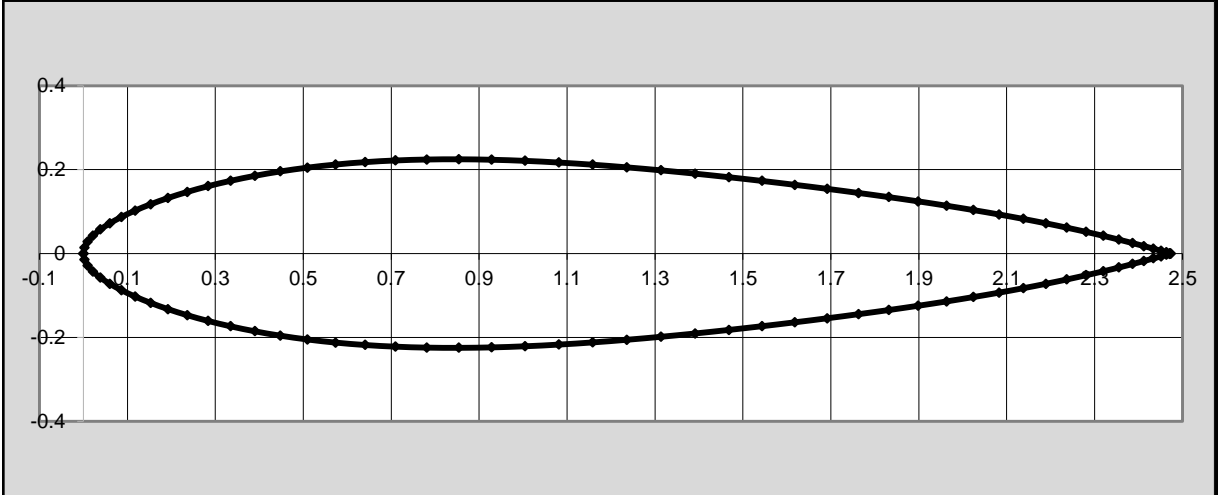


Airship Envelope Datasheet

Identifier:	SB-141-250	Date of Design:	2020-09-20
Designed by:	Windreiter Team	Date of Production:	
Organisation:	Windreiter	Place of Production:	Windreiter HQ



Material Parameter		Gertler Shape Coefficients	
Envelope Material:	TritaX Silver	Position of max. thickness:	0.34
Surface Weight [g/m²]:	30	Bow Radius:	0.5
Tension Strength [MPa]:	245	Stern Radius:	0
Bonding Technique:	Point Welding	Prismatic Coefficient:	0.55
Design Parameter		Lift Assumptions*	
Length to Diameter:	5.500	Lift at Sea Level He [g]:	141.25
Block Volume [m³]:	0.500	Lift at 300 m Helium [g]:	136.07
Block Coefficient:	0.432	Lift at Sea Level H2 [g]:	152.21
Envelope Volume [l]:	215.98	Lift at 300 m H2 [g]:	146.64
Length [m]:	2.47	*The calculations assume pure lifting gas	
Diameter [m]:	0.45		
Surface Area [m²]:	2.49		
Envelope Weight [g]:	74.74		
Number of gores	2		

Gertler 4621 Shape spreadsheet. Computes shape, volume, centre of volume, and pattern for a Series58 Model 4621 body of revolution. Copyright (C) 2019 Johannes Eissing

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