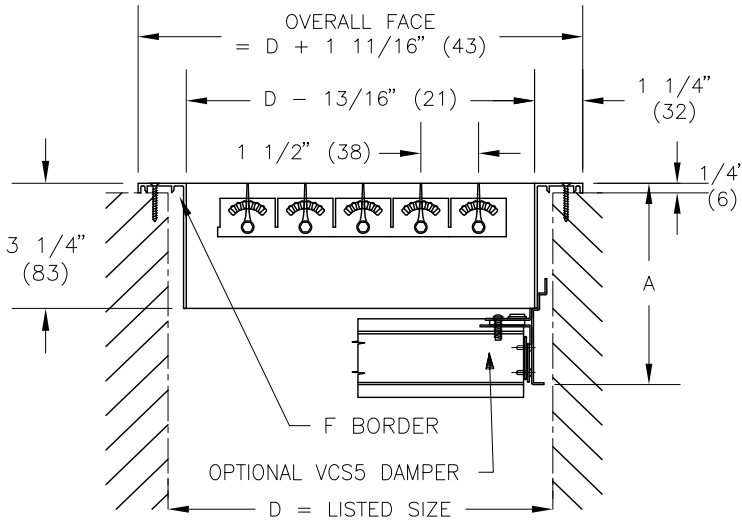
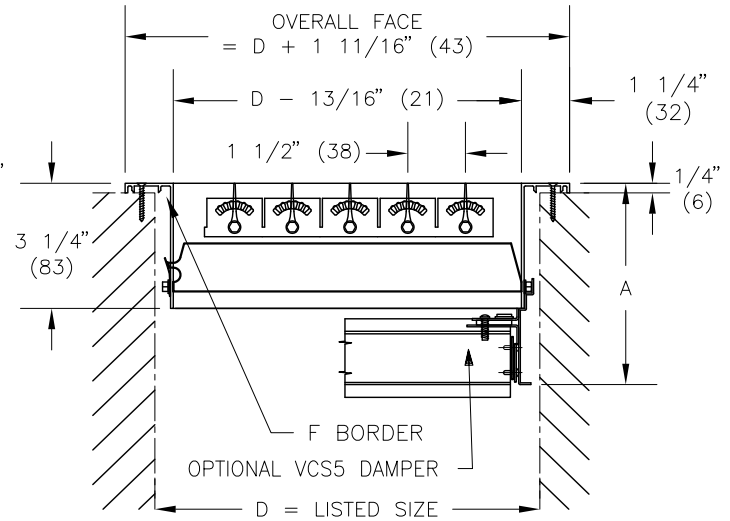


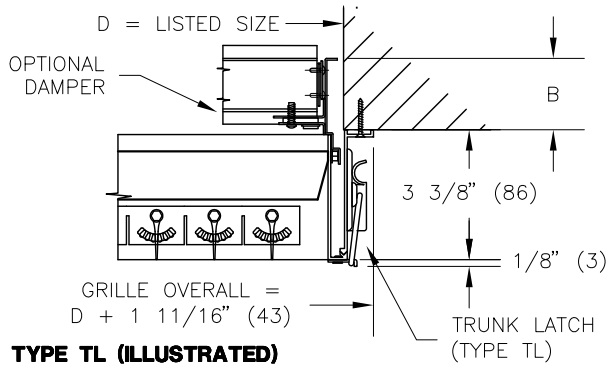
**150 SERIES INDUSTRIAL GRILLES & REGISTERS**



**MODEL 151**  
SINGLE DEFLECTION



**MODEL 152**  
DOUBLE DEFLECTION



**TYPE TL (ILLUSTRATED)**  
OPTIONAL TRUNK LATCH  
BORDER/FRAME COMBINATION

**TYPE IF**  
OPTIONAL INVERTED FRAME (NO LATCH - FRAME AND  
BORDER PERMANENTLY FASTENED)

OPTIONAL DAMPER	A	B
VCS3	4 3/4" (120)	1 1/2" (38)
VCS5	6" (152)	2 21/32" (67)

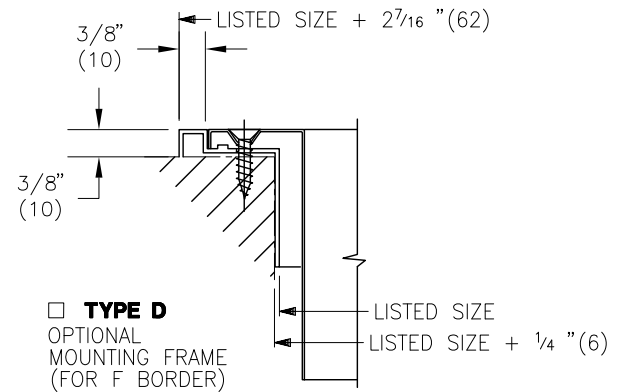
**FINISH:**

- B15 ALUMINUM
  - B12 WHITE
  - MILL FINISH
- (OPTIONAL FINISHES AVAILABLE)

**MATERIAL:**

- BLADES, FRAMES, MULLIONS: EXTRUDED ALUMINUM
- INDEXING PLATE: STAINLESS STEEL
- HARDWARE: COATED STEEL
- DAMPER: PAINTED STEEL

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.



**TYPE D**  
OPTIONAL MOUNTING FRAME (FOR F BORDER)

**OPTIONS:**

- VCS3 OPPOSED BLADE DAMPER (STEEL)
- VCS5 HEAVY DUTY OPPOSED BLADE DAMPER (STEEL)
- L FRONT BLADES PARALLEL TO LONG DIMENSION
- S FRONT BLADES PARALLEL TO SHORT DIMENSION
- 0 NO MOUNTING SCREW HOLES

**NOTES:**

- BLADES INDEX AND LOCK INTO POSITION AT 0, 15, 30, AND 45 DEGREE DEFLECTIONS IN BOTH DIRECTIONS
- MULLIONS PROVIDED WHEN GRILL DIMENSIONS EXCEED 20" (508)
- AVAILABLE SIZES: MIN 6" x 4" (152x102)  
MAX 48" x 48" (1219x1219)
- TYPE A FASTENING (COUNTERSUNK SCREWHOLES FOR #8 SCREW) SUPPLIED PER FACTORY STANDARD.
- FACTORY TOLERANCE: ± 1/32" (1)

