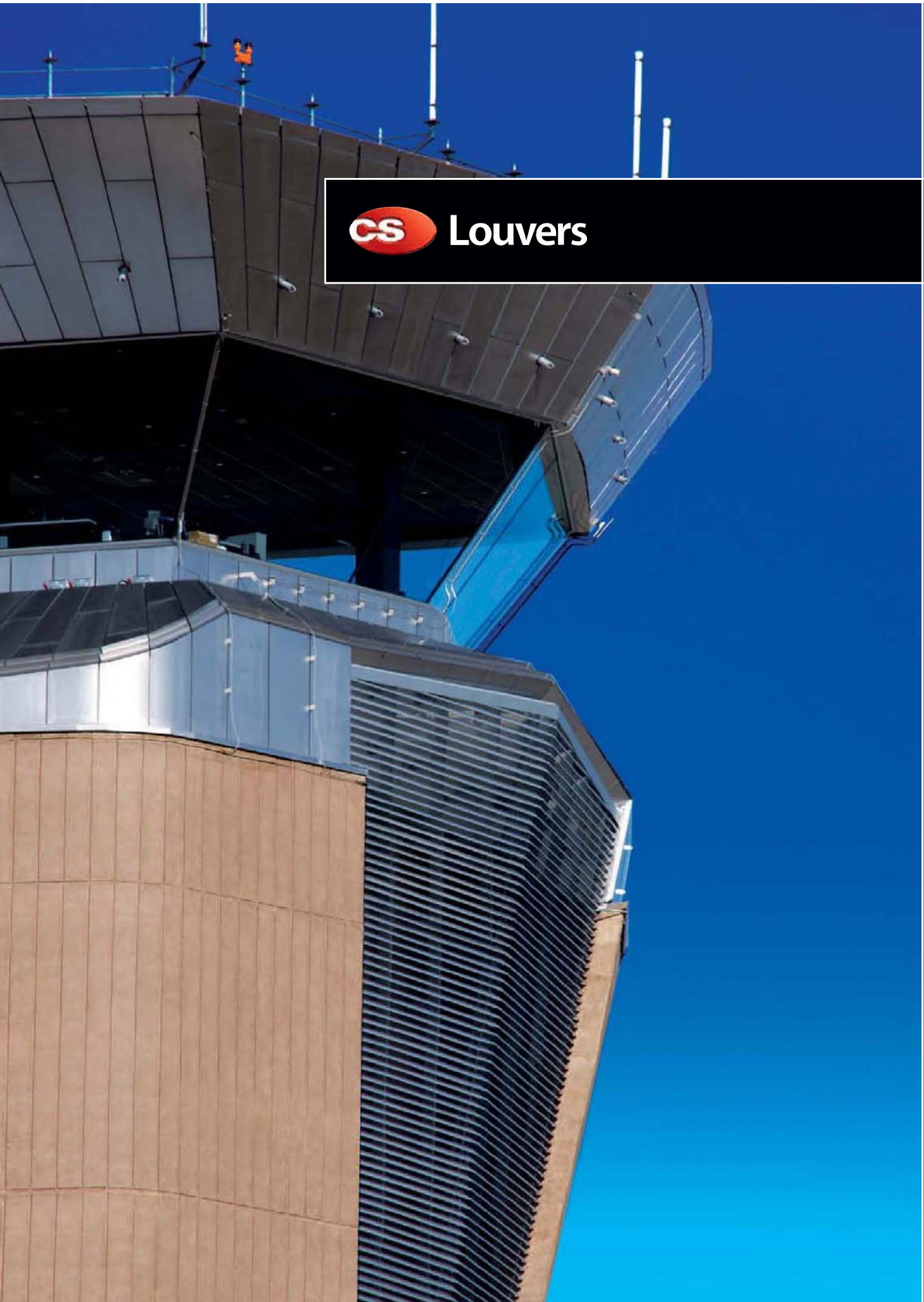




CS Louvers



1 Our louver experts are available nationwide, wherever you are, to help guide you to the best C/S Louver for your project.



2 C/S can provide the airflow and rain defense you need with virtually any look you can dream up. Consult us to see what is possible.



The C/S Louver

10 exclusive reasons why C/S

3 We'll help you decide which of our louvers meet your ventilation requirements. You can consult directly with us in person, or use our online airflow calculator 24/7 at www.c-sgroup.com.

4 C/S provides complete project details and drawings, so there are no surprises. You'll know what you specified is what you got. Your contractor will know the order is complete and where everything goes.





- 10** We developed the first extruded aluminum louver. C/S has a 60-year track record of innovation and excellent performance. How's that for peace-of-mind.

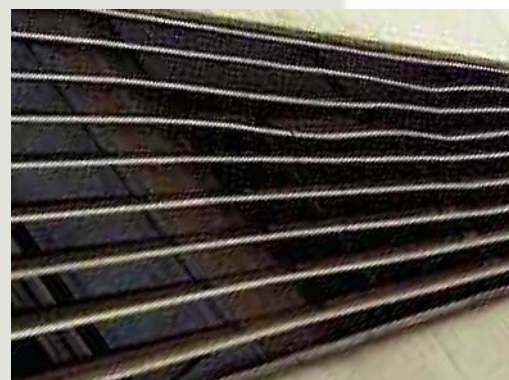
- 9** Our louvers are MBDC Certified. C/S LEED® AP's can help you determine the most environmentally friendly louvers for your project and help with LEED® certification.



- 8** All C/S Louvers use recycled aluminum and can be finished in our environmentally friendly powder coat finishes.



- 7** No wavy louvers! C/S doesn't under engineer the structurals. You can be sure our louvers will never look like this.



- 6** C/S provides signed and sealed engineering calculations to assure architects, contractors and owners that all connection points and bearing loads are approved.



- 5** C/S provides architects and contractors with the most cost effective louvers to do the job. We'll guide you to the right louver at the lowest cost.



Advantage

Louvers are the right choice

THE C/S LOUVER DIFFERENCE

Only C/S can prove that your louvers will perform in the real world.

All C/S Louvers are tested in our exclusive test chamber. The C/S Test chamber enables our engineers to test our designs, or your designs, under real world conditions.

Wind driven rain simulator directs vast quantities of water at the louver. Up to 9" of water per hour.



The external wind generator can produce hurricane force winds up to 90 mph creating wind driven rains.

1 Achieving maximum airflow and minimum water entry

Letting air in and keeping water out is a real balancing act. The C/S Test Chamber allows us to quickly modify blade shape and spacing to provide you with the performance you require.

Collection chamber shows C/S engineers the louver effectiveness at stopping wind driven rain. Blade adjustments can be made quickly.

Intake fan simulates building's air handling equipment.

