REFERENCE ITEMS

No.	CONTENTS	REF
1	PRE-FLIGHT SECURITY SEARCH	POM 5
2	COLD TEMPERATURE CORRECTIONS	FOM 4
3	RUNWAY CONDITION ASSESSMENT MATRIX	POM 9
4	RUNWAY CONDITION & TAKEOFF PERFORMANCE TABLE	POM 9
5	WIND COMPONENT AND LIMITATION	POM 4
6	ILS AIRBORNE REQUIRED EQUIPMENT	POM 5
7	RNAV (RNP) AIRBORNE REQUIRED EQUIPMENT	
8	METER/FEET CONVERSION TABLE	

REVISION LOG

Revision No.	Revision Date
0	14 APR 2025
1	14 JAN 2026
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LIST OF EFFECTIVE PAGE

Page	Effective Date
0.2	16 MAR 2026
1	01 AUG 2025
2	01 AUG 2025
3	01 AUG 2025
4	01 AUG 2025
5	01 AUG 2025

Page	Effective Date
6	14 JAN 2026
7	16 MAR 2026
8	01 AUG 2025

PRE-FLIGHT SECURITY SEARCH

This security procedure will be performed for security when entering the cockpit before Exterior Inspection and Cockpit preparation.

Search for any suspicious item in the following area :

- Visual inspection and/or physical search (open stowage or pouches and remove items for visual inspection if necessary)
- If any suspicious item is found, report to the PIC immediately, and report to company, if necessary.

SECURITY SEARCH ITEMS	
Flight Crew Rest Bunk adjacent to the cockpit	Maintenance Manual Stowage
Floor	Manual Stowage
Ceiling	Seat Backside Pockets (Life Vest Stowage)
Aft Flight Deck Wall	Upper/Under Side Area Of The Pilot Seat
Coat Room	QRH Stowage
Suitcase Stowage	Map Stowage
Overhead Stowage	Side Display Stowage
Spare Bulb Box	Under the Glareshield Panel
Escape Ropes Compartment	Oxygen Mask Stowage
Manual Stowage Behind The F/O Seat	Area Around Rudder/Brake Pedals
Observer Seat Manual Stowage	
~~ADDITIONAL CHECK ITEMS FOR FREIGHTER~~	
~~Seat Cushions and underside of seats~~	~~Rubbish bins~~
~~Bed Blankets and underside of seats~~	~~Inside of Ovens/Refrigerators~~
~~Area under sink~~	~~Storage compartment and pockets~~

COLD TEMPERATURE CORRECTIONS

Values to be added by pilot to minimum promulgated heights/altitudes (feet)

Airport Temp°C	Height above the elevation of the altimeter setting reference (feet)													
	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000
0°	20	20	30	30	40	40	50	50	60	90	120	170	230	280
-10°	20	30	40	50	60	70	80	90	100	150	200	290	390	490
-20°	30	50	60	70	90	100	120	130	140	210	280	420	570	710
-30°	40	60	80	100	120	140	150	170	190	280	380	570	760	950
-40°	50	80	100	120	150	170	190	220	240	360	480	720	970	1210
-50°	60	90	120	150	180	210	240	270	300	450	590	890	1190	1500

Values to be added by pilot to minimum promulgated heights/altitudes (meter)

Airport Temp °C	Height above the elevation of the altimeter setting reference (meter)													
	60	90	120	150	180	210	240	270	300	450	600	900	1200	1500
0°	5	5	10	10	10	15	15	15	20	25	35	50	70	85
-10°	10	10	15	15	20	25	25	30	30	45	60	90	120	150
-20°	10	15	20	25	25	30	35	40	45	65	85	130	170	215
-30°	15	20	25	30	35	40	45	55	60	85	115	170	230	285
-40°	15	25	30	40	45	50	60	65	75	110	145	220	290	365
-50°	20	30	40	45	55	65	75	80	90	135	180	270	360	450

Note: *(1) The corrections have been rounded up to the next 5m or 10feet increment.*

(2) Temperature values from the reporting station (normally the aerodrome) nearest to the position of the aircraft should be used.

