

# BOSTON PIANO SPECIFICATIONS



*Boston*  
PIANO  
DESIGNED BY STEINWAY & SONS®



# BOSTON PIANO FEATURES OF DISTINCTION

A synthesis of high-technology and the highest musical standards, the Boston piano began as a challenge: To create a piano with a level of performance and quality far superior to any instrument in its price range. Using the most sophisticated computer modeling, Steinway & Sons adapted proven patents, concepts and materials for the special requirements of streamlined manufacturing. The result is a piano that combines a modern efficient manufacturing environment with the old-world standards of artistry and craftsmanship that have become synonymous with the Steinway name. The Boston piano rose to the challenge, and, with the launch of the Boston Performance Edition, has further raised the bar. The enhancements made in the Boston “PE” piano truly elevate it to a class of its own.

In comparison to other pianos of the same size, the Boston grand piano offers a larger soundboard due to its innovative “wide tail” design. This wider construction of the case means that a 5’10” Boston grand has the same soundboard area as a typical 6’2” grand piano, thereby creating the power, richness and feel of playing a much larger piano.

A maple inner rim, found only in the finest pianos, provides a solid base for the soundboard, and, in conjunction with Steinway’s patented radial bracing, creates a strong, stable and durable instrument. The soundboard is made of premium Spruce, renowned for its resonant qualities; its solid (not laminated) construction allows it to vibrate freely, thereby producing long sustaining beautiful tone. The patented Octagrip™ pinblock, made of 11 layers of hard rock maple glued in 8 different grain angles of 60°, affords the tuning pins greater stability under tension, thereby enabling the piano to stay in tune longer. Along with a plate, hammers, action, duplex scale and many other features designed by Steinway & Sons, the Boston piano allows you to express yourself as softly or as loudly and as fluidly as you wish—without barriers to your passion or style.

	BOSTON PIANO GRAND	GP-215 PE-II	GP-193 PE-II	GP-178 PE-II	GP-163 PE-II	GP-156 PE-II	BOSTON PIANO UPRIGHT	UP-132E PE	UP-126E PE	UP-118E PE	UP-118S PE
<b>DIMENSIONS</b>											
<b>HEIGHT</b>		102 cm (40")	102 cm (40")	102 cm (40")	102 cm (40")	102 cm (40")		132 cm (52")	126 cm (49-1/2")	118 cm (46-1/2")	118 cm (46-1/2")
<b>LENGTH</b>		215 cm (7' 1")	193 cm (6' 4")	178 cm (5' 10")	163 cm (5' 4")	156 cm (5' 1-1/2")					
<b>WIDTH</b>		155 cm (61")	154 cm (60-3/4")	151 cm (59-3/4")	151 cm (59-3/4")	151 cm (59-3/4")		154 cm (60-1/2")	151 cm (59-1/4")	151 cm (59-1/4")	151 cm (59-1/4")
<b>DEPTH</b>								67 cm (26-1/4")	62 cm (24-1/4")	60 cm (23-1/2")	58 cm (22-3/4")
<b>NET WEIGHT</b>		404 kg (889 lb)	374 kg (823 lb)	333 kg (733 lb)	322 kg (708 lb)	311 kg (684 lb)		302 kg (664 lb)	278 kg (612 lb)	255 kg (561 lb)	218 kg (480 lb)
<b>ENCASEMENT</b>											
<b>FURNITURE</b>	Ebony polish and ebony satin finishes, trimmed inside with Kewazinga Bubinga; veneered cases with natural finishes over American Walnut and African Mahogany veneers; and white polish finish.	Ebony	Ebony	Ebony, Walnut, Mahogany	Ebony, Walnut, Mahogany, White	Ebony	Ebony polish and ebony satin finishes; veneered cases with natural finishes over American Oak, American Walnut and African Mahogany veneers; and white polish finish.	Ebony	Ebony, Mahogany	Ebony, Walnut, Mahogany	Black Oak, Mahogany
<b>FINISH</b>	Polyester (polished finishes) or nitrocellulose laquer (satin finishes).						Polyester (polished finishes) or polyurethane or nitrocellulose laquer (satin finishes).	Polished Only	Polished Only		Satin Only
<b>HARDWARE</b>	Solid brass: polished and laquered.						Solid brass: polished and laquered.				
<b>CABINET STYLE</b>		Classic	Classic	Classic	Classic	Classic		European	European	European	School