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

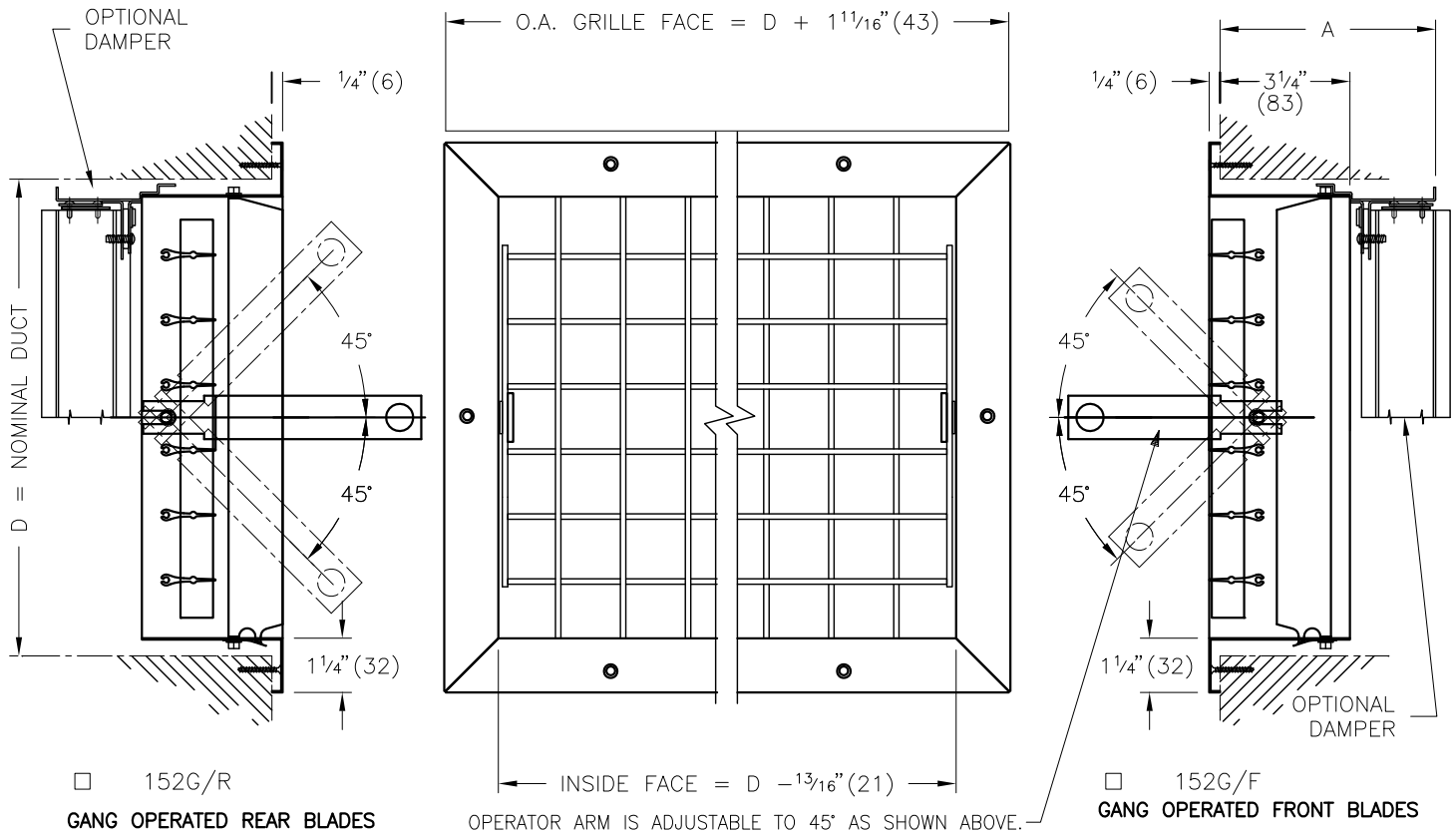


**150 SERIES**  
INDUSTRIAL SUPPLY  
GRILLES & REGISTERS

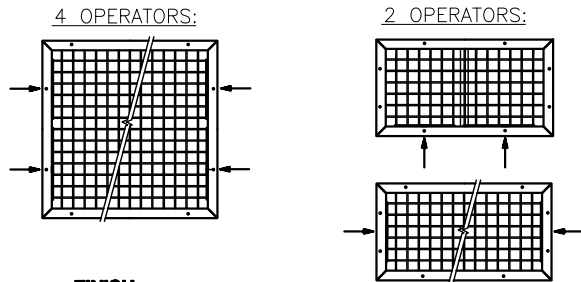
222040

2009/11/12

**152G INDUSTRIAL GRILLES AND REGISTERS  
WITH FRONT OR REAR GANG OPERATED BLADES**



TYPICAL GANG OPERATOR ARRANGEMENTS:



**FINISH:**

- B15 ALUMINUM
- B12 WHITE
- MILL FINISH
- (OPTIONAL FINISHES AVAILABLE)

**MATERIAL:**

- GRILLE FRAME, BLADES, AND OPERATOR ASSEMBLY: EXTRUDED ALUMINUM
- SCREWS AND RIVETS: PLATED STEEL
- INDEXING PLATES: STAINLESS STEEL
- OPTIONAL DAMPER: PAINTED STEEL CONSTRUCTION

OPTIONAL DAMPER	A
VCS3	4 3/4" (120)
VCS5	6" (152)

**OPTIONS:**

- L FRONT BLADES PARALLEL TO LONG DIMENSION
- S FRONT BLADES PARALLEL TO SHORT DIMENSION
- VCS3 OPPOSED BLADE DAMPER (STEEL)
- VCS5 HEAVY DUTY OPPOSED BLADE DAMPER (STEEL)
- 0 NO MOUNTING SCREW HOLES
- D TYPE D OPTIONAL MOUNTING FRAME

