



HB DESIGN · HOUSTON, TEXAS

An atelier of considered openings — windows, doors, curtain walls, and sunrooms — engineered for the Gulf Coast and installed by our own team.



The Aperture *Collection*

Twenty signature window and door systems for the modern American home.

VOLUME II

MMXXVI Edition

HOUSTON · TX



OUR OPENING NOTE

A window is a *decision* about light.

Every project begins with the same question: how do you want the light to enter this room? A casement opening into a morning breeze is not the same instrument as a curtain wall that turns the Gulf horizon into a living painting.

This volume gathers the window and door systems we specify most often for Houston-area projects. Each series is engineered for humidity, rated for wind, and finished with a 70% PVDF fluorocarbon coating that holds its color through the seasons.

When a system catches your eye, note its reference and send us a message. Our team measures, specifies, and installs under a single project manager.

With our warm regards,
THE HB DESIGN ATELIER



Engineering, *quietly* stated.

Every HB Design system carries the same core engineering standards — finished in-house and installed by our own craftsmen.

6063 T5

ALUMINUM ALLOY GRADE

70%

PVDF FLUOROCARBON FINISH

20

SIGNATURE SYSTEMS

1

DEDICATED PROJECT MANAGER



Four ideas we *build* by.

Quiet standards, upheld on every project — from the first measurement to the final weather-seal.

01 / PRINCIPLE

Climate-first engineering

Thermal breaks, multi-chamber profiles, and argon-filled insulated glazing — specified for the way a Houston summer actually performs, not the way a spec sheet reads.

03 / PRINCIPLE

Finishes that age well

Every frame wears a 70% PVDF fluorocarbon coating, applied in our shop and available in a curated palette of Carbon Grey, Skin Black, Skin White, and Coffee.

02 / PRINCIPLE

Real hurricane hardware

Our 115 Series and curtain-wall systems carry Class 5 wind-load ratings and stainless hardware, with impact-rated glazing available on request for coastal work.

04 / PRINCIPLE

Installed by our own team

Measuring, framing, setting, and sealing are all handled by HB Design craftsmen. One project manager, one phone number, one person accountable from start to finish.

A catalog, *not a price list.*

Every system shown in this volume is available as a custom specification. The numbers on each page describe our standard configuration; the finished window on your project is built to your opening.

A / SPEC

Frame

6063-T5 extruded aluminum across every system. Wall thickness varies by series (0.055 in. to 0.118 in.) to match structural load and glazing weight.

C / SPEC

Weatherseal

EPDM continuous gasket at every perimeter — no adhesive tape, no intermittent strips. The same material, the same detail, on every system.

B / SPEC

Glazing

Standard IGUs are dual-pane tempered with a 1/2 in. to 7/8 in. argon cavity. Triple-pane, laminated, and low-E options available on every series.

D / SPEC

Hardware

Multi-point locking on swing and bi-fold. Stainless rollers on sliders. Hydraulic closers on ground-spring pivots. All serviceable, all replaceable.



Twenty signature systems.

Windows, doors, curtain walls, and sunrooms — ordered from slim residential profiles to full architectural facades.

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Doors, pavilions, facades.

From the pull-up cottage window to the motorized retractable sunroom, every system carries the same HB Design engineering standard.

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REFERENCE

HB-50A

Top-hinged ventilation that opens outward, even in light rain.



50 SERIES

U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.21	STC 40-45	Class 6	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 extruded aluminum, 0.070 in. wall
Frame Depth	2 in.
Sash Width	2-1/16 in.
Glazing	7/8 in. dual-pane tempered IGU, 1/2 in. argon
Glass Bite	7/8 in.
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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REFERENCE

HB-70A

Casement Window

Thermally broken casement built for Texas summers and Gulf Coast winters.



70 SERIES · THERMAL BREAK

U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.32	STC 35-40	Class 7	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.055 in. wall
Frame Depth	2-3/4 in.
Sash Width	2-5/8 in. with pressure line
Glazing	1-1/8 in. dual-pane tempered IGU, 3/4 in. argon
Glass Bite	1-7/16 in.
Thermal Break	1-3/16 in. polyamide strut
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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88 SERIES · THERMAL BREAK

U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.28	STC 40-45	Class 7	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.070 in. wall
Frame Depth	3-1/2 in.
Sash Width	1-3/4 in.
Glazing	1-5/16 in. triple-pane IGU, dual 3/8 in. argon cavities
Glass Bite	1-9/16 in.
Thermal Break	7/8 in. polyamide strut
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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REFERENCE

HB-88A

Premium Casement

Triple-glazed, dual-cavity profile for whisper-quiet, energy-tight rooms.



U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.39	STC 25-35	Class 5	Class 4	Class 4

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.079 in. wall
Frame Depth	4-1/2 in.
Sash Width	2-13/16 in. with pressure line
Glazing	1-1/8 in. dual-pane tempered IGU, 3/4 in. argon
Glass Bite	1-3/8 in.
Thermal Break	1-3/16 in. polyamide strut
Screen	Integrated 304 stainless steel mesh
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

REFERENCE

HB-115S

Storm-Rated Window with Screen

Hurricane-zone glazing with an integrated stainless mesh screen.