2

1

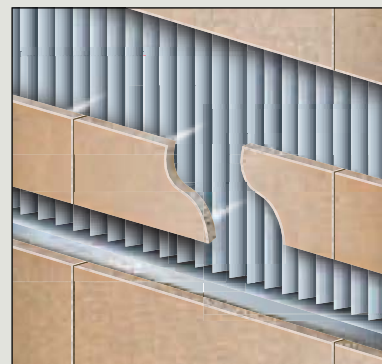



2 Air Handling

The equipment directly behind the louver and how much air it requires is a major design consideration. We can supply the correct louver to meet your required effectiveness at the required core ventilation rate.

Aesthetics – Hiding louvers behind stone, marble, grillages and glass

Hiding louvers behind the primary facade is a C/S specialty. Through the use of our test chamber we can quickly get performance data to you and modify the louver spacing to accommodate your needs without affecting your exterior's design.





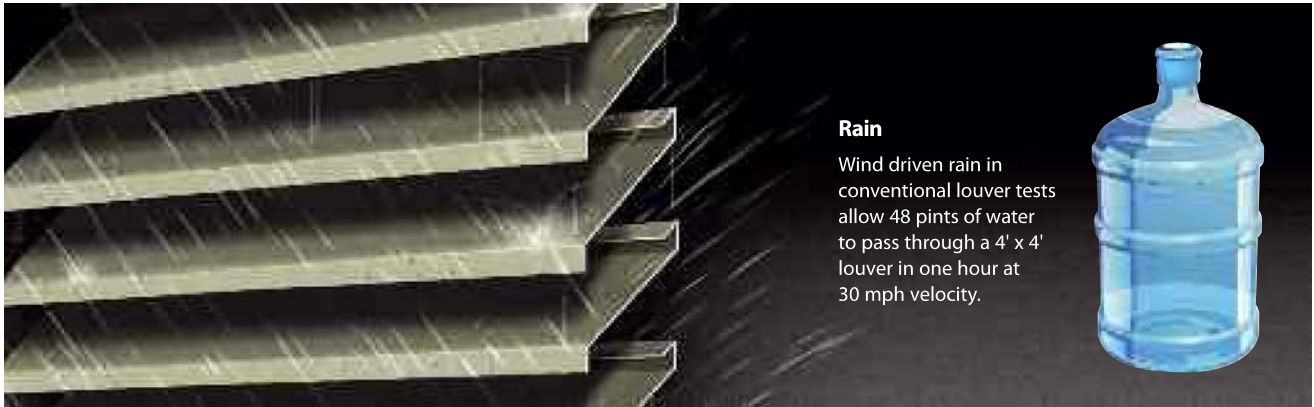
Don't let leaky louvers shut down your building.

Does rain fall straight down? Most rainstorms are accompanied by wind—many times strong wind gusts. The result—wind driven rain, serious internal water problems, and devastating effects on the performance of the building. To prevent problems all C/S Louvers are tested in our exclusive test chamber.

RAIN DEFENSE

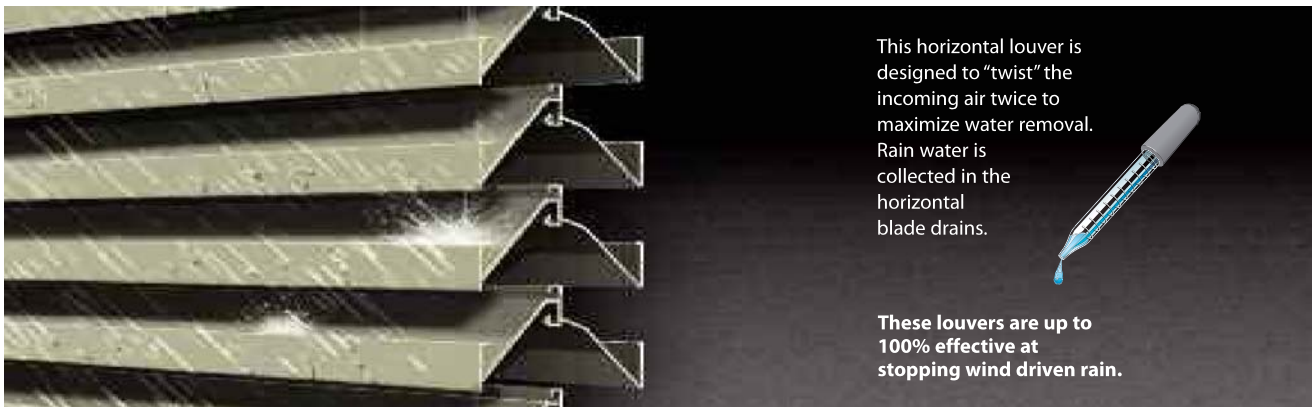
The Problem With Conventional Louvers

The flat design of conventional louver blades does little to prevent wind driven rain from passing through them, even in sheltered areas.



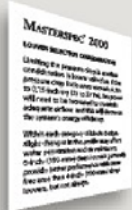
C/S Storm Resistant Louvers Stop Rain and Prevent Costly Damage.

The C/S Wind Driven Rain Test Facility (pages 4-5) allows C/S to analyze the performance of all of our louvers. Through experimentation with bending wind, C/S Engineers have designed horizontal and vertical louver systems that allow air in buildings while keeping water out.



AIR FLOW

Specifying louvers on free area alone can cause serious problems.

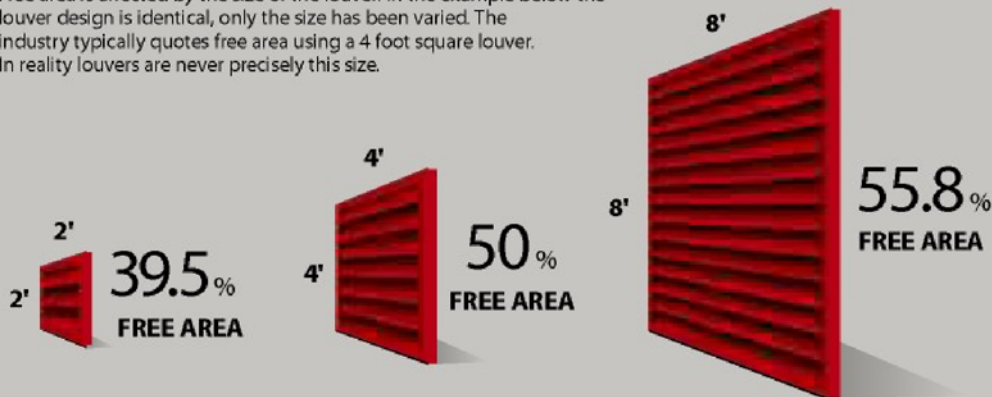


To prevent airflow problems specify louvers using both static pressure drop and free area.

The principle reason for using louvers is to move air. How do you know if the louver you specify will actually deliver the air volume the engineer called for? History has shown that sizing and specifying louvers based on free area alone can cause problems for architects and owners alike. The illustrations on these pages explain what to do to prevent under or oversizing louvers.