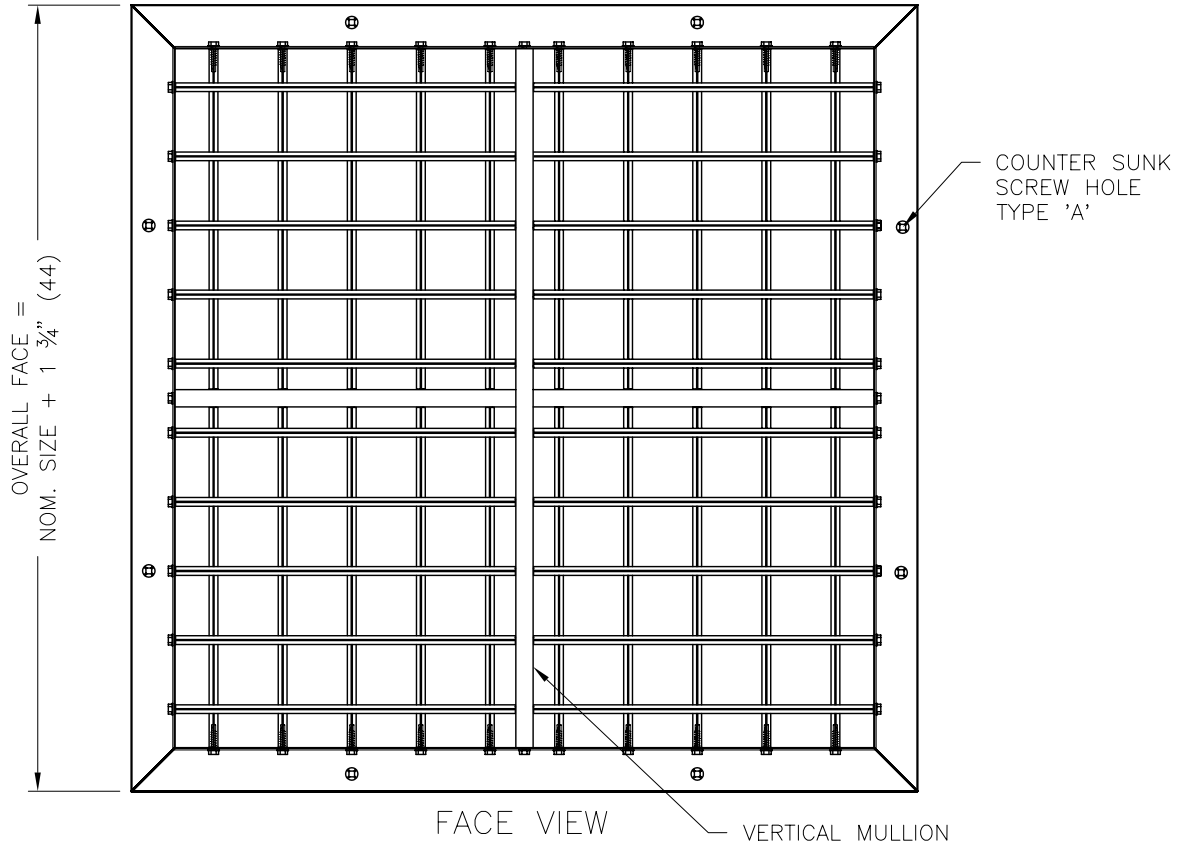
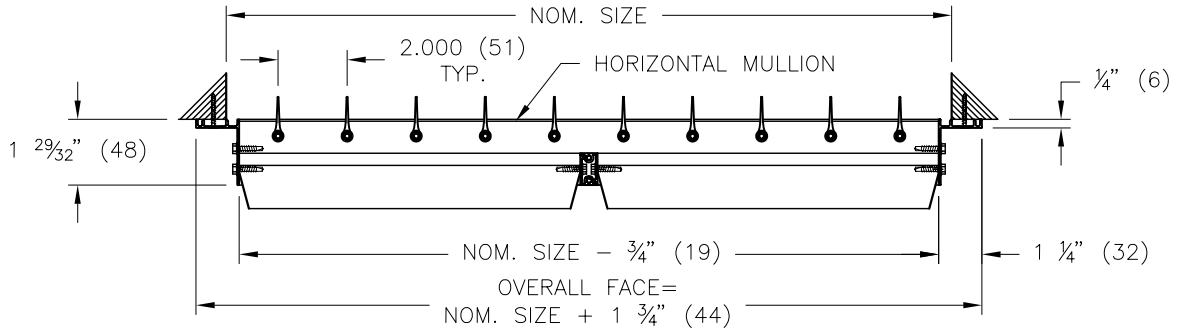
**NOTES:**

- GANG OPERATED FRONT/REAR BLADES DEFLECT AIR UP TO 45° IN EITHER DIRECTION, 1 OPERATOR SHOWN ABOVE.
- INDIVIDUALLY ADJUSTABLE REAR/FRONT BLADES INDEX & LOCK INTO POSITION AT 0, 15, 30 & 45 DEGREE DEFLECTION.
- MAXIMUM GANGED BLADE LENGTH = 40" (1016) NOM.
- MAXIMUM MOVEMENT BAR LENGTH = 20" (508) NOM. GRILLES EXCEEDING 20" (508) NOMINAL REQUIRE MULTIPLE OPERATORS (AS SHOWN).
- TYPE A FASTENING (COUNTERSUNK SCREW HOLES FOR #8 SCREWS) SUPPLIED PER FACTORY STANDARD
- MIN SIZE 6"x6" (152x152), MAX SIZE 48"x36" (1219x946)
- FACTORY TOLERANCE  $\pm 1/32$ " ( $\pm 1$ mm)

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

<b>PROJECT:</b>		<b>PRICE®</b>	
<b>ENGINEER:</b>			<b>152G SERIES</b> INDUSTRIAL GRILLES AND REGISTERS WITH FRONT OR REAR GANG OPERATED BLADES
<b>CUSTOMER:</b>		219675	
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	2009/11/12	

**200 SERIES**



**FINISH:**

- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

**MATERIAL:**

- BLADES, FRAMES, MULLIONS: EXTRUDED ALUMINUM
- HARDWARE: COATED STEEL
- FRAME:
  - IF - 1 1/4" (32) INVERTED FRAME

**OPTIONS:**

- FRONT BLADES PARALLEL TO LONG DIMENSION
- FRONT BLADES PARALLEL TO SHORT DIMENSION
- FASTENING:
  - TYPE A - COUNTERSUNK SCREW MOUNTING
  - TYPE O - NO HOLES SUPPLIED

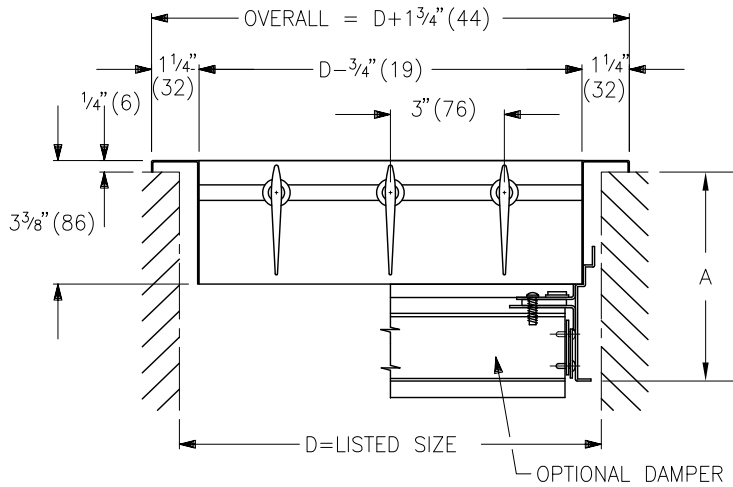
**NOTES:**

- MULLIONS PROVIDED WHEN GRILLE DIMENSIONS EXCEED 20" (508)
- AVAILABLE SIZES: MIN 6" x 4" (152x102), MAX 48" x 48" (1219x1219)
- TYPE A FASTENING (COUNTERSUNK SCREWHOLES FOR #8 SCREW) SUPPLIED PER FACTORY STANDARD.
- FACTORY TOLERANCE: ± 1/32" (1)

