

External Views of the wing showing main wing dimensions

Projected Area
121017.52316
mm²

124,86
CHORD

162
LENGTH

1199,48
SPAN

162

Layer 2 - 1x
Carbon Twill
120g

Outer Layer -

Projected Area
121017.52316
mm2

124,86
CHORD

Layer 2 - 1x
Carbon Twill
120g

Outer Layer -
1xCarbon Biax
80g

Core - machined M80 Foam

10mm Alternate
Overlap Layers
Leading Edge

Layer 3 - 2x
Carbon Biax
100g

Full Cover Layers Shown

Diagram illustrating the cross-section of a composite wing structure, showing various carbon fiber reinforcement layers and dimensions:

- 40g Carbon Twill on tips (STBD only shown):** Reinforcement layer at the wing tip.
- 200g Carbon Biax leading edge upper and lower:** Reinforcement layer at the leading edge.
- 100g Carbon Twill IWO Joint - both sides:** Reinforcement layer at the wing root joint.
- 100g Carbon Uni Strip 20mm full span underside only:** Reinforcement strip along the underside of the wing.
- Dimensions:**
 - Wing length: 520
 - Wing thickness at the root: 20

40g Carbon Twill
on tips (STBD
only shown)

200g Carbon Biax leading
edge upper and lower

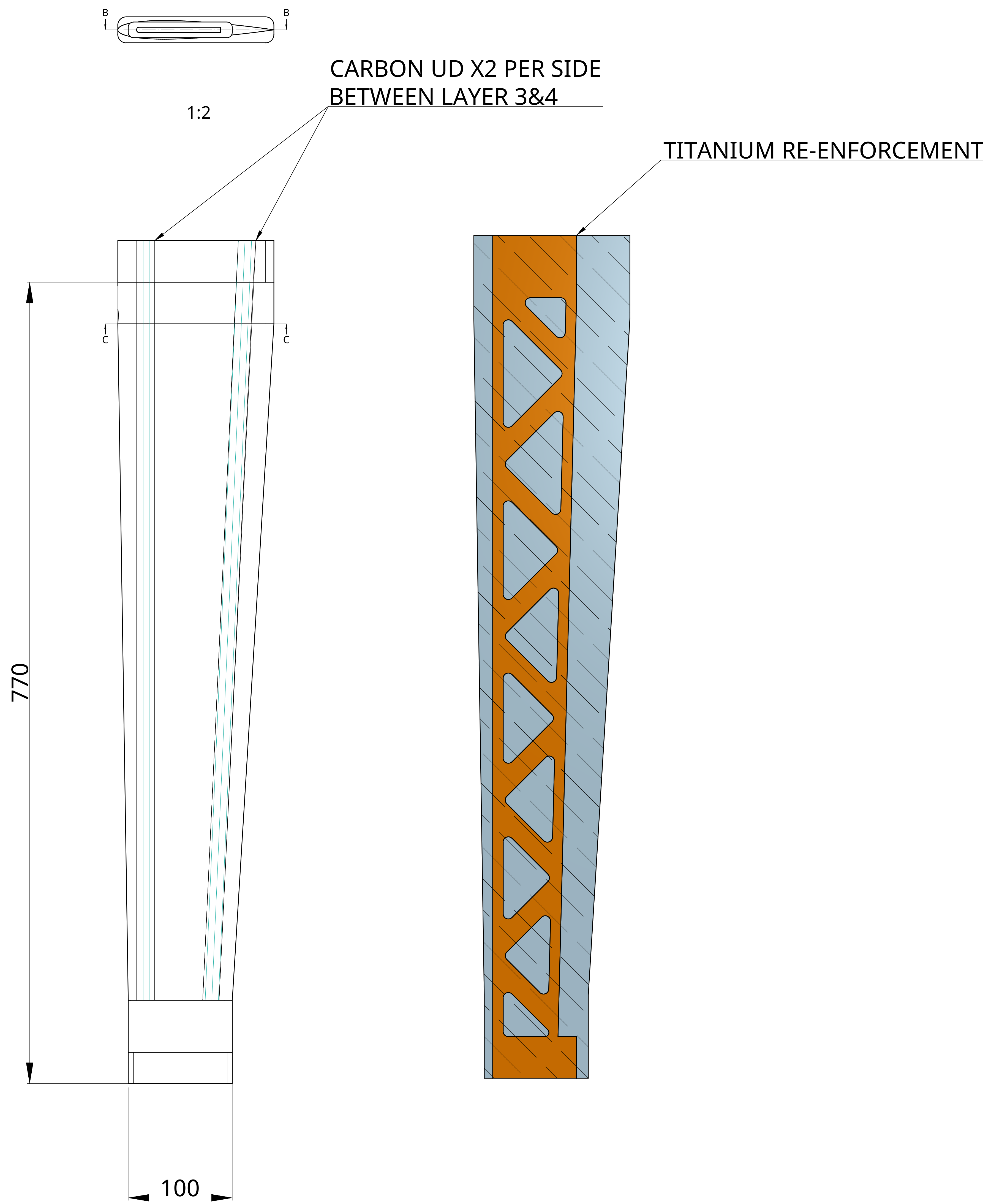
100g Carbon
Twill IWO Joint -
both sides

