

## **Chapter 53**

### **Fuselage**

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## 53-00-00

## GENERAL

The fuselage structure of the EXTRA 200 consists of a TIG-welded steel tube construction integrating the wing and empennage connections (refer to Figure 1).

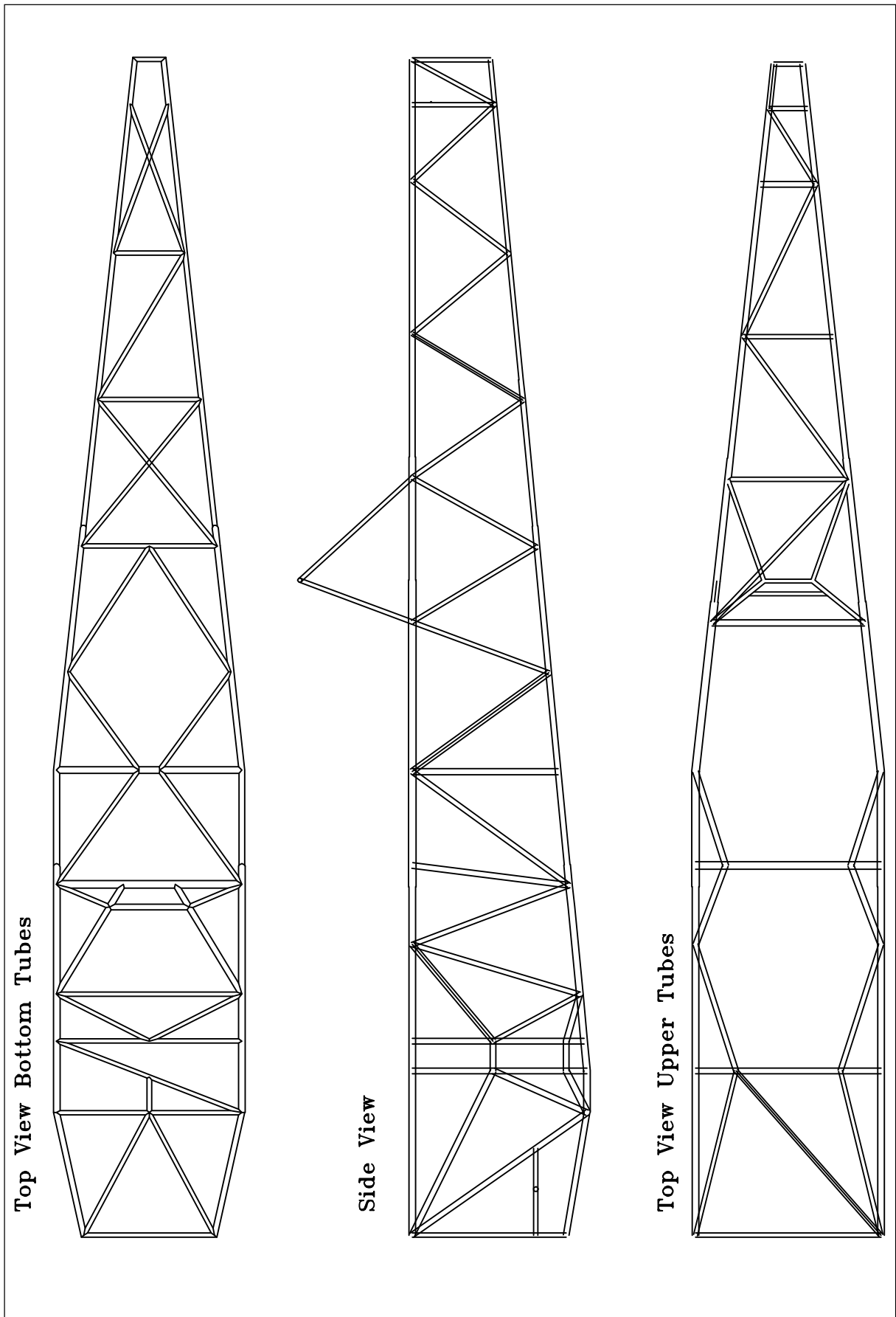
The firewall consisting of stainless steel separates the fuselage from the engine compartment. All firewall penetrations (bowden cables, fuel lines etc.) are sealed with PRC-PR 812 firewall sealant.