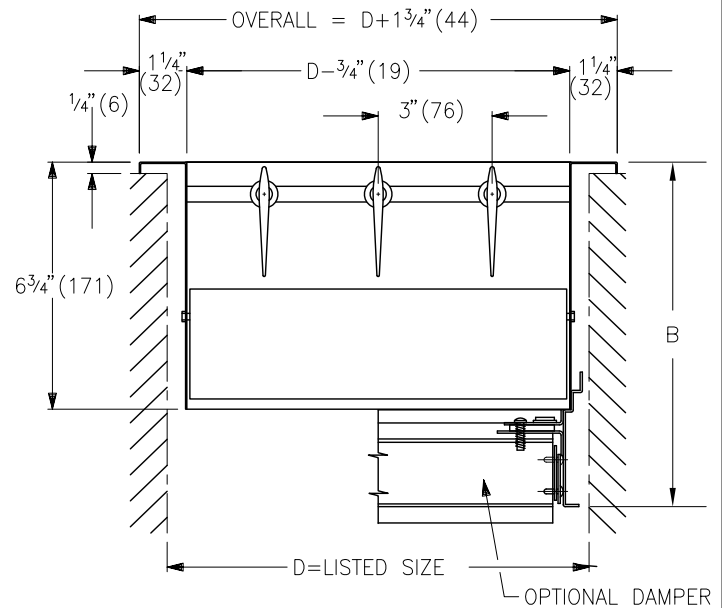
ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

<b>PROJECT:</b>		<b>PRICE®</b>	
<b>ENGINEER:</b>		<i>RV</i>	<b>200</b>
<b>CUSTOMER:</b>		251265	SUPPLY GRILLE
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	FEB 2009	

**300 SERIES INDUSTRIAL GRILLES & REGISTERS**



**MODEL 301**  
SINGLE DEFLECTION



**302**  
DOUBLE DEFLECTION

OPTIONAL DAMPER	A	B
VCS3	5" (127)	8 3/8" (213)
VCS5	6 1/4" (159)	9 5/8" (244)

BLADE ORIENTATION – PARALLEL TO:

- L = LONG DIMENSION
- S = SHORT DIMENSION

**DAMPER**

- VCS3 OPPOSED BLADE DAMPER (STEEL)
- VCS5 HEAVY DUTY OPPOSED BLADE DAMPER (STEEL)

**FINISH:**

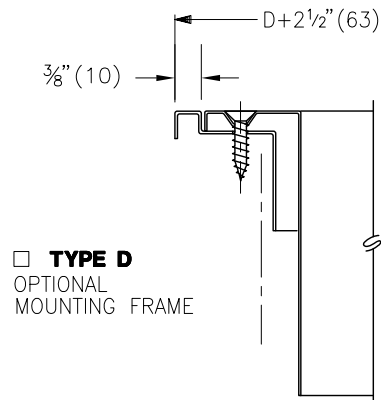
- B15 ALUMINUM
  - B12 WHITE
- (OPTIONAL FINISHES AVAILABLE)

**MATERIAL:**

- FRAMES: STEEL
- AIRFOIL BLADES: EXTRUDED ALUMINUM

**OPTION:**

- 0 NO MOUNTING SCREW HOLES



**TYPE D**  
OPTIONAL  
MOUNTING FRAME

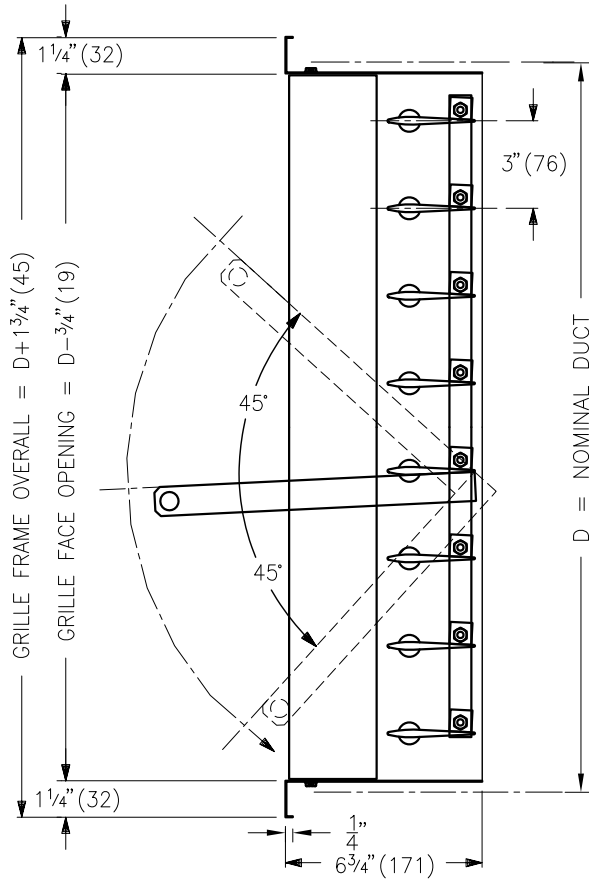
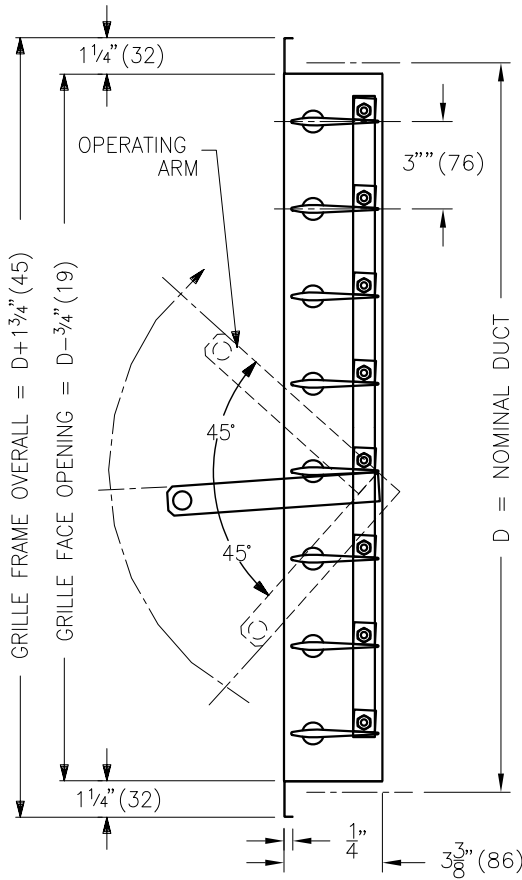
**NOTES:**