For detailed information, refer to FOM 4.4.2.2

RUNWAY CONDITION ASSESSMENT MATRIX

Rwy CC[1)]	Runway Condition Description	Braking Action	Mu(μ)[2)]	RCR[3)]	Related Landing Performance
6	• Dry	-	-	-	Dry
5	• - RA, • RA(Grooved or PFC Runway)[4)] • Frost • Wet (Includes damp and 3 mm (1/8 inch) depth or less of water) *3mm (1/8 inch) depth or less of:* • Slush • Dry Snow • Wet Snow	**Good**	0.4 Or higher	At or Above 13	Good
4	*-15ºC and Colder outside air temperature:* • Compacted Snow	**Good to Medium**	0.39 ~ 0.36	12	Good to Medium
3	• RA (Smooth Runway)[5)] • Slippery Wet • Dry snow or wet snow (any depth) over compacted snow *Warmer than -15ºC outside air temperature:* • Compacted Snow *Greater than 3mm (1/8 inch) depth of:* • Dry Snow	**Medium**	0.35 ~ 0.30	11 ~ 10	Medium

	• Wet Snow				
2	• Heavy Rain *Greater than 3mm (1/8 inch) depth of:* • Water • Slush	**Medium to Poor**	0.29 ~ 0.26	9 ~ 8	Medium to Poor
1	• Ice	**Poor**	0.25 ~ 0.21	7	Poor
0	• Wet Ice • Water on Top of Compacted Snow • Dry Snow or Wet Snow over Ice	**Less than Poor**	0.20 Or lower	At or Below 6	-

[1] RwyCC : Runway Condition Code

[2] Mu : Mu is runway friction coefficient measured by a ground friction device. Normative is used at some Russian airport and flight crews should refer to Table in K-page.

[3] RCR: Runway Condition Report (Runway Friction Coefficient X 32)

[4] Grooved or PFC Runway: A paved runway that has been prepared with lateral grooving or a PFC (porous friction course) surface to improve braking capability when wet.

[5] Smooth Runway: A runway that has not been prepared with lateral grooving or PFC (porous friction course)

Note : Takeoff/Landing is prohibited when friction coefficient is 0.20 or lower, or RCR is at or below 6, or Braking Action is reported as 'Less than Poor (or RwyCC is as '0')'.

Note : If available information or reports are different for judging runway condition, a conservative one in terms of value or description should be selected for applying landing performance.

MAXIMUM DEPTH OF CONTAMINANT FOR LANDING

Contaminant	Water	Slush	Dry Snow	Wet Snow
Depth	13 mm (0.5 inch)	13 mm (0.5 inch)	100mm (4 inch)	25 mm (1 inch)

Note : Landing is prohibited when depth for each contaminant exceeds the max value.

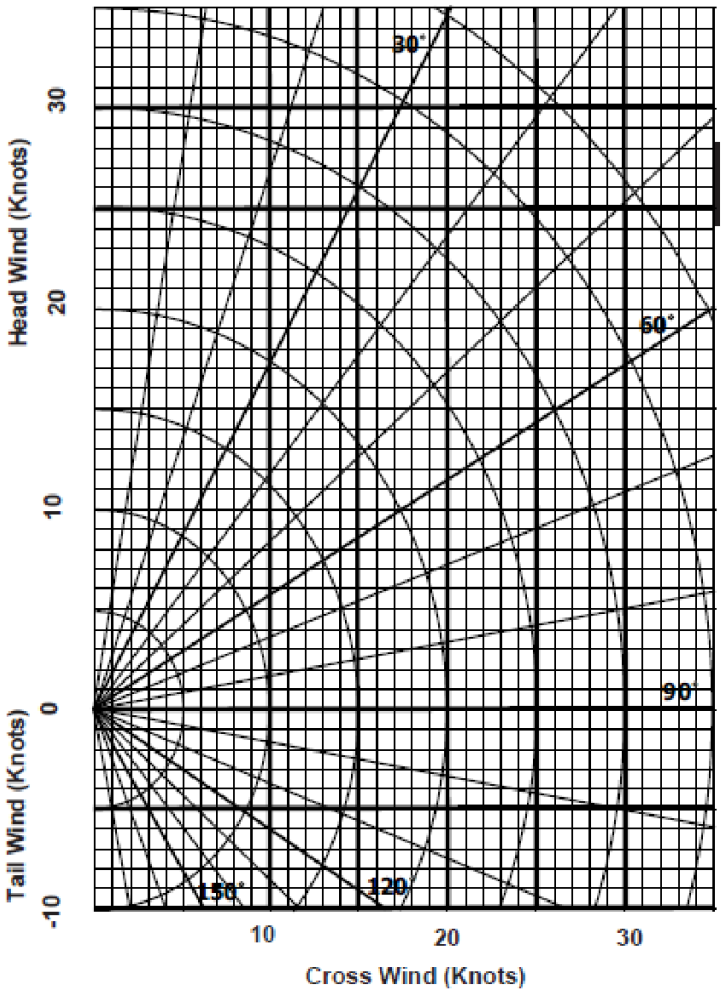
RUNWAY CONDITION & TAKEOFF PERFORMANCE TABLE