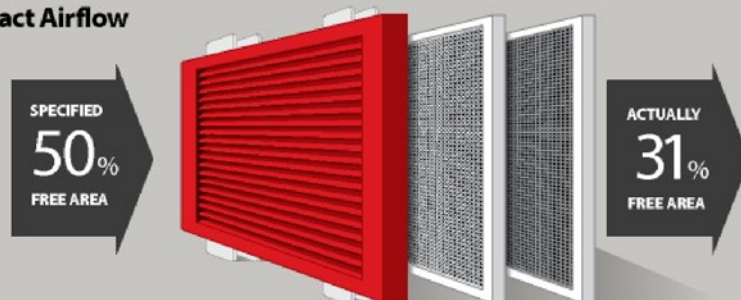
When You Specify a 50% Free Area Louver, What Are You Really Getting?

Free area is affected by the size of the louver. In the example below the louver design is identical, only the size has been varied. The industry typically quotes free area using a 4 foot square louver. In reality louvers are never precisely this size.



Other Factors Also Impact Airflow

Louver frames add resistance to airflow. Mullions, structural supports, bird screens and insect screens also reduce airflow.



**Get The Right Louver Every Time
With The New C/S Online Airflow Tool.**

Construction Specialties, Inc. certifies that louver models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to air performance ratings and water penetration ratings.

AMCA Certified Models

- A4097
- A6097
- A6155
- DC-5304
- DC-6174
- DCV-5704
- DCH-5704
- GS-407
- GS-410
- GS-607
- GS-610
- LS-100
- LS-100/4080
- LS-105
- RS-7705
- RSH-5700
- RSV-5700
- RS-2300
- RS-4605
- RS-5300
- RS-5605
- RS-7305
- RS-8400
- RS-8615
- RS-9615
- A4080
- A4085
- A4100-A4120
- A4105-A4125
- A4110-A4130
- A4115-A4135



The C/S airflow tool @ www.c-sgroup.com takes the guesswork out of louver selection. Get the correct louver, free area and pressure drop every time.

1

Louver: 1242

Width (Inches): 48

Height (Inches): 48

Wind Load (Mph): 20

Calculate

Choose the louver model and input the louver's width, height and wind load criteria.

2

Calculate

Free Area (%): 40.13%

Free Area (Sq Ft): 7.23 Sq Ft

The calculations will appear revealing the louver's free area and pressure drop.

3

Details, Specs, Photos

Details, Specs, Photos

Details, Specs, Photos

Details, Specs, Photos

Details, Specs, Photos

Details, Specs, Photos

Details, Specs, Photos

Details, Specs, Photos

For complete information on the louver that meets your criteria, click on Details, Specs and Photos.

AESTHETICS

How will louvers impact your building's design?

Color, texture, size, shape, mullions, continuous line – these are just some of the aesthetic options open to you when designing your louver system. Choose from the blade styles below or design your own. The following three pages show how some of these aesthetic options could look on your building.

C/S is concerned about the environment. Our louvers use recycled aluminum and we use an advanced powder coat finish that defends the louvers against windborne abrasives and corrosive atmospheres.

C/S exterior powder coat finishes contain no solvents, emit no "VOCs" and provides one Innovation LEED Credit.



Ask about our powder coat finishes.

Blade Styles

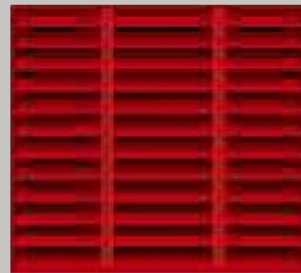
Does your design call for horizontal or vertical blades? Do you want an unbroken architectural line or are mullions acceptable? Whatever blade style or depth you require, C/S can supply it.



4" Architectural Line



6" Architectural Line



4" With Mullions



4" Vertical Line



Shape





One Raffles Quay, Singapore
 Architect: KPF
 Product: Custom Continuous
 Line Storm Resistant Louvers



**Northwestern University,
 Robert H. Lurie Research Center,**
 Evanston, IL
 Architects: HOK , Davis Brody Bond
 Product: Continuous Line Louvers - A6115



Children's Hospital of Philadelphia,
 Philadelphia, PA
 Architects: KPF and Ballinger
 Product: Continuous Storm Resistant
 Louvers - RS-7315

9th & Stewart Life Sciences Building,
 Architect: MBT Architecture
 Product: Drainable Louvers - A4097

Louvers Selection Chart

How to use this selection chart

Aesthetics:


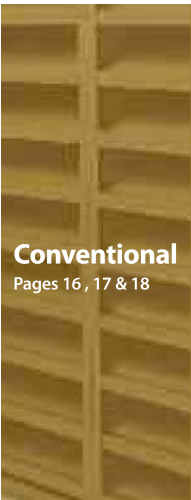
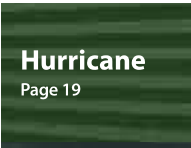
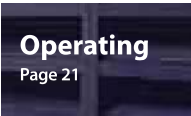


Decide what you want the louvers to look like on your building. Horizontal or vertical blades? Uninterrupted louver line or vertical breaks? A 2" louver blade providing no shadow lines or a 6" louver with heavy shadow lines?

Rain Defense:

Does it matter if rain enters your building? Would rain entry cause water sensitive equipment to shut down thereby preventing the building from functioning? Select a Storm Resistant or Hurricane Louver when stopping rain entry is important.

Air Flow:

Free area can be very misleading when determining airflow – see pages 10 & 11 and go to our website for project specific information.

Models		
Louver Type	Louver Model	Description
 Storm Resistant Pages 14 & 15	RS-8615	LOCATION SMART™
	RS-4605	VERTICAL
	RS-9615	LOCATION SMART™
	RS-5605	VERTICAL
	RS-4300	CHEVRON
	RS-7705	CHEVRON
	RS-5300	CHEVRON
	RS-2300	INVERTED CHEVRON
	RSH-5700	CHEVRON SIGHTPROOF
	RSV-5700	CHEVRON SIGHTPROOF
 Conventional Pages 16 , 17 & 18	A4080/A6080	30° STD. “Z” BLADE
	A4100/A6100	STD. “Z” BLADE
	A4110/A6110	STEP BLADE
	A4115/A6115	CONTINUOUS STEP BLADE
	GS-410/GS-610	FORMED STD/STEP BLADE
	A4097	DRAINABLE
	A6097	DRAINABLE
	A6155	DOUBLE DRAINABLE
	GS-407/GS-607	DRAINABLE
	2252	THINLINE PROFILES
	2272	THINLINE PROFILES
	2282	THINLINE PROFILES
	1302	THINLINE PROFILES
	0292	THINLINE PROFILES
 Hurricane Page 19	DCH-5704	CHEVRON SIGHTPROOF
	DCV-5704	CHEVRON SIGHTPROOF
	DC-6174	DRAINABLE
	DC-5304	STORM RESISTANT
 Operating Page 21	6917	DRAINABLE
	6870	STD. “Z” BLADE
	4830	STD. “Z” BLADE
 Acoustical Page 20	A12350	CHEVRON
	A12970	OPERATING
	A12370	STD. “Z” BLADE
	A8370	STD. “Z” BLADE
	A6370	STD. “Z” BLADE
	A8890	AIRFOIL
 Insulated See website	8990	OPERATING THERMAL BREAK
	9880	OPERATING AIRFOIL

Aesthetics <i>Pgs. 10-14</i>				
Horizontal Blades	Vertical Blades	Exposed Mullions	Continuous Line	
Yes	No	No	Yes	
No	Yes	No	Yes	
Yes	No	No	Yes	
No	Yes	No	Yes	
Yes	No	Yes	No	
Yes	No	No	Yes	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
No	Yes	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	No	Yes	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	No	Yes	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
No	Yes	Yes	No	
Yes	No	Yes	Yes	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	
Yes	No	Yes	No	

Brick vents, door vents, and penthouses available. Visit www.c-sgroup.com or call 800-631-7379. For additional models please refer to the product pages following this selection chart.