- TYPE A FASTENING—COUNTERSUNK SCREW HOLES FOR #8 S.M.S PER FACTORY STANDARD.
- AVAILABLE SIZES: MIN 6" x 6" (152x152)  
MAX 48" x 48" (1219x1219)
- FACTORY TOL: ± 1/32 (1)

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

<b>PROJECT:</b>		<b>PRICE</b> <sup>®</sup>	
<b>ENGINEER:</b>			
<b>CUSTOMER:</b>		222038	<b>300 SERIES</b> INDUSTRIAL SUPPLY GRILLES & REGISTERS
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	2009/11/12	

**301G SINGLE DEFLECTION &  
302G DOUBLE DEFLECTION INDUSTRIAL GRILLES**



301G SINGLE DEFLECTION SHOWN

302G DOUBLE DEFLECTION (REAR OPERATED) SHOWN

**301G** SINGLE DEFLECTION  
GANG OPERATED BLADES DEFLECT  
AIR 45° IN EITHER DIRECTION

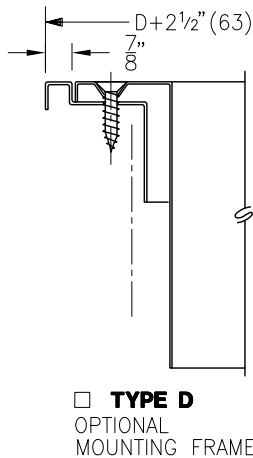
BLADE ORIENTATION - PARALLEL TO:  
 L = LONG DIMENSION  
 S = SHORT DIMENSION

**FINISH:**

- B15 ALUMINUM
- B12 WHITE
- (OPTIONAL FINISHES AVAILABLE)

**MATERIAL:**

- FRAMES: HEAVY GAUGE STEEL
- AIRFOIL BLADES: EXTRUDED ALUMINUM
- OPERATING ARM & MOVEMENT BAR: ALUMINUM



**TYPE D**  
OPTIONAL  
MOUNTING FRAME

**302G** DOUBLE DEFLECTION  
GANG OPERATED BLADES DEFLECT  
AIR 45° IN EITHER DIRECTION

OPERATOR LOCATION:  
 F = FRONT  
 R = REAR

**DAMPER**

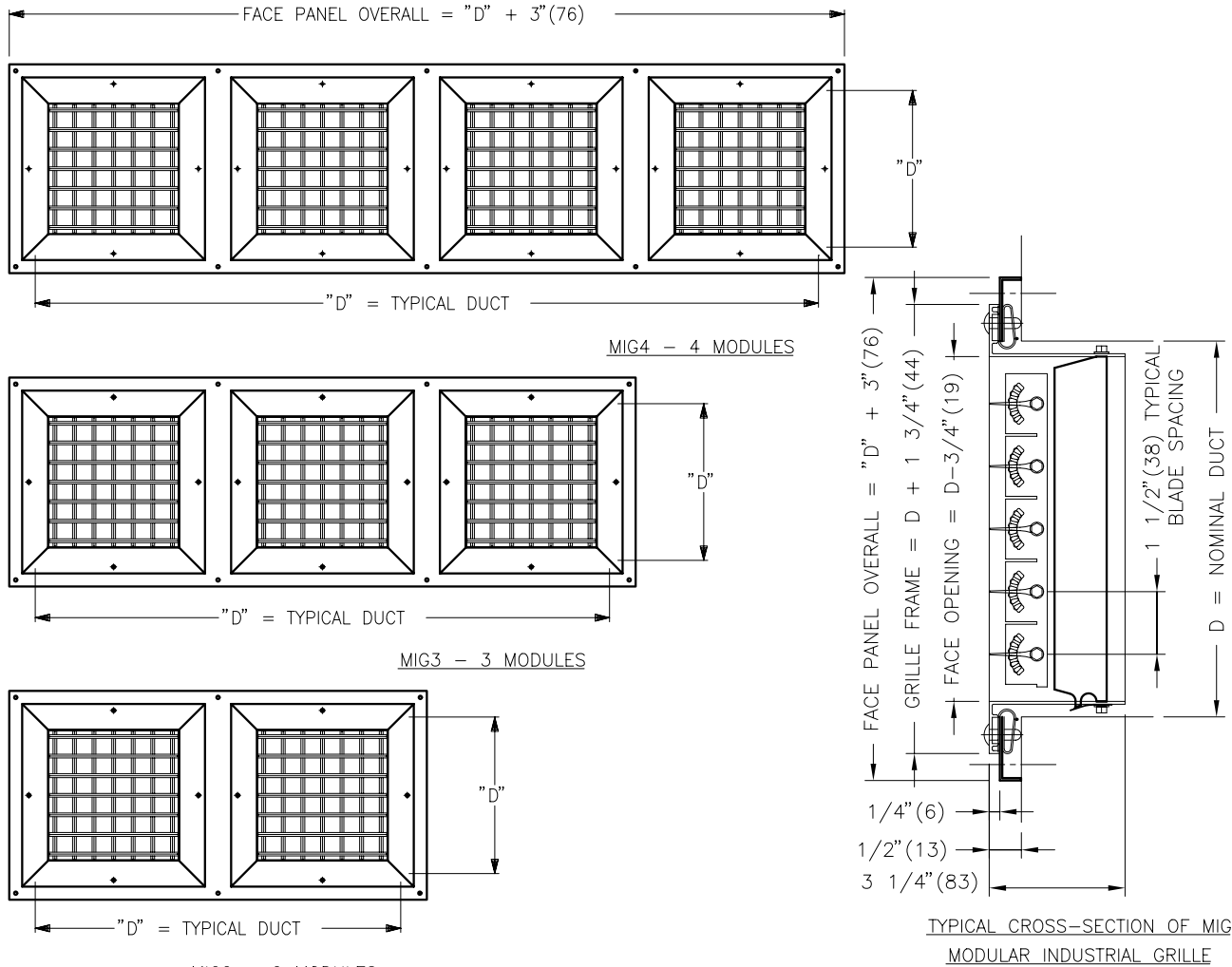
- VCS3 OPPOSED BLADE DAMPER (STEEL)
- VCS5 HEAVY DUTY OPPOSED BLADE DAMPER (STEEL)

**NOTES:**

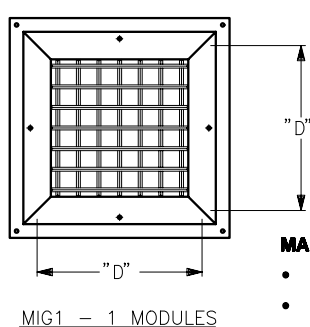
- MIN GRILLE SIZE 6" x 6" (152x152)
- MAX GRILLE SIZE 48" x 48" (1219x1219)
- FACTORY TOLERANCE: ± 1/32" (1)
- TYPE A FASTENING-COUNTERSUNK SCREW HOLES FOR #8 S.M.S PER FACTORY STANDARD.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

