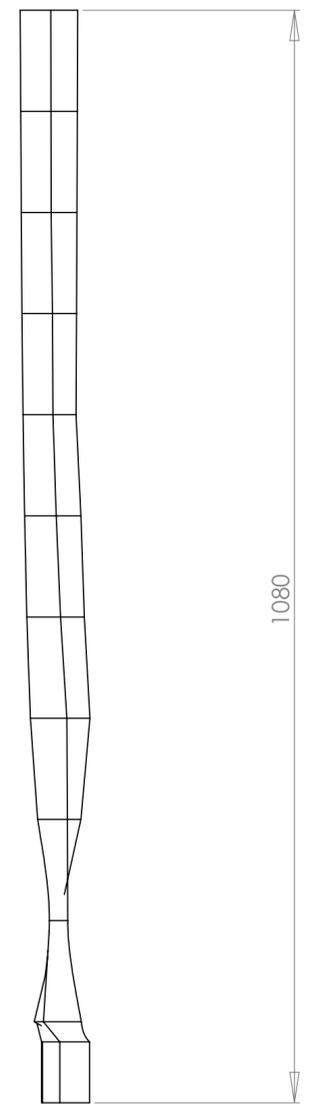


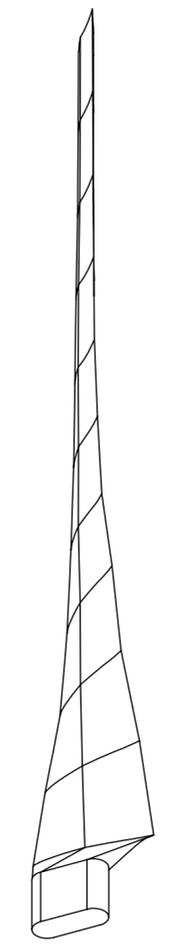
TOP VIEW



END VIEW



FRONT VIEW



THE BLADE AEROFOIL PROFILE IS BASED ON NACA 4412, CAMBERED AEROFOIL PROFILE CAPABLE OF PRODUCING LIFT AT ZERO ANGLE OF ATTACK. THE BLADE MATERIAL IS LAMINATED NEW GUINEA ROSE WOOD. THE TANNON ON THE BASE OF THE BLADE IS MACHINED TO THE DIMENSION OF THE POCKET IN THE BLADE ROOT HOLDER ( SEE BLADE ROOT HOLDER) WITH A SLIGHT CLEARANCE FIT. THE TANNON IS BONDED TO THE BLADE ROOT HOLDER USING A TWO PARK EPOXY ADHESIVE. (ARALDITE)

DESIGN PROFILE NACA 4412  
CAMBERED AEROFOIL

**PROPRIETARY AND CONFIDENTIAL**  
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UNIVERSITY OF SOUTHERN QUEENSLAN	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN J.KIRSCH 6/10/09	NAME DATE	KH3- 500 WIND TURBINE	
	INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL	CHECKED			TITLE: BLADE PROFILE
	FINISH	ENG APPR. MFG APPR.			SIZE DWG. NO. REV <b>C</b> 1
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING	SCALE: 1:5 SHEET 1 OF 1	