

TABLE OF USEFUL MEASUREMENTS

MEASUREMENTS IN MM	VIOLIN		VIOLA		CELLO	BASS
STANDARD SIZE INSTRUMENTS	7/8	4/4	15½ in	16½ in	4/4	3/4
Body Length, Approximate	342	356	394	419	755	1110
Upper Edge of Top to Bridge Center	186	195	210	.225	400	610
Neck Length, Upper Edge of Top to Nut	125	130	140	150	280	425
Neck Thickness, Upper, Excluding FB	12.5	13	13.5	14	17	22
Neck Thickness, Lower, Excluding FB	13.5	14	14.5	15	19	30
Neck Thickness, Upper, Including FB	18.2	19	19.5	20.5	29	34
Neck Thickness, Lower, Including FB	20.2	21	21.5	22.5	33	41
Neck Height over Top Edge	5.75	6.0	8.0	9.0	19	25
(Violin E Side 0.7 lower, or: reduce fingerboard 0.7 on E side.)						
Neck Heel Measurement	25	26	27.5	28	42	66
Fingerboard Length	259	270	290	305	580	850
Fingerboard Width at Nut	23	24 (23.5)	24.5	25	31	42
Fingerboard Width at Lower End	40.5	42	45	46	63	87
Fingerboard Thickness on Sides	5.3	5.0 (5.5)	5.0	5.5	7.5	10
Fingerboard Length	259	270	290	305	580	850
Fingerboard Width at Nut	23	24 (23.5)	24.5	25	31	42
Fingerboard Width at Lower End	40.5	42	45	46	63	87
Fingerboard Thickness on Sides	5.3	5.0 (5.5)	5.0	5.5	7.5	10
FB Surface Concavity under String 1	0.5	0.5	0.7	0.7	0.9	1.6
FB Surface Concavity under String 4	0.7	0.7	0.9	0.9	1.5	2.5
FB Surface Radius of Curvature	---	42	38	38	62	95
FB Flat Surface under String 4	DNA	DNA	OPT.	OPT.	9 x 22	11 x 25
FB Height Projected to Bridge	26	27	31	32	81	150
String Length, Nut to Top of Bridge	317	330	356	380	695	1060
String Length, Bridge to Tailpiece	53	55	60	68	120	200
String 1-4 Spacing at Nut	16	16.3 (16.5)	16.5	17	22	30
(Divide into three equal parts along arc to locate strings 2 and 3.)						
String 1-4 Spacing at Bridge	32.2	33.5	37	38	47	80
String to String Spacing at Bridge	11	11.5	12.5	13	16.5	28
String I FB Clearance, Gut	3.5	3.5	4.0	4.5	5.5	11
String I FB Clearance, Steel	3.5	2.5 (3.5)	3.0	3.5	4.0	7.0
(Perlon symphony or steel rhythm bass 8.5)						
String 4 FB Clearance, Gut	5.5	5.5	6.0	6.5	8.0	16
String 4 FB Clearance, Steel	5.5	4.0	4.5	5.0	6.5	8.7
(Perlon symphony or steel rhythm bass 11)						
String Clearance at Nut About 1/3 the String Diameter (But not less than about 0.25 for violin or 0.55 for cello)						
String 2 Angle over Bridge, Degrees		158	158	158	153	148
String Groove Depth at Nut and Bridge	About 1/3 the String Diameter					
String Groove Width at Nut and Bridge	About the String Diameter					
Bridge Thickness at Strings		1.3	1.4	1.5	2.6	4.5
Bridge Thickness at Feet		4.2 (4.5)	5.0	5.5	11	21
Saddle Height Variable to Adjust the String Angle						
Sound Post Diameter		6.0	6.0	7.0	11	17
Peg Hole Spacing, Strings 1-4 and 2-3		15	18	18	27	---
Peg Hole Spacing, Strings 1-3		20	26	26	37	---
Pegbox to Inside Edge of Thumbpiece		16	17	17	28	---

TO CHANGE MM TO INCHES, DIVIDE BY 25.4