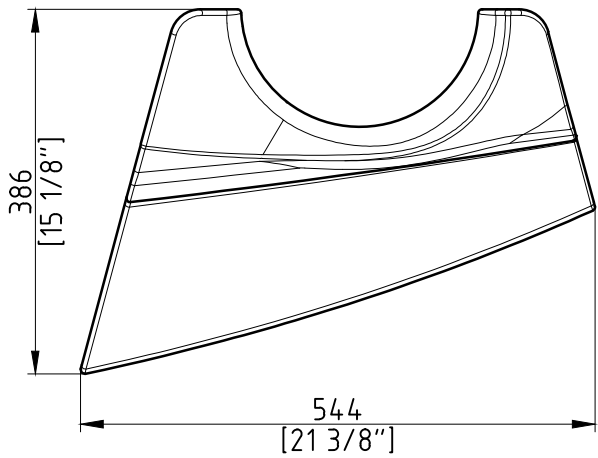
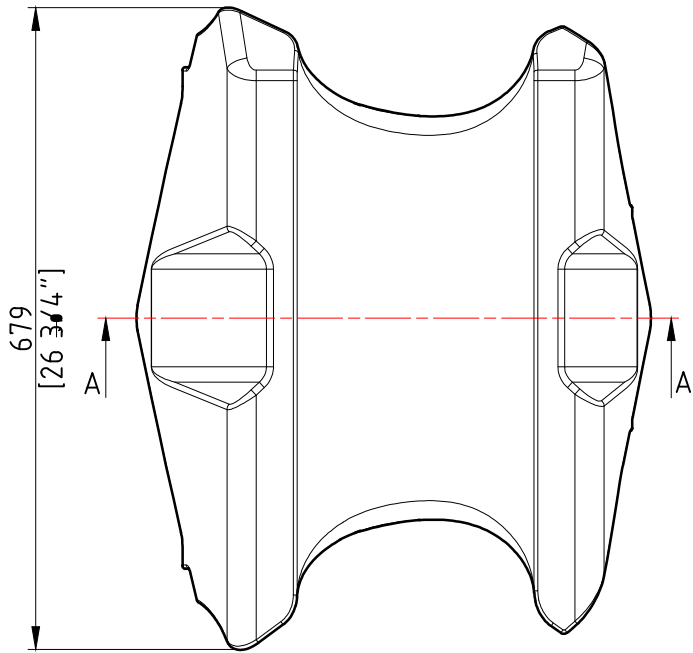


