

SINGAPORE (Changi) (SIN/WSSS)

Elevation 22ft

CATEGORY A

AV brief – not required

GENERAL
Threats
ARRIVAL
B747 B777 B787
Diversion Airports

KUALA LUMPUR	KUL/WMCK	238 nm/301°T	CAT A
PENANG	PEN/WMCK	350 nm/317°T	CAT B
JAKARTA	CGK/WIII	550 nm/160°T	CAT A
BANGKOK	BKK/VTBS	842 nm/345°T	CAT A
JOHOR BAHRU(Senai Intl)	JHB/WMKJ	26 nm/311°T	CAT A

Paya Lebar (QPG/WSAP) is a military airbase and is not suitable for commercial operations. There is no ground handling and no customs & immigration facilities. Permission to land would only be granted if it is an absolute emergency.

Ground handling equipment would have to be moved from SIN if an aircraft was to divert to Paya Lebar.

A380
Diversion Airports

KUALA LUMPUR	KUL/WMCK	238 nm/301°T	CAT A
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ALL

Approach

- Lengthy vectoring is not uncommon during peak periods.
- Expect an ARAMA1A arrival for flights from London Heathrow.
- Review approach speed requirements in the AOI pages as early selection of Flap and landing gear may be required.
 - 180 kts by 8NM to touchdown,
 - Thereafter, 150 kts till 4NM to touchdown.
- ATC expect arriving aircraft to vacate the runway at the first available taxiway so as to minimise runway occupancy times. Lido AOI 5 refers.
 - 20R exits W6, W7.
 - 20C exits T7, T8, D8, D9.
 - 20L exits A7, A8.
 - 02L exits W5, W4.
 - 02C exits T6, T5, D7, D6.
 - 02R exits A6, A5.

GROUND

- Airport is set up for code F aircraft operations.
- Parking is normally along the C pier of T1 and may be any of the stands C1, C20, C22-25.

A380

- SIN is set up for code F A380 operations and apart from a few taxiways with restricted wingspan (see Lido AOI pages) it presents very few problems with ground movements.
- Essentially A380 can go anywhere unless mentioned in the LIDO AOI pages.
- The table below shows historical data for the percentage of flights when the time between vacating the runway and parking the aircraft was greater than 7 minutes. An opportunity therefore existed to shut down engines 1 & 4 (or 2 & 3).

Considerations:

1. Whilst taxiing, lookout and monitoring are of prime importance. The risk of GCOL must always be addressed;
2. The time period of 7 minutes assumes a 5 minute engine cool-down period and also allows a buffer of 2 minutes to park the aircraft.

Note: Shutting engines down whilst parking the aircraft could cause unnecessary distraction and is inadvisable;

3. Ground testing has shown that there is no perceptible difference in manoeuvrability dependent on whether engines 2 & 3 or 1 & 4 are shut down.

Landing Runway	% Flights with Taxi-in time >7 Min
02C	10%
02L	45%
20C	89%
20R	70%

Parking

- Rwy 02L exit W4 works well for parking on stand C23 – Watch for engine cooling before shutdown.
- Jetties will be connected in the following order – M1L – U2L – M2L.
- Back up A380 stands are D46/D49. Stands C25/C26 are also available now A380 stand modification has been completed.
- Ground conditioning air is available but the aircraft may be towed off stand after disembarkation is complete so make sure blinds are closed.

ALL

DEPARTURE

- When departing to LHR expect AROSO 1A SID from Rwy 02C.
- If the SID vertical profile cannot be achieved, inform ATC prior to departure and expect radar vectoring, if necessary.

A380

- Crews have been advised to use APU to packs for TKOF (from SIN) to mitigate against fume events EX SIN. Send aircraft with U/S APUs on A380s with caution.

ALL

WEATHER

- Heavy rain during Cb activity rarely gives a cloudbase of less than 500ft or visibility less than 1000m.

SW Monsoon (Jun to Sep)

- Cbs ('Sumatras') frequently build over the Malacca Strait during darkness.
- This leads to heavy rain over Malaysia and Singapore during the early hours of the morning.
- Wind gusts of 35kts can occur.

NE Monsoon (Dec to Apr)

- Cb build up over Singapore occurs during the afternoon and evening.
- Early morning fog or mist occurs on 2-3 days per month from Jan to May.

OPERATIONAL INFORMATION

Handling Agent	Singapore Air Terminal Services (SATS)
Handling Agent VHF	Speedbird Singapore 131.225
Potable Water	Uplift Permitted

IF ONLY Electrical Power is required	Use ground power at all times
If BOTH electrical power and air conditioning is required:	A380 ONLY use at all times, other types use APU