

31 Veco Pursuit - Wing Spar Design and Rib Dimensions

1 message

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20 October 2021 at 07:49

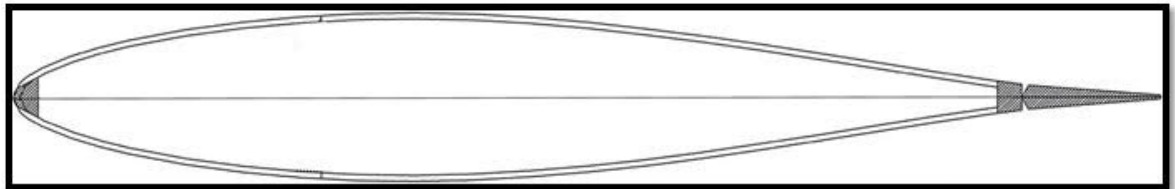
I just received an e-mail that none of the pictures came through in Report No. 31 that I just posted. So I recopied the report and am resending it now. Hopefully the picture will come through this time.....Tandy

Report No. 31

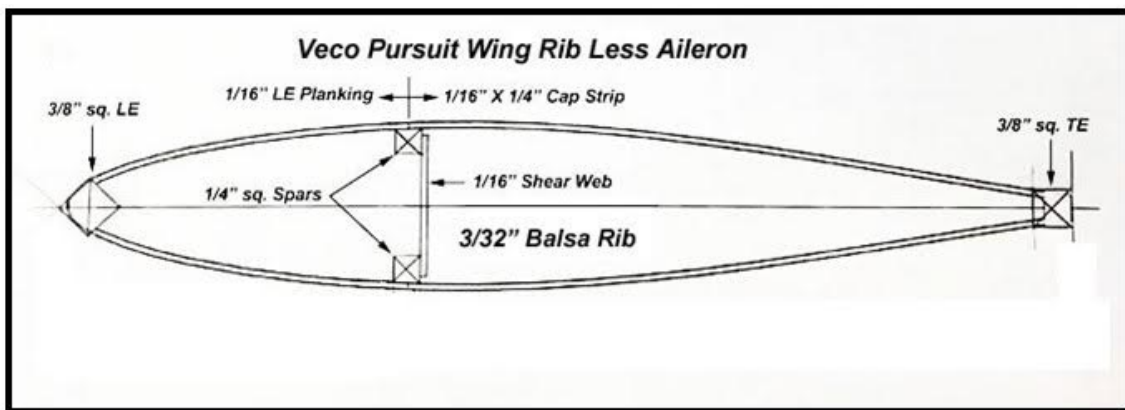
Veco Pursuit

October 19, 2021

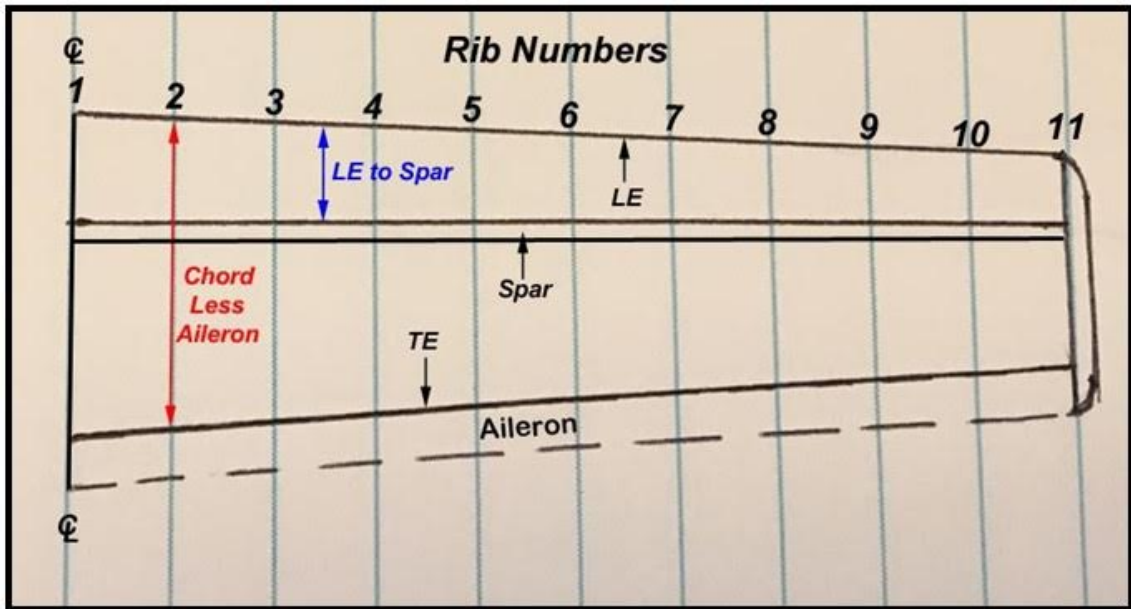
This is the Veco Pursuit's rib pattern for the LiLe wing's airfoil with the strip aileron.



