

# Palisades™ S90 Bi-Folding Door



## Exquisite design. Exceptional performance.

The CRL Palisades S90 Bi-Folding Door represents the next generation of movable wall systems, offering the most desirable features in looks and performance. A distinctly slim 4-3/4" vertical sightline and 1-7/16" panel rails reduce visible hardware to produce a minimal aesthetic that maximizes views. When closed, door hinges are completely concealed to deliver an elegant and streamlined look.

Compared to similar bi-folding doors in the market, the Palisades S90 provides superior thermal and structural performance using a 3-1/2" system depth. Its distinguishing CW40 Performance Grade rating makes the system ideal for exterior applications where larger sizes, higher loading requirements, limits on deflection, and heavy use are expected.

# CRL | Palisades S90 Features & Benefits

The Palisades S90 Bi-Folding Door offers exceptional performance without compromising aesthetics and function. As a bottom rolling system, it eliminates strain on the overhead beam.

- Bottom rolling system
- CW40 Performance Grade rating
- 4-3/4" sightline & 1-7/16" rails
- Completely concealed hinges
- Compensating channels & adjustable spacers
- Stainless steel hardware
- (+/-) 1/16" adjustable roller height
- Thermally broken with 1" insulating glass
- 3-1/2" system depth enhances performance
- 5 standard configurations
- Maximum frame height: 12 feet
- Maximum panel width: Up to 48 inches
- Maximum panel weight: 200 lb
- Maximum connected panels: 9 per jamb
- Panels can fold inward or outward
- Flush or raised sill options
- Standard finishes: black bronze anodized, satin anodized, black or white powder coat with 90% gloss. Custom RAL colors available.

## Test Results

Refer to Test Report for tested unit size and results.



### Air Infiltration

ASTM E-283 and NFRC 400, cfm/ft<sup>2</sup>  
Outward Opening

@ **6.24** psf  
(300 Pa): **0.05**



### Structural Load Deflection

ASTM E-330: pass, L/175 Pass  
Outward Opening

Design Pressure

Positive

@ **50** psf  
(3350 Pa)

3'x8'

Negative

@ **40** psf  
(2160 Pa)

3'x10' testing in progress

Refer to windload diagram and structural report



### Water Penetration

ASTM E-547 and E-331

No uncontrolled water  
entry @ **10** psf (440 Pa)



### Acoustic Performance

ASTM E-1425

STC Rating: **32-36**  
1" Double IGU

STC 32 achieved with STC 34 glass  
STC 36 achieved with STC 39 glass



### Thermal Performance

(testing in progress)

U-factor with 1" IG,  
Low-E, Air Filled: **0.36**

Rated, certified and labeled in accordance with NFRC 100 + 200



### Life Cycle Performance

(testing in progress)

Tested to  
**250,000** cycles



### Forced Entry Resistance

In accordance with  
AAMA-1304