ENERGY & CLIMATE CONTROL DOOR SYSTEMS

AirShield® Model AL3014

Vertical Rolling Service Door | Air Leakage Rated



PRODUCT FEATURES

RATINGS:

Listed & labeled - less than 1.00 cfm/ft² for infiltration and exfiltration

OPTIONAL:

Thermal protection with an R Value up to 8.0

CODE COMPLIANCE:

2024 IECC: International Energy Conservation Code

MAX WIDTHS & FINISHES:

- 27'-0" for Clear Anodized finish
- 38'-6" for Powder Coat finish



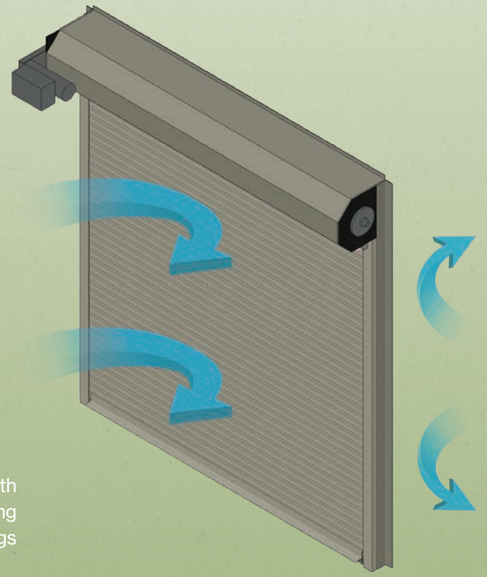
In accordance with the prescriptive requirements of the International Energy Conservation Code (IECC), rolling door assemblies located in the building thermal envelope are required to be tested to ANSI/DASMA 105, NFRC 400, or ASTM E283 and labeled for a maximum air leakage rating of 1.00 CFM/FT². Similar testing and labeling requirements for air leakage rated rolling doors are also in the mandatory and prescriptive requirements of ASHRAE 90.1. Air leakage, as defined in the IECC, includes values for infiltration and exfiltration.

The following language from the 2024 IECC will support these energy code requirements.

Section C202: General Definitions

AIR LEAKAGE.

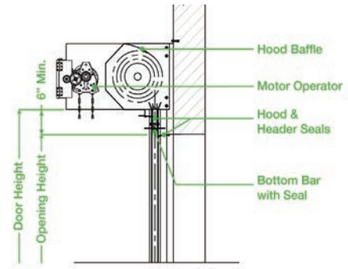
The uncontrolled airflow through the building thermal envelope caused by pressure differences across the building thermal envelope. Air leakage can be inward (infiltration) or outward (exfiltration) through the building thermal envelope.



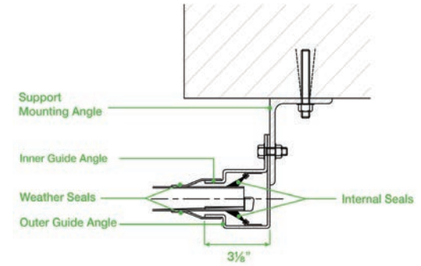
HOW DOES IT WORK?

In other words, air leakage can occur in either direction and both directions have energy efficiency implications. Historically, rolling door assemblies existed without these verified air leakage ratings – until McKEON® released the AL3014.

HEAD DETAIL SECTION



FACE OF THE WALL MOUNT GUIDE DETAILS



Section C402: Building Thermal Envelope Requirements

- **C402.6: Air leakage – building thermal envelope.**
  The building thermal envelope shall comply with Sections C402.6.1 through C402.6.7.

- **C402.6.3: Air leakage of fenestration and opaque doors.**
  The air leakage of fenestration and opaque door assemblies shall comply with Table C402.6.3. Testing shall be conducted by an accredited, independent testing laboratory in accordance with applicable reference test standards in Table C402.6.3 and labeled by the manufacturer.

Exceptions:

1. *Field-fabricated fenestration assemblies that are sealed in accordance with Section C402.6.1.*
2. *Fenestration in buildings that is tested in accordance with Section C402.6.2 is not required to meet the air leakage requirements in Table C402.6.3.*

LISTING INFORMATION

McKEON® AL3014 Rolling Door Assembly
The McKEON® AL3014 is a vertically rolling door assembly installed with perimeter seals to reduce air infiltration and exfiltration



AIR LEAKAGE RATINGS

Test Standards	Direction	Leakage Rate (cfm/ft²)
ANSI/DASMA 105 (Air Leakage Only) DASMA 112 ASTM E283	Infiltration	0.84
	Exfiltration	0.92

