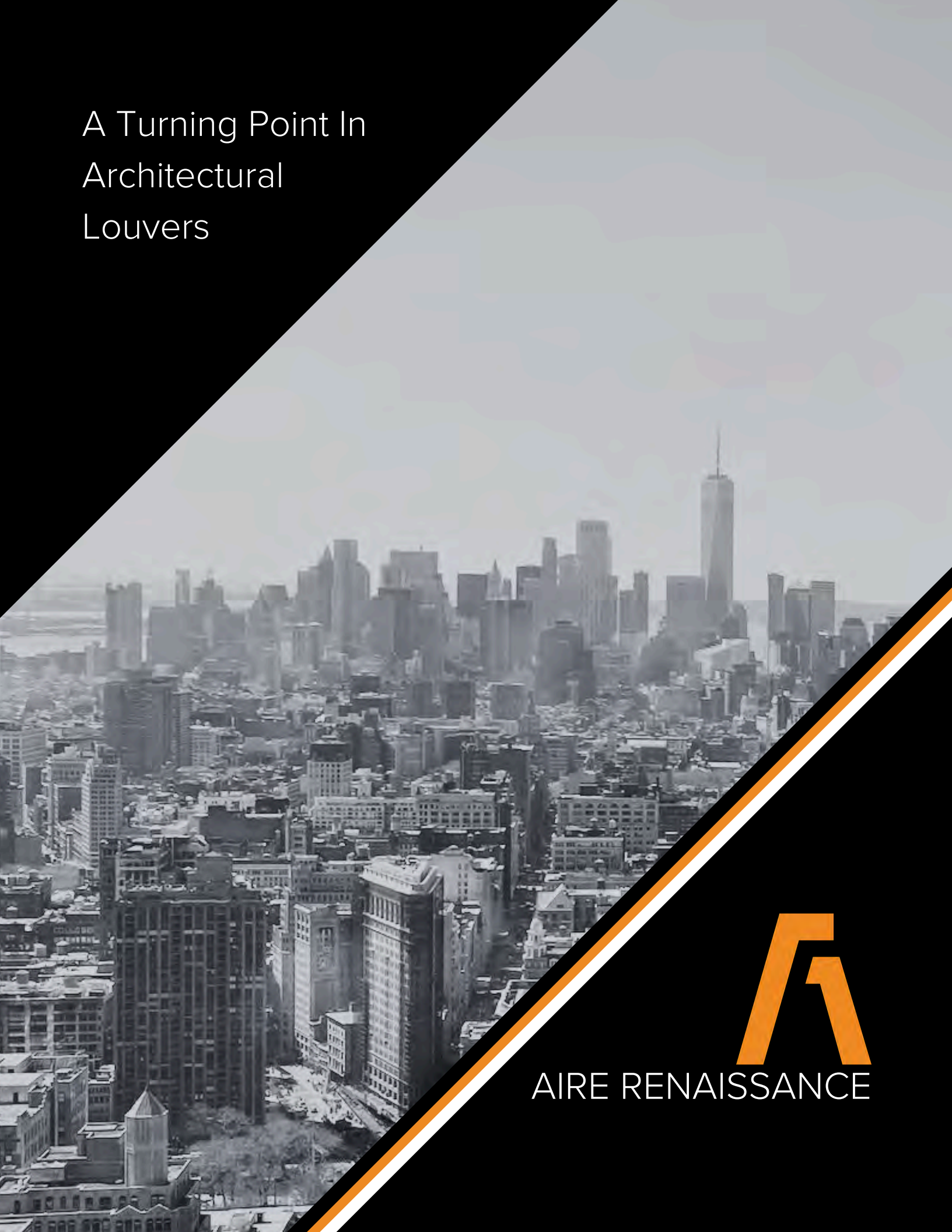


A Turning Point In
Architectural
Louvers



AIRE RENAISSANCE

A Turning Point In Architectural Louvers

Why is this a turning point for you?

In 1997, Lorraine and Bob left the corporate world and started an independent representative firm with one business model...ethical approach to consultation and high-end service within the architectural louver market. 25 years later and with the same proven methods, they started a US distributorship called **Aire Renaissance**. We are different because we don't gloss over topics. We talk about looping in the mechanical engineers, trade partners, owners and designers early on. We don't like seeing cut and paste specifications with little relevance to the project and stress the importance of quality shop drawings, engineering, service and communication. The results are less RFI's, accurate budgets and models that have relevance.

Our Leadership



Lorraine Cangemi

Lorraine has been the backbone of customer relations and smiles for over 20 years at Renaissance Building Products. Now she is the Chairwoman for Aire Renaissance, led by instinctual commitment to our clients by assisting our staff with quality communications, training, and positivity.



Bob Cangemi

Bob is the National Sales Director of Aire Renaissance, and with over 30 years of experience, is a recognized expert on the design and consultancy of complex architectural louvers.

