


Royal Caribbean INTERNATIONAL

RADIANCE OF THE SEAS[®]

PILOT CARD



Call sign: C6SE7
 IMO Number: 9195195
 Official Number: 8000404
 DNV Register No: 21562

Ship's Particulars:
 L.O.A: 293.2m. /961.7ft
 BEAM: 32.2m. /105.6 ft
 GT: 90,090 t

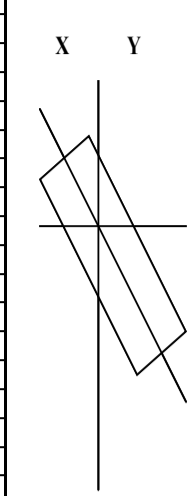
Max Pax: 2702
 No Crew: 858
 Max LSA: 3560
 Rescue vessels: 18 LB X 2 RB
 MES: 2 X 10 LR

Port of Register
Nassau, Bahamas

Ship's Particulars	
Call Sign:	C6SE7
Year Built:	March, 2001
IMO Number:	9195195
MMSI Number:	311319000
Flag:	Nassau, Bahamas
Operator:	Royal Caribbean International
Class:	DNV 1A1, Passenger Ship
Gross Tonnage:	90,090 ton
Net Tonnage:	56,328 ton
Deadweight (design draft):	10,759 ton
Displacement:	49,219 ton
Draft Max:	8.6 m / 28'2"
Draft Min:	8.3 m / 27'3"
Length Overall:	293.2 m /961.7ft
Length P/P:	265.5 m 870.8 ft
Moulded Breadth on WL:	32.2 m. /105.6 ft
Ext. Breadth (BW)	40.0 m / 131.2 ft
Max Air Draft	52.8 m / 173.2 ft
Block Coefficient:	0.6699
Summer freeboard	1407 mm (DK 2 is freeboard deck)
Height (WL-Bridge)	26 m / 85.3 ft
Bridge to Bow:	50 m / 164 ft
Bridge to Stern:	244 m / 800.5 ft
Anchors:	2*12 MT (Shackles 14 PORT/ 13 STBD)
Mooring lines:	FWD: 80mm X 180 m / 1125 kN AFT: 44mm X 200 m / 1465 kN
Bollard SWL (t)	35 t (350 kN)
Mooring Winches	200 kN double drum (10)
Helicopter Landing Area	Width=11m / 36ft Length=8m Landing Weight= 5 t

Machinery Characteristic	
PROPULSION: Two 360-degree steerable Azipod units. Propellers are 5.5m (18ft) in diameter with 5 blades each.	
Max Azipod Angle:	35° (Cruise Mode)
Max Azipod Angle:	360° (Maneuvering Mode)
Bow Thrusters:	3 x 2400 kW / 3 x 3217 hp
Type of Engines:	
Main engines:	2 GT- 2 X 25 MW (33,526 hp) 1 ST- 8.0 MW (10,728 hp) 1 DG- 11.6 MW (15,776 hp)
Total power:	69,600 kW / 94,656 hp
Total propulsion power:	40,000 kW / 54400
Propulsion machinery:	Two 20 MW, ABB Azipod
Max Speed for Thrusters:	6 kts
Max Speed:	24 knots
Service Speed:	22 knots
Maneuvering Power:	2x 10.0 MW
Min Steering Speed:	2 kts
Stabilizers:	Extended 7.2m (23.6ft) at midships & 5.2m (15.8ft) under WL. Manual Heel Compensation to a 3°
Frontal Wind Area:	1,075 sq.m. / 11,571 sq. ft
Lateral Wind Area:	9,248 sq.m. / 99,544 sq. ft
Heeling Pumps	No.1 - 400 cu.m / h No.2 - 400 cu.m / h
Bridge Equipment	
Radars X-band	Sperry Marine (main mast 2 + stern)
Radars S-band	Sperry Marine (main mast 1 + bow)
Navigation System	Sperry Marine VMFT
VHF	SAILOR
Dynamic Positioning	MARINE TECHNOLOGIES DP


Maneuvering Power			
Thrusters	kW	Turn rate at 0 speed	
Bow Thruster	3 x 2400	26° / min	
2 Azipods	2 x 10 000	-	
All Units	-	64 ° / min	
Maneuvering Speeds	Lever Pos.	RPM	Speed
	1	14	2
	2	28	4.6
	3	41	7.1
	4	55	9.8
	5	69	12.5
	6	83	15.0
	7	97	17.3
	8	110	19.8
	9	124	22.3
10	138	24.6	
Steering Particulars			
Mode	Power	Azipod angle	
Cruising	0 - 20 MW	0 - 35 °	
Maneuvering	0 - 10 MW	Unlimited	
Turning rate of the Azipods:			
With ONE power unit		2.5 ° / s	
With TWO power units		5.0 ° / s	
FAST MODE		7.5 ° / s	
Time and Distance to stop			
Speed (kts.)	Astern Shaft Power	Numbers of Generator	Time min
23	2 x 10 MW	3	5.31
			Distance 1,146 nm
			2122 m

Draught Increase (Loaded)				
Estimated Squat Effect (120 m. channel)			Heel Effect	
UKC	Speed (kts.)	Max. Squat Estimated (m.)	Heel (°)	Draft (m)
	4	0.11	1	0.28
	6	0.24	2	0.56
	8	0.43	3	0.84
	10	0.67	4	1.13
	12	0.96	5	1.41
	14	1.31	6	1.69
Swept Path (m)				
Leeway Angle	Bow (X)	Stern (Y)	Swept Path	
0	16.10	16.10	32.20	
1	17.00	20.40	37.40	
2	17.80	24.40	42.50	
3	18.70	29.00	47.60	
4	19.50	33.20	52.80	
5	20.40	37.50	57.90	
6	21.10	42.70	63.00	
7	22.10	46.00	69.00	
8	22.90	50.00	73.10	
9	23.70	54.40	78.10	
10	24.50	58.60	83.10	
11	25.30	62.70	88.10	
12	26.10	66.90	93.00	
13	26.90	71.00	98.00	
14	27.70	75.10	102.90	
15	28.50	79.20	107.70	
20	32.20	99.30	131.50	
25	35.70	118.60	145.30	
30	38.90	136.90	175.90	
Swept Path Graphic				
				

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Swept Path Graphic				