The particular areas of the fuselage are covered with different materials (also refer to Chapter 51-00-01 "Access Panel Identification"): Both halves of the engine cowling consist of glass fibre laminate and honeycomb. They are coated inside with a fire protection paint ("WIEDO-FLUGAT" N 56582/T508).

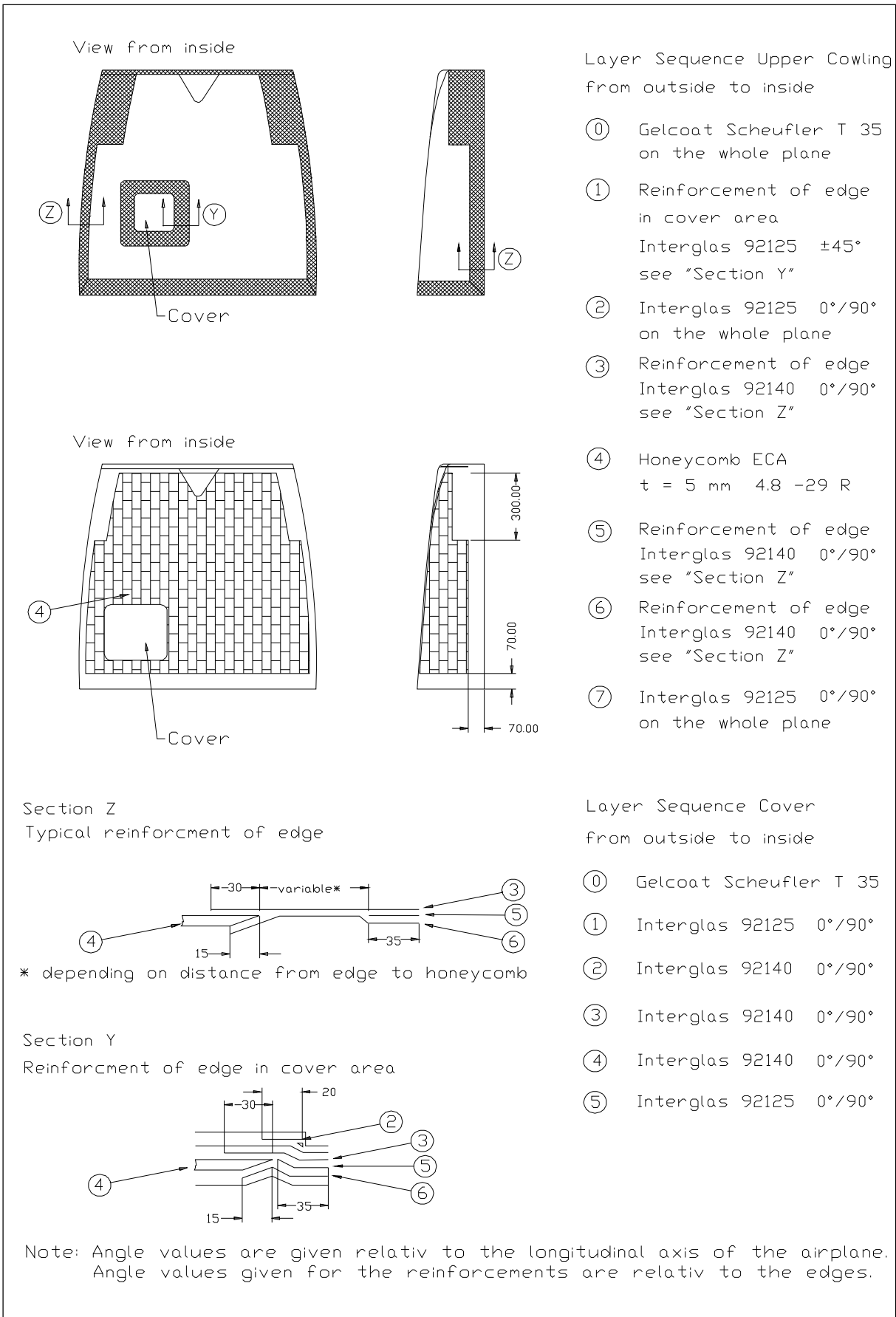
The main fuselage cover consists of glass fibre, carbon fibre and aramid laminate. The bottom fuselage cover is made of carbon fibre and aramid fibre laminate, the cuffs of carbon fibre laminate. The lower rear part of the fuselage is covered with fabric. The window portion is of acrylic glass. The tail fairing consists of glass fibre laminate and the tail side skins are made of aluminium sheet metal. The layer sequences of the composite parts are shown in Figures 2-6.

