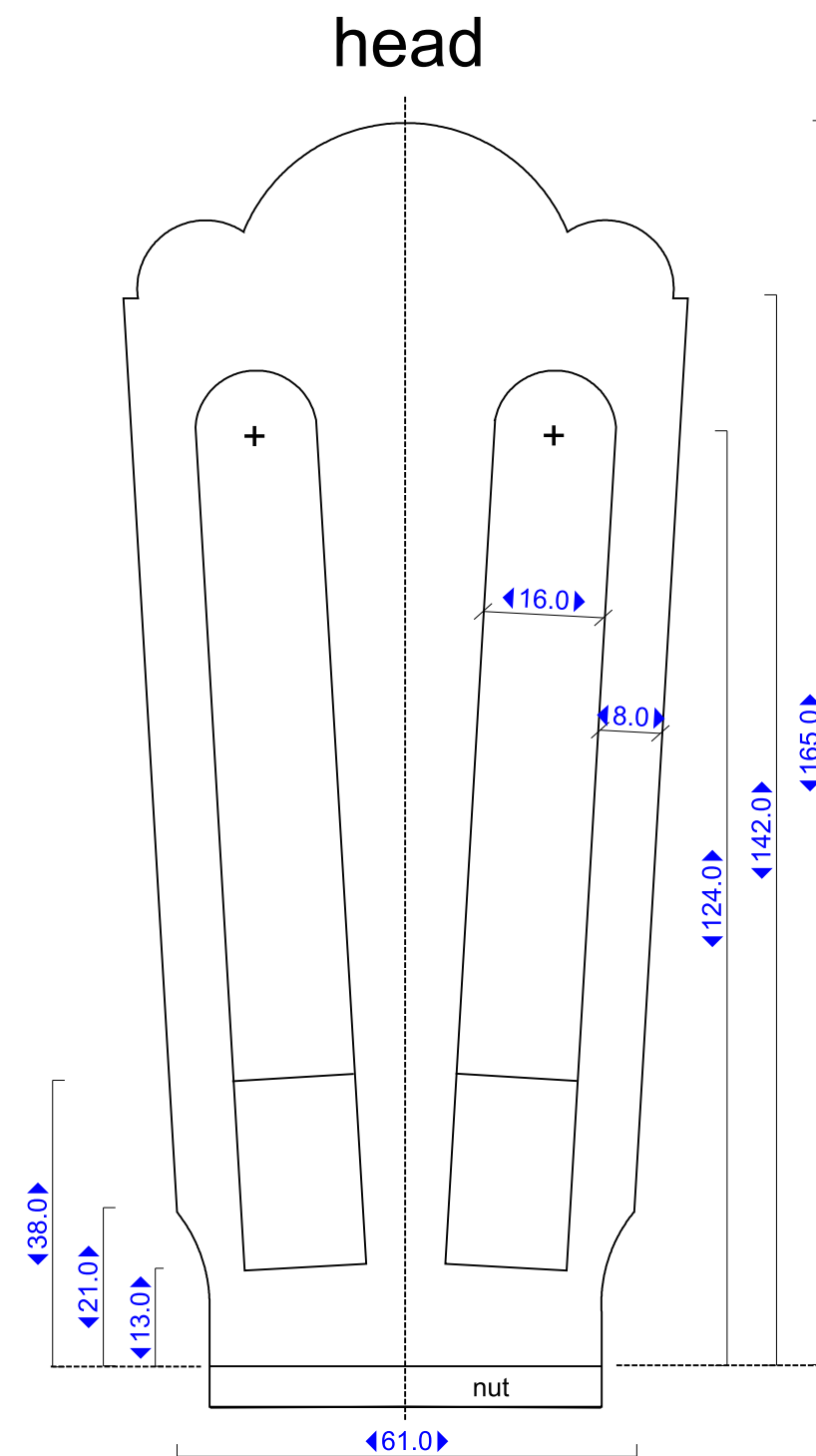


Hermann Hauser

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Concert guitar by Hermann Hauser made in 1949

scale: full size in millimetres

Materials:

soundboard: European spruce
back & ribs: Brazilian rosewood
neck: Honduras mahogany
fingerboard: ebony
bridge: Brazilian rosewood
struts: European spruce
back bars: Honduras mahogany

