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Product Overview

The **CASCADE 800 Series Bi-Fold Door** combines a modern design with durable performance. It incorporates premium German-engineered Kerssenberg hardware that ensures smooth folding movement and requires minimal upkeep. Its robust aluminum frame provides excellent resistance to weather conditions and guarantees long-lasting dependability. A range of customizable glass options including Low-E2, smart, and frosted varieties enhance energy efficiency, privacy, and aesthetic appeal. Featuring a 3-point locking mechanism, weather seals on each panel, flush-mounted handles, and hidden hinges, the CASCADE 800 Series bifold offers contemporary style, enhanced security, and reliable operation.

Size Limitations

The CASCADE 800 Series Bi-Fold Door accommodates individual panel widths between 20" and 40" and heights from 47" to 108", with options for 3 to 7 panels in total. Following these per-panel size guidelines is crucial for ensuring smooth functionality and lasting durability. Exceeding these limits or incorrect installation might affect performance and weatherproofing. Beyond the recommended boundaries, additional customizations are possible.

Energy Efficiency

Glass can either be transparent or tailored with coatings such as Low E2 and Low E4 to boost energy efficiency and comfort. These Low-E coatings reflect infrared radiation, aiding in keeping interiors cooler during summer and warmer in winter, while still allowing visible light to pass through. They also enhance insulation and minimize UV rays that can cause furniture to fade. When paired with thermally broken aluminum frames, which add extra insulation, these elements greatly enhance the thermal efficiency of windows and doors, leading to greater energy savings, sustained comfort, and increased value for both homes and commercial buildings.

Performance Chart

Frame Material	Aluminum 6063-TS	Solar Heat Gain Coefficient	0.25
Frame Thickness	2 mm	Visible Transmittance	0.38
U-Factor	30	Air Leakage	0.30
Argon Fill	90%	Condensation Resistance	57

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Glass Options

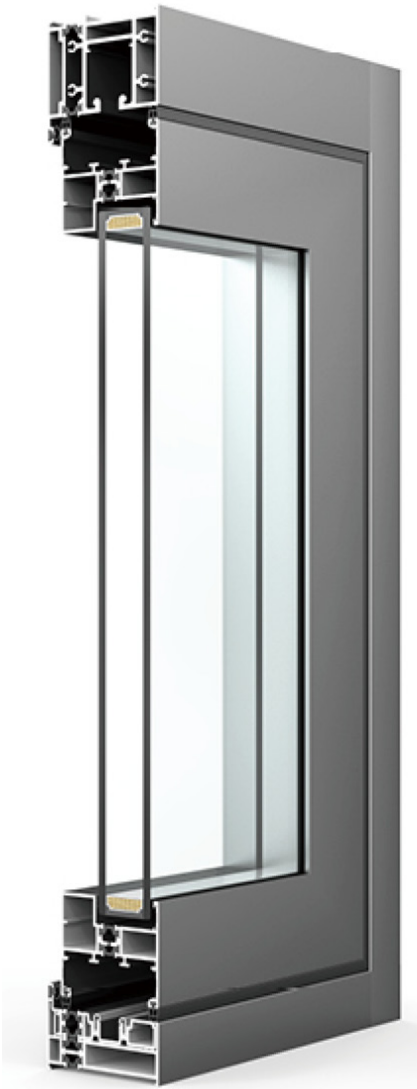
- STANDARD

Low-E2: A dual-pane configuration utilizing two layers of microscopic metallic coating to offer balanced, year-round energy efficiency. It reflects a moderate amount of solar heat during summer while trapping indoor warmth during winter. It serves as a cost-effective, baseline choice for moderate climates.
- ADVANCED

Low-E4: An advanced dual-pane setup featuring four layers of high-performance metallic coatings to maximize energy savings. It blocks the vast majority of destructive UV rays and solar heat while letting in clear, natural light. This option is ideal for climates with intense sun exposure and extreme temperatures.
- PREMIUM

Triple-Pane Insulated Glass: A heavy-duty unit built with three separate glass panes that create two independent insulating gas chambers. This configuration maximizes thermal resistance, dramatically lowers your energy bills, and eliminates winter draft zones. It provides the ultimate level of cold-climate insulation.
- ELITE TIER

Laminated Insulated Glass (LIC): A premium dual-pane setup where one pane consists of two glass sheets permanently bonded to a tough plastic interlayer. This design dampens incoming street noise, stops forced entry by holding together when smashed, and blocks nearly all UV fading. It delivers a comprehensive solution for home security, quietness, and weather protection.