					Rain Defense <small>Pgs. 6 & 7</small>		Airflow <small>Pgs. 8 & 9</small>	
	Custom Face	Approx. Blade Spacing (in.)	Blade Angle (in degrees)	Louver Depth (in.)	Wind Driven Rain Resistance Low	Wind Driven Rain Resistance High	Free Area 4' x 4'	Free Area 8' x 8'
	Yes	4"	45°	8"	■ ■ ■ ■ ■ ■ ■		53.3%	56.6%
	No	2"	N/A	4"	■ ■ ■ ■ ■ ■ ■		53.3%	54.7%
	Yes	4"	45°	9"	■ ■ ■ ■ ■ ■ ■		59.1%	61.5%
	No	1"	N/A	5"	■ ■ ■ ■ ■ ■ ■		59.1%	51.0%
	No	2-1/8"	N/A	4"	■ ■ ■ ■		47.1%	50.4%
	No	3-7/8"	N/A	7"	■ ■ ■ ■ ■		50.5%	52.8%
	No	2-3/4"	N/A	5"	■ ■ ■ ■ ■		47.3%	51.5%
	No	1-1/2"	N/A	2"	■ ■ ■ ■		42.1%	44.0%
	No	2"	N/A	5"	■ ■ ■ ■ ■ ■ ■		45.8%	47.9%
	No	2"	N/A	5"	■ ■ ■ ■ ■ ■ ■		42.1%	44.0%
	No	4" / 6"	30°	4" / 6"	■ ■		54.0% / 56.1%	57.0% / 58.0%
	No	6" / 6-13/16"	45°	4" / 6"	■ ■		46.0% / 48.0%	50.0% / 52.0%
	No	6" / 6-13/16"	45°	4" / 6"	■ ■		46.0% / 48.0%	50.0% / 52.0%
	No	6" / 6-13/16"	45°	4" / 6"	■ ■		46.0% / 48.0%	50.0% / 52.0%
	No	4-1/2" / 6-1/4"	37°	4" / 6"	■ ■		43.0% / 46.0%	47.0% / 51.0%
	No	4"	37°	4"	■ ■		50.4%	54.9%
	No	6"	37°	6"	■ ■		52.1%	57.9%
	No	5-5/8"	38°	6"	■ ■		48.8%	53.9%
	No	3-7/8" / 5-3/8"	37°	4" / 6"	■ ■		55.4% / 54.1%	57.6% / 59.7%
	No	3"	40°	2"	■ ■		35.0%	37.2%
	No	1-1/2"	30°	2"	■ ■		55.0%	56.9%
	No	1-7/8"	N/A	2"	■ ■		39.0%	41.1%
	No	3/4"	45°	1-3/8"	■ ■		58.0%	59.3%
	No	1-1/4"	26°	1"	■ ■		64.0%	62.5%
	No	2"	N/A	5"	■ ■ ■ ■ ■ ■ ■		45.8%	47.9%
	No	2"	N/A	5"	■ ■ ■ ■ ■ ■ ■		42.1%	44.0%
	No	5-3/4"	37°	6"	■ ■		57.0%	60.0%
	No	2-3/4"	N/A	5"	■ ■ ■ ■ ■		45.0%	49.4%
	No	6-3/16"	43°	6"	■ ■ *		40.6%	47.3%
	No	5-5/8"	30°	6"	■ ■ *		53.2%	60.2%
	No	5-5/8"	40°	4"	■ ■ *		33.1%	35.6%
	No	11-3/4"	N/A	12"	■ ■		23.3%	31.1%
	No	12"	45°	12"	■ ■ *		22.0%	25.5%
	No	12"	45°	12"	■ ■		24.3%	28.3%
	No	8-1/2"	45°	8"	■ ■		23.0%	28.8%
	No	10"	45°	6"	■ ■		21.6%	24.3%
	No	6"	46°	8-3/4"	■ ■		28.5%	33.3%
	No	8"	N/A	8"	■ ■ *		43.0%	51.0%
	No	9"	N/A	9-1/2"	■ ■ *		55.3%	65.0%

*In closed position louver offers highest rain defense.

Storm Resistant

Choose Storm Resistant Louvers when:

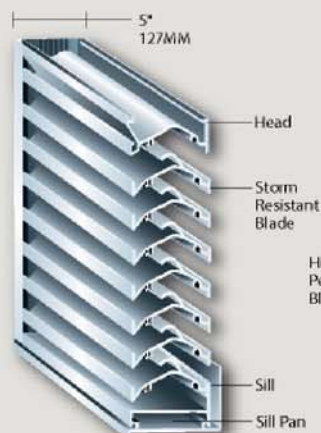
- Keeping up to 100% of rain out of your building is a priority
- Wind driven rain is prevalent
- Using a plenum is impractical because of cost or space considerations
- Sensitive equipment will be housed close to the louver system



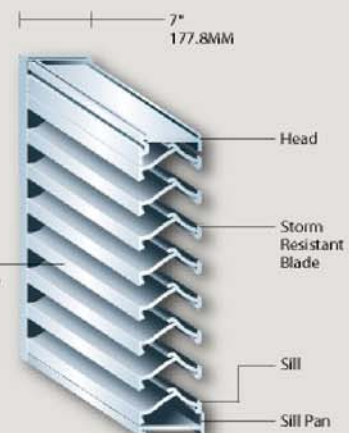
Shown:
Model RS-7705



Model RS-2300



Model RSH-5700



Model RS-7705

Louver Model	Description	Configuration	Blade Spacing	Louver Depth	Rain Defense Low High	Free Area 4' X 4'	8' X 8'	PD @ 900 FPM
RS-5300	Chevron Sightproof	Mullion	2-3/4"	5"	■ ■ ■ ■ ■	47.3%	51.5%	0.32
RSH-5700	Chevron Sightproof	Mullion	2"	5"	■ ■ ■ ■ ■ ■ ■	45.8%	47.9%	0.13
RS-4300	Chevron Sightproof	Mullion	2-1/8"	4"	■ ■ ■ ■ ■	47.1%	50.7%	0.30
RS-2300	Inverted Chevron Sightproof	Mullion	1-1/2"	2"	■ ■ ■ ■ ■	42.1%	44.0%	0.51
RSV-5700	Vertical Chevron Sightproof	Mullion	2"	5"	■ ■ ■ ■ ■ ■ ■	42.1%	44.0%	0.13
RS-7705	Chevron Sightproof	Cont. Line	3-7/8"	7"	■ ■ ■ ■ ■ ■ ■	50.5%	52.8%	0.25

