



# Glass Garage Doors & Entry Systems, Inc.

## ARCHITECTURAL DESCRIPTION

### bp – Full View Aluminum & Glass Sectional Garage Doors

Factory Direct Installations in CA, AZ, NV, FL, optional in all other states (Shipped World Wide)

- MODEL'S: **bp - 350** (4 ft.-8ft. wide max. x 8 ft. high max.) **Lite Duty**  
**bp - 450 HD** (8 ft.-16 ft. wide max. x 12 ft. high max.) **Heavy Duty**  
**bp - 550 SHD** (16 ft.-24 ft. wide max. x 16 ft. high max.) **Super Heavy Duty**  
**California Line:** Typ. use: Garages & Warehouses spaces (Non Conditioned)  
**Insulated Line:** Typ. use: Sealing the Building Envelope (Air Tight for HVAC)  
**Hurricane Line:** Typ. use: High Wind & Miami / Dade NOA (Hurricane Zones)
- MANUFACTURER: Aluminum & Glass Sectional Overhead Garage Doors: Full Vision Type; manufactured by **bp - Glass Garage Doors** in Pomona, CA - 877- 442-1716 – [www.glassgaragedoors.com](http://www.glassgaragedoors.com)  
An established manufacturer with 65 years experience specializing in Glass Garage Doors
- ALUM. FRAMES: All sections are constructed of **bp** - extruded aluminum alloy. The tensile strength is a minimum of 38 ksi, and approximately double the strength of standard 6063-T5 aluminum alloy.  
All rails are heat treated to maximum hardness as per Aluminum Association Standards.
- STILES & RAILS: **Model bp - 350:** Top rails, bottom rails, and end stiles are 3-1/4" wide.  
**Model bp - 450 HD:** Top & Bottom rails are 5-3/8" wide and end stiles are 3-1/4" wide  
**Model bp – 550 SHD:** Top & Bottom rails are 5-3/8" wide and end stiles are 3-1/4" wide  
Horizontal meeting rails have a combined width of 2-3/4".  
Vertical intermediate center mullions are 1-1/2" wide.  
5/16 inch thru-bolts, nuts, and washers are used to rigidly secure all stiles and rails.
- FINISH: All rails are standard clear anodized at least 4 mills thick for a permanent luster finish.  
Powder coated colors can be chosen from the RAL European color standard. (Optional)  
(Kynar paints or coatings are optional. Control Samples or Color #'s must be provided to **bp**)
- DOOR THICKNESS: 1-3/4 inches thick.
- JOINTS: All joints are mitered to form a tight and smooth fit with the door rails.
- COUNTER BALANCE: Galvanized torsion springs, head-plates, and center spring supports are mounted on a continuous galvanized torsion bar, calculated to exact weight and travel of each door.  
Cable drums are of die cast aluminum and are paired categorically for the track type specified.  
Lift cables are of high tension galvanized aviation type. (1/8 " – 1/4" as req. by Factory Calc.'s)  
Stainless Steel: Springs, and hardware above, can be substituted in lieu of galvanized (Optional)
- TRACK: 2 inch x 15ga. galvanized continuous angle mounted (14 inch or 20 in. radius x 600lb max.)  
3 inch x 12ga. galvanized continuous angle mounted (15 inch radius x 1200lb max.)  
3 inch x 12ga. Stainless Steel continuous angle mounted (15 inch radius x 1400lb max) (Optional)  
All tracks are tapered to insure a weather-tight fit when in the closed position.  
(See "Track Selection Guide" for headroom required in our design guide: [glassgaragedoors.com](http://glassgaragedoors.com))

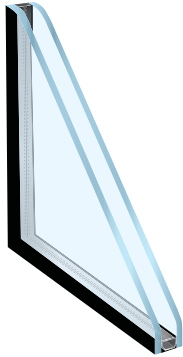


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## ACOUSTIC PERFORMANCE DATA TABLES

NOTE: **bp** - recommends "**Laminated Glass**" for BEST performance; in achieving a higher STC rating. The higher the #, the better performance in reducing sound. See both Insulated & Laminated STC ratings (Sound Transmission Class) comparisons below.

### INSULATING ACOUSTICAL DATA

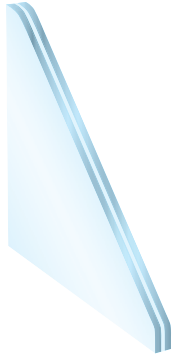


**bp** - Acoustical Glass is made from combinations of various glass types along with acoustical window frames to help you effectively reduce sound transmission from airplanes, trains, vehicles and other unwanted noises. The performance data below applies to an insulating unit constructed with two plies of glass and an air or argon filled space. Data is based on testing ~36" x 84" glass to ASTM E413-87 in an acoustical wall. \*OITC is estimated based on this test. Glass size and glazing system will affect STC rating.

The **STC (Sound Transmission Class)** rating is a single-number rating system for interior building partitions and viewing windows used to categorize acoustic performance. Its original intent was to quantify interior building partitions not exterior wall components. As a result it is not recommended for glass selection of exterior wall applications since the single-number rating was achieved under a specific set of laboratory conditions.

The **OITC (Outside-Inside Transmission Class)** rating is used to classify acoustic performance of glazing in exterior applications.

Insulating Glass Construction	STC	OITC*	Frequency (Hz)																	
			100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
			Sound Transmission Loss (dB)																	
1/2" overall - 1/8" glass, 1/4" airspace, 1/8" glass	28	26	26	21	23	23	26	21	19	24	27	30	33	36	40	44	46	39	34	45



## LAMINATED ACOUSTICAL DATA

The performance data below applies to laminated glass units constructed with two plies of glass and an interlayer. Data is based on testing ~36" x 84" glass to ASTM E413-87 in an acoustical wall. \*OITC is estimated based on this test. Glass size and glazing system will affect STC rating.