GLASS TYPE	U-FACTOR Reduces Heat Loss	SOLAR HEAT GAIN COEFFICIENT LIMITS SOLAR HEAT	VISIBLE LIGHT TRANSMITTANCE CONTROLS LIGHT PASSAGE	UV PROTECTION BLOCKS UV RAYS
Dual-pane Low-E2	★ ★ ★	★ ★ ★	★ ★ ★ ★ ★ ★	★ ★ ★
Dual-pane Low-E2	★ ★ ★ ★ ★	★ ★ ★ ★ ★	★ ★ ★ ★ ★	★ ★ ★ ★ ★
Triple-pane Glass	★ ★ ★ ★ ★ ★	★ ★ ★	★ ★ ★ ★ ★	★ ★ ★ ★ ★
Laminated Glass	★ ★ ★	★ ★ ★ ★ ★	★ ★ ★ ★ ★	★ ★ ★ ★ ★ ★

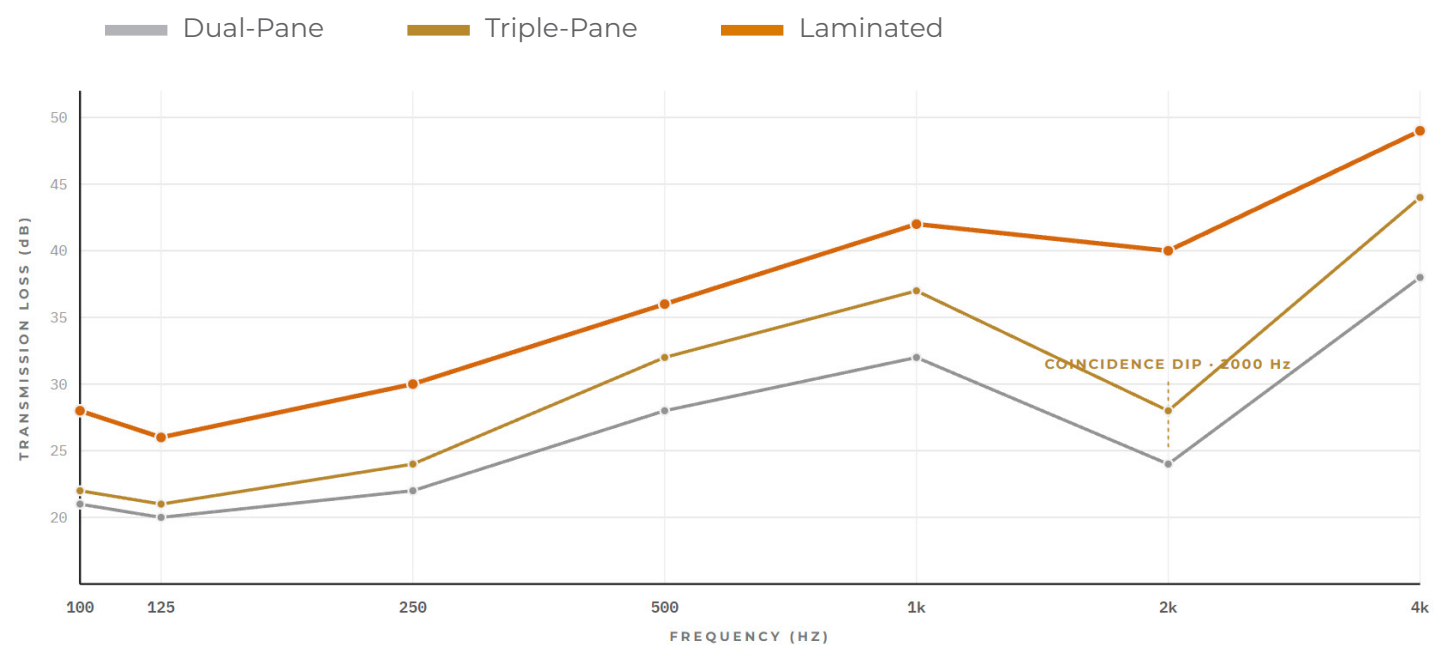
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Sound Performance

Our architectural glass lineup is engineered to satisfy distinct performance thresholds. While thermal coatings optimize energy efficiency, acoustic comfort relies on structural mass, air-space decoupling, and material vibration dampening. This document details the acoustic attenuation properties across our four core performance tiers