(CONTINUED ON FOLLOWING PAGE)

BOSTON PIANO GRAND		GP-215 PE-II	GP-193 PE-II	GP-178 PE-II	GP-163 PE-II	GP-156 PE-II	BOSTON PIANO UPRIGHT	UP-132E PE	UP-126E PE	UP-118E PE	UP-118S PE
<b>INSTRUMENT</b>											
<b>RIM/ BACKFRAME</b>	Laminated hard rock maple ( <i>Acer Saccharum</i> ) inner rim. Laminated Phillippine mahogany outer rim. Continuous bent rim. <u>Number of Laminations:</u> Outer/Inner <u>Thickness:</u> Outer Inner	15/17  29 mm (1-1/8")  38 mm (1-1/2")	13/17  26 mm (1")  38 mm (1-1/2")	11/17  23 mm (7/8")  38 mm (1-1/2")	11/17  23 mm (7/8")  38 mm (1-1/2")	11/17  23 mm (7/8")  38 mm (1-1/2")	Mahogany foot-piece, soundboard lining and backboard. Specially-designed grand-type mahogany closing rim; unequaled vertical strength and stability and improved acoustics. Backposts have staggered spacing to enhance tone and provide support where needed.				
<b>BRACES/ POSTS</b>	Radiating braces of laminated Phillippine mahogany provide stronger triangular support than parallel designs. This rigid support increases tuning stability, soundboard, crown retention and longer piano life.  Number of braces:	4 radial +3 horizontal	4	3	3	2 +1 treble	Full-length laminated mahogany posts assure that the backframe will remain straight and consistent and tuning will remain stable. Mahogany fill-blocks between posts at the top and bottom of the backframe, capped with a mahogany backboard for positive vertical alignment.  # of posts:  Total cross-sectional area:  Thickness of post:  Width of post:	Solid filler blocks (no hollow spots)  5  477 cm <sup>2</sup> (73.9 in <sup>2</sup> )  9 cm (3-1/2")  (3) 9 cm (3-1/2") (2) 13 cm (5-1/8")	Solid filler blocks (no hollow spots)  5  450 cm <sup>2</sup> (69.8 in <sup>2</sup> )  9 cm (3-1/2")  10 cm (4")	Solid filler blocks (no hollow spots)  5  400 cm <sup>2</sup> (62 in <sup>2</sup> )  8 cm (3-1/8")  10 cm (4")	Solid filler blocks (no hollow spots)  5  240 cm <sup>2</sup> (37.2 in <sup>2</sup> )  6 cm (2-3/8")  8 cm (3-1/8")
<b>PINBLOCK</b>	Octagrip™ pinblock made of 11 layers of hard rock maple—glued in different grain angles of 60°—affording the tuning pins greater stability under tension and enabling the piano to stay in tune longer.  Number of laminations:	11	11	11	11	11	Octagrip™ pinblock made of 11 layers of hard rock maple—glued in different grain angles of 60°—affording the tuning pins greater stability under tension and enabling the piano to stay in tune longer.  Number of laminations:	11	11	11	11

(CONTINUED ON FOLLOWING PAGE)