All composite parts, as protection against moisture and UV radiation, are coated with an unsaturated polyester gel-coat, an acrylic filler and finally with an acrylic paint.

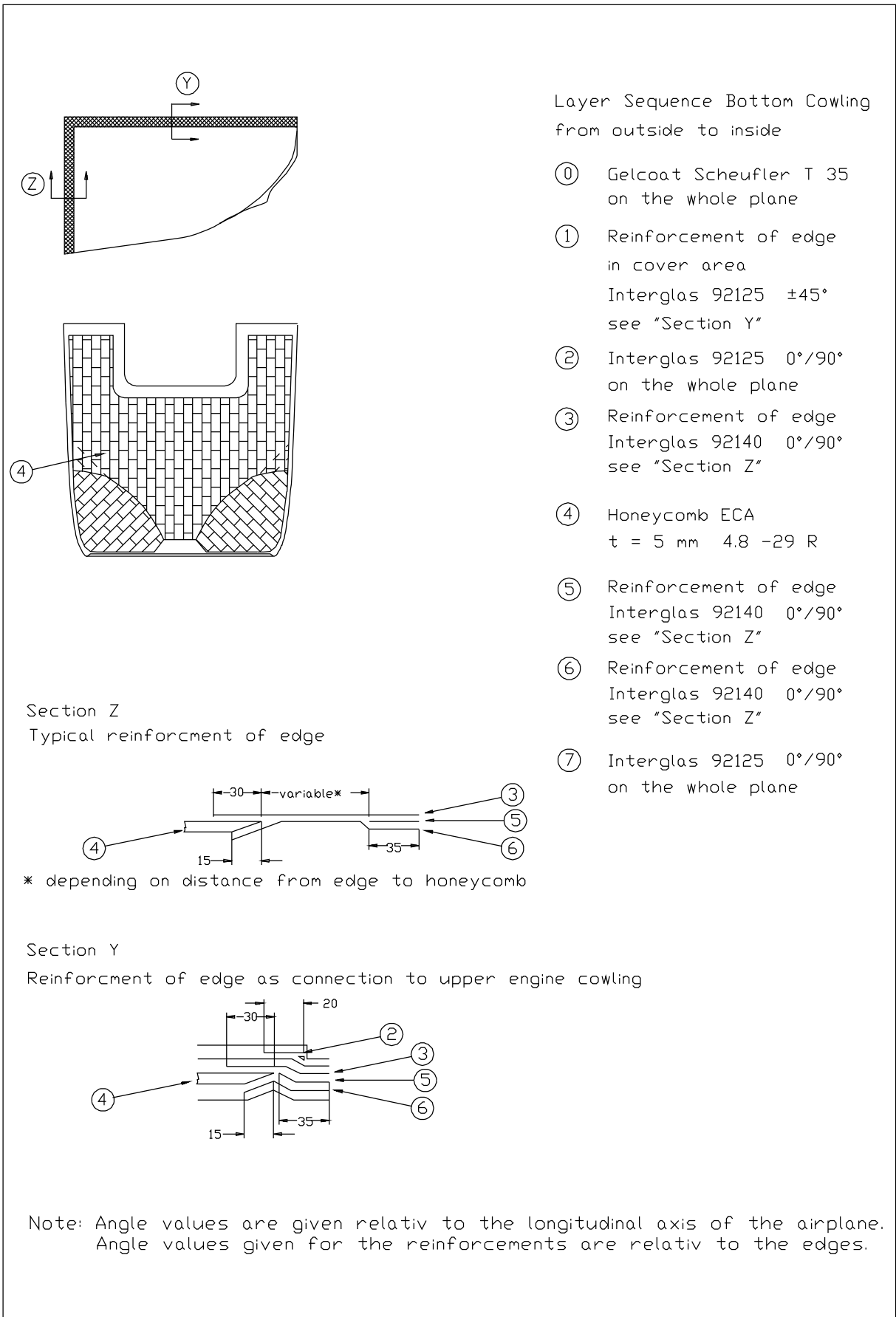
For repair of composite parts and steel components refer to Chapter 51. The repair of fabric has to be executed in accordance to the FAA AC 43.13-1A.