<b>PROJECT:</b>		<b>PRICE®</b>	
<b>ENGINEER:</b>			<b>301G / 302G</b> INDUSTRIAL GRILLE c/w GANG OPERATED BLADES
<b>CUSTOMER:</b>			
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	2009/11/12	



TYPICAL CROSS-SECTION OF MIG MODULAR INDUSTRIAL GRILLE



MIG1 - 1 MODULES

**MATERIAL:**

- PANEL - STEEL CONSTRUCTION
- BLADES AND FRAME - EXTRUDED ALUMINUM
- INDEXING DEVICE - STAINLESS STEEL
- FASTENERS - COATED STEEL

**FINISH:**

- B15 ALUMINUM
- B12 WHITE
- (OPTIONAL FINISHES AVAILABLE)

**NOTES:**

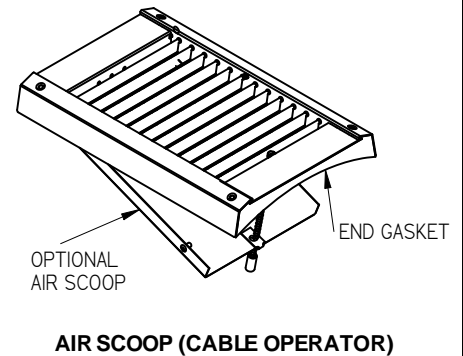
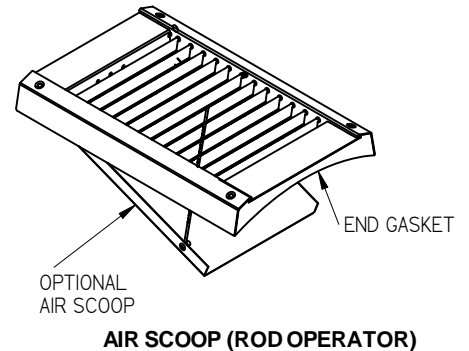
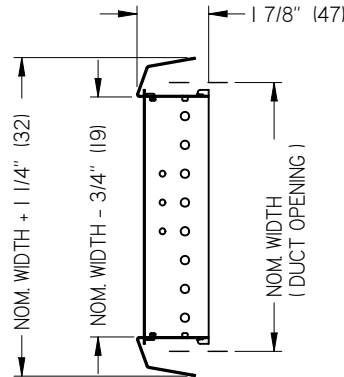
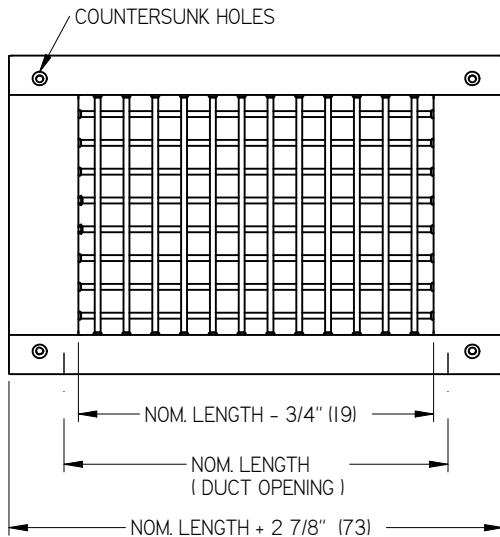
- FACTORY TOLERANCE = .031" (±1mm)

"D" = LISTED DUCT SIZE	"D" - DUCT DIMENSIONS							
	MIG1 - 1 MODULE		MIG2 - 2 MODULE		MIG3 - 3 MODULE		MIG4 - 4 MODULE	
8.0" (203)	8.0	(203)	19.0	(483)	30.0	(762)	41.0	(1041)
10.0" (254)	10.0	(254)	23.0	(584)	36.0	(914)	49.0	(1245)
12.0" (305)	12.0	(305)	27.0	(686)	42.0	(1067)	57.0	(1448)
15.0" (381)	15.0	(381)	33.0	(838)	51.0	(1295)	69.0	(1753)

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

<b>PROJECT:</b>		<b>PRICE</b> <sup>®</sup>	
<b>ENGINEER:</b>		<i>KL</i>	<b>MIG SERIES</b>
<b>CUSTOMER:</b>			
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	APRIL 99	

SDG SPIRAL DUCT GRILLE



RECOMMENDED SDG SIZE FOR SPECIFIED DUCT DIAMETER		
DUCT SIZE (DIAMETER)	MINIMUM NOM. WIDTH SIZE	MAXIMUM NOM. WIDTH SIZE
8" - 13"	-	4"
14" - 21"	4"	6"
22" - 31"	4"	8"
32" - 41"	4"	10"
42" - OVER	4"	12"

**DAMPER OPTIONS:**

- AS: AIR SCOOP (ROD OPERATOR)
- ASC: AIR SCOOP (CABLE OPERATOR)
- 3: VCS3 STEEL OPPOSED BLADE DAMPER PAINTED BLACK

**NOTES:**

- INTENDED FOR USE IN SPIRAL OR ROUND DUCT APPLICATIONS (MINIMUM DUCT SIZE 8" (203))
- MINIMUM NOM. LENGTH IS 10" (254)
- MAXIMUM NOM. LENGTH IS 36" (914)
- AVAILABLE SIZE IN 1" INCREMENTS
- 3/4" BLADE SPACING
- OPEN CELL FOAM INSULATION PROVIDES A TIGHT SEAL AROUND THE GRILLE OPENING IN ANY ROUND DUCT (GREY STANDARD)
- OPTIONAL AIR-SCOOP AVAILABLE
- FACTORY TOLERANCE +/- 1/32" (1)
- GALVANIZED UNITS ARE MILL FINISH.
- STEEL AND GALVANIZED MODELS COME WITH GALVANIZED SCOOP.
- ALUMINUM MODEL COMES WITH MILL FINISH ALUMINUM SCOOP.