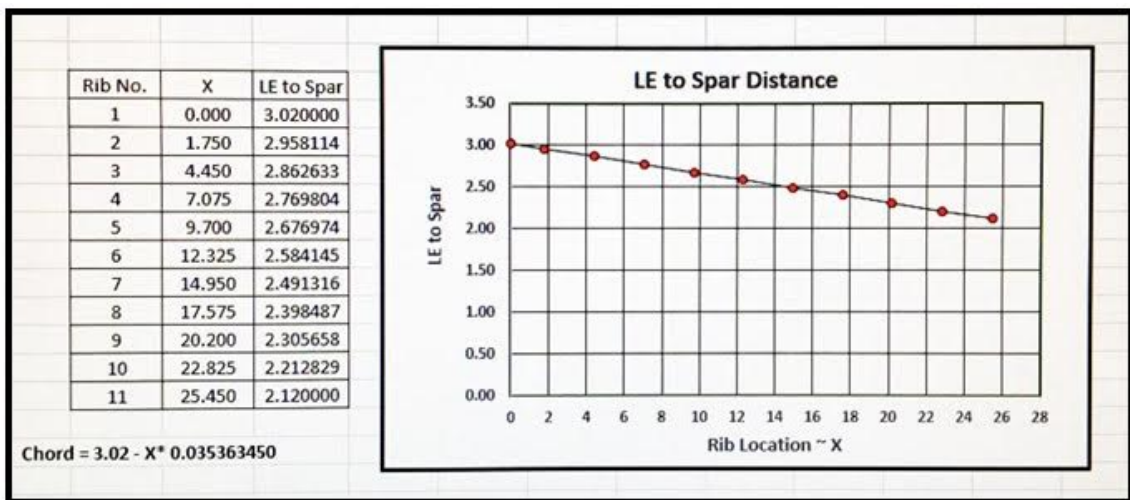
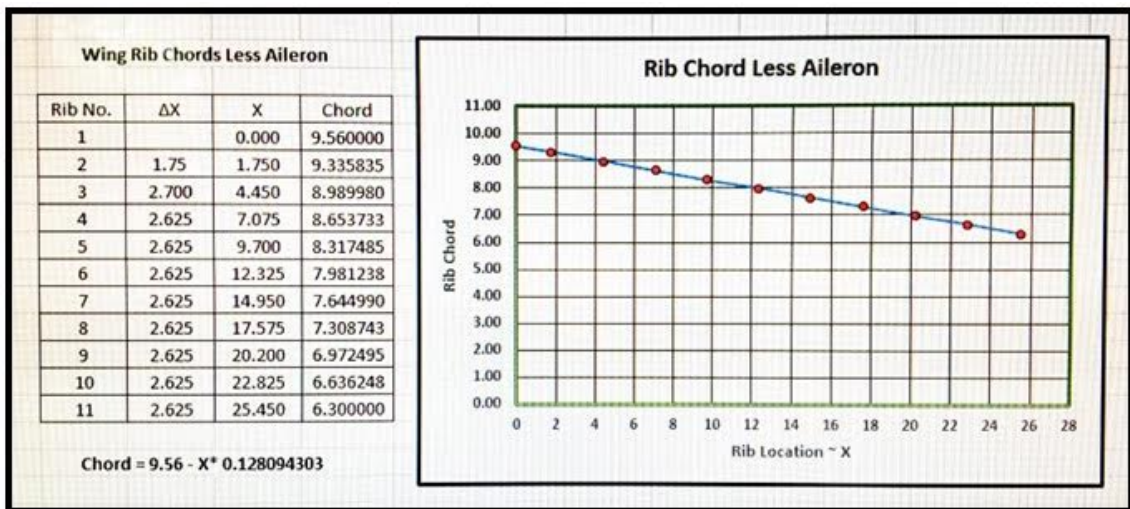
The rib's spar design is shown below. It will have non-tapered 3/8" sq. leading and trailing edges and 1/4" sq. top and bottom spars with 1/16" shear webs. The wing will have 1/16" planking back to the middle of the spars and 1/16" X 1/4" rib cap strips as shown below.



In Report No. 30, I mistakenly developed the chords of the eleven (11) wing ribs which included the strip ailerons. However, the chord of the rib should not have included the strip as shown in the sketch below.



Therefore, the chords of the ribs excluding the strip aileron (shown in red above) will now be calculated along with the distances from the LE to the spar (shown in blue above).



The LiLe wing's airfoil profile and the dimensions in the two tables above will be used to develop the patterns for each of the wing panels eleven ribs.....Tandy

