

Falco Construction Note 61008-1

# Fuselage Skins

## Introduction

The purpose of this memo is to get down on paper some details on skinning the fuselage. Previously, we have never developed a list of required plywood and a cutting schedule. This list and cutting schedule was developed by Cecil Rives, and we are indebted to him for his efforts.

## Plywood required

- 1mm birch plywood: 2 sheets (50" x 50")
- 2mm birch plywood: 8 sheets (50" x 50")
- 2.5mm birch plywood: 2 sheets (50" x 50")

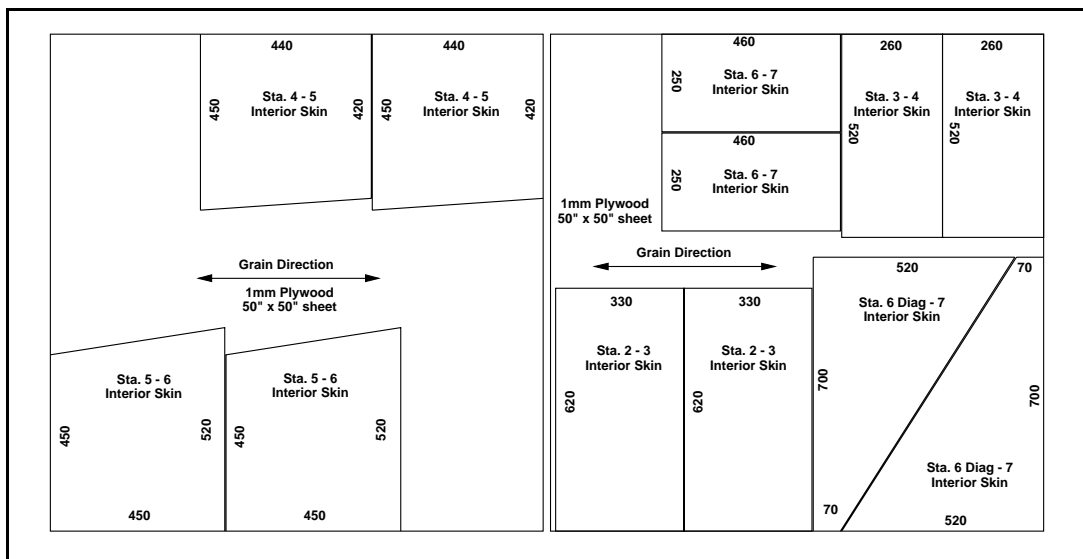


Figure 1

- Cut two 50" x 50" sheets of 1mm birch plywood as shown in Figure 1.

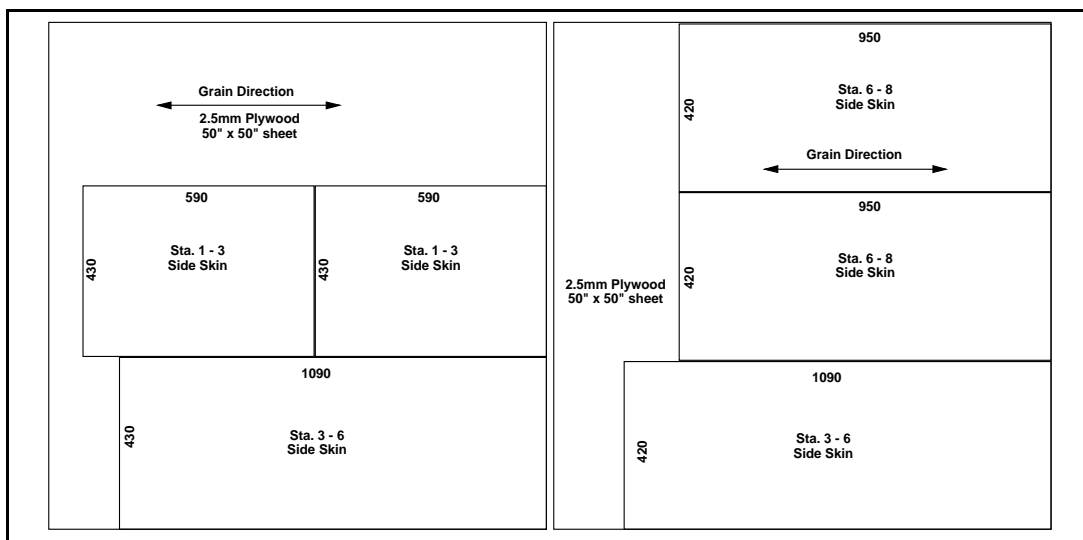


Figure 2

- Cut two 50" x 50" sheets of 2.5mm birch plywood as shown in Figure 2.

