



Hart & Cooley[®]
install confidence

Residential Grilles, Registers & Diffusers

Edition 5

See
Inside
Front
Cover For
What's New...

RESIDENTIAL

Product Information Engineering Data

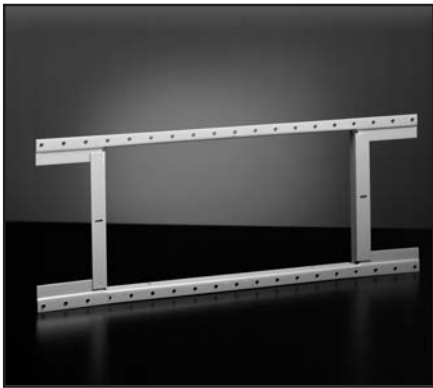
RESIDENTIAL CONSTRUCTION FEATURES3

SIDEWALL/CEILING REGISTERS & GRILLES

3	Steel Sidewall Stud Frame	11	
301 (A301)	Steel (Stamped Aluminum) Curved Blade One-Way	11	42
302 (A302)	Steel (Stamped Aluminum) Curved Blade Two-Way	12	42
303 (A303)	Steel (Stamped Aluminum) Curved Blade Three-Way	12-13	42
304 (A304)	Steel (Stamped Aluminum) Curved Blade Four-Way	13	42
300M Series	Stamped Curved-Blade Register with Multi-Louver Damper	14	42
A611	Stamped Aluminum Curved Blade Register One-Way, MS/OB	15	43
A612	Stamped Aluminum Curved Blade Register Two-Way, MS/OB	15	43
A613	Stamped Aluminum Curved Blade Register Three-Way, MS/OB	15	43
A614	Stamped Aluminum Curved Blade Register Four-Way, MS/OB	16	43
A618	Stamped Aluminum Straight Blade Register, MS/OB	16	44
621	Stamped Steel Four-Way Register	17	44
631	Stamped Steel Three-Way Register	17	45
650 (A650)	Stamped Steel/Aluminum Return Grille	17-18	45
651	Stamped Steel Register	18	45
659	Stamped Steel Filter Grille	18	45
661 (A661)	Stamped Steel/Aluminum Two-Way Register	19	46
672	Stamped Steel Return Grille	20	46
673	Stamped Steel Filter Grille	20	46
681	Stamped Steel One-Way Register	21	47
682	Stamped Steel Two-Way Register	21	47
683	Stamped Steel Three-Way Register	21	47
684	Stamped Steel Four-Way Register	21	47
680M Series	Stamped Lanced-Blade Register with Multi-Louver Damper	22	47

RESIDENTIAL

		Product Information	Engineering Data
A711	Stamped Aluminum One-Way, Sidewall/Ceiling Register MS23	
A712	Stamped Aluminum Two-Way, Sidewall/Ceiling Register MS23	
A713	Stamped Aluminum Three-Way, Sidewall/Ceiling Register MS23	
A714	Stamped Aluminum Four-Way, Sidewall/Ceiling Register MS24	
A718	Stamped Aluminum Straight Blade Register, MS24	



Model 3 Sidewall Stud Frame

- All-steel construction
- Extension arms fasten directly to studs
- Provides solid foundation for register and stackhead
- Permits good plaster base right up to frame

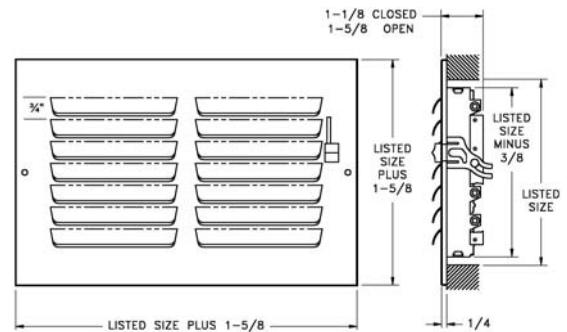
Model 3 Available Sizes (in.)					
HT	WIDTH				
	10	12	14	24	30
4		X			
6	X	X	X	X	X



301 Register

- All-steel one-piece stamped-face curved-blade construction
- One-way deflection
- One-way air pattern
- For sidewall or ceiling application
- Multi-shutter valve
- Listed heights 10" and larger require double valves
- Bright White enamel finish

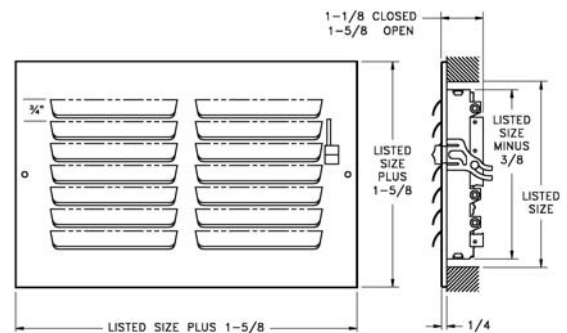
301 Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
4		X	X	X	X
6	X	X	X	X	X
8		X	X	X	X
10			X		
12				X	