Data Center Screen Walls

16

Equipment Screens

21

Storm Resistant Louvers

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Sand Rejection Louvers

13

Acoustical Louvers

10

Basic Louvers

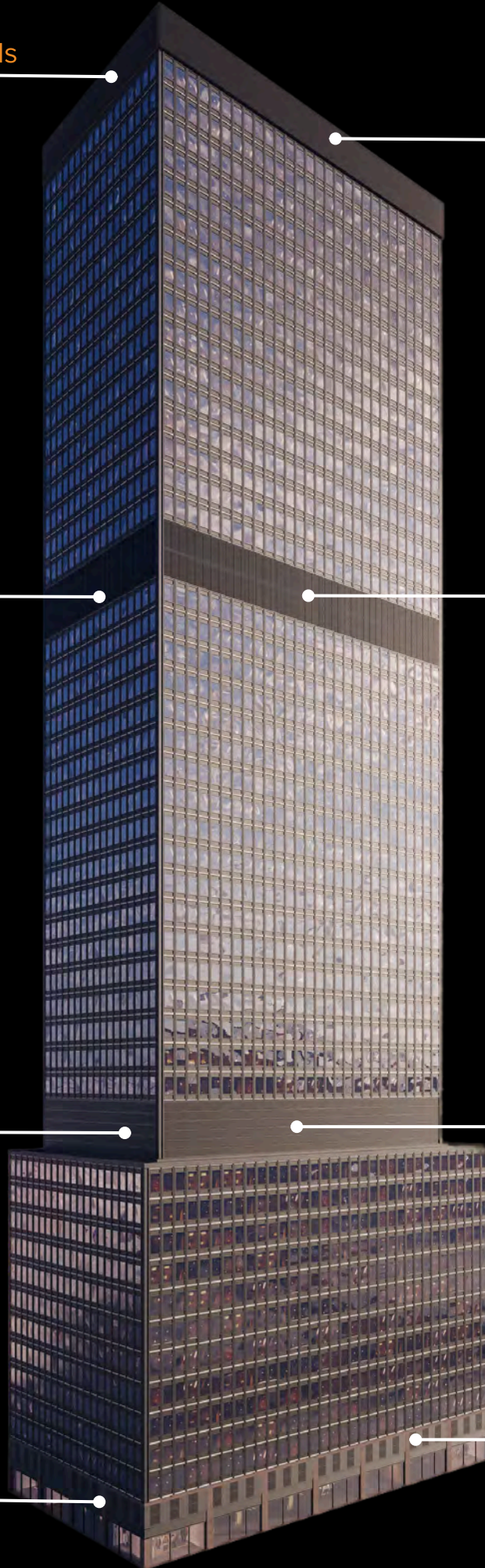
7

Data Center Louvers

16

Hidden Louvers

25



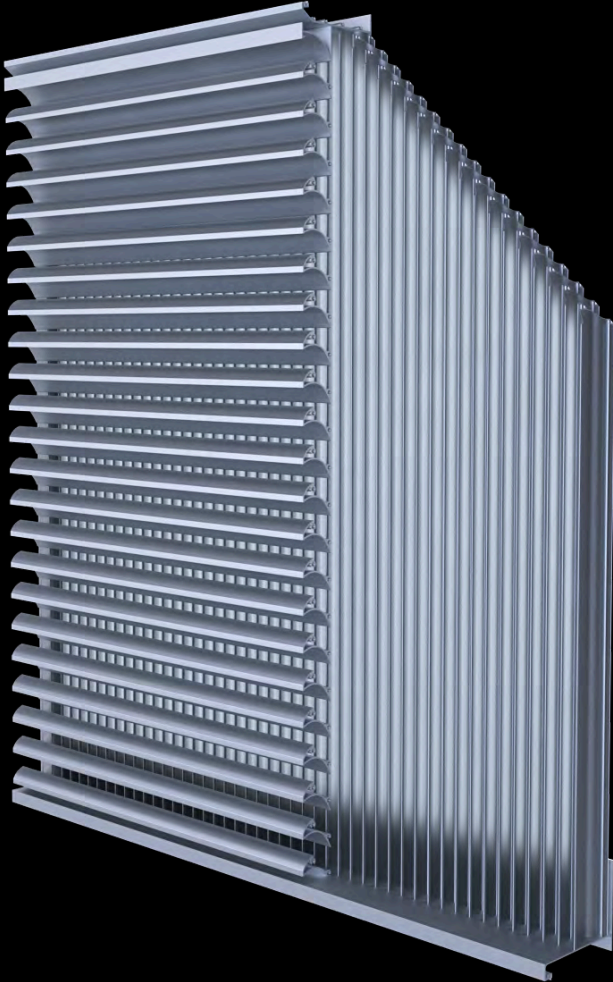


Storm Resistant Louvers

Storm Resistant Selection

Featured Model

RSR-550



Depth: 5.5"

AMCA-550/500-L Listed Hurricane/Storm-Resistant Louver

Product Features:

- Continuous line
- Mitered outside corners
- Blade reveal option at front lip for an accent color

Airflow Performance:

- Free area: 52.5%
- Pressure drop @ 1,000 fpm free area velocity = 0.39 in. wg

Wind Driven Performance:

- Beginning point of water penetration @ 0.01 oz. / ft² of free area = 1,250 fpm
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 984 fpm
- Maintains Class A rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 984 fpm



Storm Resistant Selection



RSR-400

AMCA 500-L
4"

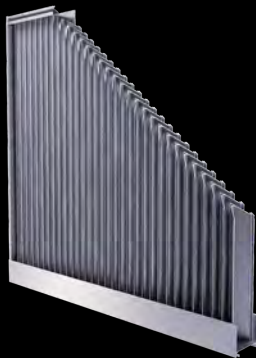
- Free area: 50%
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 791 fpm
- Maintains Class B rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 785 fpm
- Intake pressure drop @ 1,000 fpm free area velocity = 0.28 in. wg



RSR-500

AMCA 500-L
5"

- Free area: 48.6%
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 590 fpm
- Maintains Class B rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 887 fpm
- Intake pressure drop @ 1,000 fpm free area velocity = 0.18 in. wg



RSR-545V

AMCA 500-L, AMCA-540/550
5"

- Free area: 54.6%
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 984 fpm
- Maintains Class A rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 984 fpm
- Intake pressure drop @ 987 fpm free area velocity = 0.18 in. wg

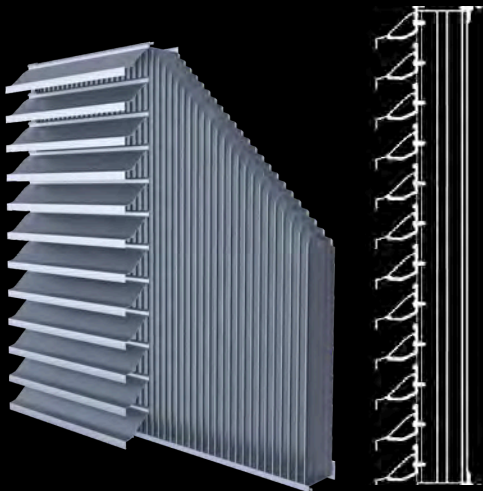
Storm Resistant Selection



RSR-700

AMCA 500-L
7"

- Free area: 54%
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 989 fpm
- Maintains Class A rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 786 fpm
- Intake pressure drop @ 1,000 fpm free area velocity = 0.25 in. wg



RSR-900

AMCA 500-L
9"

- Free area: 60%
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 888 fpm
- Maintains Class A rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 888 fpm
- Intake pressure drop @ 1,000 fpm free area velocity = 0.30 in. wg



