

Completing ATS-flightplan

Our flight operations are conducted under controlled airspace so we have to complete ATS-flightplan form. You found this VATSIM flightplan from: [VATSIM Flightplan](#) We need to know following things from our aircraft:

- Equipments. How our aircraft is equipped
- What is our transponder type
- PBN capability
- How much we have fuel
- What is our Wake Turbulence Category
- ICAO aircraft typecode
- SelCal Code(If applicable)
- ADSB Hexcode(If applicable)
- Aircraft Registration
- RVR limit (If applicable for operation)
- Performance code

Our Diamond DA40NG aircraft basic information:

- ICAO type: DA40
- WTC: Light
- Crew: one
- Passengers: three seats
- Length: 8.1 m
- Wingspan: 11.9 m
- Height: 1.98 m
- Empty weight: 795 kg
- Gross weight: 1310 kg
- Powerplant: Lycoming IO-360-M1A 4-cylinder air-cooled horizontally-opposed piston engine, 180 hp
- Fuel tank capacity: 2x 20.6 USG
- Endurance with full tanks, 60% cruise setting 6 hours, plus 1h reserve
- Equipment codes: SDBGY

- Transponder: S
- Navigation Capacity: SBAS
- PBN codes: A1B2C2D2L1S1S2

Performance

- Cruise speed: 124Kt TAS at 16000ft with 60% power.
- Stall speed: 58 Kt (flaps landing configuration)
- Range: 934 NM
- Service ceiling: 16 000ft
- Rate of climb: 651 ft/min
- Fuel consumption at 60% power: 5.1 USG/h
- Max demonstrated XC: 25 kts
- Approach speed in landing configuration: 66-77kts (Performance category A)

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