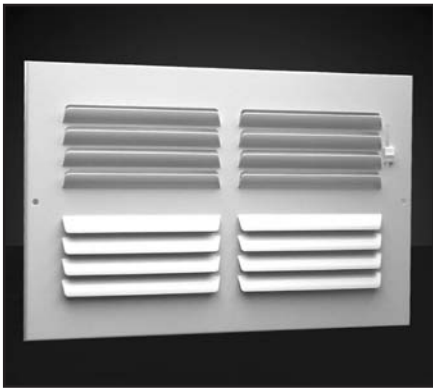
A301 Register

- Aluminum one-piece stamped-face curved-blade construction
- For sidewall or ceiling application
- One-way deflection
- One-way air pattern
- Galvanized multi-shutter valve
- Listed heights 10" and larger require double valves
- Bright White enamel finish

A301 Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
4		X	X	X	
6	X	X	X	X	X
8		X	X	X	X
10			X		



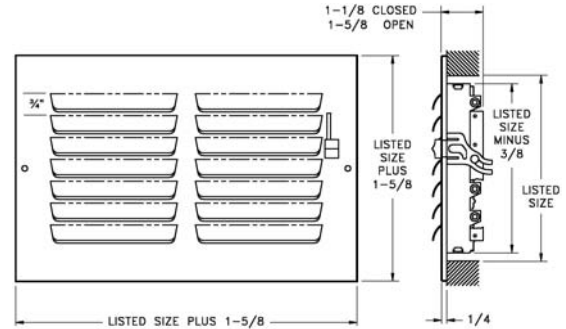
Sidewall Registers & Grilles



302 Register

- All-steel one-piece stamped-face curved-blade construction
- Two-way deflection
- Two-way air pattern
- For sidewall or ceiling application
- Multi-shutter valve
- Listed heights 10" and larger require double valves
- Bright White enamel finish

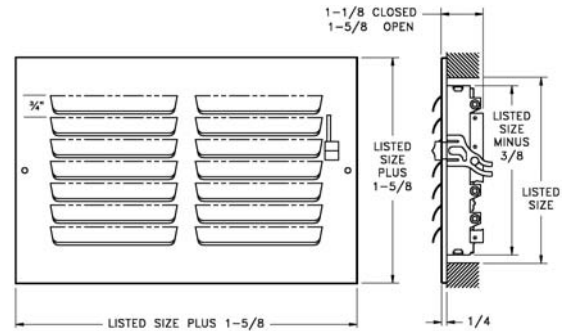
302 Available Sizes (in.)				
HT	WIDTH			
		8	10	12
4	X			
6	X	X	X	X
8	X	X	X	X



A302 Register

- Aluminum one-piece stamped-face curved-blade construction
- For sidewall or ceiling application
- Two-way deflection
- Two-way air pattern
- Galvanized multi-shutter valve
- Listed heights 10" and larger require double valves
- Bright White enamel finish

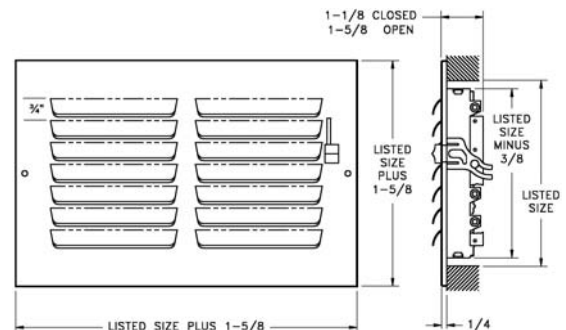
A302 Available Sizes (in.)		
HT	WIDTH	
		10
6	X	X
8		X
10	X	



303 Register

- All-steel one-piece stamped-face curved-blade construction
- Three-way deflection
- Three-way air pattern
- For sidewall or ceiling application
- Multi-shutter valve
- Listed heights 10" and larger require double valves
- Bright White enamel finish

303 Available Sizes (in.)						
HT	WIDTH					
		6	8	10	12	14
4		X	X		X	
6	X	X	X	X	X	X
8		X	X	X	X	
10			X			
12				X		

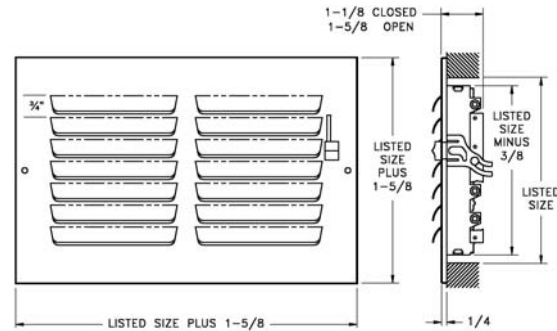




A303 Register

- Aluminum one-piece stamped-face curved-blade construction
- For sidewall or ceiling application
- Three-way deflection
- Three-way air pattern
- Galvanized multi-shutter valve
- Listed heights 10" and larger require double valves
- Bright White enamel finish

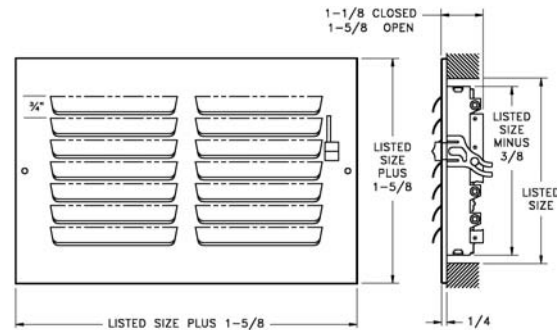
A303 Available Sizes (in.)					
HT	WIDTH				
		6	8	10	12
4		X			
6	X		X	X	X
8		X	X	X	
10			X		
12				X	



