



# Windflex 27 Quad IPS



## 24 Passenger Crew Transfer Vessel

### Key Specifications:

27m length, 9m beam, 1.4m draft - BV Classed - UK Flag - GT/NT 107

85m<sup>2</sup> foredeck / 35m<sup>2</sup> aftdeck - 20 MT cargo capacity

Container fixing for 3x10ft / 1x20ft

Palfinger Crane

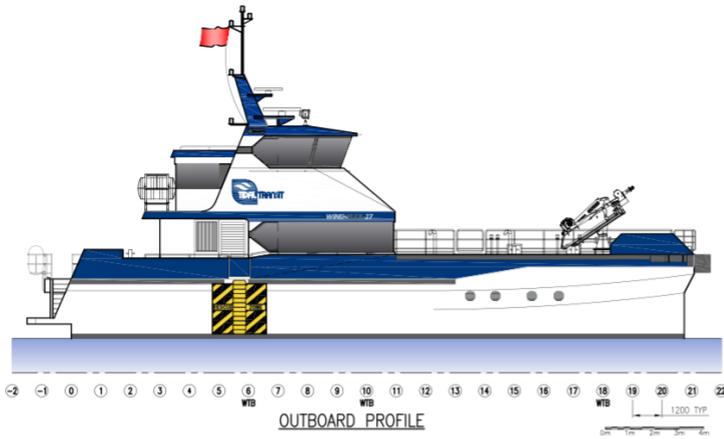
Quad Volvo D13 & IPS900 providing enhanced manoeuvrability, fuel efficiency and quad redundancy

Active impact adsorption combined with Buoyant Works bow fendering

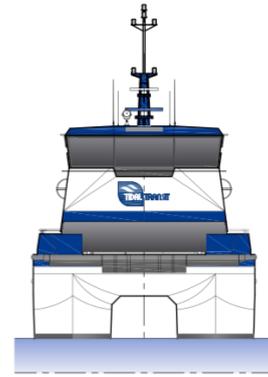
Max Speed of 27kn and 17 tons of bollard push

Marfle VMMS and remote monitoring

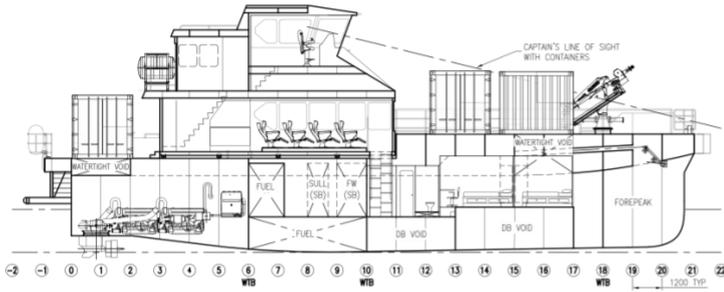
Optional Ecomotus Catalytic Hydrogen system for tier III emissions equivalence and fuel savings



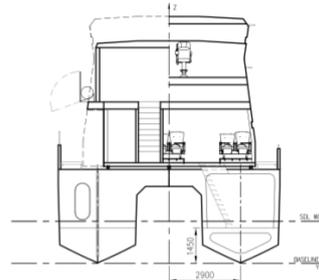
OUTBOARD PROFILE



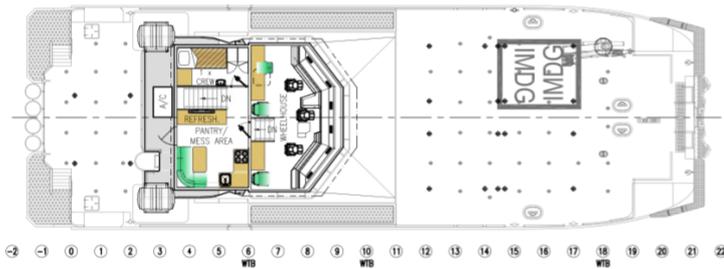
BOW VIEW



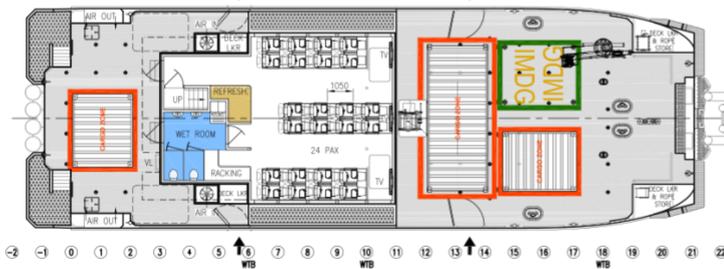
INTERNAL PROFILE



TYPICAL SECTION



UPPER DECK



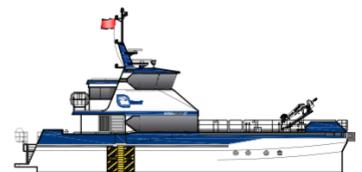
MAIN DECK



HULL PLAN

**SPECIFICATIONS**

OVERALL LENGTH (EXCL APPENDAGES):	27.1m
WATERLINE LENGTH:	24.9m
LOAD LINE LENGTH:	23.9m
BEAM (NOT INCLUDING SPONSONS):	9.0m
DRAFT (HULL):	1.4m
PERSONNEL:	24
CREW:	5
CONSTRUCTION:	ALUMINIUM
HULL:	ALUMINIUM
SUPERSTRUCTURE:	ALUMINIUM
FUEL OIL:	2 x 13,000 l
FRESH WATER:	2 x 4,750 l
SULLAGE:	1 x 3,500 l
MAX DEADWEIGHT:	1 x 2,500 l
	50t
GENSETS:	2 x CUMMINS ONAN 40MDDCF
MAIN ENGINES:	4 x VOLVO PENTA D13
RATED POWER:	4 x 515kW @ 2250 RPM
PROPULSION:	4 x PENTA IPS900



PROJECT TITLE  
27M CATAMARAN WINDFLEX 27

DOCUMENT TITLE  
GENERAL ARRANGEMENT - TIDAL TRANSIT # 2

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IC22086

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SHEET  
1 OF 1

SCALE  
1:75 (U.N.O.)