For CAD Details & Specifications visit www.c-sgroup.com/louvers

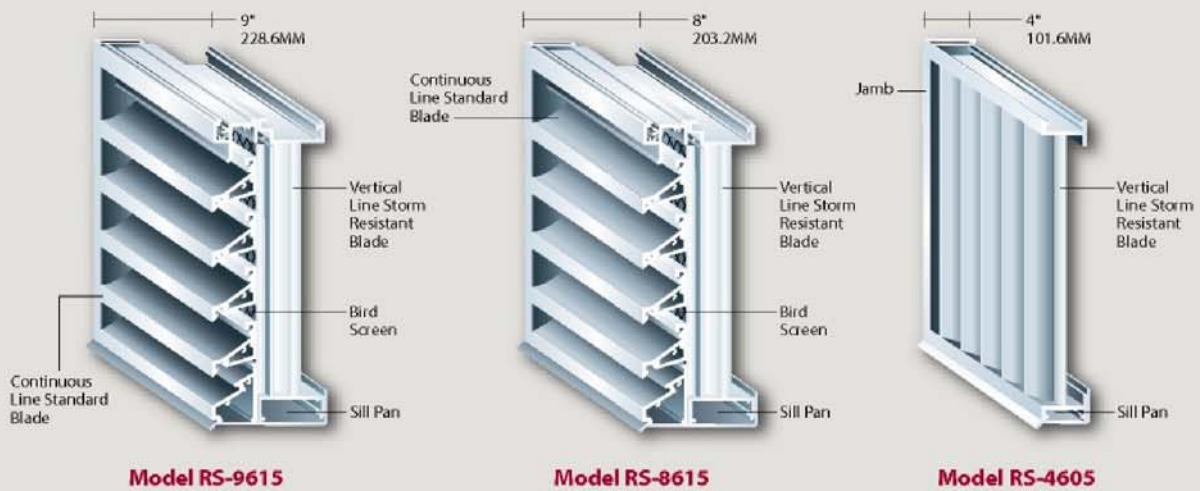
Storm Resistant

Choose Storm Resistant Louvers when:

- Keeping 100% of water out of your building is an absolute necessity
- If your building is subjected to wind driven rain up to 90 mph with 9" of water per hour
- Integrating the louver into the building design is a priority. Louvers can be housed behind architectural grilles, architectural detailing or continuous line louvers



Shown:
Model RS-8615



Louver Model	Description	Configuration	Blade Spacing	Louver Depth	Rain Defense Low High	Free Area 4' X 4'	8' X 8'	PD @ 900 FPM
RS-8615	Louver Blade or Grille Front	Cont. Line	4"	8"	■■■■■■■■	53.3%	56.6%	0.37
RS-4605	Chevron	Vertical	2"	4"	■■■■■■■■	53.3%	56.6%	0.25
RS-9615	Louver Blade or Grille Front	Cont. Line	4"	9"	■■■■■■■■	59.1%	59.1%	0.30
RS-5605	Chevron	Vertical	1"	5"	■■■■■■■■	59.1%	62.9%	0.08

For CAD Details & Specifications visit www.c-sgroup.com/louvers

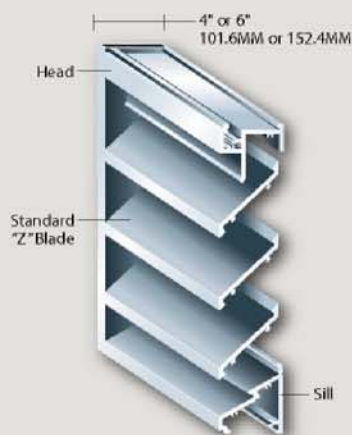
Conventional



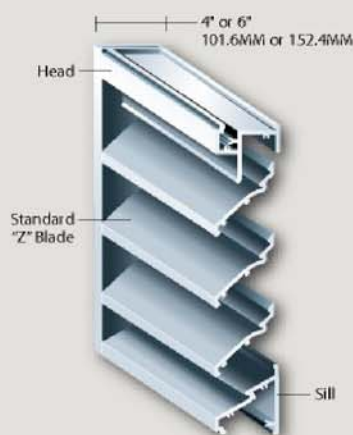
Shown:
Model A6100

Choose Standard Louvers when:

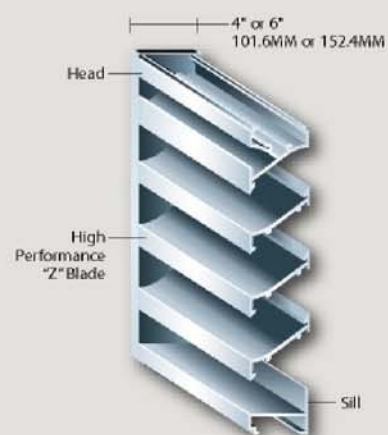
- Occasional water penetration will not cause significant problems
- Economy is the primary consideration
- High free area is important
- A variety of blade and frame styles/options are important



Models A4100 & A6100



Models A4110 & A6110



Models A4080 & A6080

Louver Model	Description	Configuration	Blade Spacing	Louver Depth	Rain Defense Low	Rain Defense High	Free Area 4' X 4'	Free Area 8' X 8'	PD @ 900 FPM
A4080/A4085	30° Flat Blade	Mullion/Cont. Line	4"	4"	■ ■		54.0%	57.0%	0.15
A4100/A4105	45° Flat Blade*	Mullion/Cont. Line	6"	4"	■ ■		46.0%	50.0%	0.17
A4110/A4115	45° Step Blade*	Mullion/Cont. Line	6"	4"	■ ■		46.0%	50.0%	0.18
4180	Chevron Sightproof	Mullion/Cont. Line	4-1/8"	4"	■ ■		26.0%	35.0%	0.09
4190	Chevron Tamperproof	Mullion	3-3/4"	4"	■ ■		32.0%	35.0%	0.54
A6080/A6085	30° Flat Blade	Mullion/Cont. Line	6"	6"	■ ■		56.1%	58.0%	0.16
A6100/A6105	45° Flat Blade*	Mullion/Cont. Line	6-13/16"	6"	■ ■		48.0%	52.0%	0.15
A6110/A6115	45° Step Blade	Mullion/Cont. Line	6-13/16"	6"	■ ■		48.0%	52.0%	0.17
GS-410	45° Step Blade Steel	Mullion/Cont. Line	4-1/2"	4"	■ ■		43.0%	47.0%	0.13
GS-610	45° Step Blade Steel	Mullion/Cont. Line	6-1/4"	6"	■ ■		46.0%	51.0%	0.12

* 0.125 (3.18mm) thickness available.