**BLADE ORIENTATION - FRONT SET:**

- S PARALLEL TO SHORT DIM
- L PARALLEL TO LONG DIM

**END GASKET COLOR OPTIONS:**

- GREY  WHITE  BLACK

**MATERIAL:**

- ST STEEL FRAME AND BLADES
- GV GALVANIZED STEEL FRAME AND BLADES
- AL ALUMINUM FRAME AND BLADES

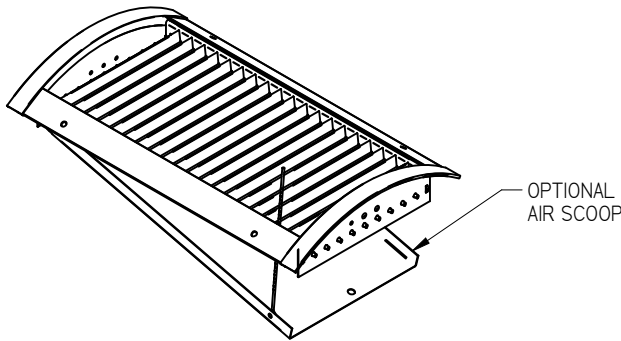
**FINISH:**

- B12 WHITE (ST & AL)  
(OTHER FINISHES AVAILABLE)
- GV MILL FINISH

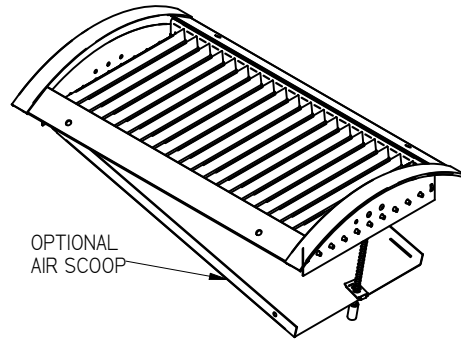
ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:		<b>price</b>
ENGINEER:		
CUSTOMER:		<b>245808</b>
SUBMITTAL DATE:		SEP 2009
SPEC. SYMBOL:		<b>SDG SPIRAL DUCT GRILLE</b>

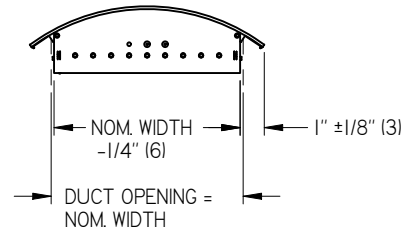
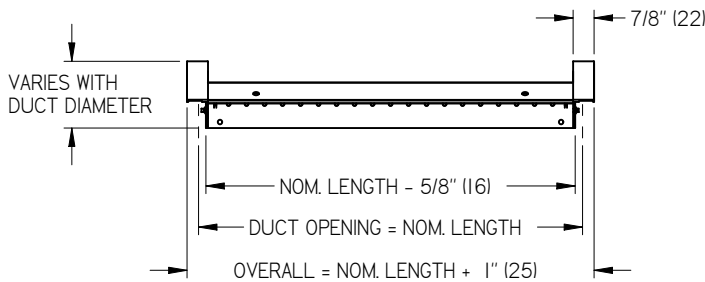
**SDGE - SPIRAL DUCT GRILLE EXTRUDED**



**AIR SCOOP (ROD OPERATOR)**



**AIR SCOOP (CABLE OPERATOR)**



**STANDARD CONSTRUCTION:**

- FRAMES: EXTRUDED ALUMINUM
- BLADES: EXTRUDED ALUMINUM
- 3/4" BLADE SPACING

**DAMPER OPTIONS:**

- AS: AIR SCOOP (ROD OPERATOR)
- ASC: AIR SCOOP (CABLE OPERATOR)
- 3: VCS3 STEEL OPPOSED BLADE DAMPER PAINTED BLACK

**AVAILABLE CONFIGURATIONS:**

- DOUBLE DEFLECTION, FRONT BLADES PARALLEL TO LENGTH
- DOUBLE DEFLECTION, FRONT BLADES PARALLEL TO WIDTH
- SINGLE DEFLECTION, BLADES PARALLEL TO LENGTH
- SINGLE DEFLECTION, BLADES PARALLEL TO WIDTH

**FINISH:**

- B12 WHITE  
(OPTIONAL FINISHES AVAILABLE)
- AC CLEAR ANODIZED

**FASTENING OPTIONS & ACCESSORIES:**

- "A" MOUNTING STANDARD

**NOTES:**

- NOMINAL LENGTHS AVAILABLE IN 1" INCREMENTS. FOR ONE-PIECE CONSTRUCTION:  
MIN. NOMINAL LENGTH = 6"  
MAX. NOMINAL LENGTH = 36"
- FACTORY TOLERANCE +/- 1/32" (1)

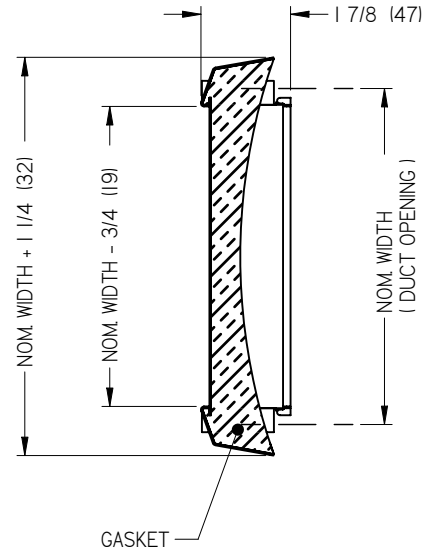
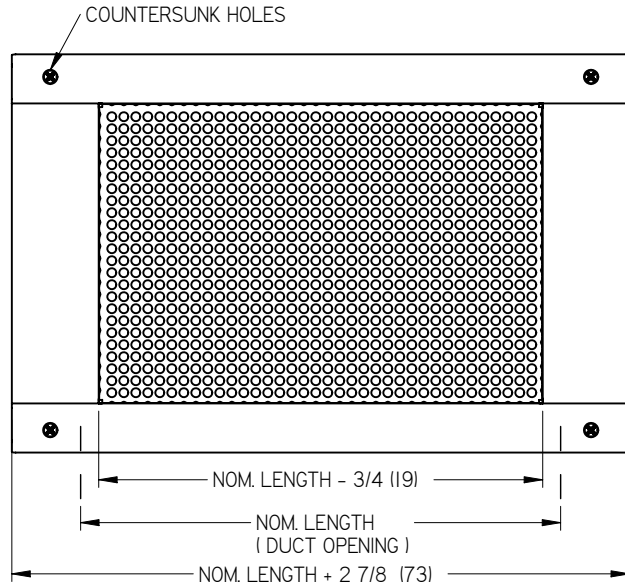
**Available Sizes**

Duct Dia.	Nom. Widths					
	3	4	6	8	10	12
6	x	x				
8	x	x	x			
10	x	x	x	x		
12	x	x	x	x	x	
14	x	x	x	x	x	x
16	x	x	x	x	x	x
18	x	x	x	x	x	x
20	x	x	x	x	x	x
22	x	x	x	x	x	x
24	x	x	x	x	x	x
26	x	x	x	x	x	x
28	x	x	x	x	x	x
30	x	x	x	x	x	x
32	x	x	x	x	x	x
36	x	x	x	x	x	x

