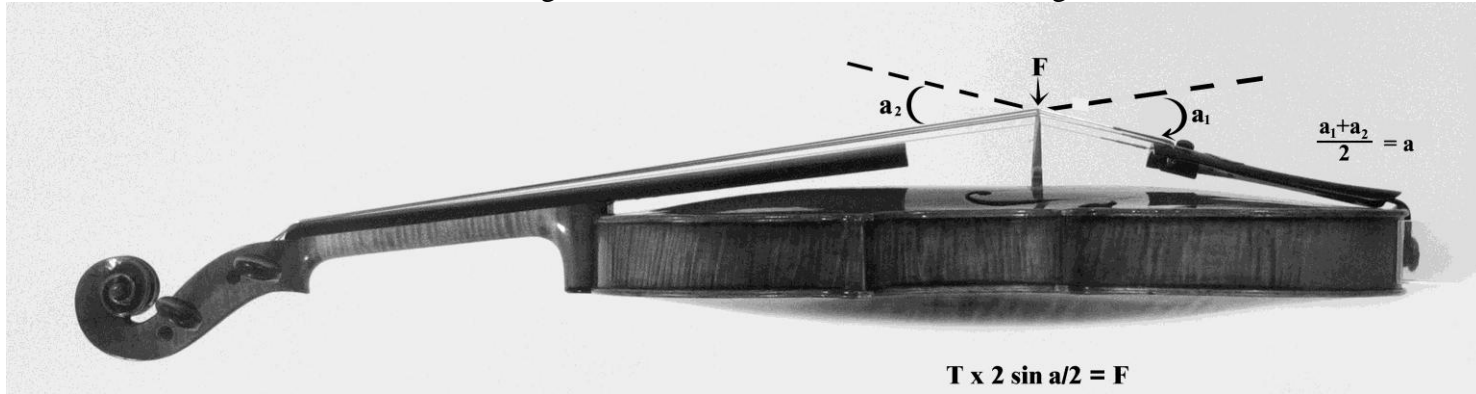


Calculating the Downward Force on a Violin Bridge



20°

$15.05 - 19.36 \text{ LB}_f$

If the angle** of the strings at the bridge is 22° ($a = 22$) the downward force at the bridge would range from $16.48 - 21.20 \text{ LB}_f$ ($T =$ tension of all 4 strings combined).
 $18.6 - 23.92 \text{ LB}_f$

25°

Violin Strings: Tension of strings measured in LB_f . All strings are medium gauge.

Brand	Manufacturer	E Steel	E Wound	E Gold	A	A Aluminum	D	D Aluminum	D Silver	G Silver	G Tungsten	G	Total range
Precision	Thomastik-Infeld	17.2			14.3			13.0		12.1			56.6
Zyex	D'Addario	18.6				13.4		12.0	13.1	10.9			54.9 - 56
Evah Pirazzi	Pirastro	19.34		17.6	12.78			10.56		11.0			51.94 - 53.68
Helicore	D'Addario	18.6	18.1		12.7			11.5		10.2			52.5 - 53
Chromcor	Pirastro	17.38			12.98				10.78	10.12			51.26
Spirocore	Thomastik-Infeld	16.5	16.5		13.2	13.2		11	11	10.1	10.1	10.1	50.8
Infeld Red	Pirastro			17.6	12.1			10.3		10.5			50.5
Vision Titanium	Thomastik-Infeld	17.6			12.1				10.3	10.3			50.3
Passione	Pirastro	17.16				11.44			10.78	10.34			49.72
Infeld Blue	Pirastro	17.6			12.1	11.44			10.3		10.3		49.64 - 50.3
Vision	Thomastik-Infeld	17.6		17.2	12.1				9.9	10.1			49.3 - 49.7
Obligato	Pirastro	17.6	17.19		11.0	12.3		9.02	9.68	10.12			47.33 - 49.7
Oliv	Pirastro			17.63	11.46			12.0	11.02	8.6			48.7 - 49.69
Wondertone Solo: Silvery Advanced Steel	Pirastro	17.16 17.38			12.32	12.1			9.46	10.34			49.06-49.5
Dominant	Thomastik-Infeld	17.2	15.9		12.1	12.1		9.1	9.9	9.9			47 - 49.1
Vision Titanium Orchestra	Thomastik-Infeld	16.9			11.9				9.9	9.9			48.6
Kaplan	D'Addario	16.8	16.3		11.7			9.2	10.4	9.0			46.2 - 47.9
Tonica	Pirastro	16.5			11.66			9.02		9.9			47.08
Eudoxa	Pirastro	17.2	16.5		11.2				7.93	8.37			44 - 44.07

**The angle of the strings at the bridge will of course be less on the E string side and higher on the G side, so these results should be taken as approximations.