Laminated Glass Construction	STC	OITC*	Frequency (Hz)																	
			100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
			Sound Transmission Loss (dB)																	
1/4" overall - 1/8" glass, .015" PVB, 1/8" glass	33	30	27	23	27	24	27	28	29	31	33	35	35	35	33	31	32	37	41	45
3/16" overall - S/S glass, .030" PVB, S/S glass	35	31	29	29	29	25	27	29	29	31	32	34	34	34	34	35	33	36	39	41
1/4" overall - 1/8" glass, .030" PVB, 1/8" glass	35	31	25	26	28	27	29	29	30	32	34	35	35	36	36	35	35	38	43	46
1/4" overall - 1/8" glass, .045" PVB, 1/8" glass	35	31	24	27	27	28	28	29	30	32	34	35	36	36	37	36	35	38	43	46
5/16" overall - 1/8" glass, .060" PVB, 1/8" glass	35	31	25	25	26	29	28	30	30	32	34	35	35	36	36	36	36	39	43	46
3/8" overall - 3/16" glass, 0.15" PVB, 3/16" glass	36	32	27	25	26	30	31	31	33	35	35	35	35	33	33	37	41	44	48	51
3/8" overall - 3/16" glass, .030" PVB, 3/16" glass	36	33	27	27	27	30	31	31	33	34	35	36	36	35	34	37	41	45	49	52
3/8" overall - 1/4" glass, .030" PVB, 1/8" glass	36	33	27	28	26	30	31	31	32	34	35	36	36	35	35	36	40	44	48	51

Insulated Aluminum Panels / 40 / 36 / 26 / 30 / 31 / 31 / 32 / 34 / 35 / 36 / 36 / 40 / 44 / 45 / 48 / 51 / 52 / 54 / 55 / 56



## Glass Garage Doors & Entry Systems, Inc.

- HINGES:** **bp** - Stainless Steel 12ga. laser cut and offset type, are graduated at each section to insure weather tight fit. **bp** – Stainless Steel hinges do not require lubrication. (Lifetime Warranty = Standard)
- ROLLERS:** 2 in. **bp** - Stainless Steel, poly coated tire, sealed, 500 lb ea., precision bearing, roller (Standard)  
3 in. **bp** - Stainless Steel, poly coated tire, sealed, 700 lb, precision bearing, roller (Standard)  
**bp** – Stainless Steel sealed rollers do not require lubrication. (Standard)
- WEATHER-STRIP:** A Vinyl or Santoprene gasket is applied at the factory the full length of the bottom section and at each end of the top rail where contact is made with the bumper spring.  
**bp** - Architectural perimeter weather-stripping is made of a three part extruded aluminum and Santoprene system, which conceals the fasteners with a snap cover. The **bp** – Architectural perimeter weather stripping can be exterior or interior mounted for a clean “Architectural finish”.  
**Optional:** To prevent energy loss, we recommend our Pat. Pend. “**bp** - Insulated Frame Package”
- OPERATORS:** Manual chain-hoists are compatible with standard, roof pitch, high-lift, and full vertical lift tracks  
Electric operation must be specified with the following: Push button station, key button station, and/or remote control operation. Auto reversing safety sensors are required for residential use and optional for most commercial applications. Operator specifications are per **bp** – **Glass Garage Door** factory recommendations; based on weight, height, track type, and as required per code.  
(Note: Low headroom & zero-clearance track must be electronically operated for safety)
- GLAZING:** Glass, aluminum, or specialty panels ranging from: 1/16 in. – 1/2 in. thickness, and are encased in vinyl moldings, held in place by aluminum snap-in beads, and are designed to be easily removed and replaced in case of glass or panel breakage. Tempered, Laminated, and Insulated Options.  
(Note: Call the Factory for Custom, or maximum panel limits!)
- GLASS/  
SPECIFICATIONS:** Glass type must be specified with the following: Transparent or obscured frosted, tempered or laminated safety glass, and clear or color tinted hues (Visit us online to view glass panel samples)  
**Tempered Glass** meets the quality and strength requirements of ASTM C 1036 and ASTM 1048 for condition A, Quality q3, and Kind FT (Full Tempered). Tempered glass also meets the safety criteria of CPSC 16 CFR 1201 Categories 1 & 2, ANSI Z97.1, and qualifies as the glazing material for use in hazardous locations.  
**Laminated Safety Glass** (0.030 PVB or thicker interlayer with two lites of glass) also meets the safety criteria CPSC 16 CFR 1201 Categories 1 & 2, ANSI Z97.1, and ASTM C 1172 Standard Specifications for Laminated Architectural Flat Glass. 1/4" laminated glass has an STC of 35.
- ADDL. OPTIONS:** Custom glass panels, plastic panels, metal panels, or any flat panel within 1/16”- 1/2” thick  
Ventilation louvers in 1/16” aluminum panels as required by some local building codes  
300 powder coated colors from the RAL color standard, Simulated Wood, and Kynar Paint.  
Stainless track, springs, and related hardware. Note: Stainless hinges are already provided!  
Tapered bottom sections (for use when floors are out of square or sloping)  
Custom panel locations, widths, and heights within the same door can also be accommodated to meet specific Architectural designs. Custom Requests are also accepted: Call 877-442-1716  
**Note: Custom configurations (Varied panels or centerlines, tapered bottom sections, etc.) require elevation/ shop drawings!**

VIEW ADDITIONAL OPTIONS & INFO. ON OUR DOWNLOADS PAGE: [www.GlassGarageDoors.com](http://www.GlassGarageDoors.com)