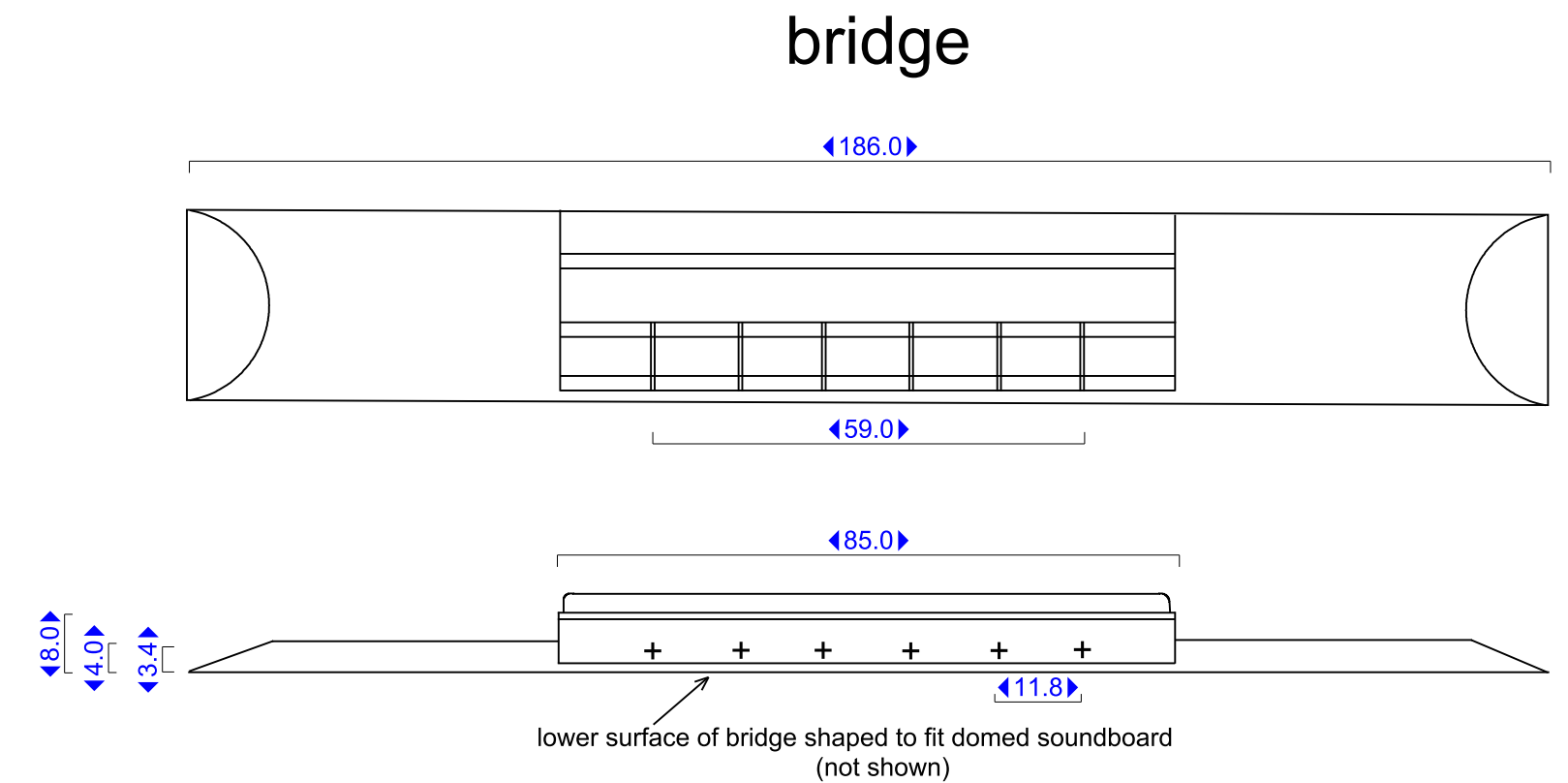
soundboard thickness: 2.3 to 2.4 (thickest on treble side)