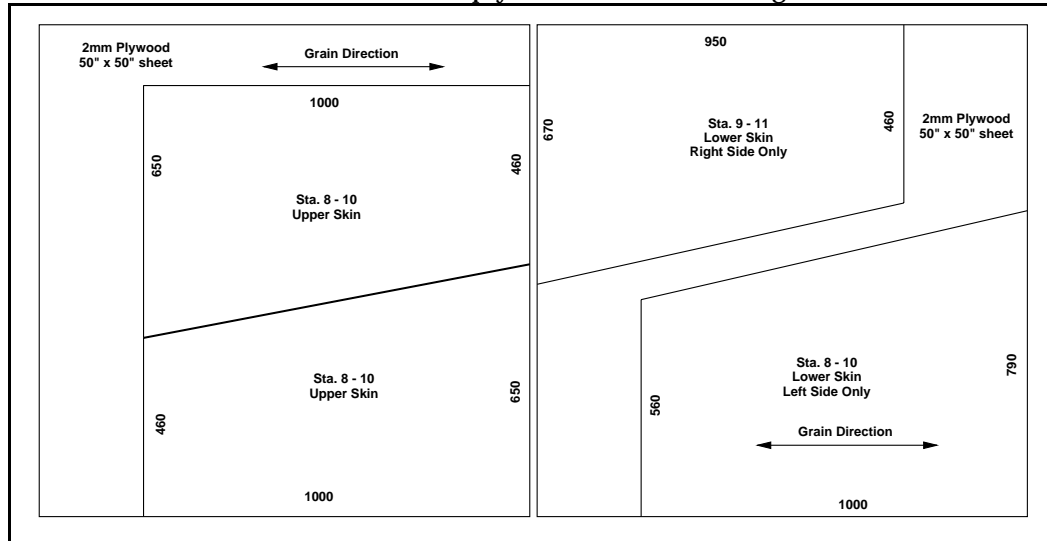


Figure 3

- Cut two 50" x 50" sheets of 2mm birch plywood as shown in Figure 3.

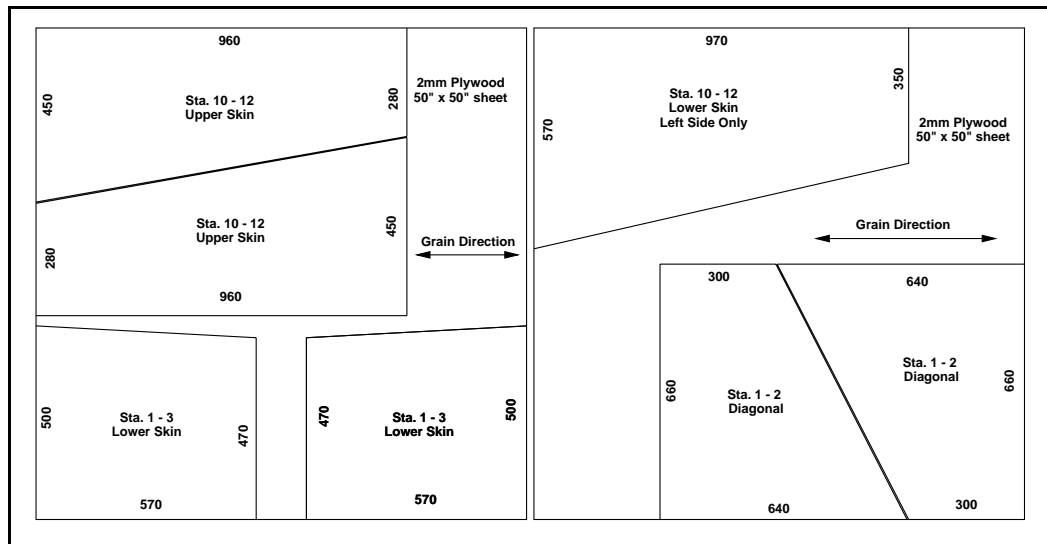


Figure 4

- Cut two 50" x 50" sheets of 2mm birch plywood as shown in Figure 4.

