

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.



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/ft2
Outward Opening

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



Structural Load Deflection

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

Design Pressure

Positive

Negative

@ **50** psf
(3350 Pa)



@ **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