back thickness:2.2

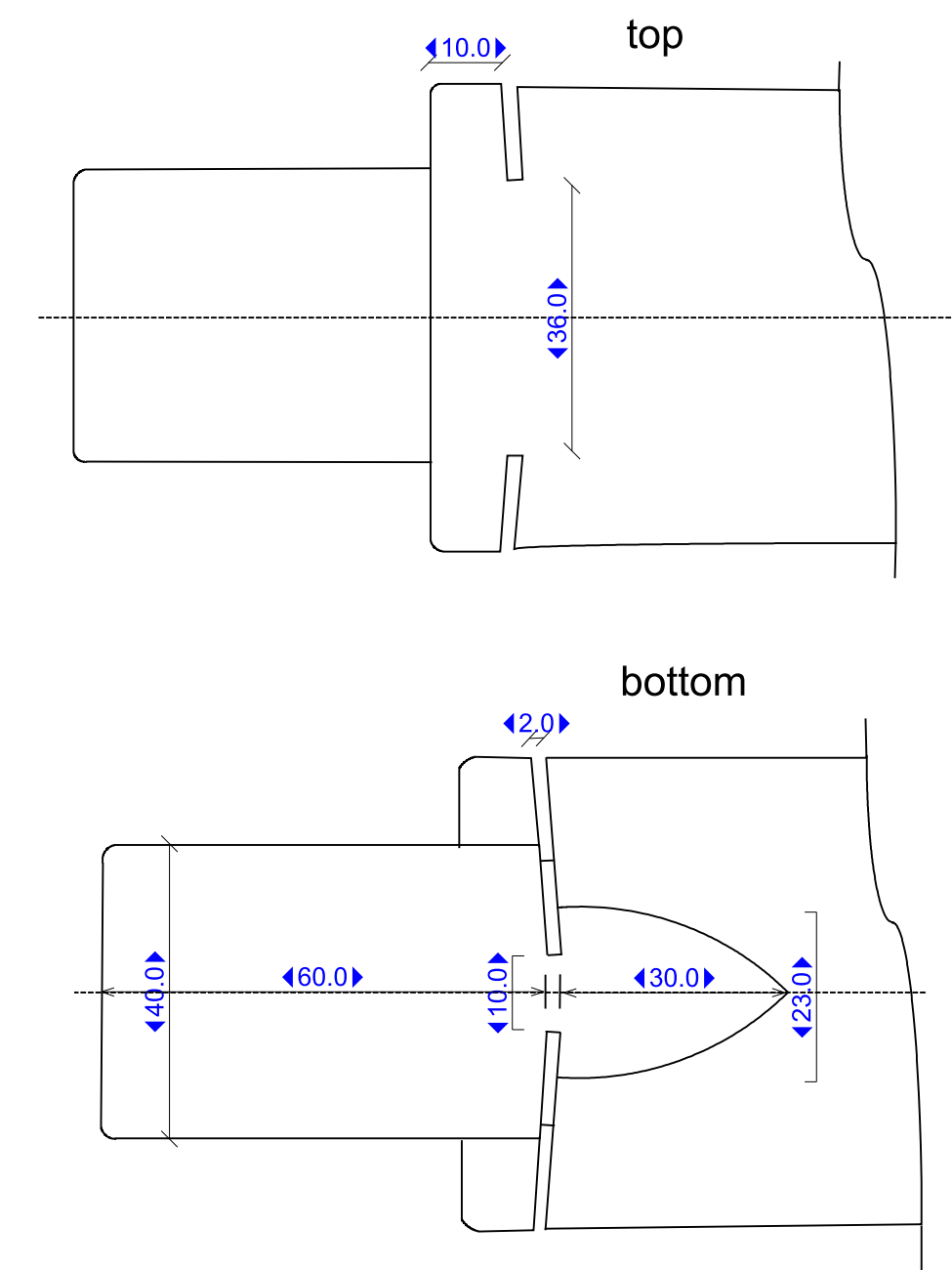
Many guitars by this maker were examined, and their outline shapes vary considerably, either due to deliberate experimentation or unintentional distortion over time.

body lengths vary from 476 to 486
upper bouts vary from 265 to 275
lower bouts vary from 351 to 361
waists vary from 222 to 232

Constructing an historically-based stringed instrument is to a large extent an interpretation of the old instrument by the new maker. Plans are a useful guide, but final subtleties of outline shape, thickness and dimensions will be influenced by aesthetic judgements, and sensitivity to the acoustic properties of the materials available to the contemporary maker.