304 Register

- All-steel one-piece stamped-face curved-blade construction
- Four-way deflection
- Four-way air pattern
- For sidewall or ceiling application
- Multi-shutter valve
- Listed heights 10" and larger require double valves
- Bright White enamel finish

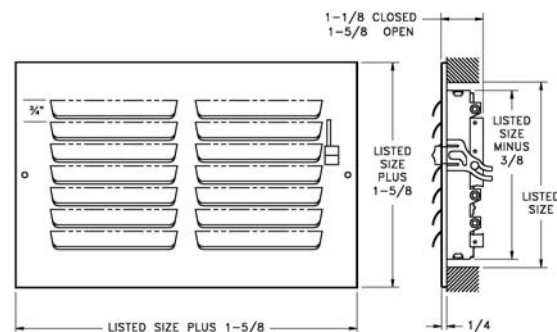
304 Available Sizes (in.)					
HT	WIDTH				
		6	8	10	12
6	X				
8		X			
10			X		
12				X	
14					X



A304 Register

- Aluminum one-piece stamped-face curved-blade construction
- For sidewall or ceiling application
- Four-way deflection
- Four-way air pattern
- Galvanized multi-shutter valve
- Listed heights 10" and larger require double valves
- Bright White enamel finish

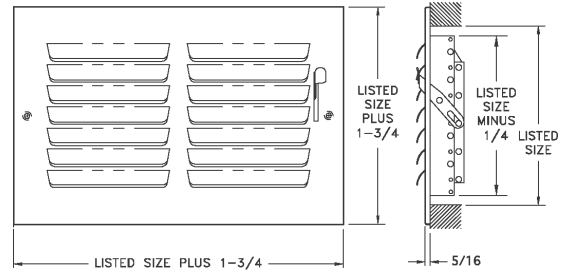
A304 Available Sizes (in.)				
HT	WIDTH			
		6	8	10
6	X			
8		X		
10			X	
12				X





300M Series Register

- All-steel construction with metal handle
- Stamped curved-blade supply register with multi-louver damper for ceiling or sidewall installation
- Stamped, one-piece face with multi-louver damper for volume control
- Available in 1-way, 2-way, 3-way and 4-way airflow patterns
- Bright White finish



301M Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
4		X		X	
6	X	X	X	X	X
8		X	X	X	X
10			X		X
12				X	



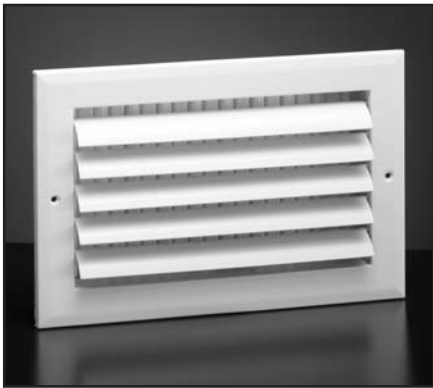
302M Available Sizes (in.)		
HT	WIDTH	
	10	12
6	X	X
8	X	X
10	X	
12		X



303M Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
4		X			
6	X	X	X	X	X
8		X	X	X	X
10			X		X
12				X	



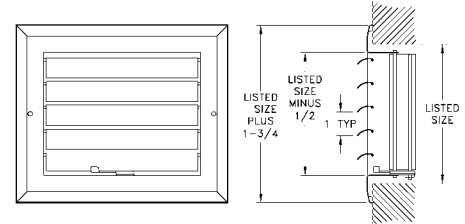
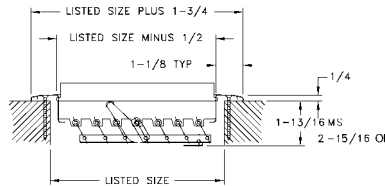
304M Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
6	X				
8		X			
10			X		
12				X	
14					X



A611MS/A611OB Register

- Aluminum face/fin construction
- For sidewall or ceiling application
- One-way deflection
- One-way air pattern
- Adjustable curved blades increase deflection control
- Galvanized multi-shutter valve or opposed-blade damper
- Bright White finish

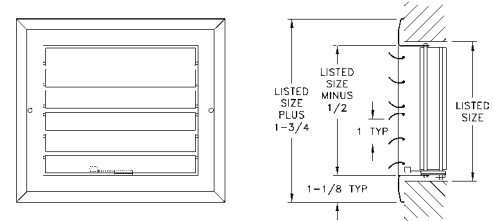
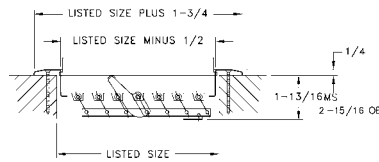
A611 Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
4		X	X	X	
6	X		X	X	X
8		X	X	X	X
10			X		
12				X	



