3.0 AIRPLANE PERFORMANCE

3.1 General Information

3.2 Payload/Range for 0.85 Mach Cruise

3.3 F.A.R. Takeoff Runway Length Requirements

3.4 F.A.R. Landing Runway Length Requirements
3.0 AIRPLANE PERFORMANCE

3.1 General Information

The graphs in Section 3.2 provide information on operational empty weight (OEW) and payload, trip range, brake release gross weight, and fuel limits for airplane models with the different engine options. To use these graphs, if the trip range and zero fuel weight (OEW + payload) are known, the approximate brake release weight can be found, limited by fuel quantity. Examples of loading conditions under certain OEW's are illustrated in each graph.

The graphs in Section 3.3 provide information on F.A.R. takeoff runway length requirements with the different engines at different pressure altitudes. Maximum takeoff weights shown on the graphs are the heaviest for the particular airplane models with the corresponding engines. Standard day temperatures for pressure altitudes shown on the F.A.R. takeoff graphs are given below:

<table>
<thead>
<tr>
<th>PRESSURE ALTITUDE</th>
<th>STANDARD DAY TEMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEET</td>
<td>METERS</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2,000</td>
<td>610</td>
</tr>
<tr>
<td>4,000</td>
<td>1,219</td>
</tr>
<tr>
<td>6,000</td>
<td>1,829</td>
</tr>
<tr>
<td>8,000</td>
<td>2,438</td>
</tr>
<tr>
<td>10,000</td>
<td>3,048</td>
</tr>
</tbody>
</table>

The graphs in Section 3.4 provide information on landing runway length requirements for different airplane weights and airport altitudes. The maximum landing weights shown are the heaviest for the particular airplane model.
3.2.1 PAYLOAD/RANGE FOR 0.85 MACH CRUISE

MODEL 747-400, -400 COMBI (CF6-80C2B1F ENGINES)
3.2.2 PAYLOAD/RANGE FOR 0.85 MACH CRUISE

MODEL 747-400, 400 COMBI (PW 4056 ENGINES)

NOTES:
* STANDARD DAY
* 0.85 MACH STEP CRUISE
* FAR INTERNATIONAL RESERVES
* 10% TRIP AIR TIME
* 200-NMI ALTERNATIVE
* 1/2 HOUR HOLD AT 1,500 FT
* NORMAL POWER EXTRACTION AND AIR CONDITIONING BLEED
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND OEW PRIOR TO FACILITY DESIGN

MAX ZERO FUEL WEIGHT - 747-400 COMBI
565,000 LB (256,279 KG)

MAX ZERO FUEL WEIGHT - 747-400
542,500 LB (246,073 KG)

420 PASSENGERS AND BAGGAGE
OEW = 394,000 LB (178,755 KG)
3.2.3 PAYLOAD/RANGE FOR 0.85 MACH CRUISE
MODEL 747-400, -400 COMBI (RB211-524G ENGINES)

NOTES:
* STANDARD DAY
* 0.85 MACH STEP CRUISE
* FAR INTERNATIONAL RESERVES
* 10% TRIP AIR TIME
* 200-NMI ALTERNATIVE
* 1/2 HOUR HOLD AT 1,500 FT
* NORMAL POWER EXTRACTION AND AIR CONDITIONING BLEED
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
AND OEW PRIOR TO FACILITY DESIGN

MAX ZERO FUEL WEIGHT - 747-400 COMBI
565,000 LB (256,279 KG)

MAX ZERO FUEL WEIGHT - 747-400
545,000 LB (247,207 KG)

OEW = 394,000 LB (178,755 KG)

420 PASSENGERS AND BAGGAGE

0 1 2 3 4 5 6 7 8
RANGE - 1,000 NAUTICAL MILES

0 190 420

1,000 POUNDS

1,000 KILOGRAMS

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3.2.4 PAYLOAD/RANGE FOR 0.85 MACH CRUISE

MODEL 747-400 FREIGHTER (CF6-80C2B1F ENGINES)
3.2.5 PAYLOAD/RANGE FOR 0.85 MACH CRUISE

MODEL 747-400ER (CF6-80C2B5F ENGINES)

NOTES:
* STANDARD DAY, ZERO WIND
* 0.85 MACH STEP CRUISE
* TYPICAL MISSION RULES
* NORMAL POWER EXTRACTION AND AIR CONDITIONING BLEED
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
AND OEW PRIOR TO FACILITY DESIGN

MAXIMUM ZERO FUEL WEIGHT
555,000 LB (251,744 KG)

RANGE - 1,000 NAUTICAL MILES
1,000 POUNDS
1,000 KILOGRAMS

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3.2.6 PAYLOAD/RANGE FOR 0.85 MACH CRUISE

MODEL 747-400ER (PW 4062 ENGINES)