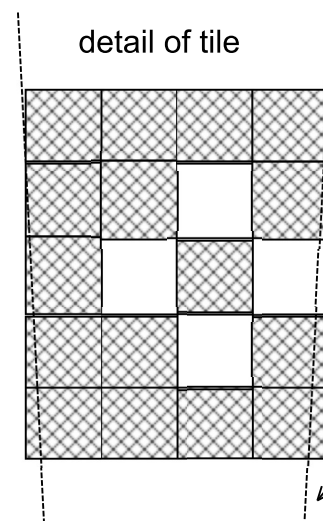


heel and foot

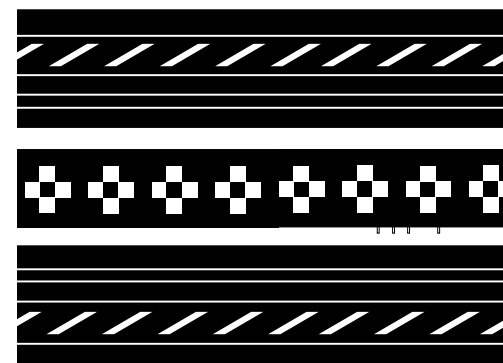


rosette

(not to scale)



tiles trimmed to fit
circumference



detail of half-herringbone



outer border:

1.4 black
0.25 white
0.25 black
1.5 half-herringbone
0.25 black
0.25 white
1.0 black
0.25 white
0.25 black
0.25 white
1.0 black
1.0 white

central motif:

3.75 end-grain mosaic pattern

inner border:

same as inner order, but in reverse

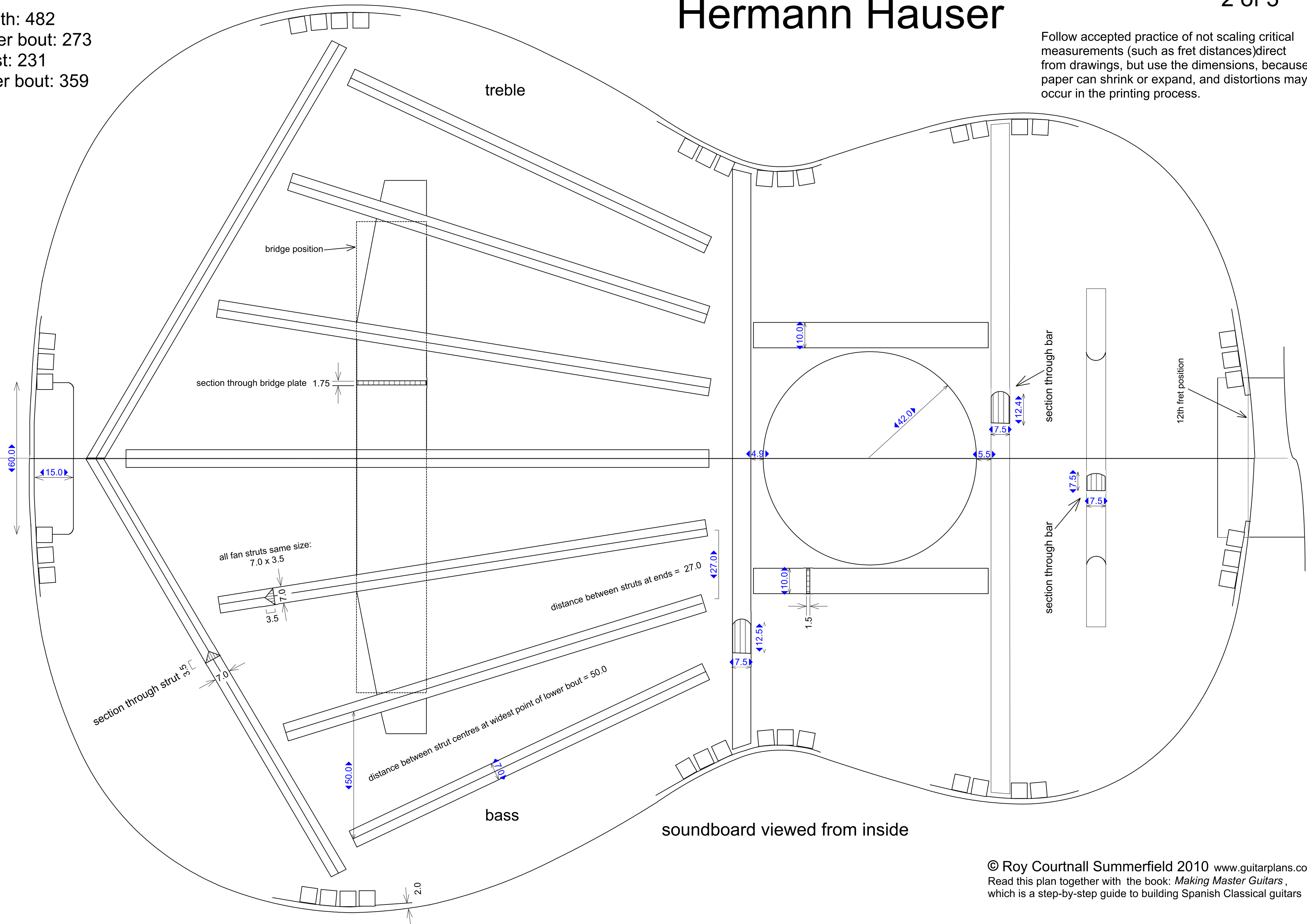
Follow accepted practice of not scaling critical measurements (such as fret distances) direct from drawings, but use the dimensions, because paper can shrink or expand, and distortions may occur in the printing process.

