multiple section.




SIDEWALL INSTALLATION WITH GRILLE



SIDEWALL OR FLOOR INSTALLATION DUCT MOUNTED



FLOOR INSTALLATION WITH GRILLE

 <p>Warnock Hersey</p>	<p>LISTED FIRE DAMPER - 1 1/2 HR. RATING</p> <p>TESTED IN ACCORDANCE WITH ULC S112/UL555</p>	<p>NAILOR INDUSTRIES INC.</p> <p>TORONTO, ONTARIO HOUSTON, TEXAS</p>
	<p>WH-</p> <p>DO NOT REMOVE OR COVER LABEL NE PAS ENLEVER OU COUVRIR LETIQUETTE</p>	
<p>FOR INSTALLATION IN VERTICAL OR HORIZONTAL POSITION, WITH OR WITHOUT STEEL REGISTER.</p>		

Dimensions are in inches (mm).

SCHEDULE TYPE:			
PROJECT:			
ENGINEER:			
CONTRACTOR:			
DATE	C SERIES	SUPERSEDES	DRAWING NO.
17 - 8 - 99R	ACC. GR.	2 - 95	ACC.907FL-2