Contaminant	Runway Condition & Depth	Takeoff Performance
	Dry	Dry
Water	• -RA, RA (Grooved or PFC Runway) • Wet (Includes damp and 3mm (0.125 inch) depth or less of water) • Slippery when Wet	Wet
	• RA (Smooth Runway)	STNDNG WTR_6 mm
	• Heavy Rain	STNDNG WTR_12.7 mm
	• 3 mm (0.125 inch) < Water ≤ 12.7 mm (0.5 inch)	Reported Depth
Slush	• Slush ≤ 3 mm (0.125 inch)	Wet
	• 3 mm (0.125 inch) < Slush ≤ 12.7 mm (0.5 inch)	Reported Depth
Dry Snow	• Dry Snow ≤ 3 mm (0.125 inch)	Wet
	• 3 mm (0.125 inch) < Dry Snow ≤ 100 mm (4.0 inch)	Reported Depth
Wet Snow	• Wet Snow ≤ 3 mm (0.125 inch)	Wet
	• 3 mm (0.125 inch) < Wet Snow ≤ 12.7 mm (0.5 inch)	Reported Depth
Frost	• Frost	Wet
Compacted Snow	• No Water on Top of Compacted Snow	Compacted Snow
	• Water on Top of Compacted Snow	Takeoff is not allowed
Ice	• Ice	Ice
	• Wet Ice • Dry/Wet Snow over Ice	Takeoff is not allowed

Note :Takeoff is prohibited when depth for each contaminant exceeds the max value.

Note : The runway condition " Dry Snow / Wet Snow over compacted Snow" behaves the same whether or not there is a Compacted Snow underneath the loose snow. For takeoff, apply the same performance as for Dry Snow or Wet Snow reported by itself.

WIND COMPONENT AND LIMITATION



▣ Wind Limitations (Cross/Tail)

(kts)

Braking Action					
Good	Good to Medium	Medium	Medium to Poor	Poor	Nil
30 / 10	20 / 5	20 / 5	10 / NA	10 / NA	NA

▣ Auto Land Wind Limitations

(kts)

Wind Direction	CAT II or CAT III	CAT I or better			
		B777-200	~~B777-300~~	~~B777-300ER~~	~~B777F~~
Headwind	25	25	~~29/27~~ [1)]	~~40/33~~ [1)]	~~30/28~~ [1)]
Tailwind	10	10	~~10~~	~~10~~	~~10~~
Crosswind	15	25	~~28/30~~ [1)]	~~28/29~~ [1)]	~~27/25~~ [1)]

[1)] is the wind limitation for one engine inoperative.

ILS AIRBORNE REQUIRED EQUIPMENT

The following equipment must be operative for an auto-coupled approach and landing in CAT II or CAT III conditions.

AFDS Monitored Equipment		
Required Equipment	**FMA / ASA**	
	LAND 2	**LAND 3**
Instrument Landing System (ILS)	2	3
Radio Altimeter Systems	2	3
Air Data Inertial Reference Unit (ADIRU)	1	1
Pitot/Static Air Data Module (ADM)	2	3
Autopilot Flight Director Computer (AFDC)	2	3
Autopilot	2	3
Autopilot Engage Switch	1	1
Autopilot Backdrive actuator system	1	2
Autopilot Disconnect Switch	1	2
TOGA Switch	1	2
Hydraulic Systems	2	3
Normal flight controls [1)]	Required	
[1)] Primary Flight Control System mode should be NORMAL.		