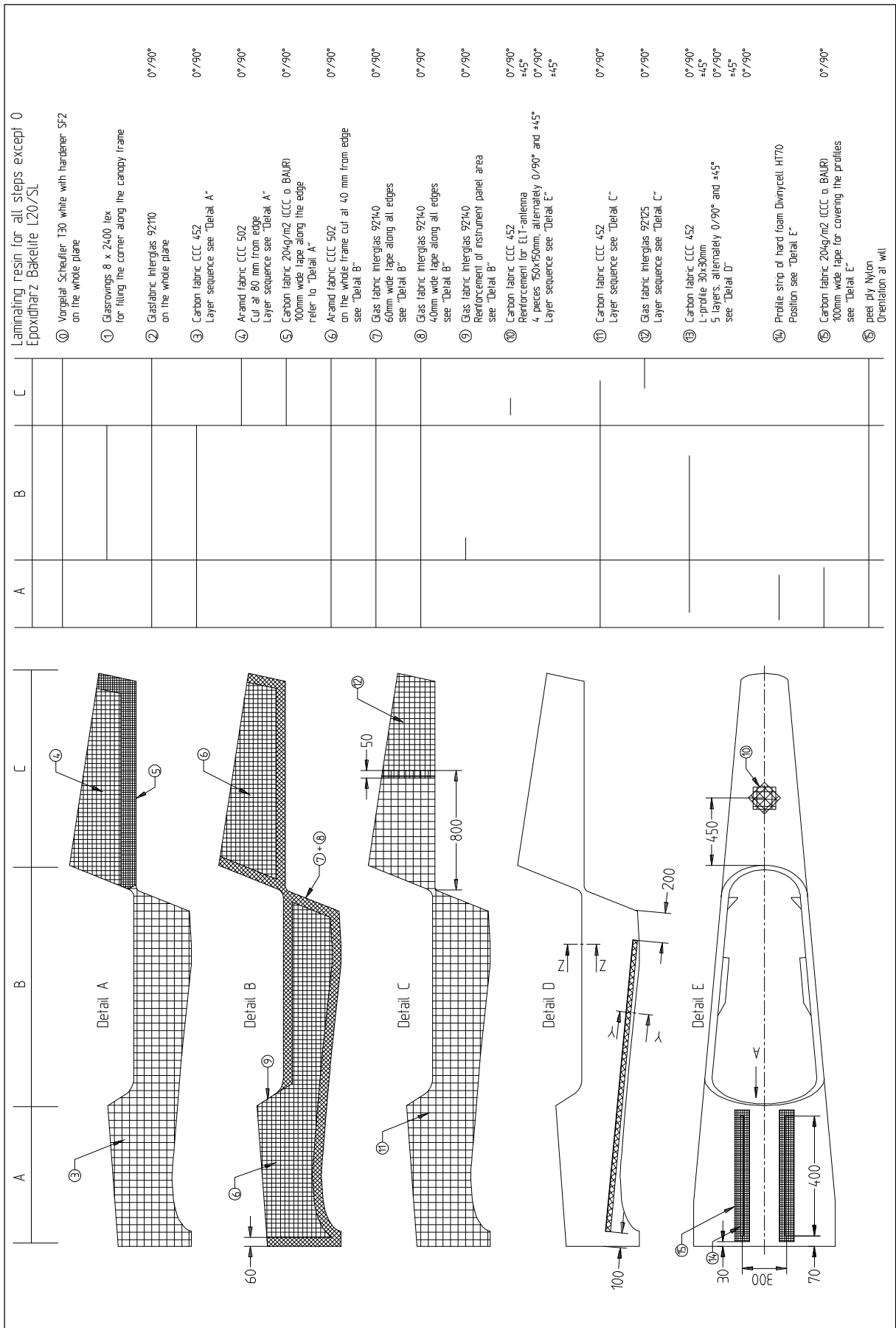
*Fuselage Steel Tube Design  
Figure 1*