FILE REV  
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DIMENSIONS IN MILLIMETRES (UNLESS NOTED)

DO NOT SCALE

A	FORMAL ISSUE	DNM	ED	23.JUL.24
REV.	REVISION DESCRIPTION	PREP.	CHECK	REV. DATE

Vessel Name		Imogen Rose	
Owner	Tidal Transit Ltd	<b>Deck &amp; Equipment</b>	
Operator	Tidal Transit Ltd	Cargo Capacity (t)	20
Callsign	MRIE5	Cargo Capacity Fore (t)	15
MMSI Number	232058321	Cargo Capacity Aft (t)	5
Registration Number	199081	Specific Deck Load (t/m2)	2
Construction Country	Indonesia	Crane Specification	Palfinger PK13001MB
Shipyard	Penguin Shipyard Asia PTE LTD	Crane Location	Port Foredeck
<b>Main Particulars</b>		Crane Radius (m)	10
Flag	UK	Crane Reach Over Ship Side (m)	9
Hull Type	CAT	Free Deck Space Aft (m2)	35
Hull Material	Aluminium	Free Deck Space Fwd (m2)	85
Classification	Bureau Veritas I † Hull • Mach Wind Farm Service Ship - M0 - Sea Area 3	Fuel Transfer Pump	yes
Number of Crew	Min 3	Fuel Transfer Capacity (l/h)	40
Number of PAX	24	Fuel Transfer Height (m)	40
LOA (m)	27.1	HP Washer	Yes
Beam (m)	9	HP Washer Hose Length (m)	39
Design Draft (m)	1.4	Oily Bilge Discharge Connection	No - Manual
Max. Draft (m)	1.65	Sewage Discharge Connection	Yes
Min. Water Depth for Operation (m)	1.8	Container Position	Yes
Bow Height (m)	3.5	Container Pos. 10'	3
Freeboard height at gangway (m)	2.5	Container Pos. 20'	1
Lightship Displacement (t)	93	<b>Safety Equipment</b>	
Max Deadweight Displacement (t)	50/60	Liferafts Position	Above side deck
Fresh Water Capacity (l)	3500	Liferafts Persons accomodated	2x35
Fuel Capacity (l)	35500	Immersion suits no.	4+passengers own
Gross Tonnage	106.67	Thermal protective aids no.	30
<b>Operational Particulars</b>		Life jackets no.	30
Bollard Push (t)	17	Man Over Board Equipment	SB Rescue Sling
Service Speed (kn)	25	Search Lights no.	1
Service Speed at 1.5Hs (kn)	22	Search Lights remote	0
Max Speed (kn)	26.5	Search Lights portable	0
Max Speed at 1.5Hs (kn)	24	Defibrillator	1
Max. Significant Wave Height for Operation (m)	2	<b>Navigation &amp; Comms</b>	
Hs Performance 360 deg (m)	1.75	Crewfinder system corresponding to PLBs used on site	Sea Marshall
<b>Machinery</b>		GPS	Simrad P3007
Engine type and manufacturer	Volvo Penta D13 (tier II)	Communication system between helmsman and deck crew	Yes
Number of engines	4	Radar Reflector	Yes
Total Installed Power (kW)	2060	AIS class A	Simrad V5035
Fuel Consumption at 20kn (l/h)	309 (before Ecomotus)	Rudder Angle Indicator	n/a
Fuel Consumption at max speed (l/h)	544 (before Ecomotus)	Radar with plotting function	Simrad R5024 12U / 6 HSC
Fuel Consumption at service speed (l/h)	442 (before Ecomotus)	Echo sounding device	Simrad S3009
Gearbox Manufacturer	Volvo	Gyro or satellite compass	Simrad P3007 w HS80A
Propulsion Type	IPS	GMDSS radio equipment	Sea Area A2
Propulsion Description	IPS 30	Handheld VHF for deck personnel	Sailor
Bow Thruster (nos.)	n/a	Emergency Position Indicating Radio Beacon (EPIRB)	McMurdo R5
Bow Thruster Power (kW/pcs.)	n/a	Search and Rescue Transponder (SART)	McMurdo E8
<b>Accomodation</b>		<b>Firefighting Appliances</b>	
Mess / Pantry	Yes	Approved FIFI Systems in ER	Yes
Toilet	2	Portable Extinguishers	Yes
Shower	0	Fire Pumps	Yes
Wet changing room	Yes	Fire Hoses	Yes
HVAC	Yes	<b>Additional Features</b>	
Noise in Pass Area (dB)	<70	CCTV monitoring and recording of ops.	Yes
Noise in Wheelhouse (dB)	<65	Vessel Motion Monitoring System	Marfle
Seating No.	24		
Seating Type	Business Class		



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