For CAD Details & Specifications visit www.c-sgroup.com/louvers

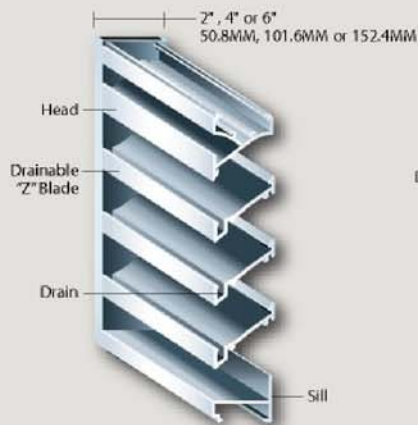
Conventional

Choose Drainable Louvers when:

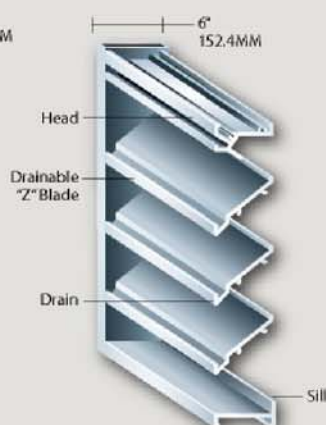
- The periodic entry of water from non-wind driven rain is not a prime concern
- Some drainage of cascading water is necessary
- A variety of blade sizes, styles and frames are important



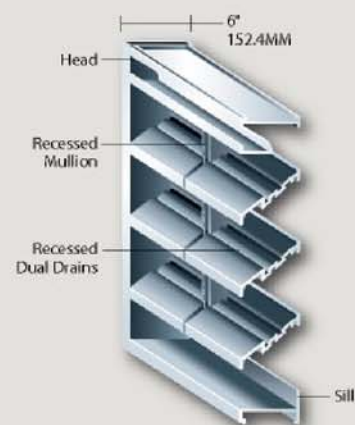
Shown:
Model A6097



Models A2097 & A4097 & A6097



Model A6177



Model A6155

Louver Model	Description	Configuration	Blade Spacing	Louver Depth	Rain Defense Low	Rain Defense High	Free Area 4' X 4'	Free Area 8' X 8'	PD @ 900 FPM
A2097	Drainable	Mullion	1-7/8"	2"	■ ■		52.3%	56.9%	0.13
A4097	Drainable	Mullion	4"	4"	■ ■		50.4%	54.9%	0.16
A6097	Drainable	Mullion	6"	6"	■ ■		52.1%	57.9%	0.13
4157	Double Drainable	Mullion	3-1/2"	4"	■ ■		49.6%	53.5%	0.14
5157	Chevron Drainable	Mullion	2-1/2"	5"	■ ■		52.9%	56.1%	0.22
6177	High Perf. Drainable	Mullion/Cont. Line	5-3/4"	6"	■ ■		57.0%	60.0%	0.14
A6155	Double Drainable	Cont. Line	5-5/8"	6"	■ ■		48.8%	53.9%	0.11
A6157	Double Drainable	Mullion	6"	6"	■ ■		45.8%	48.9%	0.13
GS-407	Drainable Steel	Mullion	3-7/8"	4"	■ ■		55.4%	57.6%	0.13
GS-607	Drainable Steel	Mullion	5-3/8"	6"	■ ■		54.1%	59.7%	0.13

For CAD Details & Specifications visit www.c-sgroup.com/louvers

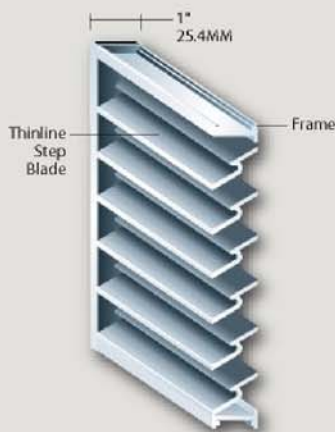
Thinline

Choose Thinline Louvers when:

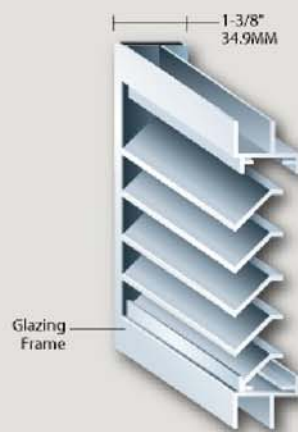
- Standard 4" or 6" deep louvers are not practical in applications such as curtain walls, interior and exterior partitions and window walls
- High free area and low pressure drop requirements are a priority: specify air conditioning louvers
- Water is a problem: specify RS-2300
- Channel, flange or glazing frames are required



Shown:
Model 2252



Model 0292



Model 1302G



Model RS-2300

Louver Model	Description	Configuration	Blade Spacing	Louver Depth	Rain Defense Low	Rain Defense High	Free Area 4' X 4'	Free Area 8' X 8'	PD @ 900 FPM
0292	30° Step Blade	Cont. Line	1-1/4"	1"	■ ■		64.0%	62.5%	0.095
1242	30° Step Blade	Cont. Line	1-1/8"	1-3/8"	■ ■		46.0%	46.2%	0.07
2272	30° Step Blade	Cont. Line	1-1/2"	2"	■ ■		55.0%	56.9%	0.095
2252	Step Blade	Cont. Line	3"	2-1/4"	■ ■		35.0%	37.2%	0.13
1322	Flat Blade	Cont. Line	1-3/4"	1-3/8"	■ ■		32.0%	32.5%	0.10
2322	Flat Blade	Cont. Line	2-1/2"	2"	■ ■		39.3%	40.2%	0.13
1282	Chevron Sightproof	Cont. Line	1-3/8"	1-3/8"	■ ■		39.3%	40.0%	0.75
2282	Chevron Sightproof	Cont. Line	1-7/8"	2"	■ ■		39.0%	41.1%	0.64
1302G	Air Cond. PTAC Louver	Cont. Line	3/4"	1-3/8"	■ ■		58.0%	59.3%	0.15
RS-2300	Storm Resistant	Cont. Line	1-1/2"	2"	■ ■ ■ ■		42.3%	43.5%	0.32

For CAD Details & Specifications visit www.c-sgroup.com/louvers

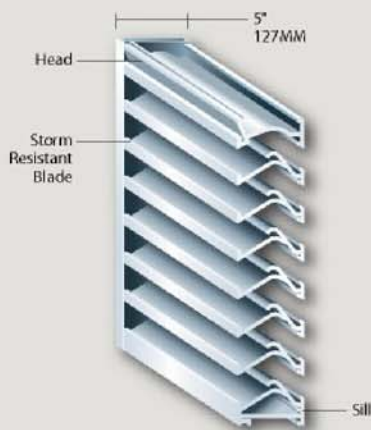
Hurricane

Choose Hurricane Louvers when:

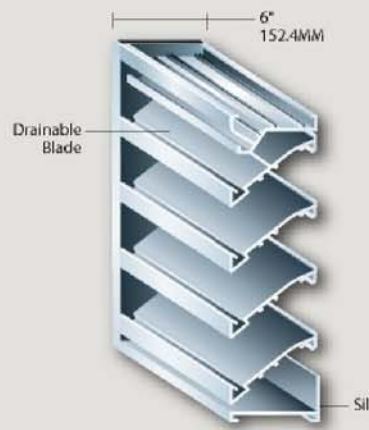
- Your building is subjected to severe weather from hurricanes, tropical storms and tornadoes
- Total envelope protection is required from hurricanes including: 120 PSF winds, missile protection and 100% water penetration
- All models below are Dade County Impact Test approved



Shown:
Model DC-5304



Model DCV-5704



Model DC-6174



Model DC-5304

Louver Model	Description	Configuration	Blade Spacing	Louver Depth	Rain Defense Low High	Free Area 4' X 4'	Free Area 8' X 8'	PD @ 900 FPM
DC-5304	Chevron Storm Resistant	Mullion	2-3/4"	5"	■ ■ ■ ■ ■	45.0%	49.4%	0.32
DC-7034	Louver Blade Front	Cont. Line	4"	11"	■ ■ *	40.0%	47.0%	0.20
DC-6174	Drainable	Mullion/Cont. Line	5-3/4"	6"	■ ■	57.0%	60.0%	0.14
DC-7044	Louver Blade Front	Cont. Line	4"	11"	■ ■	53.0%	55.1%	0.20
DC-7024	Louver Blade Front	Cont. Line with Rain Rejection Module	4"	11"	■ ■ ■ ■ ■ ■ ■	41.3%	42.0%	0.25
DCV-5704	Chevron Sightproof	Mullion	2"	5"	■ ■ ■ ■ ■ ■ ■	42.1%	44.0%	0.13
DCH-5704	Chevron Sightproof	Mullion	2"	5"	■ ■ ■ ■ ■ ■ ■	45.8%	47.9%	0.13

* In closed position louver offers highest rain defense.

For CAD Details & Specifications visit www.c-sgroup.com/louvers

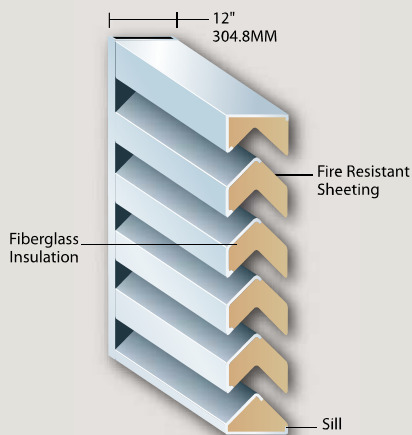
Acoustical

Choose Acoustical Louvers when:

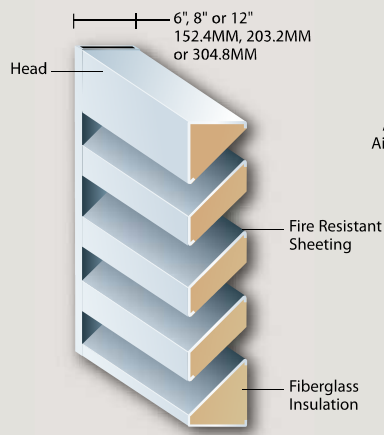
- n Sound attenuation or minimizing noise is essential
- n Reducing sound levels that escape from exterior or interior walls is necessary
- n Maximum noise reduction is required: specify model A12350
- n Maximum free area and reducing noise is important: specify models A8890 or A8860



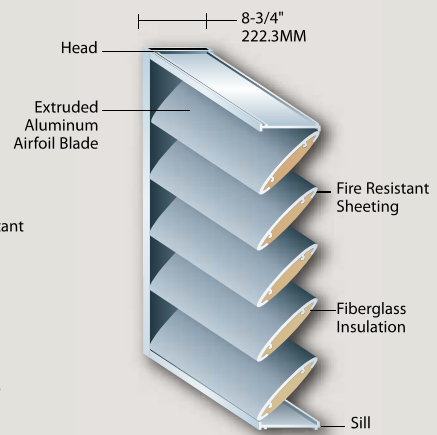
Shown:
Model A12350



Model A12350



Model A12370



Model A8890

Louver Model	Description	Configuration	Blade Spacing	Louver Depth	Rain Defense Low High	Free Area 4' X 4' 8' X 8'		PD @ 900 FPM
A6370	Flat Blade	Mullion	10"	6"	■ ■	21.6%	24.3%	0.09
A8370	Flat Blade	Mullion	8-1/2"	8"	■ ■	23.0%	28.8%	0.08
A12350	Chevron Sightproof	Mullion	11-3/4"	12"	■ ■	23.3%	31.1%	0.17
A12360	Flat Blade	Mullion	15"	12"	■ ■	24.3%	30.4%	0.09
A12370	Flat Blade	Mullion	12"	12"	■ ■	24.3%	28.3%	0.07
A12970	Flat Blade Operating	Mullion	12"	12"	■ ■ *	22.0%	25.5%	0.15
A8890	Airfoil Blade	Mullion	6"	8-3/4"	■ ■	28.5%	33.3%	0.05
A8860	Operating Airfoil	Mullion	6"	9-1/2"	■ ■ *	28.5%	33.3%	0.06

* In closed position louver offers highest rain defense.

For CAD Details & Specifications visit www.c-sgroup.com/louvers

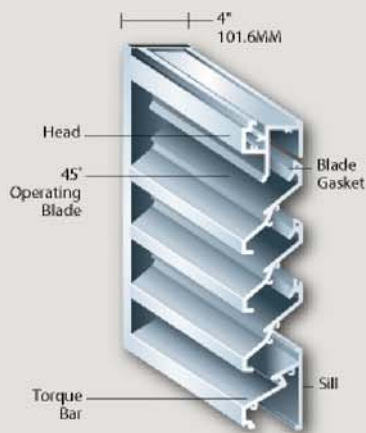
Operating

Choose Operating Louvers when:

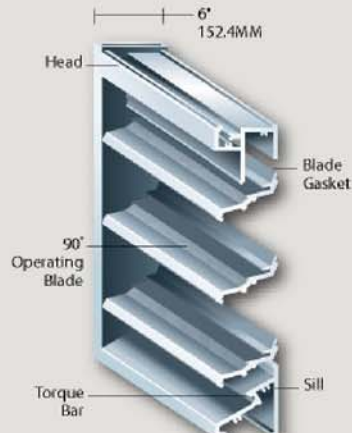
- Controlling the amount of airflow through the louver at any given time is a requirement
- Preventing rain, sleet or snow from entering the building is important (closed position only)
- Providing security from external intrusion is a priority
- The louver must close, but must have a fixed blade appearance: specify model 6917 or 6967