A612MS/A612OB Register

- Aluminum face/fin construction
- For sidewall or ceiling application
- Two-way deflection
- Two-way air pattern
- Adjustable curved blades increase deflection control
- Galvanized multi-shutter valve or opposed-blade damper
- Bright White finish

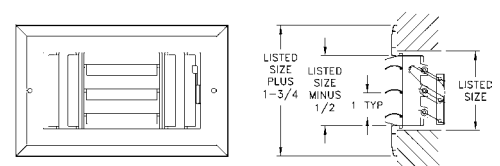
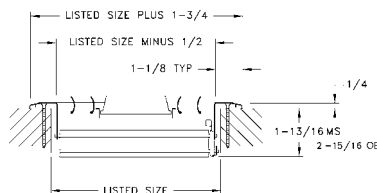
A612 Available Sizes (in.)				
HT	WIDTH			
	8	10	12	14
6		X	X	X
8	X		X	X
10		X		
12			X	



A613MS/A613OB Register

- Aluminum face/fin construction
- For sidewall or ceiling application
- Three-way deflection
- Three-way air pattern
- Adjustable curved blades increase deflection control
- Galvanized multi-shutter valve or opposed-blade damper
- Bright White finish

A613 Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
4		X	X		
6	X		X	X	X
8		X		X	X
10			X		
12				X	
14					X



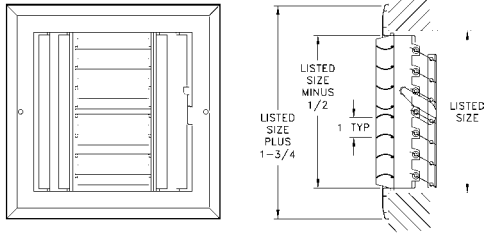
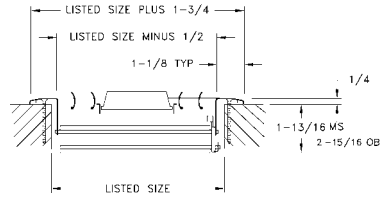
Sidewall Registers & Grilles



A614MS/A614OB Register

- Aluminum face/fin construction
- For sidewall or ceiling application
- Four-way deflection
- Four-way air pattern
- Adjustable curved blades increase deflection control
- Galvanized multi-shutter valve or opposed-blade damper
- Bright White finish

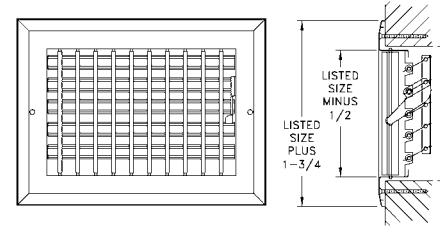
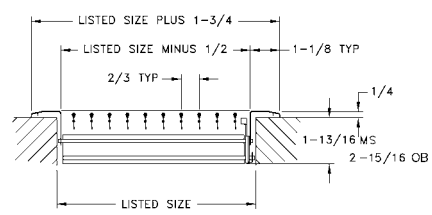
A614 Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
6	X				
8		X			
10			X		
12				X	
14					X



A618MS/A618OB Register

- Aluminum face/fin construction
- Adjustable straight fins provides individual deflection control
- Stamped face margins eliminate mitered corners and rough edges
- Galvanized multi-shutter valve or opposed-blade damper
- Bright White finish

A618 Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
4		X	X	X	X
6	X	X	X	X	X
8		X	X	X	X
10			X		
12				X	
14					X

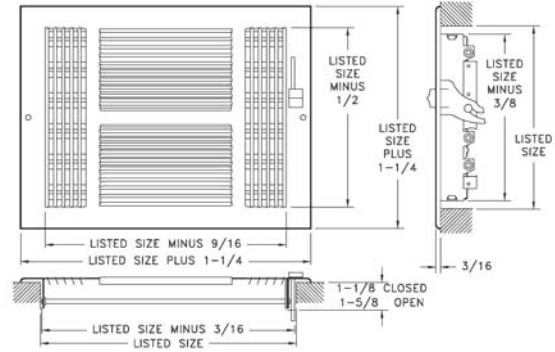




621 Register

- All-steel construction
- For heating or cooling
- Ideal for shallow duct installations
- Used for ceiling or sidewall installations
- Four-way deflection
- 1/3" spaced fins set at 20 degrees
- Multi-shutter valve
- 1-5/8" depth when fully opened
- Interlocking valve louvers for positive shut-off
- Bright White finish

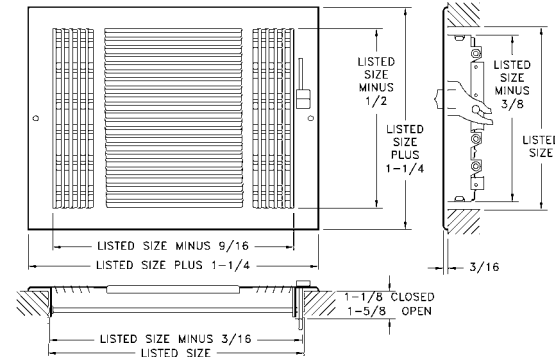
621 Available Sizes (in.)						
HT	WIDTH					
	6	8	10	12	14	16
6	X					
8		X				
10			X			
12				X		
14					X	
16						X