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:		<b>SDGE SPIRAL DUCT GRILLE EXTRUDED</b>
ENGINEER:		
CUSTOMER:	 <b>245972</b>	
SUBMITTAL DATE:	SEP 2009	
SPEC. SYMBOL:		

**SDGR SPIRAL DUCT GRILLE RETURN**



RECOMMENDED SDGR SIZE FOR SPECIFIED DUCT DIAMETER		
DUCT SIZE (DIAMETER)	MINIMUM NOM. WIDTH SIZE	MAXIMUM NOM. WIDTH SIZE
8" - 13"	-	4"
14" - 21"	4"	6"
22" - 31"	4"	8"
32" - 41"	4"	10"
42" - OVER	4"	12"

**OPTIONS:**

GASKET  GREY  WHITE  BLACK

**MATERIAL:**

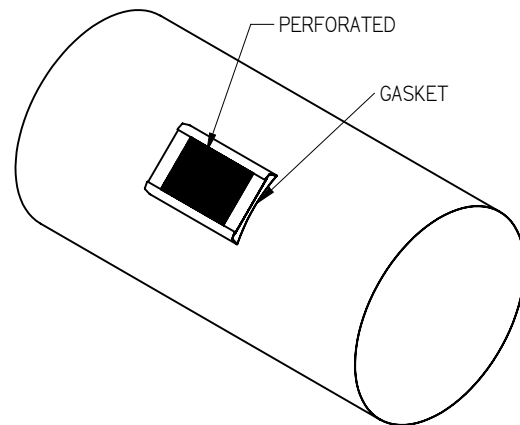
ST STEEL  
 GV GALVANIZED

**FINISH:**

B12 WHITE (ST)  
 (OTHER FINISHES AVAILABLE)  
 GV MILL FINISH

**NOTES:**

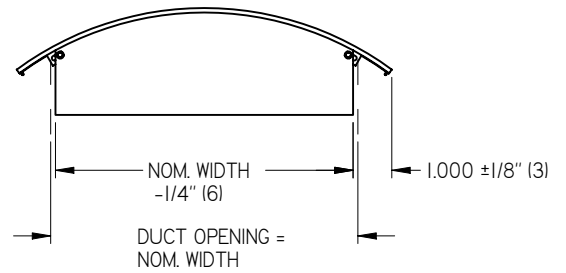
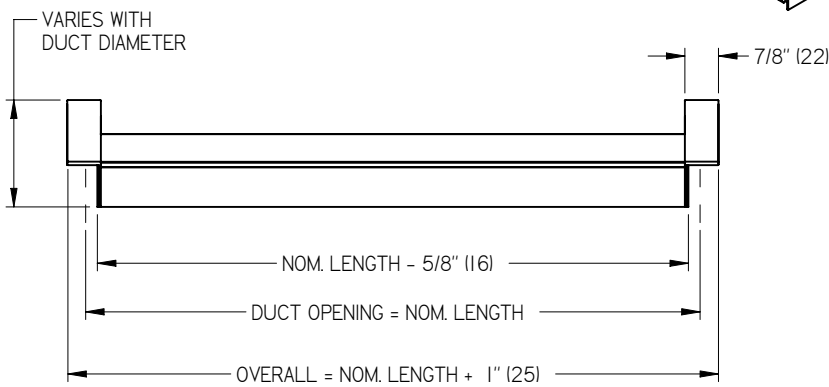
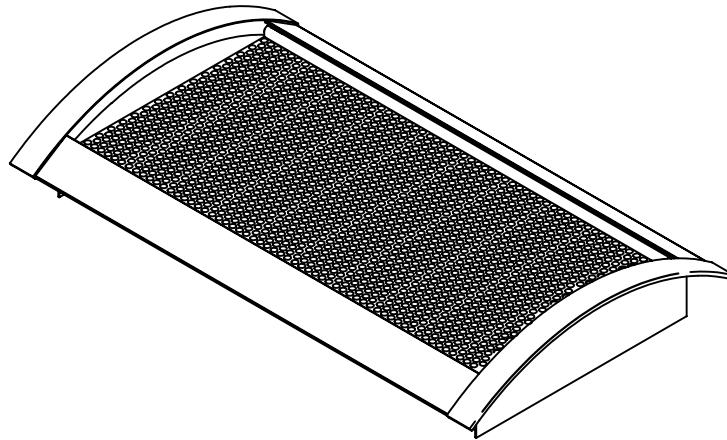
- INTENDED FOR USE IN SPIRAL OR ROUND DUCT APPLICATIONS (MINIMUM DUCT SIZE 8" (203))
- MINIMUM NOM. LENGTH IS 10" (254)
- MAXIMUM NOM. LENGTH IS 36" (914)
- AVAILABLE SIZE IN 1" INCREMENTS
- OPEN CELL FOAM INSULATION PROVIDES A TIGHT SEAL AROUND THE GRILLE OPENING IN ANY ROUND DUCT (GREY STANDARD)
- FACTORY TOLERANCE +/- 1/32" (1)
- GALVANIZED UNITS ARE MILL FINISH.



ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:		<b>PRICE</b>
ENGINEER:		
CUSTOMER:		<b>248720</b>
SUBMITTAL DATE:		MAR. 2008
SPEC. SYMBOL:		<b>SDGR SPIRAL DUCT GRILLE RETURN</b>

SDGER - EXTRUDED SPIRAL DUCT RETURN GRILLE



**STANDARD CONSTRUCTION:**

- FRAMES: EXTRUDED ALUMINUM
- ALUMINUM PERFORATED FACE

**FINISH:**

- B12 WHITE (OPTIONAL FINISHES AVAILABLE)
- AC CLEAR ANODIZED

**FASTENING OPTIONS & ACCESSORIES:**

- "A" MOUNTING STANDARD

**NOTES:**

- NOMINAL LENGTHS AVAILABLE IN 1" INCREMENTS.  
MIN. NOMINAL LENGTH = 6"  
MAX. NOMINAL LENGTH = 36"
- FACTORY TOLERANCE +/- 1/32" (1)

Available Sizes						
Duct Dia.	Nom. Widths					
	3	4	6	8	10	12
6	x	x				
8	x	x	x			
10	x	x	x	x		
12	x	x	x	x	x	
14	x	x	x	x	x	x
16	x	x	x	x	x	x
18	x	x	x	x	x	x
20	x	x	x	x	x	x
22	x	x	x	x	x	x
24	x	x	x	x	x	x
26	x	x	x	x	x	x
28	x	x	x	x	x	x
30	x	x	x	x	x	x
32	x	x	x	x	x	x
36	x	x	x	x	x	x

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:		<b>PRICE</b>
ENGINEER:		
CUSTOMER:		<b>249212</b>
SUBMITTAL DATE:		SEP 2008
SPEC. SYMBOL:		SDGER SPIRAL DUCT GRILLE EXTRUDED RETURN