NOTES: * STANDARD DAY, ZERO WIND
* 0.85 MACH STEP CRUISE
* TYPICAL MISSION RULES
* NORMAL POWER EXTRACTION AND AIR CONDITIONING BLEED
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
AND OEW PRIOR TO FACILITY DESIGN

MAXIMUM ZERO FUEL WEIGHT
555,000 LB (251,744 KG)

RANGE - 1,000 NAUTICAL MILES

OEW PLUS PAYLOAD
1,000 KILOGRAMS

1,000 POUNDS
3.2.7 PAYLOAD/RANGE FOR 0.85 MACH CRUISE
MODEL 747-400ER (RB211-524H8-T ENGINES)

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PAYLOAD/RANGE FOR 0.85 MACH CRUISE

MODEL 747-400ER FREIGHTER (CF6-80C2B5 ENGINES)

NOTES:
- STANDARD DAY, ZERO WIND
- 0.85 MACH STEP CRUISE
- TYPICAL MISSION RULES
- NORMAL POWER EXTRACTION AND AIR CONDITIONING BLEED
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
  AND OEM PRIOR TO FACILITY DESIGN

Maximum zero fuel weight: 635,000 lb (288,031 kg)

Brake release gross weight: 910 lb (412.8 kg)

650 lb (294.8 kg)
675 lb (306.5 kg)
800 lb (362.9 kg)
910 lb (412.8 kg)
1,000 lb (453.6 kg)
1,200 lb (540.2 kg)
1,500 lb (680.4 kg)

Range - 1,000 Nautical Miles

1,000 Kilograms

1,000 Pounds
3.2.9  PAYLOAD/RANGE FOR 0.85 MACH CRUISE

MODEL 747-400ER FREIGHTER (PW4062 ENGINES)
3.2.10 PAYLOAD/RANGE FOR 0.85 MACH CRUISE
MODEL 747-400ER FREIGHTER (RB211-524H-T ENGINES)

NOTES: *
- STANDARD DAY, ZERO WIND
- 0.85 MACH STEP CRUISE
- TYPICAL MISSION RULES
- NORMAL POWER EXTRACTION AND AIR CONDITIONING BLEED
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
  AND DEW PRIOR TO FACILITY DESIGN

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3.2.11 PAYLOAD/RANGE FOR 0.84 MACH CRUISE
MODEL 747-400 DOMESTIC (CF6-80C2B1F ENGINES)

NOTES:
* STANDARD DAY
* 0.84 MACH STEP CRUISE
* FAR INTERNATIONAL RESERVES
  * 10% TRIP AIR TIME
  * 200-NMI ALTERNATIVE
  * 1/2 HOUR HOLD AT 1,500 FT
* NORMAL POWER EXTRACTION AND AIR CONDITIONING BLEED
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
  AND OEW PRIOR TO FACILITY DESIGN

MAX ZERO FUEL WEIGHT
-535,000 LB (242,672 KG)

OEW PLUS PAYLOAD
1,000 KILOGRAMS

RANGE - 1,000 NAUTICAL MILES

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F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND OEW PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF. ONE PACK MAY BE OPERATED BY THE APU WITH NO THRUST PENALTY

235 MPH (378 KMPH)
TIRE SPEED LIMIT

MAX DESIGN TAKEOFF WEIGHT
875,000 LB (396,894 KG)

F.A.R. TAKEOFF RUNWAY LENGTH
1,000 METERS

F.A.R. TAKEOFF RUNWAY LENGTH
1,000 FEET

PRESSURE ALTITUDE
FEET (METERS)

10,000 (3,048)
8,000 (2,438)
6,000 (1,829)
4,000 (1,219)
2,000 (610)

1,000 POUNDS
1,000 KILOGRAMS

BRAKE RELEASE GROSS WEIGHT
3.3.2 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS -
STANDARD DAY +31°F (STD + 17.2°C)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
  AND DEW PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF, ONE PACK MAY BE
  OPERATED BY THE APU WITH NO THRUST PENALTY
* ZERO RUNWAY GRADIENT
* ZERO WIND

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NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
  AND OEW PRIOR TO FACILITY DESIGN
* ZERO RUNWAY GRADIENT
* AIR CONDITIONING OFF. ONE PACK MAY BE
  OPERATED BY THE APU WITH NO THRUST PENALTY
  ZERO WIND

3.3.3 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 747-400 (PW-4056 ENGINES)

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3.3.4 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS

STANDARD DAY +33°F (STD + 18.3°C)

MODEL 747-400 (PW4056 ENGINES)

D6-58326-1

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NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND OEW PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF. ONE PACK MAY BE OPERATED BY THE APU WITH NO THRUST PENALTY
* ZERO RUNWAY GRADIENT
* ZERO WIND