REFERENCE

HB-150C

Curtain Wall System

Full-height architectural glazing with a discreet integrated screen layer.



150 SERIES · CURTAIN WALL + SCREEN

U-FACTOR

≤ 0.32

ACOUSTIC

STC 35-40

WATERTIGHT

Class 7

AIR
TIGHTNESS

Class 4

WIND LOAD

Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.070 in. wall
Frame Depth	4-5/16 in.
Mullion Width	3 in.
Glazing	1-1/8 in. dual-pane tempered IGU, 3/4 in. argon
Glass Bite	1-5/16 in.
Thermal Break	3/4 in. polyamide strut
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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REFERENCE

HB-110W

Sliding Window

Wide horizontal sliders for panoramic walls without obstruction.

U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.39	STC 25-30	Class 6	Class 4	Class 4

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.070 in. wall
Frame Depth	4-5/16 in.
Sash Width	2-1/2 in.
Glazing	7/8 in. dual-pane tempered IGU, 1/2 in. argon
Glass Bite	15/16 in.
Thermal Break	9/16 in. polyamide strut
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee



U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.28	STC 30-35	Class 7	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.079 in. wall
Frame Depth	5 in.
Sash Width	1-3/16 in. / 1-7/8 in.
Glazing	1 in. dual-pane tempered IGU, 5/8 in. argon
Glass Bite	1-1/16 in.
Thermal Break	3/8 in. polyamide strut
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

REFERENCE

HB-128W

Narrow-Sightline Slider

Slim sightlines that maximize the view, not the frame.



45 SERIES · SLIM SLIDER WITH MESH

U-FACTOR

≤ 0.32

ACOUSTIC

STC 25-30

WATERTIGHT

Class 6

AIR
TIGHTNESS

Class 4

WIND LOAD

Class 4

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.070 in. wall
Track	2-track 4-3/4 in. / 3-track 7-1/16 in.
Sash Width	1-3/4 in. / 2-3/16 in.
Glazing	1-1/4 in. dual-pane tempered IGU, 7/8 in. argon
Glass Bite	1-5/16 in.
Screen	Integrated retractable insect mesh
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

REFERENCE

HB-45D

Screen-Integrated Patio Slider

Open the wall, keep the breeze, lose the bugs.

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U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.32	STC 25-30	Class 6	Class 4	Class 4

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.070 in. wall
Track	2-track 5-3/8 in. / 3-track 8 in.
Sash Width	2-1/8 in. / 3 in.
Glazing	1-1/8 in. dual-pane tempered IGU, 3/4 in. argon
Glass Bite	1-9/16 in.
Thermal Break	9/16 in. polyamide strut
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

REFERENCE

HB-76L

Lift-and-Slide Door

Multi-panel lift-and-slide system for wide, weather-tight openings.



U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.28	STC 30-35	Class 6	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.098 in. wall
Frame Depth	6 in.
Sash Width	2 in. / 15/16 in.
Glazing	1-1/16 in. dual-pane tempered IGU, 11/16 in. argon
Glass Bite	1-1/2 in.
Thermal Break	9/16 in. polyamide strut
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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REFERENCE

HB-150P

Panoramic Sliding Door

Floor-to-ceiling glass that disappears when you open it.



REFERENCE

HB-G41

Sealed Slider

Twin-seal drainage and lift-action engagement for true weather isolation.



G41 · DOUBLE-DISPLACEMENT SEALED SLIDER

U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.32	STC 35-40	Class 7	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.079 in. wall
Frame Depth	5-13/16 in.
Sash Width	1-3/16 in. / 1-7/8 in.
Glazing	1 in. dual-pane tempered IGU, 5/8 in. argon
Glass Bite	1-1/16 in.
Thermal Break	9/16 in. polyamide strut
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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REFERENCE

HB-PS

Slim-Frame Slider / Flat Door

Single-pane minimalist door for interior partitions and statement entries.



PERFECT SYSTEM · SLIDER / FLAT DOOR

U-FACTOR

≤ 0.32

ACOUSTIC

STC 25-30

WATERTIGHT

Class 6

AIR
TIGHTNESS

Class 4

WIND LOAD

Class 4

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.079 in. wall
Track	2-track 4 in. / 3-track 6 in.
Sash Width	1-9/16 in. × 5/8 in.
Glazing	5/16 in. single tempered glass
Glass Bite	15/16 in.
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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REFERENCE

HB-83W

Pull-Up Window

American-style vertical sash for cottages, cabanas, and traditional homes



83 SERIES · VERTICAL SASH

U-FACTOR

≤ 0.25

ACOUSTIC

STC 40-45

WATERTIGHT

Class 8

AIR
TIGHTNESS

Class 4

WIND LOAD

Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.059 in. wall
Frame Depth	3-1/4 in.
Sash Width	1-5/8 in.
Glazing	15/16 in. dual-pane tempered IGU, 3/8 in. argon
Glass Bite	3/4 in.
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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REFERENCE

HB-75F

Bi-Fold Folding Door

Multi-leaf folding panels that open the entire wall to the outside.