AFDS NOT Monitored Equipment		
Approach Type	**CAT II**	**CAT III**
Required Equipment	**Required number**	
Anti-skid	0	Required
Autobrake or Groundspeed Indicator	0	Required
Autothrottle System and Disconnect Warning [2)]	0	1
Autothrottle Disconnect Switch [3)]	0	2
Nose Wheel Steering	0	1
Autopilot Disconnect Warning	1	
Windshield Wipers	2	
Window Heat on FWD and No. 2 Window [4)]	3	
Flight Director Display	2	
Primary Flight Displays (PFD) [5) 6)]	2	
Navigation Displays (ND)	2	
Flight Mode Annunciator/Autoland Status Annunciator (FMA/ASA) [7)]	2	
Decision Height (DH) Indication	2	
Engines Operating	1	

[2] Autothrottle system consists of 2 A/T servos, left and right A/T arm switches, and 1 A/T engage switch.

[3] One may be inoperative provided both A/T ARM switches operate normally

[4] Left FWD must be operative.

[5] Appropriate marker beacon information, or equivalent, must be displayed to each pilot for outer, middle and inner markers. The appropriate equivalent information, such as a precision or surveillance radar fix, a designated NDB, VOR, DME fix, or a published minimum Glide slope interception Altitude fix, may be used as a substitute for the outer marker beacon information.

[6] The following EICAS messages are not displayed:

- SINGLE SOURCE ILS
- SGL SOURCE RAD ALT
- SGL SOURCE DISPLAYS

[7] G/S, LOC, FLARE, ROLLOUT, and G/A mode annunciations required.

RNAV (RNP) AIRBORNE REQUIRED EQUIPMENT

Not applicable until the specified requirements have been completed.

Requirement for RNAV (RNP) approach Operations
Airplane equipment required to begin the approach: • 2 CDU • EICAS Display • 2 NDs • 2 PFDs • 2 FMCs • 2 GPS Receivers
Verify the following EICAS messages are not shown: • GND PROX SYS • NAV ADIRU INERTIAL • NAV UNABLE RNP • SGL SOURCE RAD ALT • SINGLE SOURCE F/D • TERR POS • AIR DATA SYS • FMC • FMC L or FMC R • GPS • GPS L or GPS R

METER/FEET CONVERSION TABLE

(China / Mongolia)

▣ FL Conversion

WEST BOUND (180° ~ 359°)	
13,100 m	**43,000 ft**
12,200 m	40,100 ft
11,600 m	**38,100 ft**
11,000 m	36,100 ft
10,400 m	**34,100 ft**
9,800 m	32,100 ft
9,200 m	**30,100 ft**
8,400 m	27,600 ft
7,800 m	**25,600 ft**
7,200 m	23,600 ft
6,600 m	**21,700 ft**
6,000 m	19,700 ft
5,400 m	**17,700 ft**
4,800 m	15,700 ft
4,200 m	**13,800 ft**
3,600 m	11,800 ft
3,000 m	**9,800 ft**
2,400 m	7,900 ft
1,800 m	**5,900 ft**
1,200 m	3,900 ft

EASTBOUND (360° ~ 179°)	
13,700 m	44,900 ft
12,500 m	**41,100 ft**
11,900 m	39,100 ft
11,300 m	**37,100 ft**
10,700 m	35,100 ft
10,100 m	**33,100 ft**
9,500 m	31,100 ft
8,900 m	**29,100 ft**
8,100 m	26,600 ft
7,500 m	**24,600 ft**
6,900 m	22,600 ft
6,300 m	**20,700 ft**
5,700 m	18,700 ft
5,100 m	**16,700 ft**
4,500 m	14,800 ft
3,900 m	**12,800 ft**
3,300 m	10,800 ft
2,700 m	**8,900 ft**
2,100 m	6,900 ft
1,500 m	**4,900 ft**

▣ ALT/HEIGHT Conversion

METER	FEET
1,000 m	3,300 ft
900 m	**3,000 ft**
800 m	2,600 ft
700 m	**2,300 ft**
600 m	2,000 ft

METER	FEET
500 m	1,600 ft
450 m	**1,500 ft**
400 m	1,300 ft
350 m	**1,100 ft**
300 m	1,000 ft