

ALUMINUM FULL VIEW

451/452

WHEN VISIBILITY AND
LIGHT TRANSMISSION
ARE KEY



WAYNE DALTON COMMERCIAL DOORS

Aluminum Full View 451/452

SECTIONAL DOOR SYSTEMS

Wayne Dalton's Aluminum Full View doors are the preferred choice when visibility and light transmission are just as important as aesthetics.

Aluminum Full View sectional doors are weather-resistant and virtually maintenance-free, and are ideal for commercial applications such as auto dealerships, car washes, and restaurant patios.

- MAXIMIZES LIGHT AND VISIBILITY
- CHOOSE FROM A WIDE VARIETY OF GLASS INCLUDING ANNEALED, ACRYLIC, INSULATED AND POLYCARBONATE THICK PLATE GLASS
- STANDARD SIZES UP TO 22' 2" WIDE AND 16' 1" HIGH

Standard Features Overview

Door Assembly:	Stile and rail assembly of aluminum alloy 6063-T6, 1 3/8" thick stiles and rails, joined with self tapping screws.
Rails:	Top and bottom rails with 3 1/2" wide, lower intermediate rail 1 3/8", upper rail 1 5/8", minimum wall thickness 0.062".
Stiles:	End stiles are 3 1/2" wide, center stile 3" wide, minimum wall thickness 0.062".
Springs:	10,000 cycles.
Glazing:	1/8" (3mm) in 9 options, 1/4" (6 mm) in 5 options, 1/2" (13 mm) in 4 options, 5/8" (16 mm) in 3 options.
Finish:	Clear anodized.
Windload Design:	Provide to meet the design/performance requirements specified.
Lock:	Interior mounted slide lock.
Weatherstripping:	Flexible bulb-type strip at bottom section.
Track:	Provide track as recommended by manufacturer to suit loading required and clearances available.
Manual Operation:	Pull rope or chain hoist.
Electric Motor Operation:	Provide UL listed electric operator, equal to Genie Commercial Operators, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot or more than 1 foot per second.

Options

- Springs: 25,000, 50,000 or 100,000 cycles.
- Lock options: Interior mounted slide lock with interlock switch for automatic operator, keyed lock, keyed lock with interlock switch for automatic operator.
- Weather Stripping: Jamb and header seals.
- Insulated Rail and Stiles for a R-value* of up to 3.97 (452 only).
- Powder coat finish: Color as selected by architect from manufacturer's standard colors.
- Anodized finishes: Bronze, Black

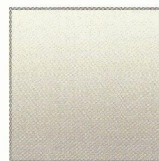
*Wayne Dalton uses a calculated R-value for our insulated doors.

Perfectly suited for applications where maximum light and visibility are desired, Wayne Dalton's Aluminum Full View doors help create a pleasant interior environment while offering a warm and open look from the exterior.

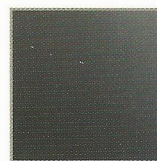
Finish Options

All rails and stiles are extruded aluminum alloy 6063-T6 and come standard with Clear anodized finish. Black and Bronze anodized finishes are optional.

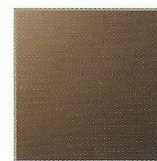
Anodized Finish



Clear



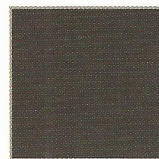
Black



Bronze

Powder Coat Finishes

Black, Bronze, Brown and White colors are available as options.



Black



Bronze

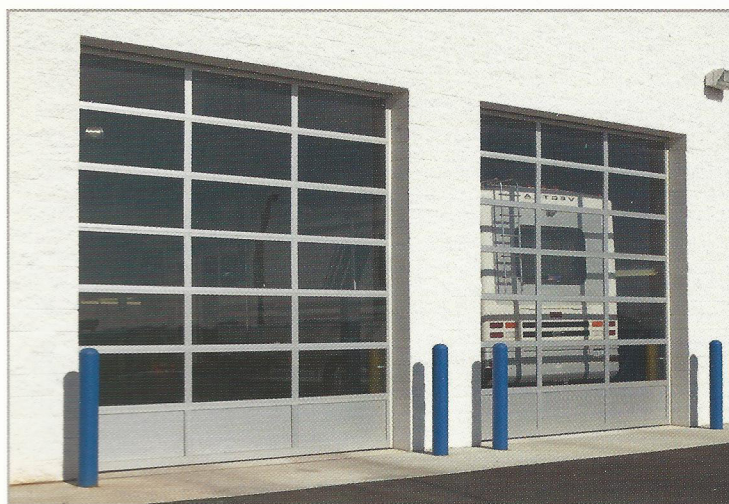


Brown



White

Wayne Dalton also offers over 197 powder coat options to complement the exterior colors of a building.