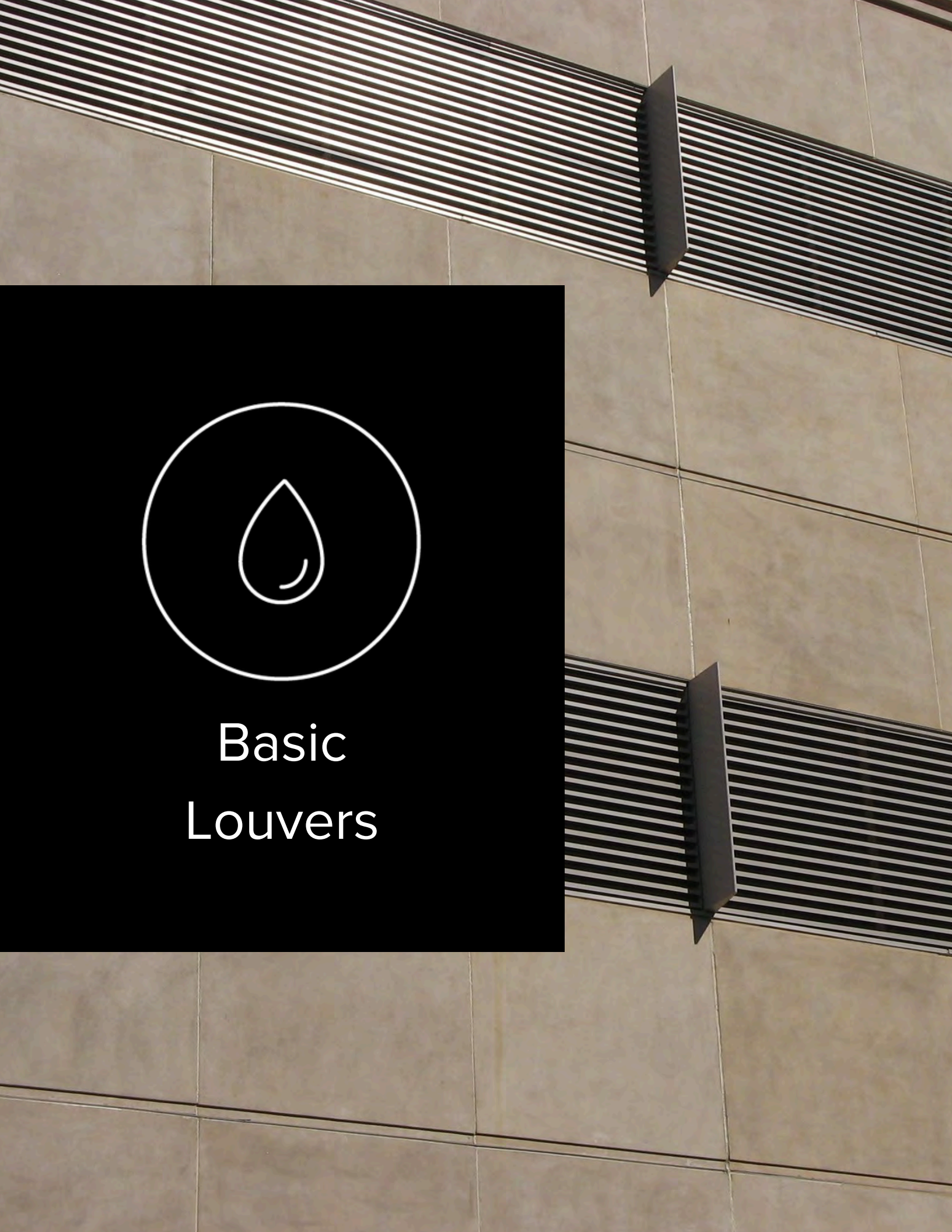
RSR-900HP

AMCA 500-L, AMCA-550
9"

- Free area: 55.6%
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 983 fpm
- Maintains Class A rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 894 fpm
- Intake pressure drop @ 987 fpm free area velocity = 0.30 in. wg



Basic
Louvers



Basic Selection



SL-220

AMCA 500-L
2"

- Free area: 54%
- Free area velocity at beginning point of water penetration = 685.2 fpm
- Pressure drop at beginning point of water penetration = 0.04 in. wg
- Pressure drop at 1,000 fpm free area velocity = 0.15 in. wg



SL-440

AMCA 500-L
4"

- Free area: 57%
- Free area velocity at beginning point of water penetration = 879 fpm
- Pressure drop at beginning point of water penetration = 0.12 in. wg
- Pressure drop at 1,000 fpm free area velocity = 0.15 in. wg



SL-660

AMCA 500-L
6"

- Free area: 55%
- Free area velocity at beginning point of water penetration = 840 fpm
- Pressure drop at beginning point of water penetration = 0.10 in. wg
- Pressure drop @ 1,000 fpm free area velocity = 0.15 in. wg

Basic Selection



DL-440

AMCA 500-L
4"

- Free area: 53%
- Free area velocity at beginning point of water penetration = 973 fpm
- Pressure drop at beginning point of water penetration = 0.12 in. wg
- Pressure drop at 1,000 fpm free area velocity = 0.13 in. wg



DL-660

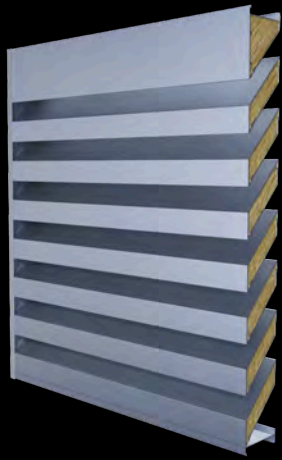
AMCA 500-L
6"

- Free area: 55%
- Free area velocity at beginning point of water penetration = 926 fpm
- Pressure drop at beginning point of water penetration = 0.12 in. wg
- Pressure drop at 1,000 fpm free area velocity = 0.14 in. wg



Acoustical Louvers

Acoustical Selection



AC-660

AMCA 500-L
6"

- STC - 12
- Free area: 21.3%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.12 in. wg
- Approved for rooftop enclosures with open air above



AC-845AF

AMCA 500-L
8"

- STC - 10
- Free area: 25%
- Intake pressure drop at @ 1,000 fpm free area velocity = 0.07 in. wg
- Approved for rooftop enclosures with open air above

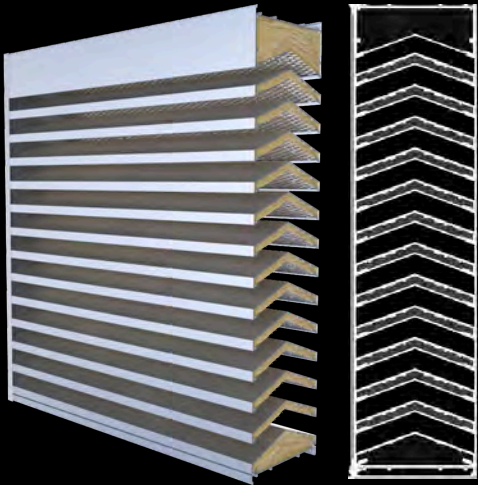


AC-860

AMCA 500-L
8"

- STC - 15
- Free area: 28%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.12 in. wg
- Approved for rooftop enclosures with open air above

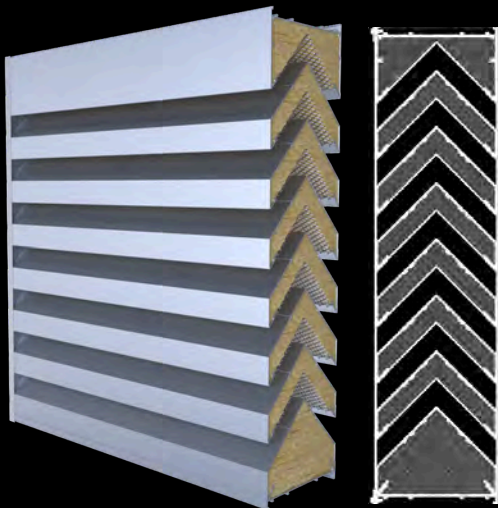
Acoustical Selection



AC-1220V

AMCA 500-L
12.8"

- STC - 12
- Free area: 54% based on a louver size of 48" x 48"
- Free area: 56% based on a louver size of 48" x 96"
- Intake pressure drop @ 1,000 fpm free area velocity = 0.10 in. wg
- Approved for rooftop enclosures with open air above



AC-1230V

AMCA 500-L
12.8"

- STC - 20
- Free area: 28%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.22 in. wg
- Approved for rooftop enclosures with open air above

Specifier Note:

Our unique acoustical equipment screens are engineered for rooftop applications because there is no exposed acoustical membrane.