TABLE C402.6.3

MAXIMUM AIR LEAKAGE RATE FOR FENESTRATION ASSEMBLIES

FENSTRATION ASSEMBLY	MAXIMUM RATE (CFM/FT²)	TEST PROCEDURE
Windows	0.20	AAMA/WDMA/CSA101/I.S.2/A440 or NFRC 400
Sliding doors	0.20	
Swinging doors	0.20	
Skylights —all other	0.30	
Curtain walls	0.20	NFRC 400 or ASTM E283 at 1.57 psf (75 Pa)
Storefront glazing	0.06	
Commercial glazed swinging entrance doors	1.00	
Power-operated sliding doors and power operated folding doors	1.00	
Revolving doors	1.00	ANSI/DASMA 105, NFRC 400, or ASTM E283 at 1.57 psf (75 Pa)
Garage doors	0.40	
Rolling doors	1.00	
High-speed doors	1.30	

03 WHY THE AL3014?

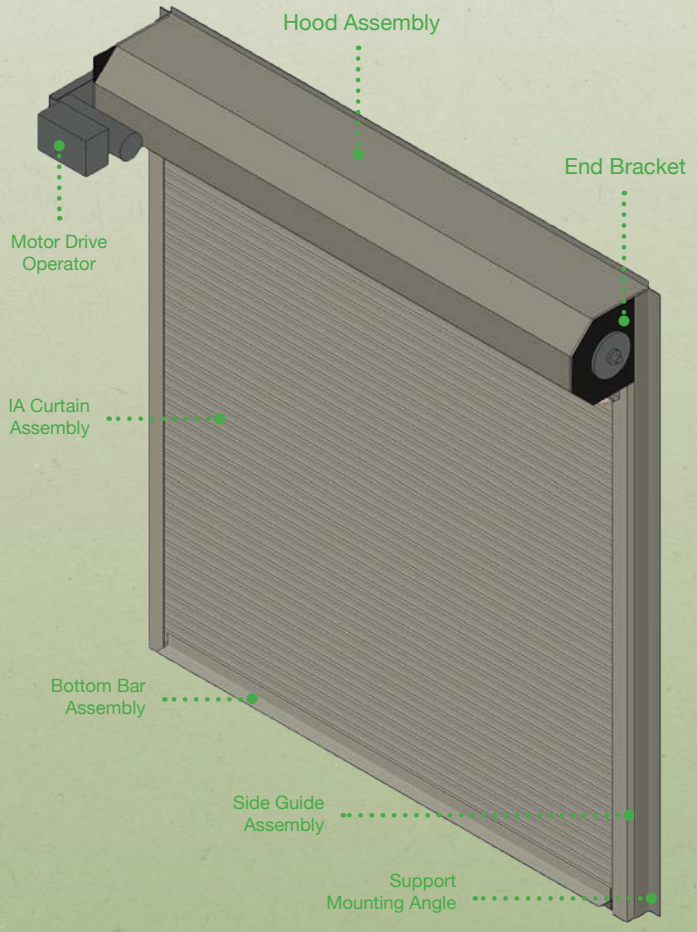
- CILMATE CONTROL
- THERMAL & SOUND TRANSMISSION

The McKEON® AirShield® Model AL3014 is designed to improve energy efficiency by complying with the IECC and other energy codes.

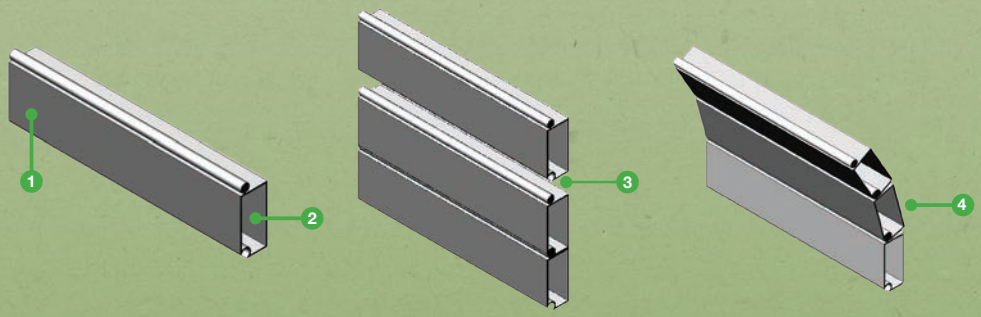
When insulated, the extruded aluminum slats also provide superior thermal and sound transmission performance making it the perfect choice for climate control and overall ambiance of the space.

The AL3014 is the first rolling service door that provides a public listing and certified label covering both air infiltration and exfiltration. The curtain constructed of extruded aluminum allows for a very tight slat-to-slat interface which naturally seals the assembly far better than a traditional roll formed steel curtain. This improved performance allows the AL3014 to exceed the performance requirements of the IECC without adding external covers or components to the guides.

McKEON® is currently the only manufacturer with a verified, publicly listed and labeled assembly that certifies both directions of airflow — meeting the full intent of IECC.



1. Extruded 14-gauge aluminum slats
2. Insulated for climate control *(Optional)*
3. Each slat is solidly fitted for a tight seal
4. Flexible joints for smooth operation



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