631 Register

- All-steel construction
- Ideal for shallow duct installations
- Used for ceiling or sidewall installations
- For heating or cooling
- Three-way deflection
- 1/3" spaced fins set at 20 degrees
- Multi-shutter valve
- 1-5/8" depth when fully opened
- Interlocking valve louvers for positive shut-off
- Bright White finish

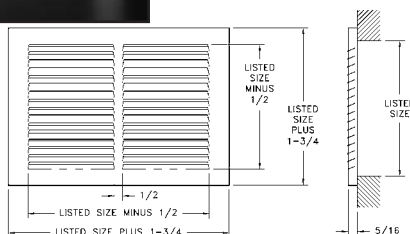
631 Available Sizes (in.)					
HT	WIDTH				
	8	10	12	14	16
4	X	X	X	X	
6	X	X	X	X	X
8		X	X	X	



650 Return Air Grille

- All-steel construction
- 1/3" spaced fins set at 20 degrees
- Exceptional free area
- 5/16" Margin Turnback
- Bright White finish

650 Available Sizes (in.)											
HT	WIDTH										
	6	8	10	12	14	16	18	20	24	30	36
4	X	X	X	X	X	X		X	X	X	
6	X	X	X	X	X	X	X	X	X	X	X
8		X	X	X	X	X	X	X	X	X	X
10	X		X	X	X	X	X	X	X	X	X
12			X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	
16				X	X	X	X	X	X	X	
18				X	X		X	X	X	X	
20			X	X	X	X		X	X	X	
24	X		X	X	X	X	X	X	X	X	
25								X			
30					X			X	X	X	



Contact factory for sizes not listed.

Note: When ordering, specify horizontal dimension first.

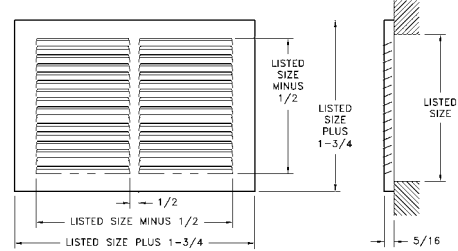
Sidewall Registers & Grilles



A650 Return Air Grille

- Aluminum construction
- 1/3" spaced fins set at 20 degrees
- Exceptional free area
- 5/16" Margin Turnback
- Bright White finish

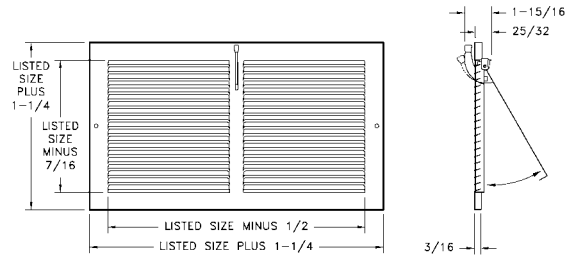
A650 Available Sizes (in.)					
HT	WIDTH				
	6	10	12	14	18
6	X		X		
8				X	
10		X			
12			X		X
14				X	



651 Register

- All-steel construction
- 1/3" spaced fins set at 20 degrees
- Volume-control damper
- Bright White finish

651 Available Sizes (in.)				
HT	WIDTH			
	8	10	12	14
4	X	X	X	
6	X	X	X	X



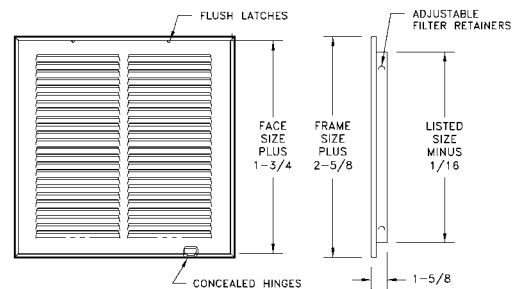
659 Return Air Filter Grille

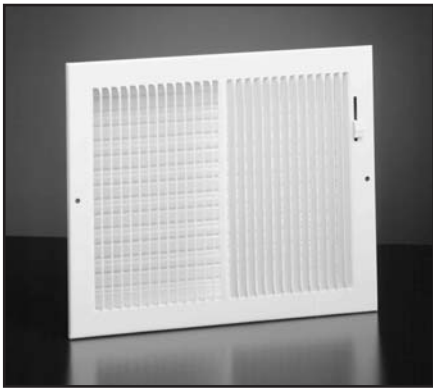
- All-steel construction
- 1/3" spaced fins set at 20 degrees
- Effectively conceals filter
- Use standard 1" thick disposable filters (not included)
- Removable face for easy installation and cleaning
- Equipped with adjustable filter retainers
- Bright White finish
- Some sizes are available factory installed filters (Model 659FIL). Contact factory for details.

Note: When ordering, specify horizontal dimension first.

659 Standard Sizes (in.)										
HT	WIDTH									
	10	12	14	16	18	20	24	25	30	36
6		X	X				X		X	
8							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	
18					X		X		X	
20	X	X	X	X		X	X	X	X	
24		X	X		X	X	X		X	
25			X	X		X		X		
30			X	X		X	X		X	
36							X			

Contact factory for sizes not listed.