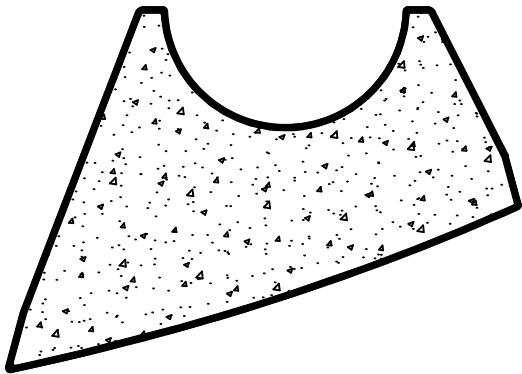
Side view



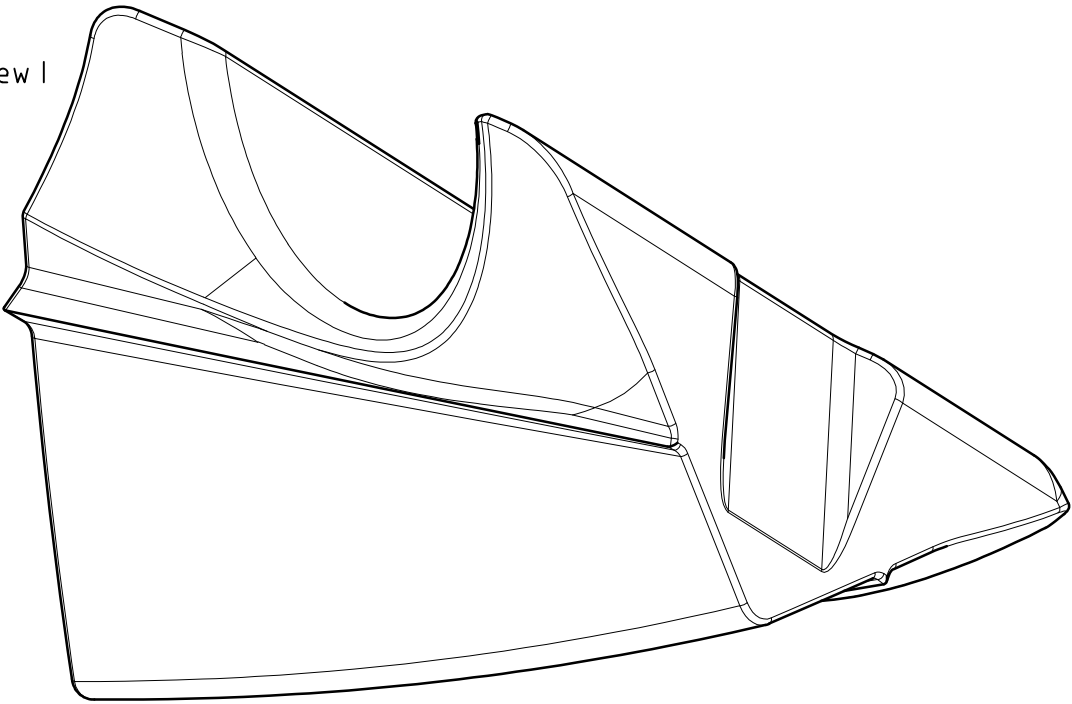
Top view



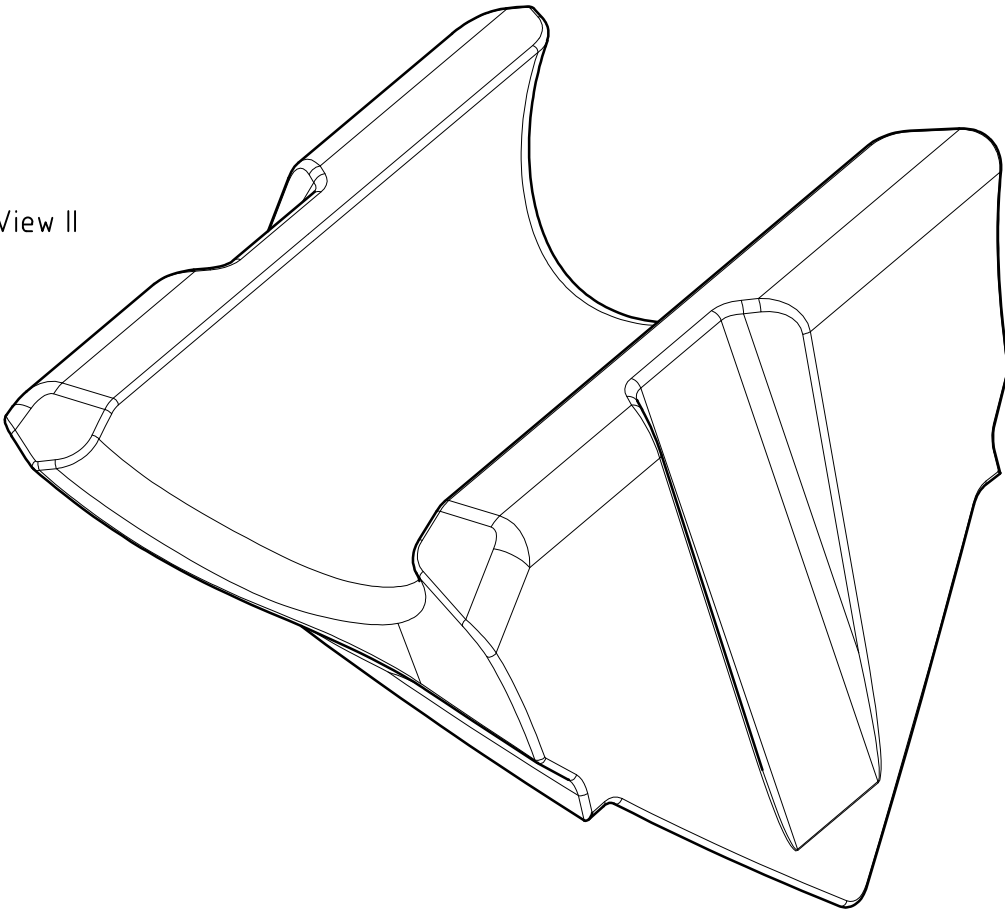
Section A-A



3D View I



3D View II



	Area		0.9 m2
	Ply	BASIC area	
EU	1	GC (type II)	
	2	M450/PP180/M450	
	3	EBX 800/300	
	4	PVC foam 125	
	5	EBX 800/300	
	6	M450/PP180/M450	
	7	GC (type II)	
USA	Total dry fibre:		9,690 g/m2
	Total with resin:		18,905 g/m2
	Thickness:		35.0 mm
	Total w/dry:		285.8 oz/yd2
USA	Total w/resin:		557.6 oz/yd2
	Thickness:		138 in

Project name:

F450 COCKPIT CABINETS

Lamination:

Vacuum bag

Simple surface

Part weight:

17.2 kg

37.9 lb

Part area:

0.9 m²

1.1 yd²

Average:

19.1 kg/m²

35.3 lb/yd²

Nominal fibre content by mass according to EN ISO 12215

J&J

DESIGN

We Create Winners.

Material:	Fibre orientation:	Resin uptake [g]	Resin uptake [lb]	Material description:
GC (type II)	SPRY application	0	0.00	GelCoat
M450/PP180/M450	Random/Foam/Random	2420	5.34	Rovicone_RTM (two layers CSM with PP flow media)
EBX 800/300	[+45/-45 deg]	1500	3.31	Double biaxial + matt
PVC foam 125	Solid	975	2.03	PVC foam
POLYESTER (resin)		0		Resin
POLYESTER (hardener)		0		Hardener

INSTALLED material:	Weight:		Area:		Marq. [%]:
	[kg]	[lb]	[m ²]	[yd ²]	
GC (type II)	1.9	4.1	1.8	2.2	0
M450/PP180/M450	2.0	4.5	1.9	2.3	5
EBX 800/300	2.1	4.6	1.9	2.3	5