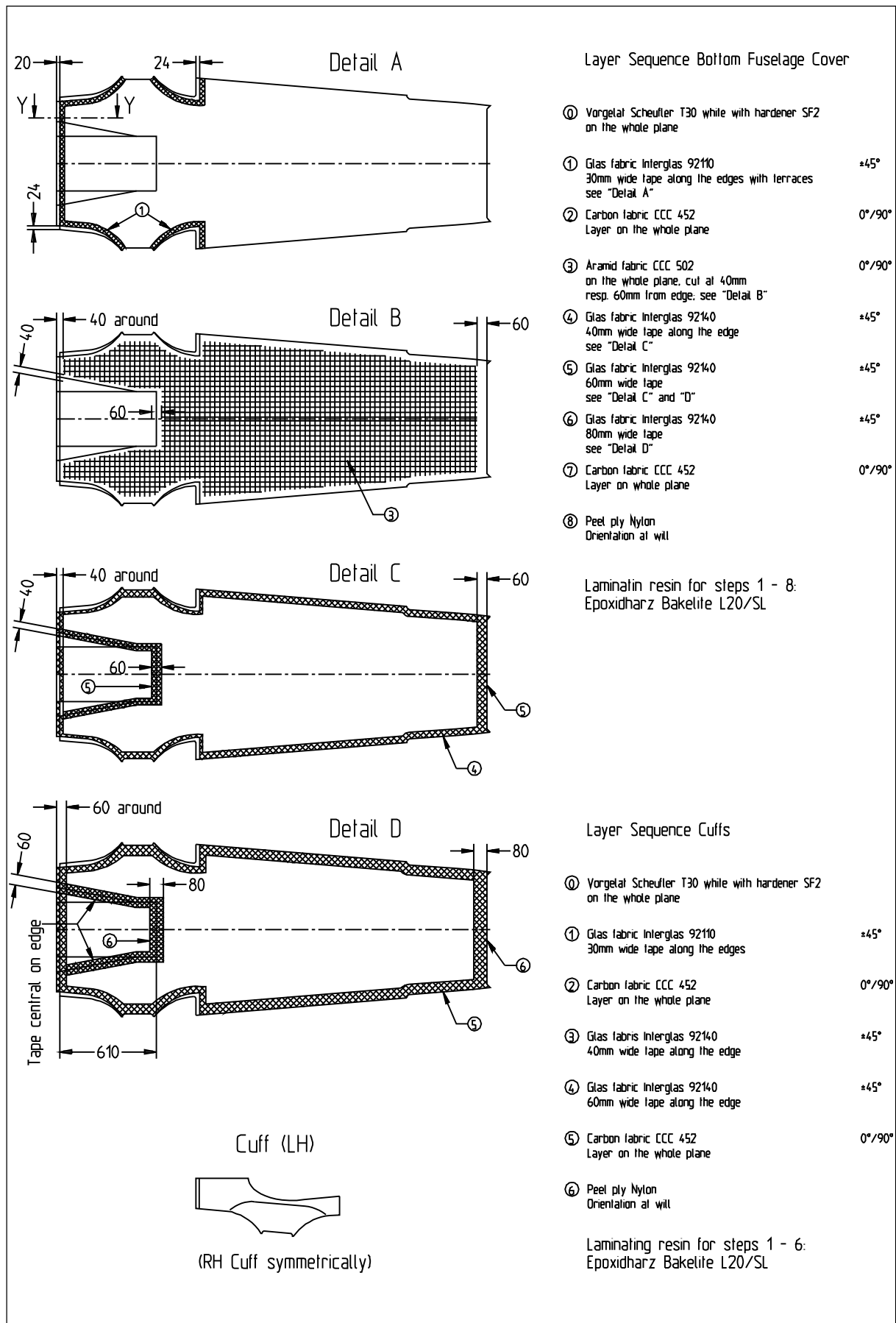
**Layer Sequence Top Half of the Engine Cowling**  
**Figure 2**