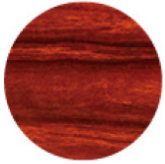
FREQ (HZ)	PITCH PROFILE / ACOUSTIC SOURCE	DUAL-PANE Sound Transmission Loss (dB)	TRIPLE-PANE Sound Transmission Loss (dB)	LAMINATED Sound Transmission Loss (dB)
100	Deep Bass, Heavy Trucks Idling	21	22	28
125	Low Rumble, Railway & Aircraft	20	21	26
250	Mid Range, Male Speech Baseline	22	24	30
500	Mid-High, Office Activity & Female Speech	28	32	36
1000	High Frequency, Traffic Horns & Sirens	32	37	42
2000	Critical Glass Coincidence Resonance Dip	24	28	40
4000	Ultra-High Pitch, Screeching Brakes	38	44	49



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Features & Finishes

The **Cascade 800 Series bifold door** is masterfully engineered for homeowners who refuse to compromise on quality, durability, and long-term performance. Built with precision German hardware, this system is rigorously designed to withstand the harshest environments and heavy daily use. To perfectly match your architectural vision, the series offers complete design freedom—allowing you to customize everything from handle and track designs to high-performance glass, exterior clad colors, and versatile panel configurations.



Yellow rosewood



Matte coffee



Matte black



Matte gray



Light matte gray



Metal gray



Coordinated Load-Bearing for Smooth and Steady Operation

The wheels come with an adjustment function, solving the issue of accumulated sagging in folding doors during installation.

1

This system is developed on the concept of lower load-bearing combined with upper guidance, which improves the door panel's ability to support weight and stops the door panel from detaching.

2

The wheels are made of solid stainless steel, and each panel can support up to 350 lbs.

3

Coordinated Load-Bearing for Smooth and Steady Operation

1

The multi-axis cross hinge design provides stronger load-bearing support and effectively prevents sagging.

2

It ensures smooth, effortless operation without resistance, while the concealed design offers a cleaner more elegant appearance.

3

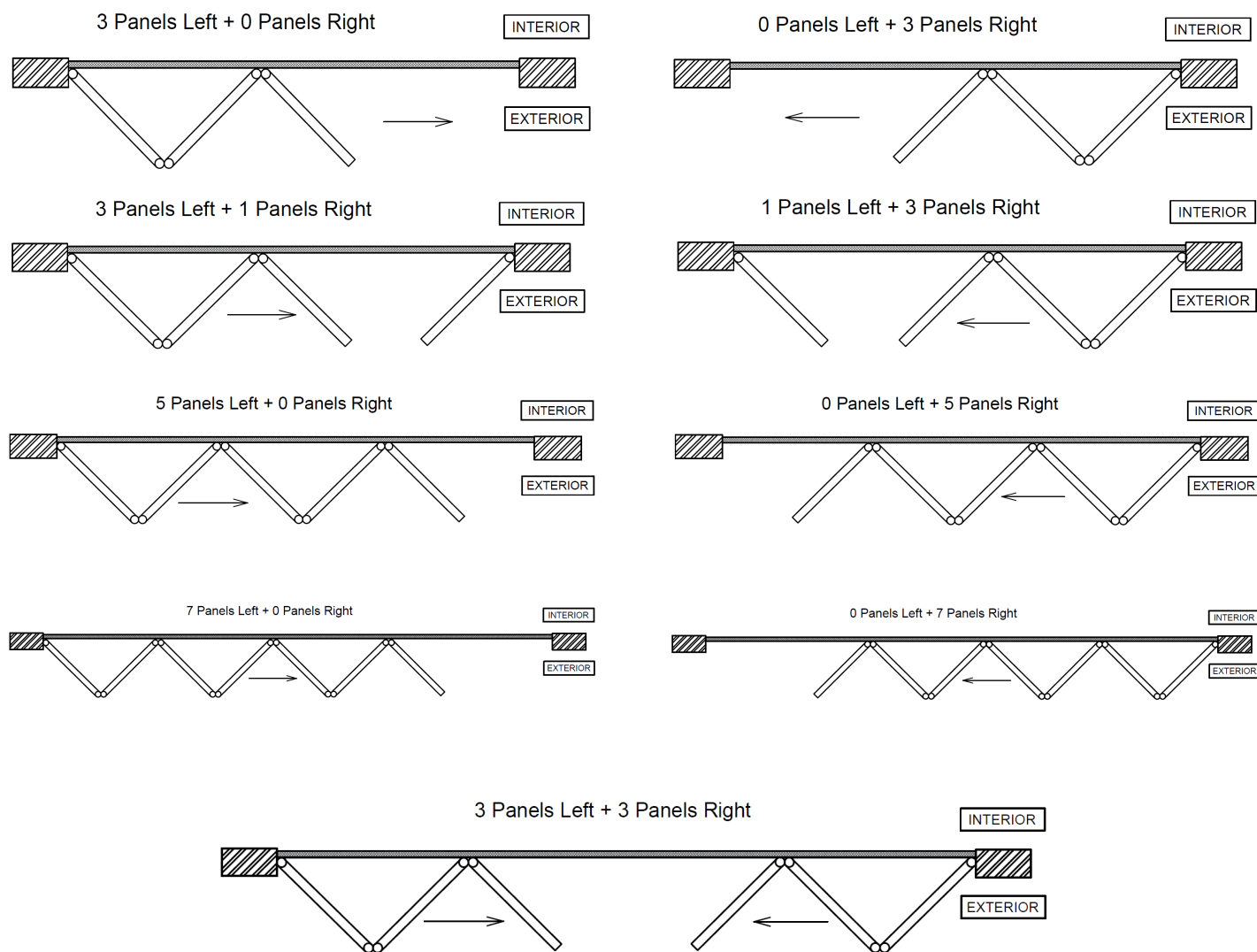
Each single door panel can reach a maximum height of 10 feet and a maximum width of 40" inches.