75 SERIES · FOLDING DOOR

U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.25	STC 40-45	Class 7	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.079 in. wall
Frame Depth	3 in.
Sash Width	2-11/16 in.
Glazing	7/8 in. dual-pane tempered IGU, 1/2 in. argon
Glass Bite	7/8 in.
Weatherseal	EPDM continuous gasket
Hardware	Top-hung roller carriage, multi-point lock
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.21	STC 40-45	Class 6	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.070 in. wall
Frame Depth	4-5/8 in.
Sash Width	2-3/16 in.
Glazing	1-1/8 in. dual-pane tempered IGU, 3/4 in. argon
Glass Bite	1-9/16 in.
Thermal Break	15/16 in. polyamide strut
Weatherseal	EPDM continuous gasket
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

REFERENCE

HB-118W

Flat Sliding Window

Flush-track slider for low-profile interior and balcony walls.



REFERENCE

HB-68D

Outdoor Swing Door

Single-leaf hinged door for utility rooms, side entries, and back gardens.

U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.32	STC 30-35	Class 6	Class 4	Class 4

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.079 in. wall
Frame Depth	2-11/16 in.
Sash Width	4 in.
Glazing	7/8 in. dual-pane tempered IGU, 1/2 in. argon
Glass Bite	15/16 in.
Hardware	Multi-point locking, lever handle
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee



REFERENCE

HB-GS

Ground-Spring Door

lobbies, and high-rise entries



GROUND-SPRING PIVOT

U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.30	STC 35-40	Class 7	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.079 in. wall
Frame Depth	4-3/4 in.
Glazing	1-1/8 in. dual-pane tempered IGU, 3/4 in. argon
Glass Bite	1-3/16 in.
Hardware	Hydraulic floor closer, concealed pivot
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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U-FACTOR	ACOUSTIC	WATERTIGHT	AIR TIGHTNESS	WIND LOAD
≤ 0.32	STC 35-40	Class 7	Class 4	Class 5

PRODUCT SPECIFICATION

Frame	6063-T5 aluminum, 0.079 in. wall
Mullion Depth	2-11/16 in.
Transom Width	2-9/16 in.
Glazing	7/8 in. dual-pane tempered IGU, 1/2 in. argon
Glass Bite	15/16 in.
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee

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REFERENCE

HB-CW

Architectural Curtain Wall

Stick-built curtain wall for multi-story commercial and mixed-use façades.





REFERENCE

HB-ESR

Electric Sliding Sunroom

Motorized retractable roof on a sturdy aluminum structural frame.

ROOF	ROOF GLASS	SIDE GLASS	STRUCTURE	PROFILES
<i>Motorized vent</i>	<i>Lam. 3/16+3/16</i>	<i>1-1/16 in. argon IGU</i>	<i>0.118 in. wall</i>	<i>4 styles</i>

PRODUCT SPECIFICATION

Material	6063-T5 aluminum alloy
Roof Glazing	3/8 in. laminated tempered (3/16 + 0.030 PVB + 3/16)
Side Glazing	1-1/16 in. argon-filled IGU (3/16 + 11/16 + 3/16)
Structure	Bridge & non-bridge profiles, 0.118 in. wall
Roof Styles	Flat · Herringbone · Diamond · Curved
Inspiration	European Roman column visual language
Compatibility	Pairs with bi-fold, slider, swing, or fixed glazing
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee



REFERENCE

HB-120S

Glass Pavilion Sunroom

All-season glass pavilion with seamless joinery and electric venting.

ROOF	ROOF GLASS	SIDE GLASS	STRUCTURE	FINISH
<i>Motorized vent</i>	<i>Lam. 3/16+3/16</i>	<i>1-1/16 in. argon IGU</i>	<i>0.118 in. wall</i>	<i>70% PVDF</i>

PRODUCT SPECIFICATION

Material	6063-T5 aluminum alloy
Roof Glazing	3/8 in. laminated tempered (3/16 + 0.030 PVB + 3/16)
Side Glazing	1-1/16 in. argon-filled IGU (3/16 + 11/16 + 3/16)
Structure	Load-bearing profiles, 0.118 in. wall
Joinery	Concealed connections, seamless surface
Roof Vent	Electric skylight option
Compatibility	Bi-fold, slider, swing, or fixed side glazing
Finish	Fluorocarbon spray, 70% PVDF
Color Range	Carbon Grey · Skin Black · Skin White · Coffee



BEGIN A CONVERSATION

THE NEXT STEP

We'll meet you at the *opening*.

Share the reference of the system that caught your eye and we'll walk you through performance options, lead times, and installation — by phone, by email, or at our Houston showroom.

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HOUSTON

*The Aperture Collection ·
Volume II*

MMXXVI



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SHOWROOM

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HOURS

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By appointment