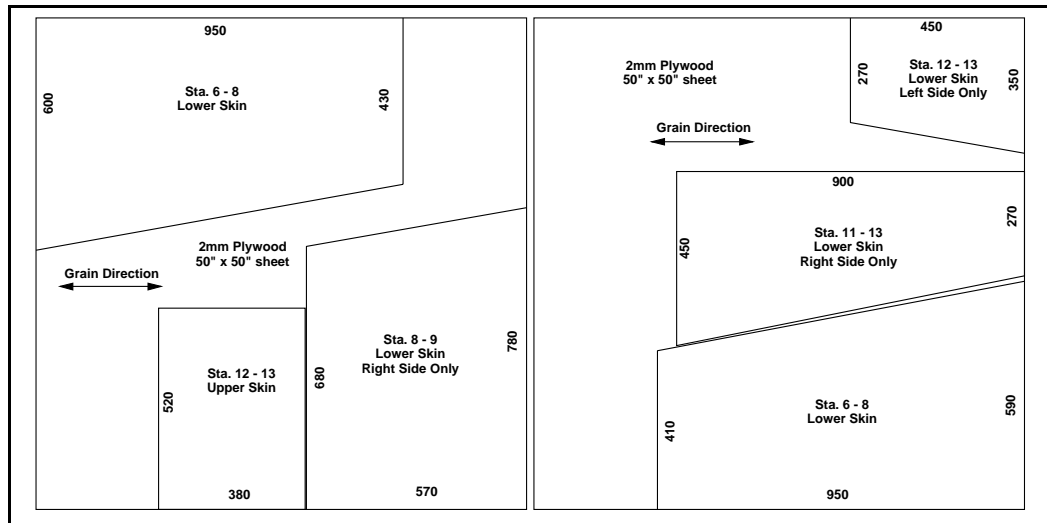


Figure 5

- ❑ Cut two 50" x 50" sheets of 2mm birch plywood as shown in Figure 5.

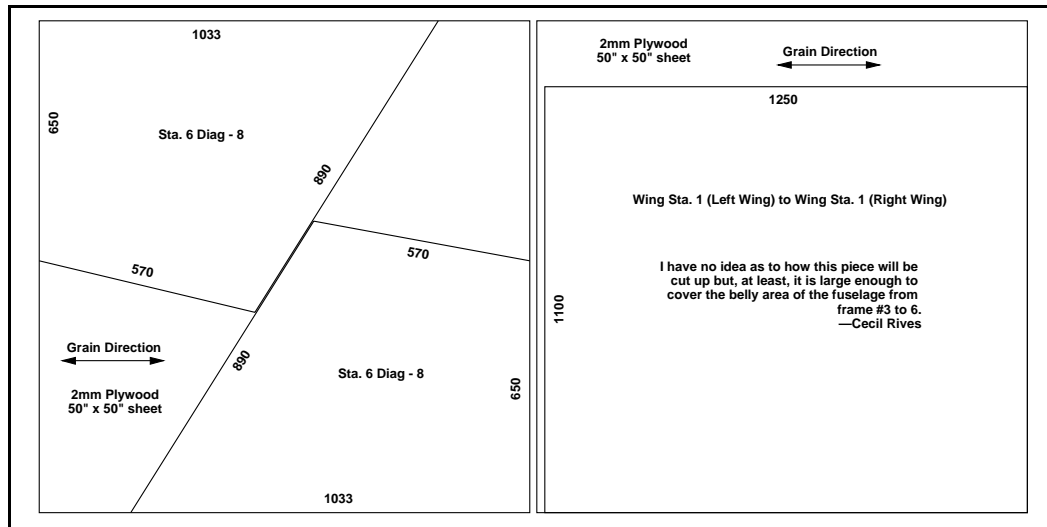


Figure 6

- ❑ Cut two 50" x 50" sheets of 2mm birch plywood as shown in Figure 6. On the skin for Sta. 6 diagonal to Sta. 8, Cecil mentioned that he cut the base side to 990, which worked but that you should make it as long as possible, preferably 1000 or more. It's shown as 1033 above.

**Additional Notes**

The dorsal fin is not included in this cutting schedule, but there's plenty of 2mm scrap left over.

Cecil left out the skin required for Sta. 2 diagonal to Sta. 3. He calculates this is a 650mm x 340mm piece of plywood.

Sta. 3-4 requires a 270 x 630 piece for the bottom skin. Not included in this schedule.

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Cecil says the bottom skin from Sta. 6 to 8 cannot be skinned in one piece (per side) because of the compound bend. Instead you need 4 pieces in all.

I also have a note that George Barrett says to saw the DTS (?) in one piece. You have to start at Sta. 7 and work out. You must work all shrinkage to all four corners. I believe he is talking about skinning the sides of the fuselage and how you staple and glue down the plywood in a single piece (dry) to work it into a compound bend.