BOSTON PIANO GRAND		GP-215 PE-II	GP-193 PE-II	GP-178 PE-II	GP-163 PE-II	GP-156 PE-II	BOSTON PIANO UPRIGHT	UP-132E PE	UP-126E PE	UP-118E PE	UP-118S PE
<b>SOUND-BOARD</b>	<p>Close and straight-grain solid (not laminated) Sitka spruce. Minimum 3 annual growth rings per cm (minimum 8 per inch).</p> <p>Tapered from treble to bass, which allows a greater freedom of movement thereby creating a richer and more lasting tonal response.</p> <p>Vibrating area:</p>	9 mm to 7 mm  1.70 m <sup>2</sup> (2,625 in <sup>2</sup> )	9 mm to 7 mm  1.47 m <sup>2</sup> (2,284 in <sup>2</sup> )	8 mm to 6 mm  1.30 m <sup>2</sup> (2,020 in <sup>2</sup> )	8 mm to 6 mm  1.15 m <sup>2</sup> (1,776 in <sup>2</sup> )	8 mm to 6 mm  1.09 m <sup>2</sup> (1,683 in <sup>2</sup> )	<p>Close and straight-grain solid (not laminated) spruce. Minimum 3 annual growth rings per cm (minimum 8 per inch).</p> <p>Tapered from treble to bass, to provide a rich tone in the bass, and a brilliant and crisp tone in the treble, creating a well-balanced and lasting tonal response.</p> <p>Vibrating area:</p> <p>Closing rim evens out the soundboard's response to all frequencies, eliminating "hot" spots. Emulates shape of grand soundboard.</p>	9 mm to 8 mm  1.14 m <sup>2</sup> (1,767 in <sup>2</sup> )	9 mm to 7 mm Dual Tapered  1.07 m <sup>2</sup> (1,659 in <sup>2</sup> )	9 mm to 8 mm  1.11 m <sup>2</sup> (1,721 in <sup>2</sup> )	9 mm to 8 mm  1.11 m <sup>2</sup> (1,721 in <sup>2</sup> )
<b>RIBS</b>	<p>Made from durable spruce to assure strong and constant support of the strings bearing down on the soundboard. Ribs are fully let-in to the inner rim to support the important soundboard crown and prevent the piano from losing its tone.</p> <p>Number of ribs:</p>	13	12	11	10	10	<p>Made from durable spruce to assure strong and constant support of the strings bearing down on the soundboard. Ribs are fully let-in to the liner to support the important soundboard crown and prevent the piano from losing its tone.</p> <p>Number of ribs:</p>	11	11	10	10
<b>BRIDGES</b>	<p>Treble: Vertically laminated (alternating mahogany and maple) with a solid maple cap, curved to fit the crown of the soundboard. Bass: Solid maple mounted to cantilevered base. Doweled, glued and screwed to soundboard.</p>	One continuous bass and treble bridge.					<p>Treble: Solid maple, curved to fit the crown of the soundboard. Bass: Solid maple mounted to cantilevered base. Doweled, glued and screwed to soundboard.</p>				

(CONTINUED ON FOLLOWING PAGE)