© Roy Courttnall Summerfield 2010 www.guitarplans.co.uk
Read this plan together with the book: *Making Master Guitars*,
which is a step-by-step guide to building Spanish Classical guitars.
Making Master Guitars is published in the United Kingdom by
Robert Hale Ltd, London. ISBN 0 7090 4809 2
Format: 210 mm x 297 mm 336 pages, 538 black and white photographs,
line drawings, sketches and plans. A French edition is available under
the title: *La Fabrication des Guitares Classiques*.

Hermann Hauser

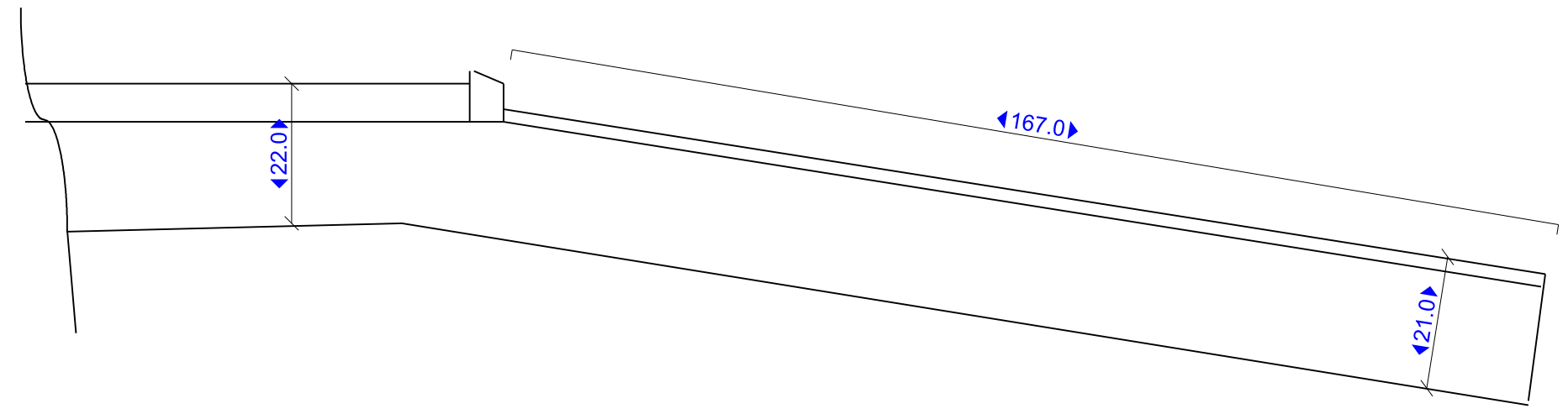
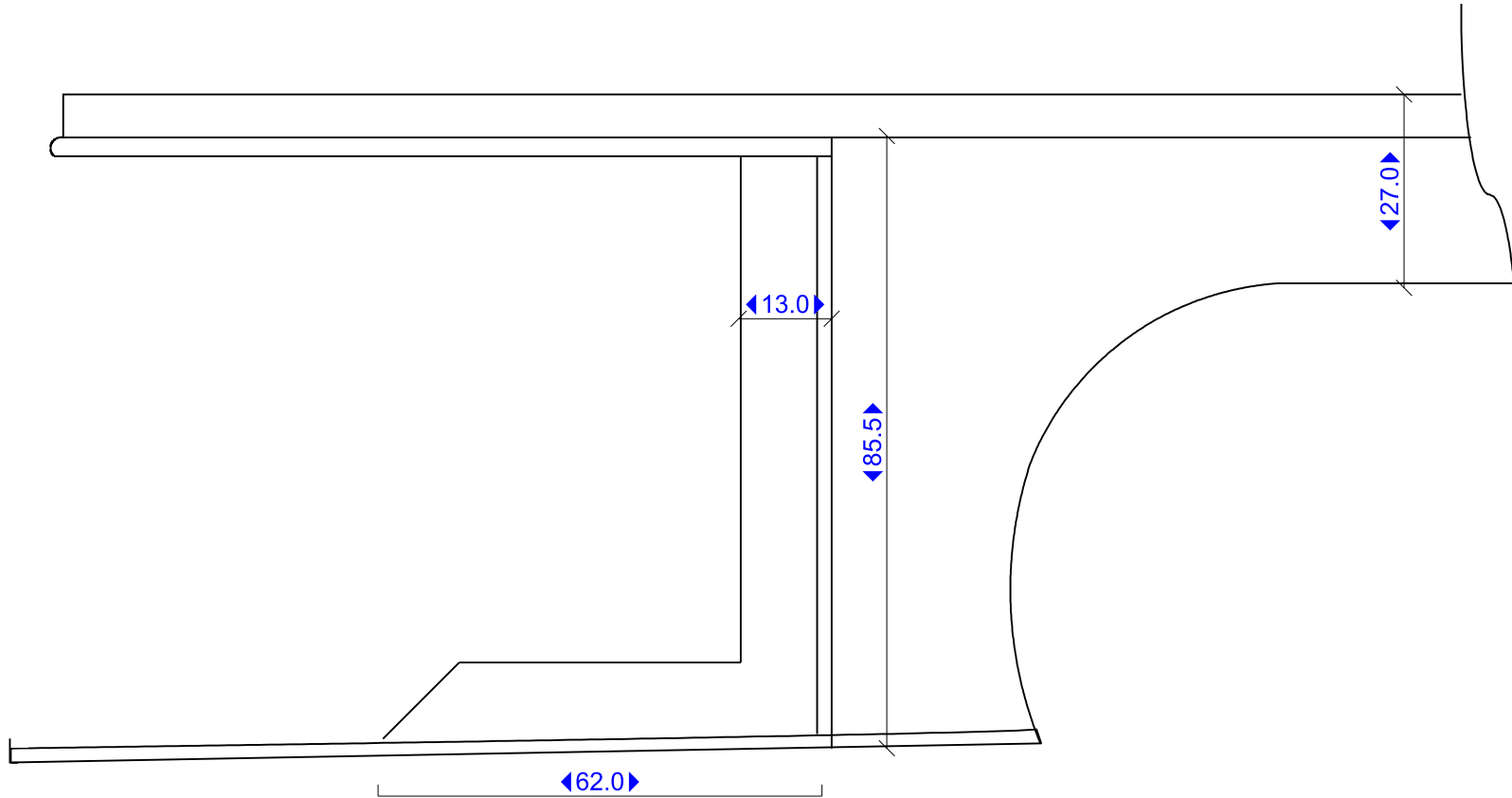
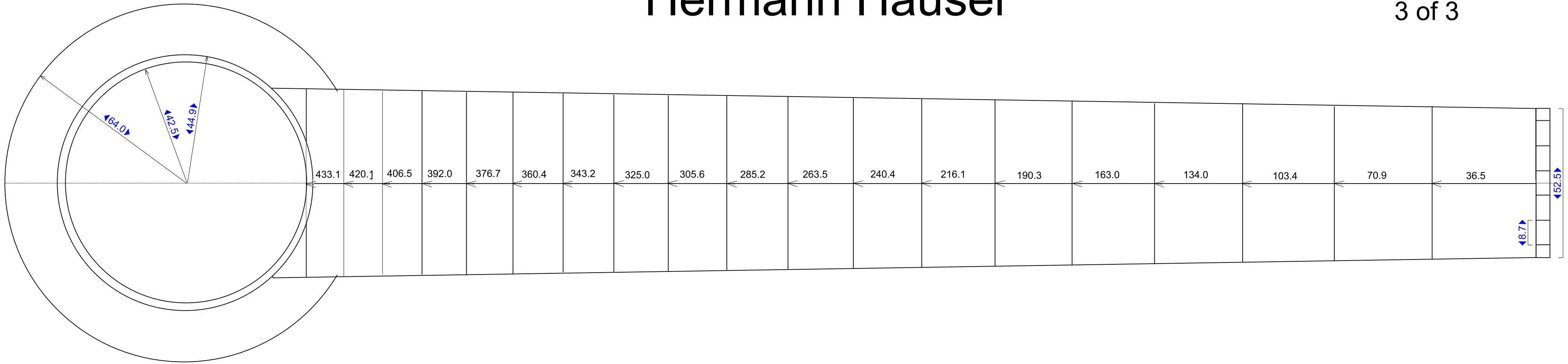
length: 482
upper bout: 273
waist: 231
lower bout: 359

