

RESISTANCE PREDICTION-ROUND BILGE CATAMARAN (MOLLAND)			
Speed		20.0	Knots
Length on Waterline	Lwl	45.00	m
Breadth of Mono Hull	b	6.70	m
Draft	T	2.80	m
Block Coefficient	Cb	0.42	
Spacing Between hulls	S	20.00	m
Transverse Area above waterline	A	225	m ²
LIMIT CHECK			
	Cb	0.42	Applicable range (0.40,0.42)
	S/L	0.44	OK SC/L (0.20-0.50)
	b/T	2.393	OK (1.5,2.5)
Froude Number	Fr	0.486	OK (0.2-1.0)
Volumetric froude number per hull	$L/\nabla^{1/3}$	6.370	OK (6.3-9.5)
RESULTS			
Friction+Resuidary Resistance	Rts	665	KN
Air Resistance	Dair	8.02	KN
Total Resistance		673	KN
Effective Power		6922	KW
Waterjet Efficiency		0.544	
Delivered Power	Pd	12735	KW
Transmission Efficiency		0.95	
Service Power		13405	KW
Installed power with 15% Sea Margin		15416	KW