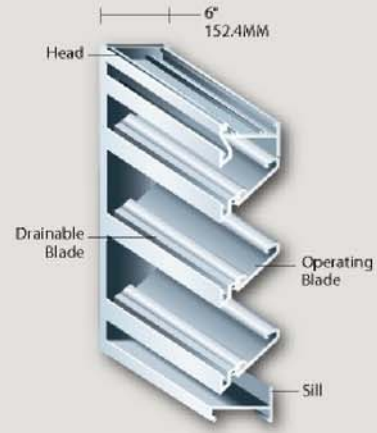
Shown:
Model 6917



Model 4830



Model 6870



Model 6917

Louver Model	Description	Configuration	Blade Spacing	Louver Depth	Rain Defense Low High	Free Area 4' X 4' 8' X 8'	PD @ 900 FPM
4830	45° Step Blade	Mullion	5-5/8"	4"	■ ■ *	33.1% 35.6%	0.13
6870	90° Step Blade	Mullion	5-5/8"	6"	■ ■ *	53.2% 60.2%	0.15
6917	Single Drainable	Mullion	6-3/16"	6"	■ ■ *	40.6% 47.3%	0.18
6967	Double Drainable	Mullion	5-3/4"	6"	■ ■ *	45.2% 48.4%	0.08

* In closed position louver offers highest rain defense.

For CAD Details & Specifications visit www.c-sgroup.com/louvers

C/S Louvers for use with CENTRIA Formawall® Dimension Series® Panel Systems

CENTRIA and Construction Specialties have formed a unique partnership to share the design, manufacturing and innovation that has made each company a leader in its respective field. **This collaboration assures complete integration of C/S Louvers and Sunshades into CENTRIA's Formawall® Dimension Series Panels** and CENTRIA's Formavue™ Windows.

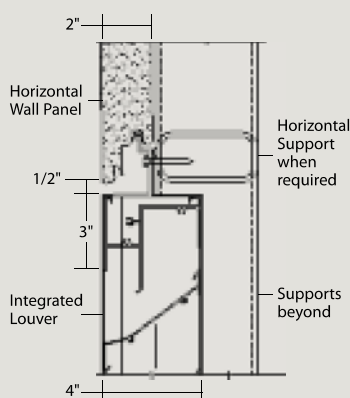
C/S Integrated Louvers are available in 4", 5", 6" and 7" depths. Fixed, drainable and storm resistant models with **Class A ratings** can be specified. C/S louver models include **common joinery elements** with Formawall panels to provide a seamless exterior facade. All C/S Louvers have been **tested to meet or exceed both AMCA and BSRIA test standards** and can be finished in any of CENTRIA's Colorstorm colors.

Two great companies means better buildings

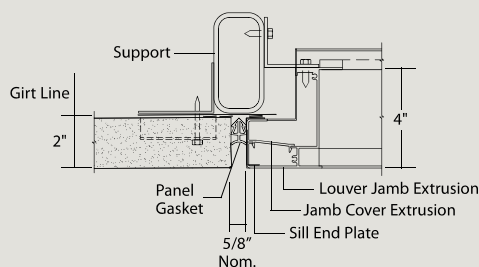
C/S, the leader in architectural Louvers and Sun Controls, has joined forces with CENTRIA, the leader in metal wall systems, to offer specifiers and owners a totally integrated facade engineered to work together perfectly. Add to that the peace of mind that comes from single-source responsibility backed up by two great companies—the result, better buildings.

System Features:

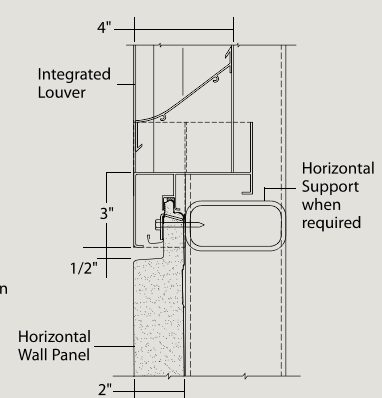
- Proven performance from Construction Specialties, a world leader and innovator in air movement technology
- Full line of fixed, drainable and storm resistant louvers, 4"-7"
- For both horizontal and vertical panel applications
- Fully integrated with Formawall Dimension Series joinery, sealing systems and sight lines
- Simplified installation and framing requirements



Head



Jamb

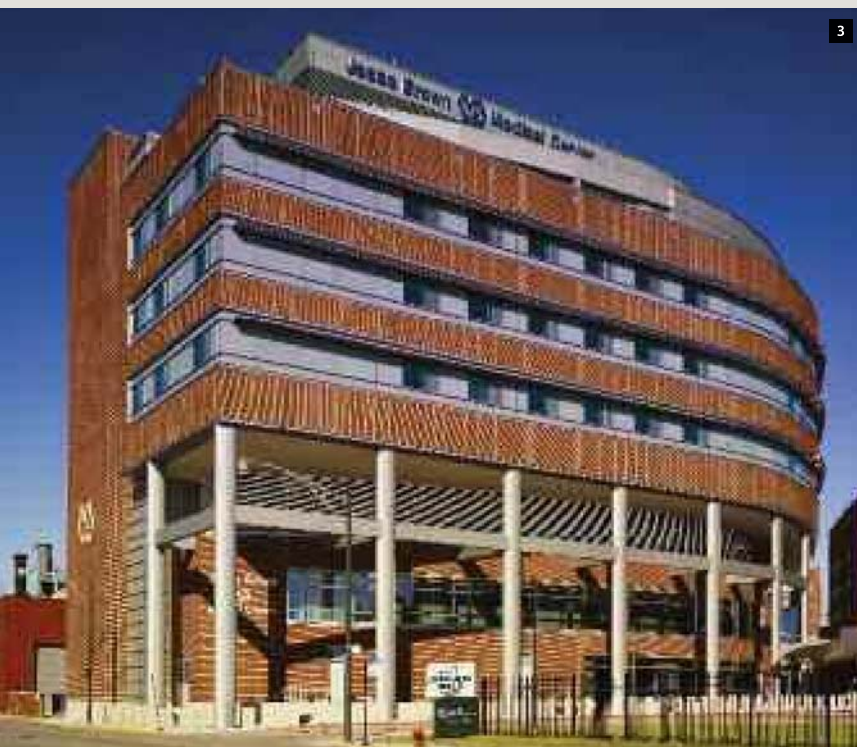


Sill



C/S Louvers on the job

- 1 Collins Power Station**
- 2 Medical University of South Carolina**
Architect: NBBJ and LS3P
- 3 Jesse Brown Veterans Administration Medical Center**
Architect: Skidmore, Owings & Merrill LLP
- 4 David L. Lawrence Convention Center**
Architect: Rafael Viñoly Architects





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The C/S Family of Products

For more than 60 years, Construction Specialties has been a leader in architectural specialty products, including: Acrovyn® Wall and Door Protection, Pedisystems® Entrance Flooring, Expansion Joint Covers, Cubicle Track and Curtains, Smoke and Explosion Venting Systems, Architectural Grilles, Architectural Louvers and Sun Controls.

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For the nearest C/S representative, or literature and samples, call toll free 800-631-7379 in U.S.A. and 888-895-8955 in Canada, or visit www.c-sgroup.com

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