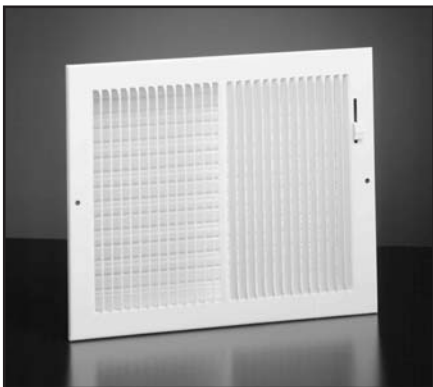
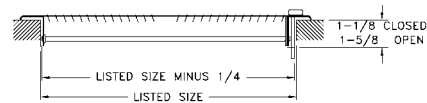
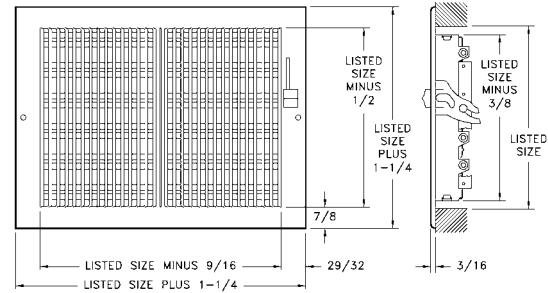
Available with fusible link option, limited sizes (not UL-listed or fire-rated)

661 Register

- All-steel construction
- Used for ceiling or sidewall installations
- For heating or cooling
- Ideal for shallow duct installations
- Two-way deflection
- 1/3" spaced fins set at 20 degrees
- Galvanized multi-shutter valve
- 1-5/8" depth when fully opened
- Interlocking valve louvers for positive shut-off
- Bright White finish

661 Standard Sizes (in.)										
HT	WIDTH									
	6	8	10	12	14	16	18	20	24	30
4	X	X	X	X	X	X			X	
5		X	X	X	X					
6	X	X	X	X	X	X	X	X	X	X
8		X	X	X	X	X	X	X	X	X
10			X	X						
12				X						

Note: When ordering sidewall products, specify horizontal (width) dimension first.

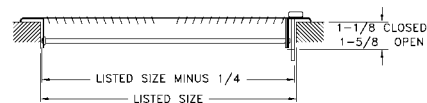
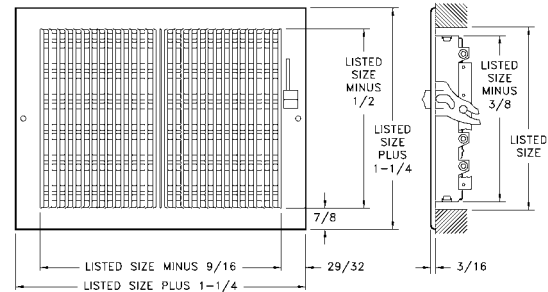


A661 Register

- Stamped aluminum construction
- Used for ceiling or sidewall installations
- For heating or cooling
- Ideal for shallow duct installations
- Two-way deflection
- 1/3" spaced fins set at 20 degrees
- Galvanized multi-shutter valve
- 1-5/8" depth when fully opened
- Interlocking valve louvers for positive shut-off
- Bright White finish

A661 Available Sizes (in.)				
HT	WIDTH			
	8	10	12	14
4	X	X	X	
6		X	X	X

Contact factory for sizes not listed.



Sidewall Registers & Grilles

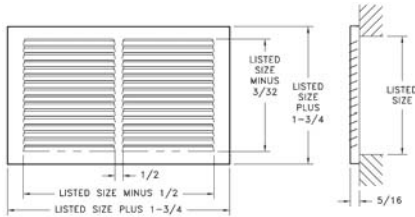


672 Return Air Grille

- All-steel construction
- 1/2" spaced fins set at 40 degrees
- Exceptional free area
- 5/16" Margin Turnback
- Bright White finish

		672 Available Sizes (in.)										
		WIDTH										
HT	6	8	10	12	14	16	18	20	24	25	30	36
	4	X	X	X	X	X		X		X		X
6	X	X	X	X	X	X	X	X	X		X	
8		X	X	X	X	X	X	X	X		X	X
10			X	X	X	X	X	X	X		X	X
12	X		X	X	X	X	X	X	X		X	X
14		X	X	X	X	X	X	X	X		X	X
16				X	X	X	X	X	X	X	X	
18				X	X		X	X	X		X	
20			X	X	X	X		X	X	X	X	
24			X	X	X	X	X	X	X		X	
25					X	X		X		X		
30					X	X		X	X		X	

Contact factory for sizes not listed.