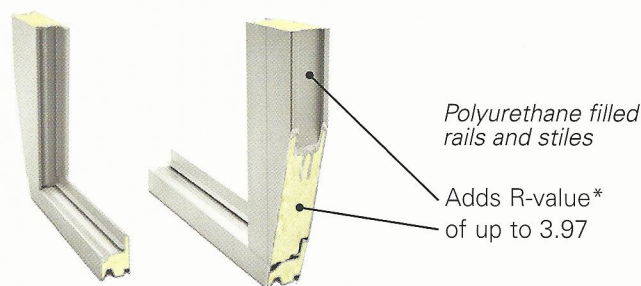
ALUMINUM FULL VIEW 451/452

Glass Options

TYPE OF GLASS	THICKNESS	TINT	MODEL 451	MODEL 452
Annealed	1/2" Insulated	Clear, Gray		•
	1/2" Low E	Clear		•
	1/4"	Clear, Gray, Bronze		•
	1/8"	Clear, Gray, Bronze	•	
Tempered	1/2" Insulated	Clear, Gray, Bronze		•
	1/2" Insulated Low E	Clear, Gray		•
	1/4"	Clear, Gray, Bronze		•
	1/4" Low E	Clear		•
	1/8"	Clear, Gray, Bronze, Solex Green	•	
Wire	1/4"	Clear		•
Laminated	1/4"	Clear		•
Acrylic	1/8", 1/4"	Clear	•	
Polycarbonate	1/8", 1/4"	Clear	•	
	1/4", 5/8" Multi-Wall	Clear, White, Bronze	•	

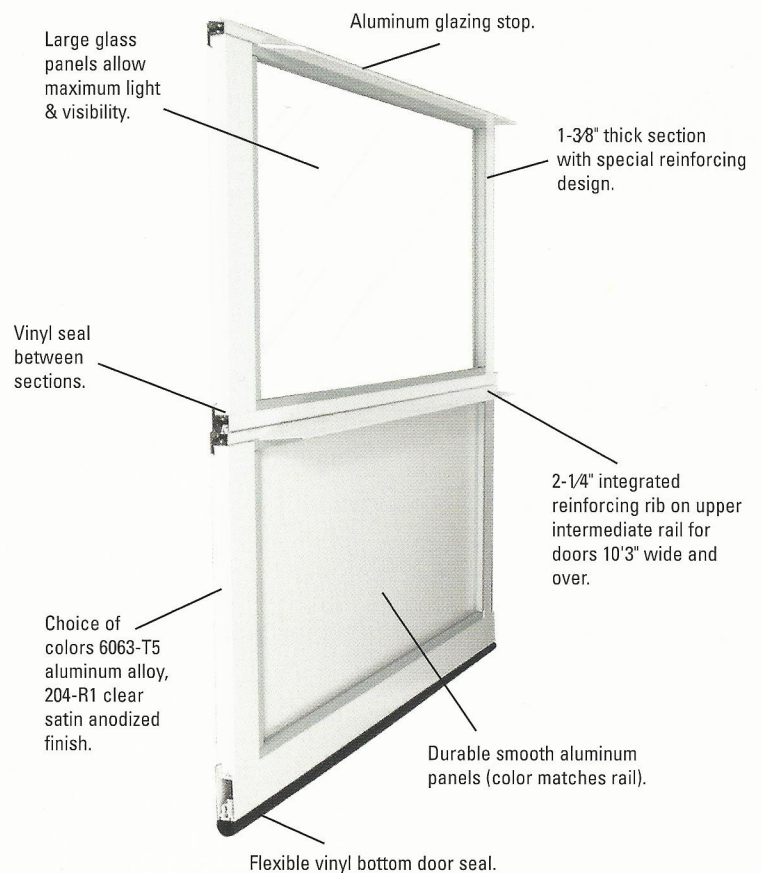
Custom glazing available

Optional Polyurethane Insulation (Model 452 only)



*Wayne Dalton uses a calculated R-value for our insulated doors.