PVC foam 125	2.9	6.4	0.9	1.1	0
POLYESTER (resin)	8.1	17.9			0
POLYESTER (hardener)	0.17	0.37			0
Total:	17.2 kg	37.9 lb	6.5 m2	7.8 yd2	

NEEDED material:	Weight:		Area:		Marq. [%]:
	[kg]	[lb]	[m ²]	[yd ²]	
GC (type II)	2.06	4.54	1.98	2.37	10
M450/PP180/M450	2.25	4.95	2.08	2.49	10
EBX 800/300	2.29	5.04	2.08	2.49	10
PVC foam 125	3.22	7.09	0.99	1.18	10
POLYESTER (resin)	8.9	19.7			10
POLYESTER (hardener)	0.18	0.40			10
Total:	18.9 kg	41.7 lb	7.1 m2	8.5 yd2	

- Important:**
- during the lamination process environment temperature and humidity needs to be checked and recorded with temperature and humidity logger and comply with technical data sheets from suppliers
 - resin/hardener ratio needs to be correct for ambient temperature
 - all built in materials MUST have CE or similar certification
 - before secondary bonding or lamination surface must be sanded with GRIT 60 paper
 - Core must be sealed when hole is cut in to sandwich laminate or hole must be drilled to single skin area

	Drawing name: <i>Bow thruster detail lam.</i>	Scale: 1:8	Date: 13.5.2016	Drawn by: E.Bugrova	Page: 1 / 1
	Subject: F-450				Page format: A3
File name: F450-00-00-ST-55-T00-ST-STD-3EU-A-Laminazione dettaglio elica di prua-Bow thruster detail lamination.dwg					Approved: J&J
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