**Layer Sequence Bottom Half of the Engine Cowling**  
**Figure 3**

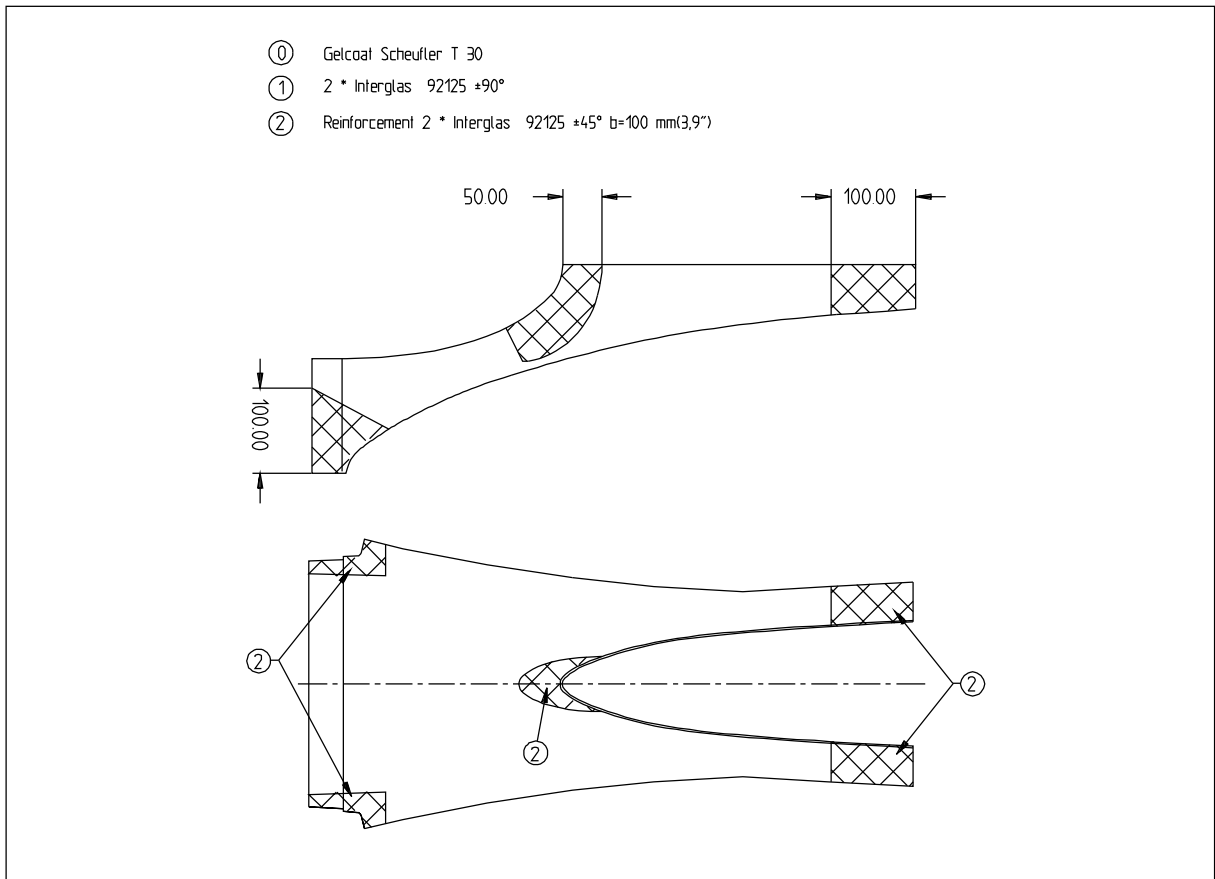


Layer Sequence Main Fuselage Cover  
Figure 4

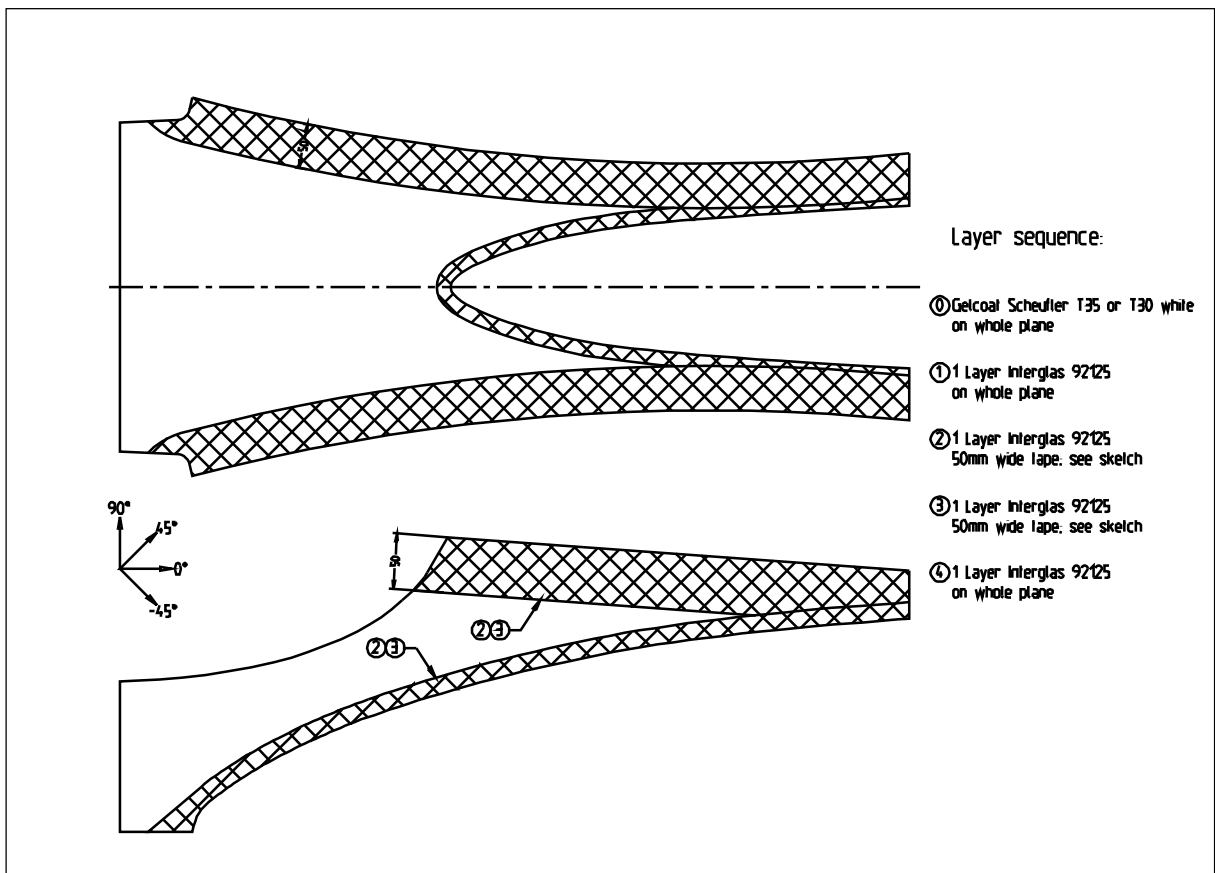


Layer Sequence Bottom Fuselage Cover and Cuffs  
 Figure 5





*Layer Sequence Tail Fairing up to Ser. No. 20  
 Figure 6, Sheet 1*



*Layer Sequence Tail Fairing from Ser. No. 21  
 Figure 6, Sheet 2*

## 53-01-00

## MAINTENANCE PRACTICES

### 53-01-01

### Canopy

#### Removal/Installation

- 1 Open canopy.

#### **CAUTION**

**Support the canopy by hand before disconnecting the opening limiter strap.**

- 2 Remove the attachment bolt of the opening limiter strap.
- 3 Push canopy to front and remove.
- 4 Install in reverse sequence of removal.