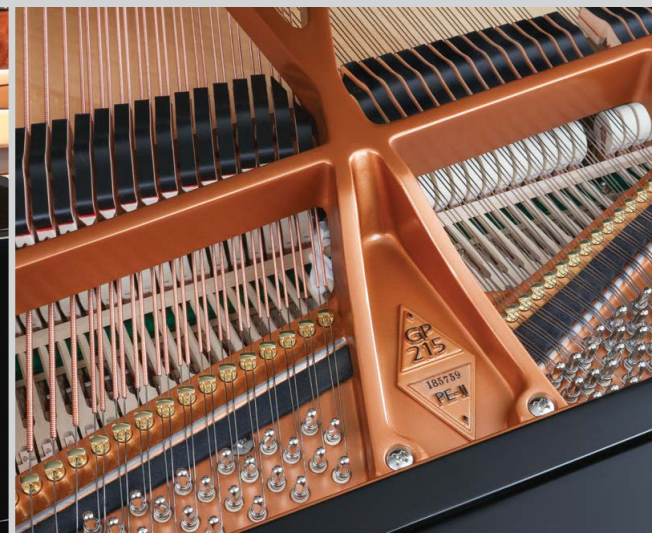
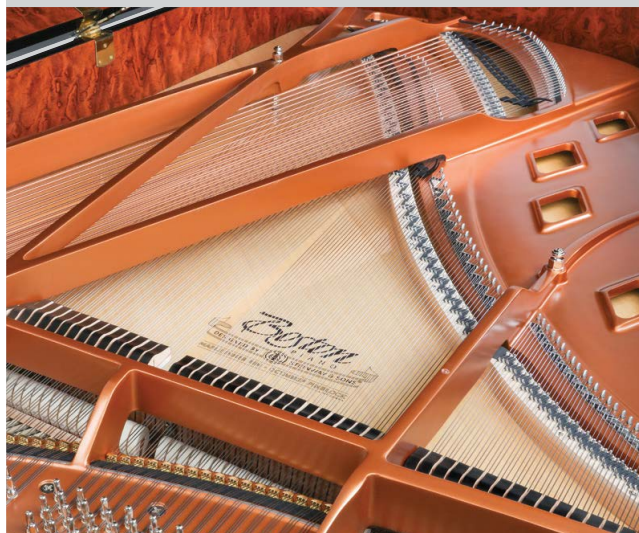
BOSTON PIANO GRAND		GP-215 PE-II	GP-193 PE-II	GP-178 PE-II	GP-163 PE-II	GP-156 PE-II	BOSTON PIANO UPRIGHT	UP-132E PE	UP-126E PE	UP-118E PE	UP-118S PE
<b>SCALE</b>	Overstrung: combination agraffe; with front and rear duplex. Lower tension scale for longer sustaining tone and longer life of the whole piano.	17,577 kg (38,669 lb)	16,814 kg (36,990 lb)	15,890 kg (34,958 lb)	16,068 kg (35,350 lb)	15,867 kg (34,906 lb)	Overstrung: Lower tension scale for longer sustaining tone and longer life of the whole piano.	17,633 kg (38,875 lb)	16,727 kg (36,877 lb)	17,425 kg (38,415 lb)	17,425 kg (38,415 lb)
<b>PLATE</b>	Cast from grey iron, bronze-painted and laquered.	Vacuum Cast	Vacuum Cast	Vacuum Cast	Vacuum Cast	Vacuum Cast	Cast from grey iron, bronze-painted and laquered.	Vacuum Cast	Vacuum Cast	Vacuum Cast	Vacuum Cast
<b>TUNING PINS</b>	Nickel-plated steel, cut threaded.						Nickel-plated steel, cut threaded.				
<b>STRINGS</b>	Treble: Highest grade steel (in half size increments). Number of sizes: 16 Lowest tenor note: 21 Mapes Bass Strings: Steel core wire wound with solid copper. Made by Mapes in Tennessee, U.S.A. Number 1 speaking length: 163.6 cm (64.4")	16 21 163.6 cm (64.4")	16 21 142.5 cm (56.1")	15 27 135.9 cm (53.5")	13 27 119.4 cm (47")	13 33 114.2 cm (45")	Treble: Highest grade steel (in half size increments). Number of sizes: 13 Lowest tenor note: 30 Bass: Steel core wire wound with solid copper. Number 1 speaking length: 121.7 cm (47.9")	13 30 121.7 cm (47.9")	12 28 117.3 cm (46.2")	14 28 115.0 cm (45.3")	14 28 115.0 cm (45.3")
<b>HAMMERS</b>	Premium wool topfelt over premium wool underfelt. Weight of topfelt: Compression-wired to retain permanent shape. Mahogany moldings. Tapered hammer-shanks from select resilient maple or horn-beam. Computer-designed pear-shaped hammers result in superior tone, increased durability and greater voicing ability.	9.8 kg (21.6 lb)	9.8 kg (21.6 lb)	9.5 kg (20.9 lb)	9.5 kg (20.9 lb)	9.5 kg (20.9 lb)	Premium wool topfelt over premium wool underfelt. Weight of topfelt: Compression-wired to retain permanent shape. Mahogany moldings. Hammer-shanks from select resilient maple or horn-beam. Computer-designed pear-shaped hammers result in superior tone, increased durability and greater voicing ability.	9.4 kg (20.8 lb)	9.4 kg (20.8 lb)	9.4 kg (20.8 lb)	9.4 kg (20.8 lb)