Follow accepted practice of not scaling critical measurements (such as fret distances) direct from drawings, but use the dimensions, because paper can shrink or expand, and distortions may occur in the printing process.

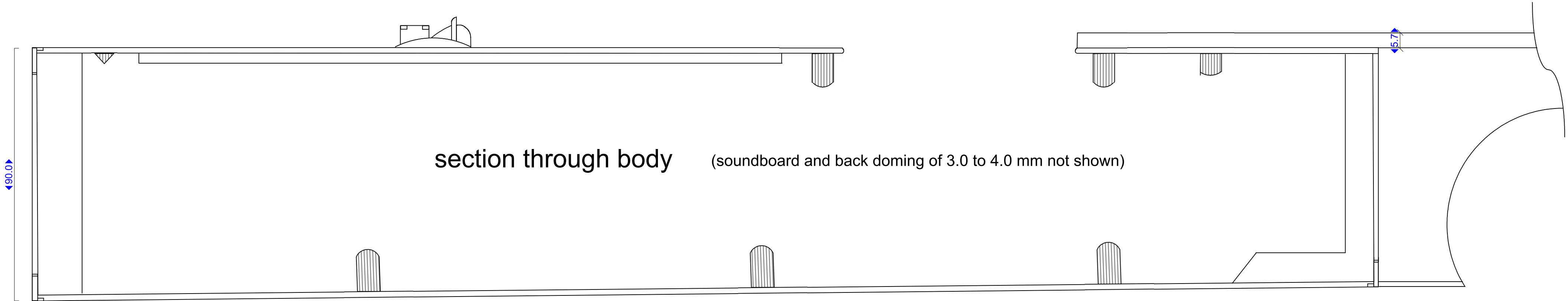


Hermann Hauser

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Follow accepted practice of not scaling critical measurements (such as fret distances) direct from drawings, but use the dimensions, because paper can shrink or expand, and distortions may occur in the printing process.



section through body (soundboard and back doming of 3.0 to 4.0 mm not shown)