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Configurations

Available Door Configurations



Frequently Asked Configuration Questions

Do you have other configurations?

Give us a call and our team can help with customizations.

Is the Cascade 800 series top or bottom hung?

Our Bifold doors are all bottom hung, this ensures less load on the door header.

What is the jamb size?

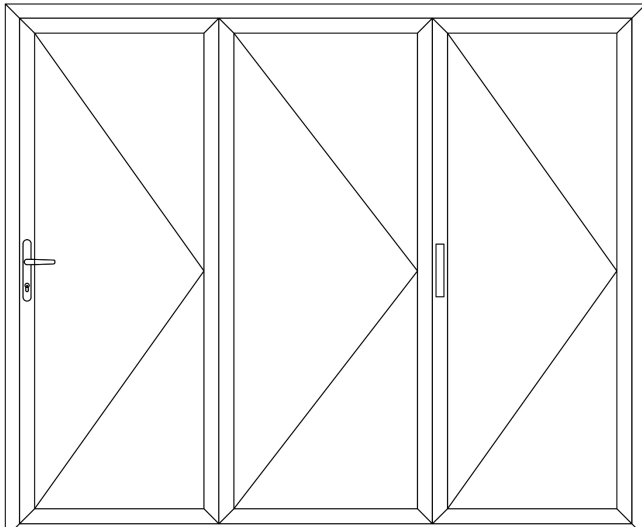
The depth of our doors are 3.1" w/o screen and 5.5" with screen.

Do you offer inswing?

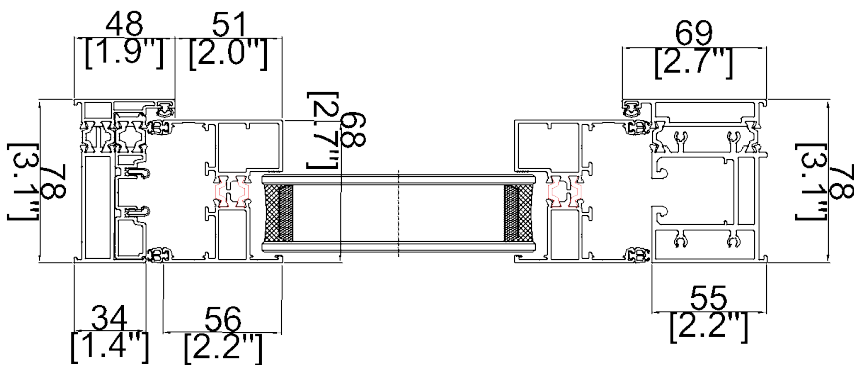
In an inswing configuration the door will not be water proof, as a result we do not recommend inswing

06 Drawings

Front View



Side View



Top Down View