(CONTINUED ON FOLLOWING PAGE)

BOSTON PIANO GRAND		GP-215 PE-II	GP-193 PE-II	GP-178 PE-II	GP-163 PE-II	GP-156 PE-II	BOSTON PIANO UPRIGHT	UP-132E PE	UP-126E PE	UP-118E PE	UP-118S PE
<b>ACTION</b>	Solid maple (all wood, no plastic) for all moving parts. Steinway profile-shaped flanges, extruded aluminum action rails for increased stability and less frequent regulation. Steinway action geometry provides superior touch.						Solid maple (all wood, no plastic) for all moving parts. Extruded aluminum action rails for increased stability and less frequent regulation. Dependable direct-blow design.				
<b>KEYS</b>	Genuine spruce, individually balanced and weighted. New synthetic ebony has ebony-like surface texture and appearance that absorbs perspiration from the fingers. The fine synthetic ivory of the white keys has the same properties of friction, porosity, conductivity and appearance as ivory.	Synthetic ivory and ebony key covers  Length of key: 51.8cm (20.4")	Synthetic ivory and ebony key covers  Length of key: 47.8cm (18.8")	Synthetic ivory and ebony key covers  Length of key: 47.8cm (18.8")	Synthetic ivory and ebony key covers  Length of key: 47.8cm (18.8")	Synthetic ivory and ebony key covers  Length of key: 47.8cm (18.8")	Genuine spruce, individually balanced and weighted.	Synthetic ivory and ebony key covers  Length of key: 40.3 cm (15.9")	Synthetic ivory and ebony key covers  Length of key: 36.8 cm (14.5")	Synthetic ivory and ebony key covers  Length of key: 34.8 cm (13.7")	Phenolic sharps and acrylate white key covers  Length of key: 34.8 cm (13.7")
<b>KEYBED</b>	Made from laminated hardwood faced with spruce. Strong, rugged construction provides a solid mount for the keyframe and action allowing for precise and prolonged action regulation. Large maple dowel ends provide a solid mount for adjustable brass touch-regulating glides.  Keybed thickness:	42 mm	42 mm	42 mm	42 mm	42 mm	Made from laminated hardwood. Strong, rugged construction provides a solid mount for the keyframe and action allowing for precise and prolonged action regulation.  Keybed thickness:	42 mm	42 mm	42 mm	42 mm
<b>KEYFRAME</b>	Spruce with hardwood inserts in the balance rail and front rail for added stability.										

(CONTINUED ON FOLLOWING PAGE)

BOSTON PIANO GRAND		GP-215 PE-II	GP-193 PE-II	GP-178 PE-II	GP-163 PE-II	GP-156 PE-II	BOSTON PIANO UPRIGHT	UP-132E PE	UP-126E PE	UP-118E PE	UP-118S PE
<b>PEDALS</b>	Heavy solid brass castings. Soft, full sostenuto and damper (sustaining).						Heavy solid castings. Soft (half-blow), damper (sustaining), and muffler or bass sustaining.	Third pedal is muffler	Third pedal is muffler	Third pedal is muffler	Third pedal is bass sustaining
<b>OTHER</b>								Professional music desk. Two-position upper panel for tone escapement and solid music support.		Professional solid music desk.	
Music Desk:	Music desk positions:	4	4	4	4	4					
Fallboard:	Soft fall fallboard.							Soft fall fallboard.			
Casters:	Heavy-duty double-wheel solid brass casters.							Solid brass casters.		Double nylon casters.	
Locks:		Fallboard and top locks.	Fallboard and top locks.	Fallboard and top locks.	Fallboard and top locks.	No lock.		No lock.	No lock.	No lock.	Fallboard and top locks.
PropSticks:	Double top prop sticks.	Contoured	Contoured	Contoured	Contoured	Standard	Top prop sticks.				





*Boston*  
P I A N O  
DESIGNED BY STEINWAY & SONS®

[www.steinway.com](http://www.steinway.com)