Sand Rejection Louvers



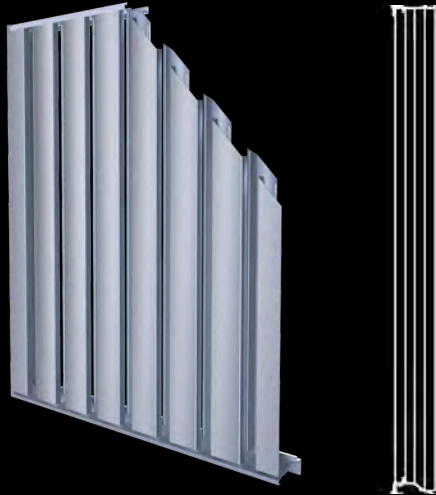
Sand Rejection Selection



SA-440V

4"

- Free area: 28.6%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.2 in. wg
- Tested as per BS EN13181:2001 for air performance and for sand rejection efficiency subjected to wind-driven sand at an airflow speed of 20-25 m/s
- **Available with a decorated perforated face option*



SA-440VE

**available with horizontal blades

4"

- Free area: 28.6%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.09 in. wg
- Tested as per AMCA 500-L99 standard for sand rejection efficiency subjected to wind-driven sand at an airflow speed of 20-25 m/s
- **Available with a decorated perforated face option*
- ***Available with horizontal blades*



SA-445

4"

- Free area: 40%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.17 in. wg
- Tested as per AMCA 500-L99 standard for sand rejection efficiency subjected to wind-driven sand at an airflow speed of 20-25 m/s
- **Available with a decorated perforated face option*

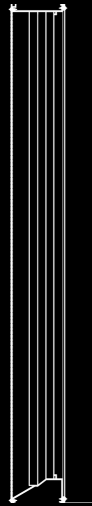
Sand Rejection Selection



SA-440V DF

8"

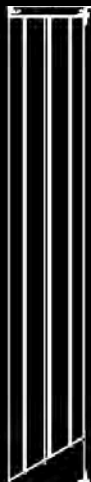
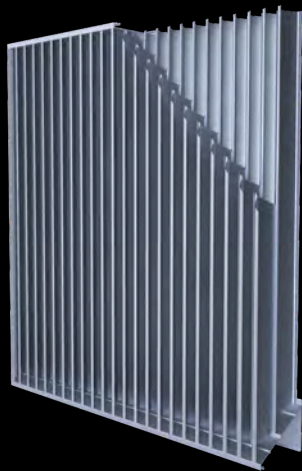
- Free area: 28.6%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.12 in. wg
- Tested as per BS EN13181:2001 for sand rejection efficiency subjected to wind-driven sand at an airflow speed of 20-25 m/s
- **Available with a decorated perforated face option*



SA-44VE-PF

6"

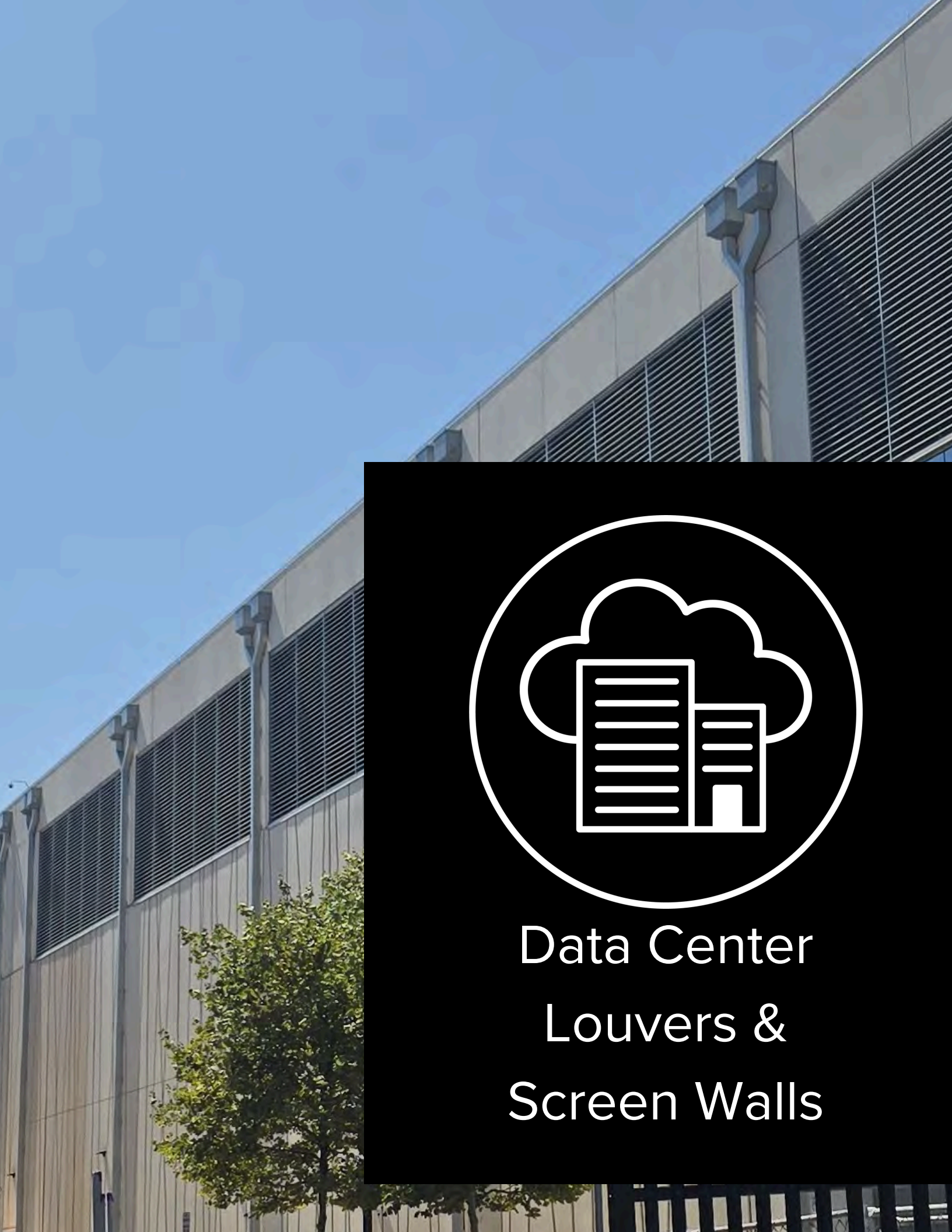
- Free area: 28.6%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.09 in. wg
- Tested as per BS EN13181:2001 for sand rejection efficiency subjected to wind-driven sand at an airflow speed of 20-25 m/s
- **Available with a decorated perforated face option*



SA-820V

8"

- Free area: 51%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.5 in. wg
- Tested as per AMCA 500-L99 standard for sand rejection efficiency subjected to wind-driven sand at an airflow speed of 20-25 m/s
- **Available with a decorated perforated face option*



Data Center
Louvers &
Screen Walls

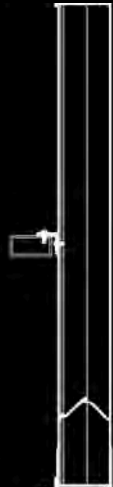
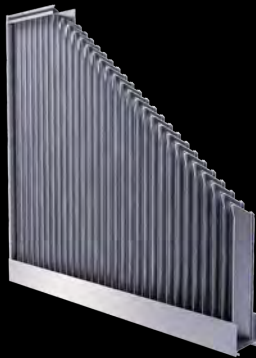
Data Center High Performance Louvers



RSR-550

AMCA 500-L, AMCA-550
5.5"

- Free area: 52.5%
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 984 fpm
- Maintains Class A rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 984 fpm
- Intake pressure drop @ 1,000 fpm free area velocity = .39"



RSR-545V

AMCA 500-L, AMCA-540 / 550
5"

- Free area: 54.6%
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 984 fpm
- Maintains Class A rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 984 fpm
- Intake pressure drop @ 987 fpm free area velocity = .18"

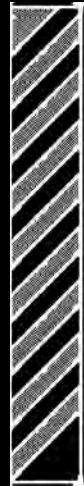


RSR-900HP

AMCA 500-L, AMCA-550
9"