100g Carbon Uni
Strip 20mm full span
underside only

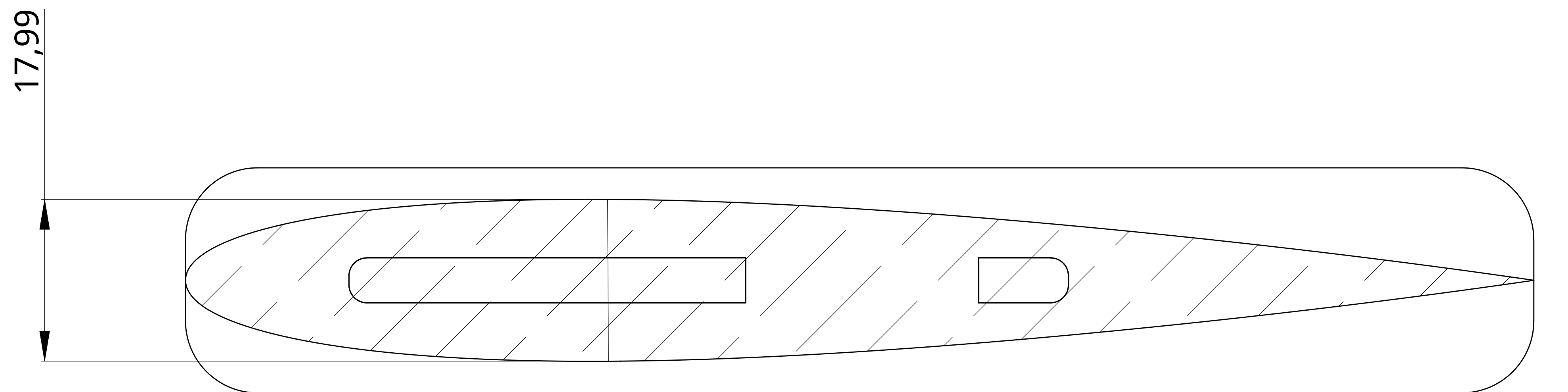
20

	NAME	SIGNATURE	DATE								
DRAWN	DEI CROCOMBARNE		2020-03-12								
CHECKED	MB		2020-03-18	TITLE FORMULA WING EXAMPLE DRAWINGS FRONT FOIL							
APPROVED											
				SIZE	DWG NO.					REV.	
				A0	FWFF-01						
				SCALE	1:2	WEIGHT			SHEET	1 of 2	

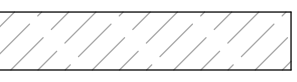
Formula Wing - Mast Example Layup File



Section View through mast showing internal metal structure as well as localised stiffenining composite layers



Section view through mast showing the main material layup

COLOUR	
	M80 FOAM CORE
	TITANIUM INSERT
	20GR BIAx ± 45°
	20GR BIAx ± 90°
	40GR WOVEN
	40 GR WOVEN