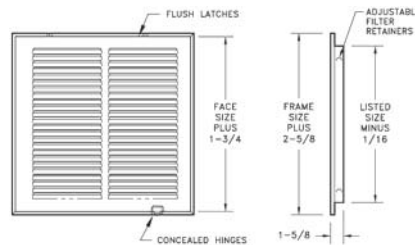


673 Return Air Filter Grille

- All-steel construction
- 1/2" spaced fins set at 40 degrees
- Effectively conceals filter
- Use standard 1" thick disposable filters (not included)
- Removable face for easy installation and cleaning
- Equipped with adjustable filter retainers
- Bright White finish

		673 Standard Sizes (in.)										
		WIDTH										
HT	10	12	14	16	18	20	24	25	30	32	36	40
	6	X		X				X		X		
8			X				X		X			
10	X						X	X	X			
12		X			X	X	X		X		X	
14			X			X	X	X	X		X	
16			X	X		X	X	X	X		X	
18		X			X	X	X		X			
20	X	X	X	X	X	X	X	X	X			X
24		X	X	X	X	X	X		X		X	
25			X	X		X		X		X		
30		X	X	X		X	X	X	X			
32				X		X		X				
36		X		X		X	X					
40						X						

Contact factory for sizes not listed.



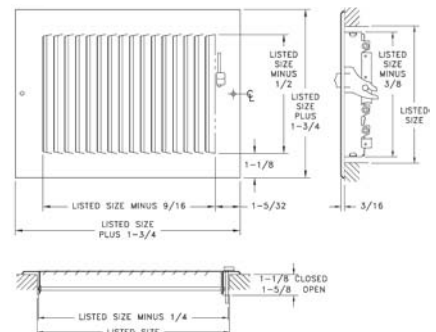
- Some sizes are available factory installed filters (Model 659FIL). Contact factory for details.



681 Register

- All-steel construction
- Used for ceiling or sidewall installations
- Ideal for shallow duct installations
- One-way deflection
- 1/2" spaced fins set at 40 degrees
- Multi-shutter valve
- 1-5/8" depth when fully opened
- Interlocking valve louvers for positive shut-off
- Bright White finish
- Call factory for sizes available in aluminum—Model A681

		681 Available Sizes (in.)						
		WIDTH						
HT	8	10	12	14	16	18	20	
	4	X						
6	X	X	X	X	X	X	X	



Engineering Data on Page 46-47

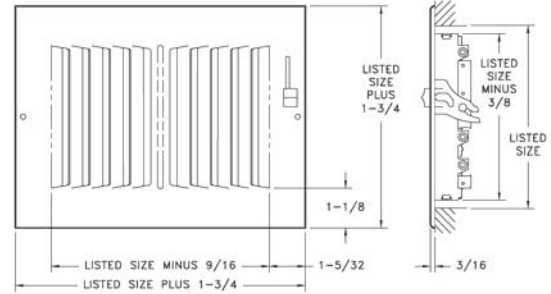


Available with fusible link option, limited sizes (not UL-listed or fire-rated)

682 Register

- All-steel construction
- Used for ceiling or sidewall installations
- Ideal for shallow duct installations
- Two-way deflection
- 1/2" spaced fins set at 40 degrees
- Multi-shutter valve
- 1-5/8" depth when fully opened
- Interlocking valve louvers for positive shut-off
- Bright White finish

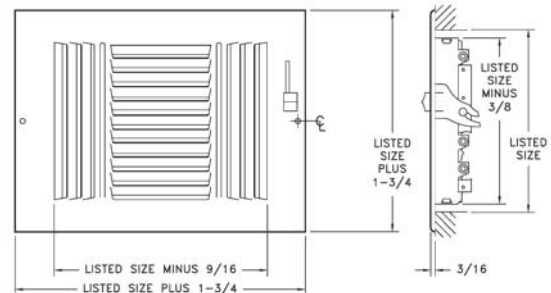
682 Available Sizes (in.)	
HT	WIDTH
	6 8 10 12 14 16 18 20 24
4	X X X X X
5	X X
6	X X X X X X X X X
8	X X X X X X X X X
10	X
12	X



683 Register

- All-steel construction
- Used for ceiling or sidewall installations
- Ideal for shallow duct installations
- Three-way deflection
- 1/2" spaced fins set at 40 degrees
- Multi-shutter valve
- 1-5/8" depth when fully opened
- Interlocking valve louvers for positive shut-off
- Bright White finish

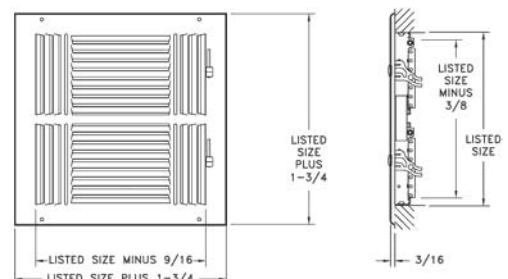
683 Available Sizes (in.)	
HT	WIDTH
	6 8 10 12 14 16
4	X X X X X
6	X X X X X X
8	X X X X X X
10	X
12	X
14	X
16	X



684 Register

- All-steel construction
- Used for ceiling or sidewall installations
- Ideal for shallow duct installations
- Four-way deflection
- 1/2" spaced fins set at 40 degrees
- Multi-shutter valve
- 1-5/8" depth when fully opened
- Interlocking valve louvers for positive shut-off
- Listed heights 10" and larger require double valves
- Bright White finish
- Call factory for sizes available in Aluminum A684