- Free area: 55.6%
- Maintains Class A rating with 29 mph wind velocity @ 3 in/hr rainfall rate @ max. intake core velocity = 983 fpm
- Maintains Class A rating with 50 mph wind velocity @ 8 in/hr rainfall rate @ max. intake core velocity = 894 fpm
- Intake pressure drop @ 987 fpm free area velocity = 0.30 in. wg

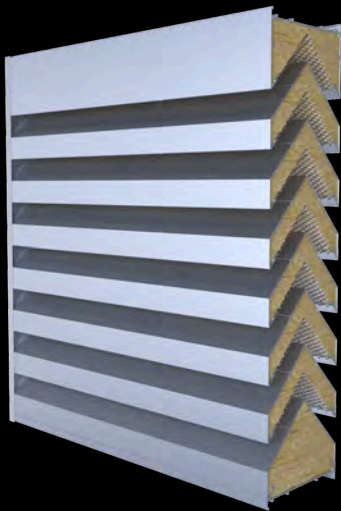
Data Center Acoustical Louvers and Equipment Screens



AC-860

AMCA 500-L
8"

- STC - 15
- Free area: 28%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.12 in. wg
- Approved for rooftop enclosures with open air above



AC-1230V

AMCA 500-L
12.8"

- STC - 20
- Free area: 28%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.22 in. wg
- Approved for rooftop enclosures with open air above

Specifier Note:

Our unique acoustical equipment screens are engineered for rooftop applications because there is no exposed acoustical membrane.

Data Center Non-Acoustical Equipment Screens



VS-320

AMCA 500-L
3"

- Free area: 40%
- Beautiful contemporary design
- Great for hiding man doors since the blades are vertical



VS-400C

AMCA 500-L
12.8"

- Free area: 28%
- Sight cut off: 100%
- Intake pressure drop @ 1,000 fpm free area velocity = .22 in. wg

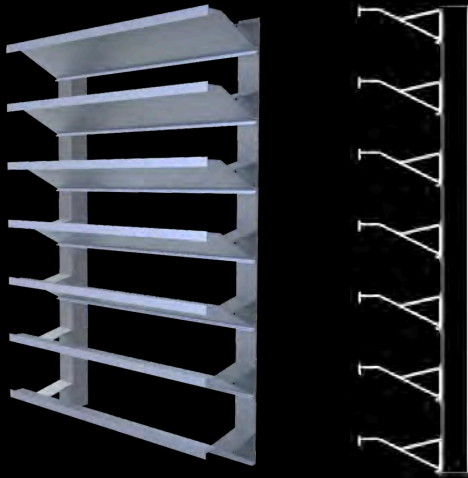


DC-640M

AMCA 500-L
6"

- Free area: 70%
- Sight cut off: 72%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.12 in. wg
- Sleek contemporary design

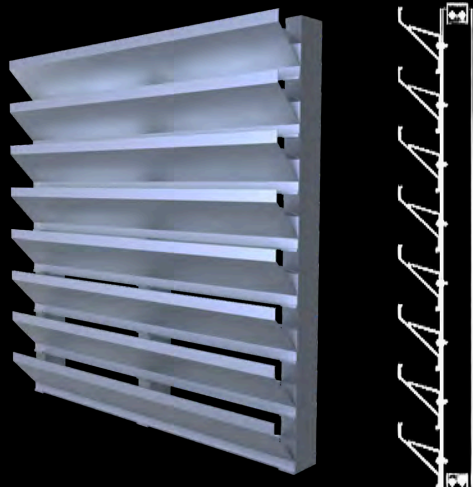
Data Center Non-Acoustical Equipment Screens



DC-650M

AMCA 500-L
6"

- Free area: 76%
- Sight cutoff: 60%
- Intake pressure drop @ 1,000 fpm free area velocity = 0.033 in. wg
- Sleek contemporary design



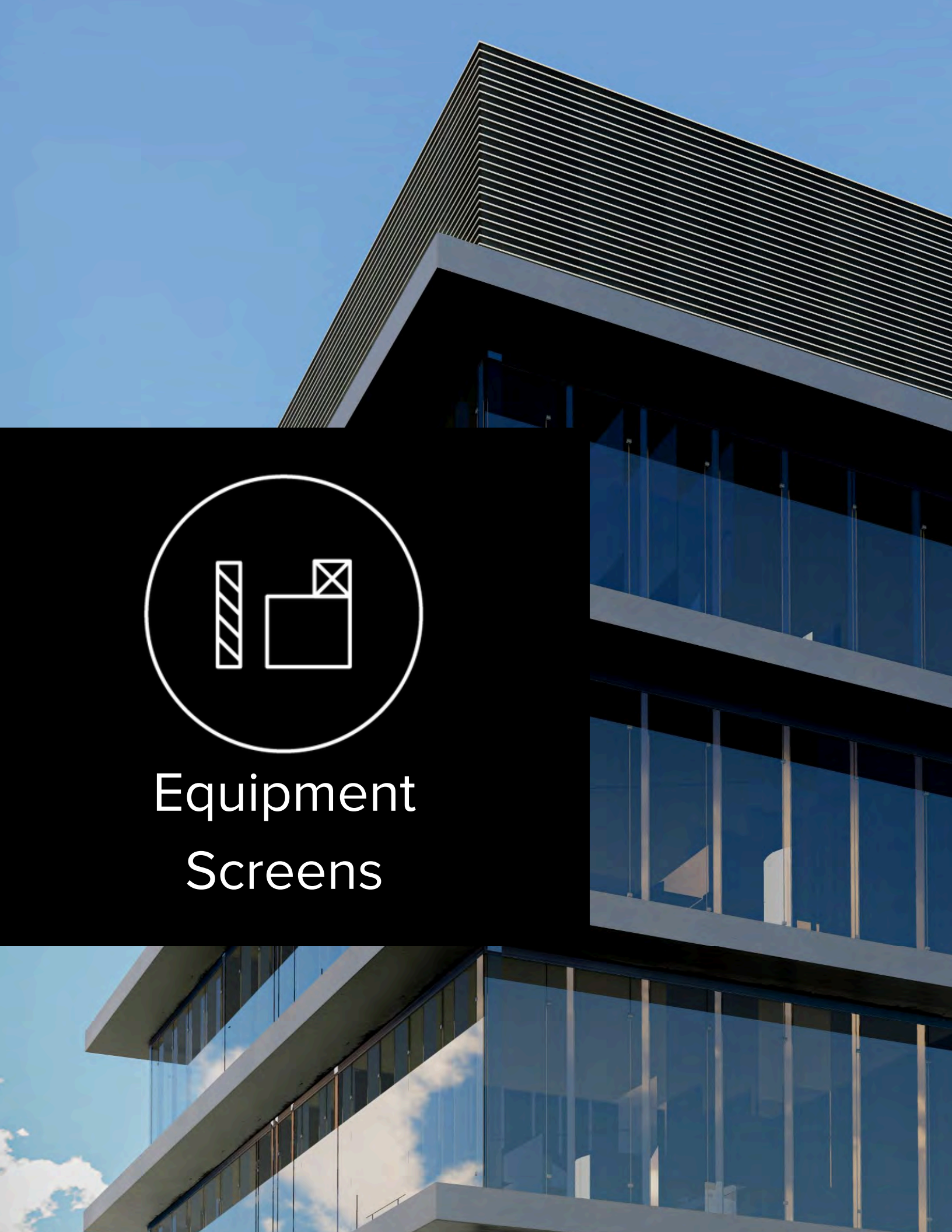
VS-450 or VS-660

AMCA 500-L
4" and 6"