R-VALUES MODEL 452	10x10 DOOR	12x12 DOOR	14x14 DOOR
1/2" Insulated glass Solar Ban 70XL argon filled (R = 3.125) with polyurethane filled rails and stiles	3.97	3.92	3.91
1/2" Insulated glass Low E (R = 2.38) with polyurethane filled rails and stiles	3.31	3.25	3.25
1/2" Insulated glass (R = 1.75) with polyurethane filled rails and stiles	2.79	2.69	2.69



General Operating Clearances

Type	Headroom		Sideroom		Depth into Room	Center Line of Springs	
	2" Track	3" Track	2" Track	3" Track	2" & 3" Track	2" Track	3" Track
Standard Lift Manual 12" R	13"-17"	NA	4.5"	5.5"	Opening Height +18"	Opening Height +12"	N/A
Standard Lift Manual 15" R	15"-20"	16"-21"				Opening Height +13"	Opening Height +14"
Standard Lift Motor Oper. 12" R	15"-20"	NA			Opening Height +66"	Opening Height +12"	N/A
Standard Lift Motor Oper. 15" R	15"-20"	18"-24"				Opening Height +13"	Opening Height +14"
High Lift Manual	High Lift +12"		24" One Side		Opening Height –Lift +30"	Opening Height +Lift +6.5"	Opening Height +Lift +7.5"
High Lift Motor Oper.							
Vertical Lift Manual	Door Height +20"		4.5"	5.5"	Opening Height +18"	Double Door Height +13"	
Vertical Lift Motor Oper.			24" One Side				
Low Headroom Manual	6"-15"	6"-15"	6"	9"	Opening Height +20" -26"	N/A	
Low Headroom Motor Oper.	9"-17"	9"-17"			Opening Height +66"		

Panel/Section Selection Guide

Door Width	Number of Panels
Up to 9'2"	2
9'3" to 12'2"	3
12'3" to 14'2"	4
14'2" to 16'1"	8
16'2" & Up	Call Factory

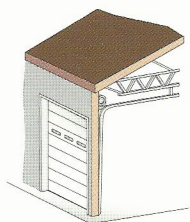
Door Height	Number of Sections
Up thru 8'1"	4
8'2" thru 10'1"	5
10'2" thru 12'1"	6
12'12" thru 14'1"	7
14'2" thru 16'1"†	8
16'2" & Up	Call Factory

†Model 451 only

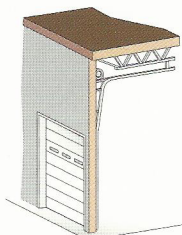
NOTES:

- 1) Springs must be rear mount to achieve minimum headroom listed. Front mount torsion headroom depends on drum size, and varies over the range listed.
- 2) 8" side-room required, one side, for doors with chain hoist.
- 3) Headroom for standard lift depends on drum size, and varies over the range listed.

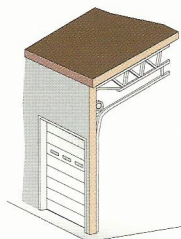
Track Selection Guide



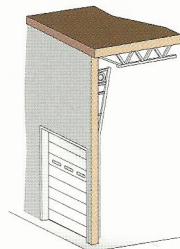
Standard Lift



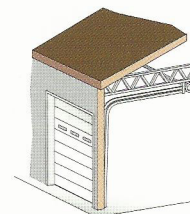
High Lift
(break-away is standard, straight incline is available)



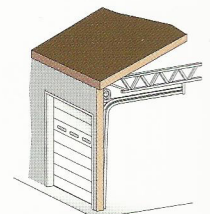
Roof Pitch
(standard or high lift)



Vertical Lift
(break-away is standard, straight incline is available)



Low Headroom
(rear mount torsion)



Low Headroom
(front mount torsion)

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