684 Available Sizes (in.)	
HT	WIDTH
	6 8 10 12 14 16
6	X
8	X
10	X
12	X
14	X
16	X

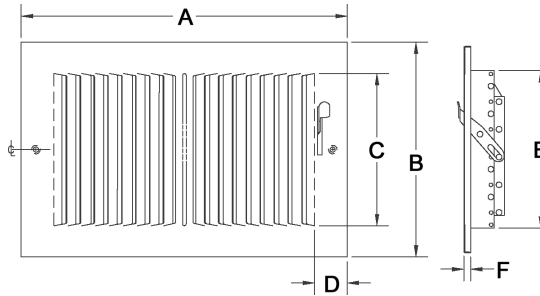




680M Series Register

- All-steel construction with metal handle
- Stamped, straight-blade supply register with multi-louver damper for ceiling or sidewall installation
- Stamped, one-piece face with multi-louver damper for volume control
- Fins spaced on 1/2" centers at 40 degrees
- Available in 1-way, 2-way, 3-way and 4-way airflow patterns
- Bright White finish

681M Available Sizes (in.)							
HT	WIDTH						
	8	10	12	14	16	18	20
4	X						
6		X	X	X	X		X
8			X				



A	B	C	D	E	F
LISTED SIZE PLUS 1-3/4"	LISTED SIZE PLUS 1-3/4"	LISTED SIZE MINUS 5/8"	1-3/16"	LISTED SIZE MINUS 1/4"	5/16"



682M Available Sizes (in.)						
HT	WIDTH					
	6	8	10	12	14	16
4	X	X	X	X	X	
6	X	X	X	X	X	X
8		X	X	X	X	X
10			X		X	



683M Available Sizes (in.)						
HT	WIDTH					
	6	8	10	12	14	16
4		X	X	X	X	
6	X	X	X	X	X	X
8		X	X	X	X	X
10			X		X	
12				X		



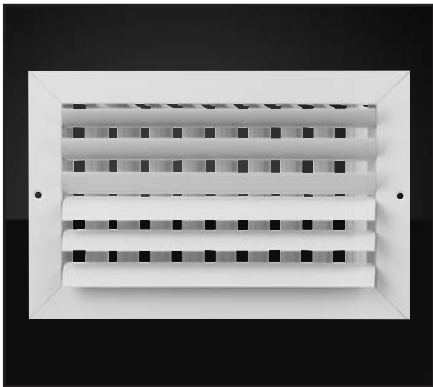
684M Available Sizes (in.)					
HT	WIDTH				
	6	8	10	12	14
6	X				
8		X			
10			X		
12				X	
14					X



A711MS Register

- Aluminum construction
- Used for ceiling or sidewall installations
- One-way deflection
- One-way air pattern
- Adjustable curved blades increase deflection control
- Multi-shutter valve
- Bright White finish

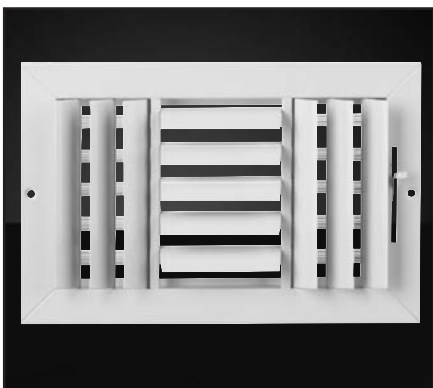
A711 Available Sizes (inches)					
Height	Width				
	6	8	10	12	14
4		X	X		
6	X		X	X	X
8		X	X	X	X
10			X		
12				X	



A712MS Register

- Aluminum construction
- Used for ceiling or sidewall installations
- Two-way deflection
- Two-way air pattern
- Adjustable curved blades increase deflection control
- Multi-shutter valve
- Bright White finish

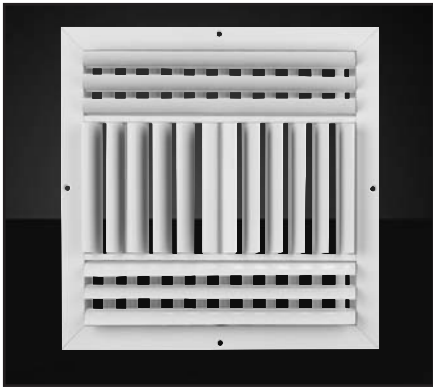
A712 Available Sizes (inches)		
Height	Width	
	10	12
6	X	X
8		X
10	X	
12		X



A713 Register

- Available in a 10" x 10" size
- Aluminum construction
- Used for ceiling or sidewall installations
- Three-way deflection
- Three-way air pattern
- Adjustable curved blades increase deflection control
- Multi-shutter valve
- Bright White finish

Sidewall Registers & Grilles



A714MS Register

- Aluminum construction
- Used for ceiling or sidewall installations
- Four-way deflection
- Four-way air pattern
- Adjustable curved blades increase deflection control
- Multi-shutter valve
- Bright White finish

A714 Available Sizes (inches)					
Height	Width				
	6	8	10	12	14
6	X				
8		X			
10			X		
12				X	
14					X



A718MS Register

- Aluminum construction
- Adjustable straight fins provides individual deflection control
- Stamped face margins eliminate mitered corners and rough edges
- Multi-shutter valve
- Bright White finish

A718 Available Sizes (inches)					
Height	Width				
	8	10	12	14	
4	X	X	X	X	
6		X	X	X	
8		X	X	X	
10		X			
12			X		