- Free area: 55% (VS-660 Free area is 60%)
- Low pressure drop
- Mitered corners



Equipment Screens



Equipment Screen Selection

Featured Model

DC-640M



Depth: 6"

Key Features:

- Continuous blade assembly
- Excellent sightproof characteristics = 72% sight cut off
- Minimum pressure drop for confined areas

Airflow Performance:

- Free area: 70%
- Wind load reduction factor = 0.35



Equipment Screen Selection



VS-220

2"

- Free area: 55%
- Continuous blade assembly
- Good sightproof characteristics
- Access doors can be incorporated



VS-320

3"

- Free area: 40%
- Beautiful contemporary design
- Great for hiding man doors since the blades are vertical

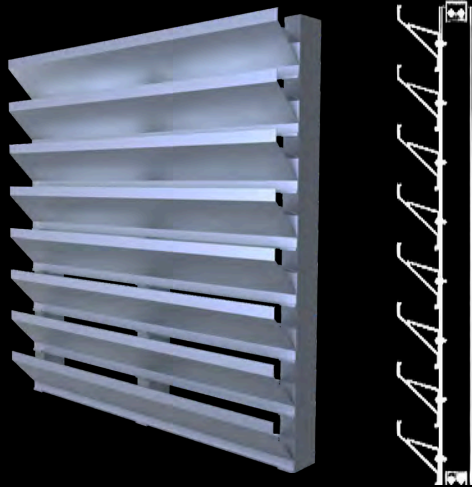


VS-400C

4"

- Free area: 28%
- Continuous blade assembly
- 100% sightproof
- Access doors can be incorporated

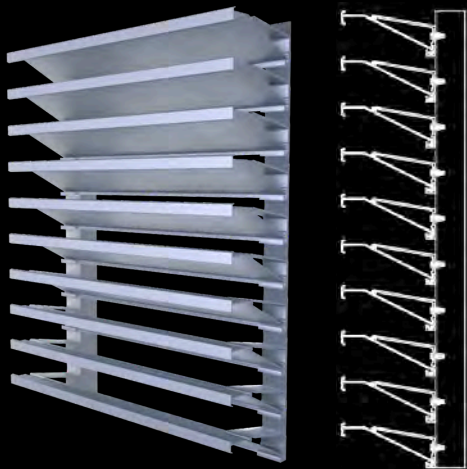
Equipment Screen Selection



VS-450 or VS-660

AMCA 500-L
4" and 6"

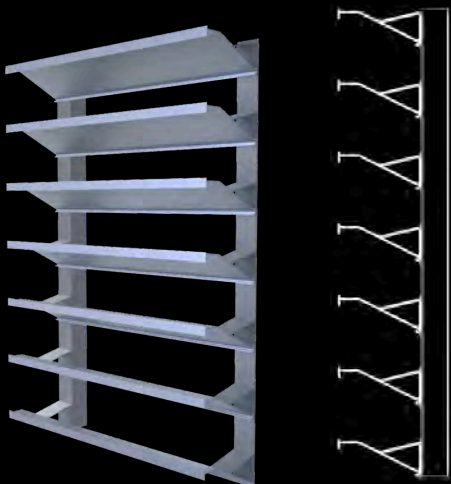
- Free area: 55% (VS-660 Free area is 60%)
- Low pressure drop
- Mitered corners



DC-630M

6"

- Free area: 62%
- Contemporary blade design
- 96% sightproof
- Mitered outside corners for continuous blade appearance
- Access doors can be incorporated



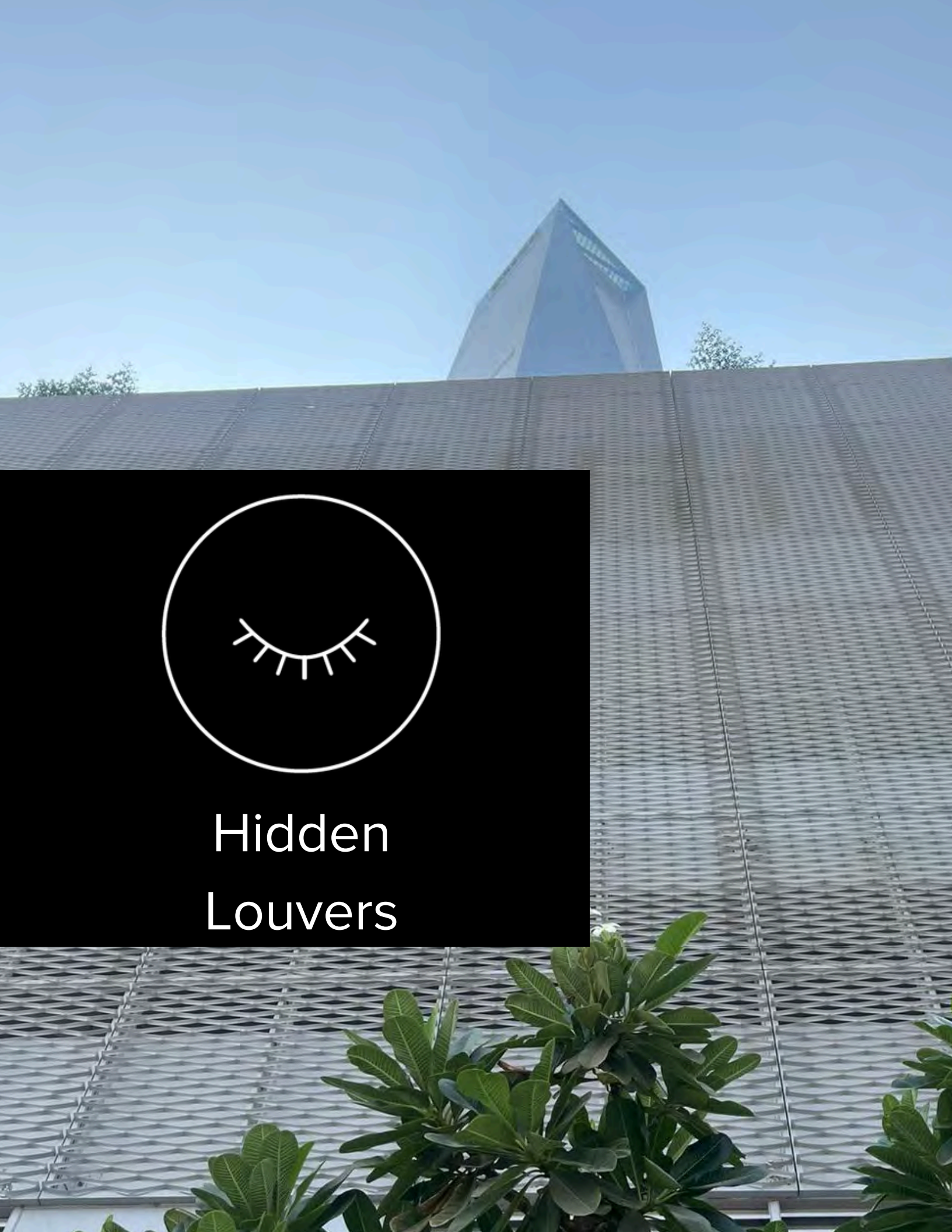
DC-650M

6"

- Free area: 76%
- Contemporary blade design
- 60% sightproof
- Mitered outside corners for continuous blade appearance
- Access doors can be incorporated

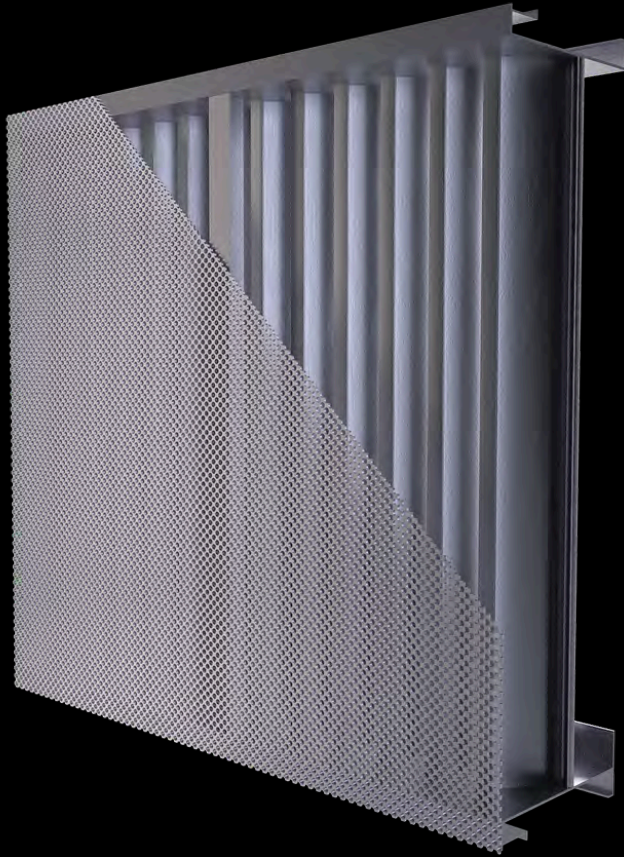


Hidden
Louvers



Hidden Louver Selection

RSR-545VPF



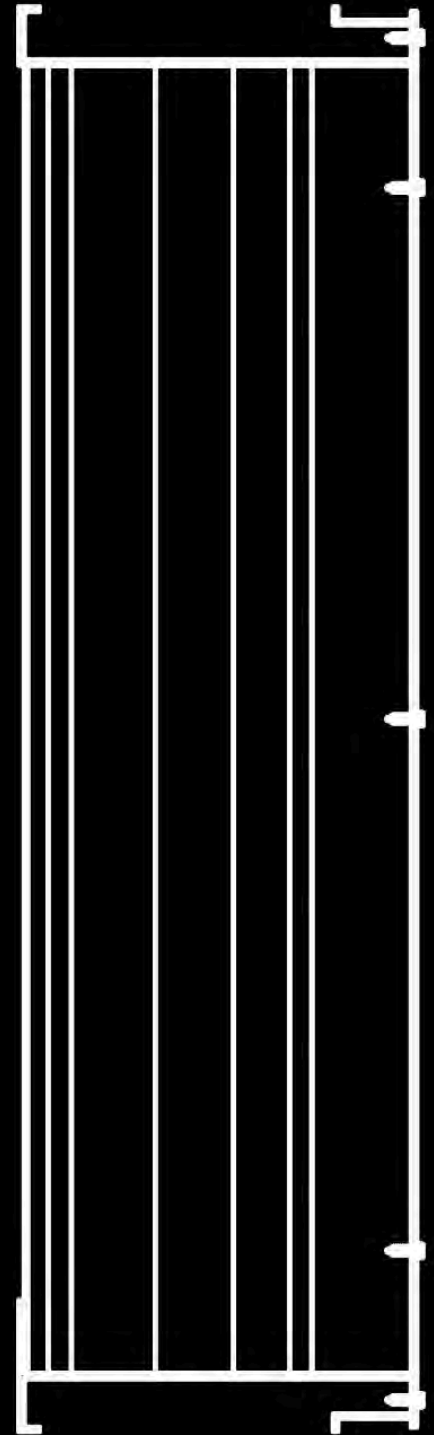
Depth: 7"

Airflow Performance:

- Free area: 54.6%
- Free area velocity @ beginning point of water penetration = 1,250 fpm

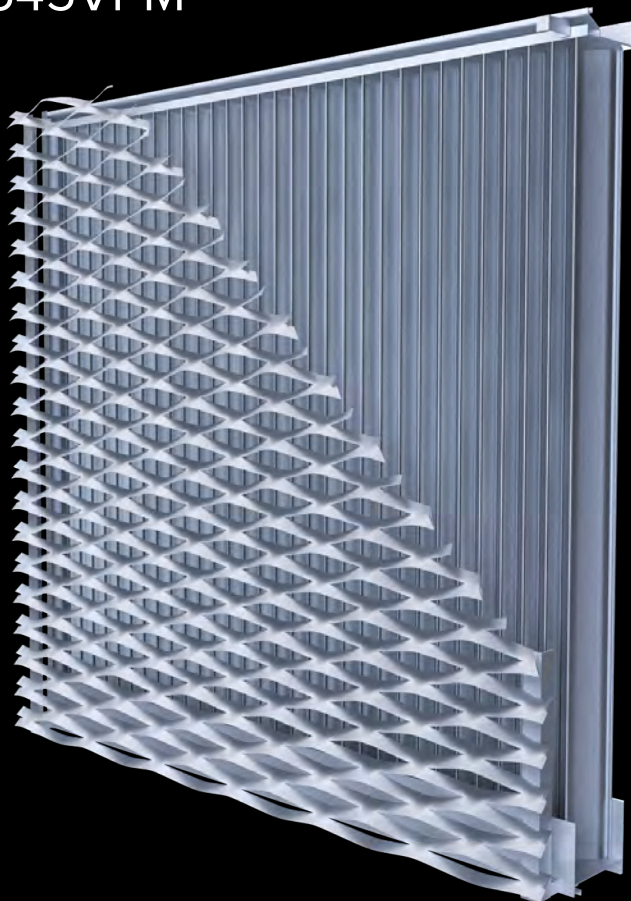
Wind Driven Performance:

- Maintains Class A (100%) rating at 29 mph wind velocity with 3in/hr rainfall rate with intake core velocity of 984 fpm
- Maintains Class A (99.6%) rating at 50 mph wind velocity with 8in/hr rainfall rate with intake core velocity of 984 fpm



Hidden Louver Selection

RSR-545VPM



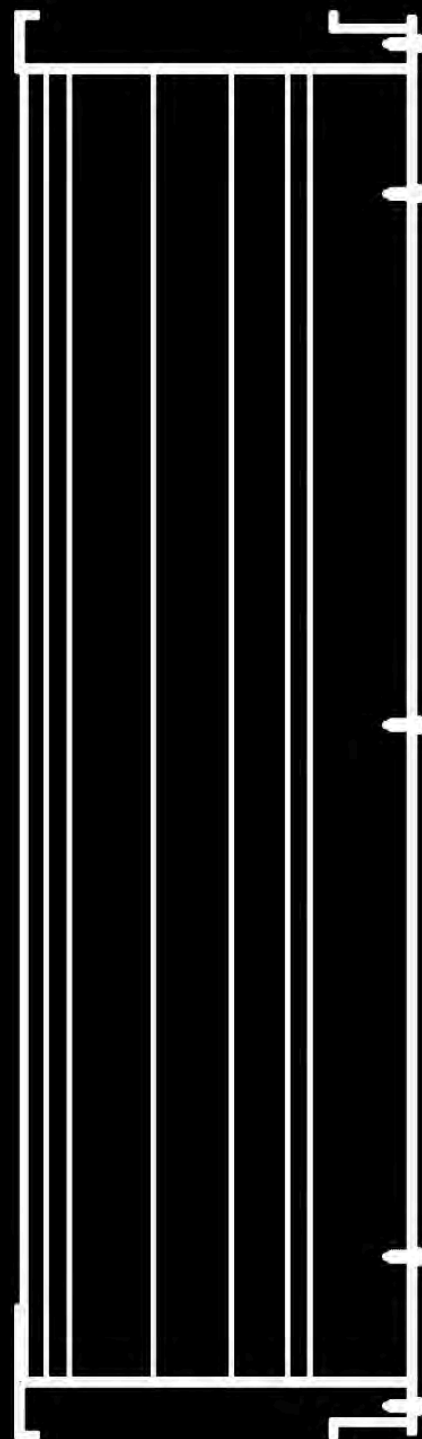
Depth: 7"

Airflow Performance:

- Free area: 54.6%
- Free area velocity @ beginning point of water penetration = 1,250 fpm

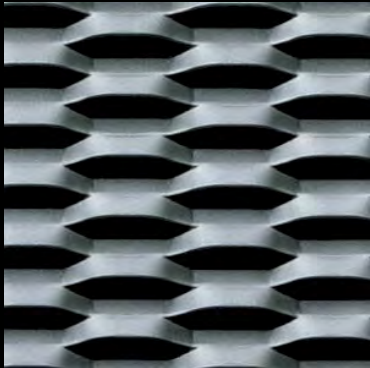
Wind Driven Performance:

- Maintains Class A (100%) rating at 29 mph wind velocity with 3in/hr rainfall rate with intake core velocity of 984 fpm
- Maintains Class A (99.6%) rating at 50 mph wind velocity with 8in/hr rainfall rate with intake core velocity of 984 fpm

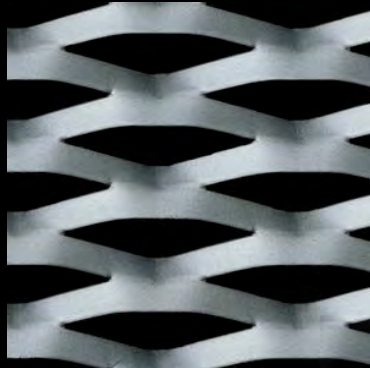


Hidden Louver Face Options

Expanded Metal Mesh

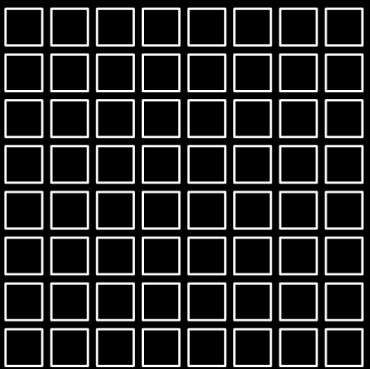


Siena

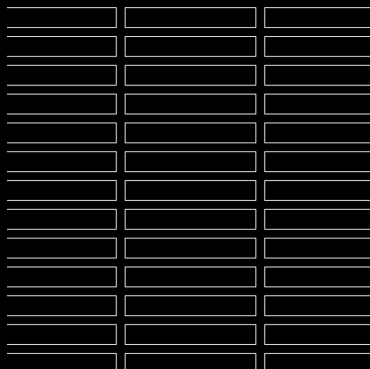


Brescia

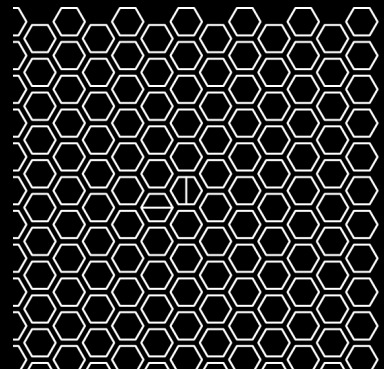
Perforated Metal & Phenolic Panel options



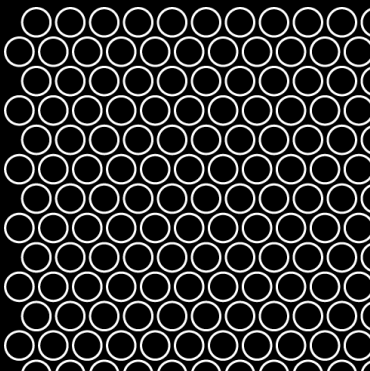
SQ002



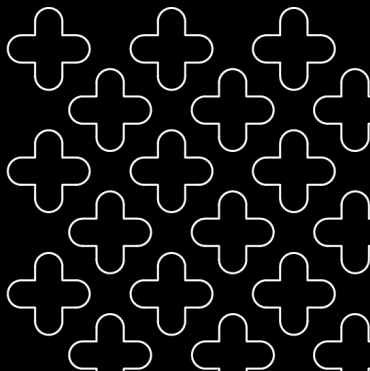
SL006



00024



RS059



0004

Unitized Curtain Wall Systems

Louvers in curtain wall and metal panels often lead to conversations about unitizing and fastener locations. However, to get to that point proper sizing and attachment details need to be vetted. When considering the size of louvers in curtain wall applications, we can run the calculations for project specific air flow performance such as pressure drop and free area. This is important because the performance may be better than you thought since sizes are generally larger, leading to less square footage or a less expensive model. Another conversation may be the requirement of visible mullions or no mullions. Some louvers need visible mullions, and some do not, however it is generally model specific. When selecting a louver to run continuously without mullions, we recommend inquiring how the louver was tested by AMCA.

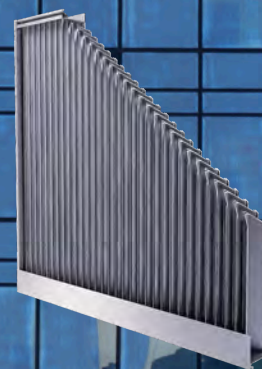
Popular Models



RSR-500



RSR-900HP

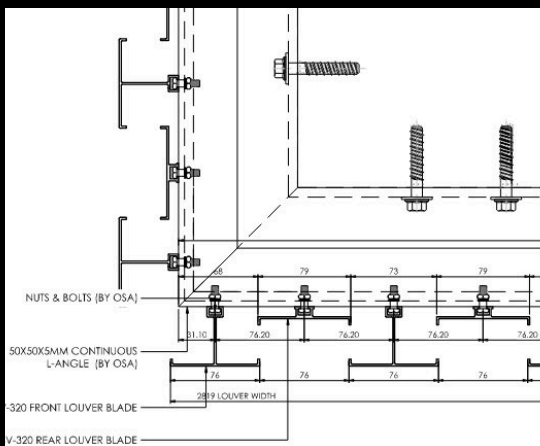


RSR-545V

200 East 75th Street New York, NY

Boutique louver options are how we set ourselves apart. This project required a high free area equipment screen with clean contemporary lines that completed the verticality aesthetics of this stunning facade. The storefront louvers were designed with a perforated face to create a high-end look without seeing actual louver blades.

Shop Drawing



Aire Renaissance

PO Box 59

Lewes, DE 19958

302-515-2473

info@aire-renlouvers.com

**Find out how Aire Renaissance
can assist you today!**



A Turning Point In Architectural Louvers