[Graph showing takeoff runway length requirements for various brake release gross weights and altitudes, with notes on standard day conditions and operating procedures.]
3.3.5 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 747-400 (RB211-524G2 ENGINES)

D6-S8236-1

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
  AND OFW PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF, ONE PACK MAY BE OPERATED BY THE APU WITH NO THRUST PENALTY
  * ZERO RUNWAY GRADIENT
  * ZERO WIND

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235 MPH (378 KM/H)
TIRE SPEED LIMIT

STANDARD DAY

PRESSURE ALTITUDE
(FEET) (METERS)
10,000 (3,048)
8,000 (2,439)
6,000 (1,829)
4,000 (1,210)
2,000 (610)
0

MAX DESIGN TAKEOFF WEIGHT
875,000 LB (398,894 KG)
3.3.6 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY +27°F (STD + 15°C)

MODEL 747-400 (RB211-524G2 ENGINES)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND OEW PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF. ONE PACK MAY BE OPERATED BY THE APU WITH NO THRUST PENALTY
* ZERO RUNWAY GRADIENT
* ZERO WIND

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NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND OEW PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF, ONE PACK MAY BE OPERATED BY THE APU WITH NO THRUST PENALTY
* ZERO RUNWAY GRADIENT
* ZERO WIND

3.3.7 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY
MODEL 747-400 FREIGHTER (CF6-80C2B ENGINES)

DECEMBER 2002
3.3.8 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS -
MODEL 747-400 FREIGHTER (CF6-80C2B1 ENGINES)

STANDARD DAY +31°F (STD + 17.2°C)

NOTES:
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND OEW PRIOR TO FACILITY DESIGN
- AIR CONDITIONING OFF. ONE PACK MAY BE OPERATED BY THE APU WITH NO THRUST PENALTY
- ZERO RUNWAY GRADIENT
- ZERO WIND

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3.3.9 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 747-400ER (CF6-80C2B5 ENGINES)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF
* ZERO RUNWAY GRADIENT
* ZERO WIND

F.A.R. TAKEOFF RUNWAY LENGTH
1,000 METERS

PRES. ALTITUDE
(Feet (Meters))
10,000 (3,048)
8,000 (2,438)
6,000 (1,829)
4,000 (1,219)
2,000 (610)
SEA LEVEL

STANDARD DAY

MAXIMUM TAKEOFF WEIGHT
910,000 LB (412,770 KG)
3.3.10 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS
STANDARD DAY + 31°F (STD + 17°C)
MODEL 747-400ER (CF6-80C2B5F ENGINES)

D6-58326-1
NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING
  PROCEDURE PRIOR TO FACILITY DESIGN
  * AIR CONDITIONING OFF
  * ZERO RUNWAY GRADIENT
  * ZERO WIND

3.3.11  F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY
MODEL 747-400ER (PW-4062 ENGINES)

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F.A.R. TAKEOFF RUNWAY LENGTH
1,000 METERS

F.A.R. TAKEOFF RUNWAY LENGTH - STANDARD DAY
1,000 FEET

PRESSURE ALTITUDE FEET (METERS):
10,000 (3,048)
8,000 (2,438)
6,000 (1,829)
4,000 (1,219)
2,000 (610)
SEA LEVEL

MAXIMUM TAKEOFF WEIGHT
910,000 LB (412,770 KG)

1,000 POUNDS
1,000 KILOGRAMS
BRAKE-RELEASE GROSS WEIGHT
3.3.12 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS -
STANDARD DAY +31°F (STD + 17°C)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF

ZERO RUNWAY GRADIENT
ZERO WIND

MODEL 747-400ER (PW4062 ENGINES)
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F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 747-400ER (RB211-524H6-ENGINES)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN
* ZERO RUNWAY GRADIENT
* ZERO WIND
* AIR CONDITIONING OFF

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MAXIMUM TAKEOFF WEIGHT
910,000 LB (412,770 KG)
3.3.14 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY +31°F (STD + 17°C)
MODEL 747-400ER (RB211-524H8-T ENGINES)
F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 747-400ER FREIGHTER (CF6-80C2B5F ENGINES)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN
* ZERO RUNWAY GRADIENT
* AIR CONDITIONING OFF

MAXIMUM TAKEOFF WEIGHT
910,000 LB (412,770 KG)

1,000 METERS
1,000 FEET
1,000 POUNDS
1,000 KILOGRAMS

BRAKE-RELEASE GROSS WEIGHT

STANDARD DAY
3.3.16 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY + 31°F (STD + 17°C)

MODEL 747-400ER FREIGHTER (CF6-80C2B5F ENGINES)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN
* ZERO RUNWAY GRADIENT
* AIR CONDITIONING OFF

STANDARD DAY + 31°F (17°C)

MAXIMUM TAKEOFF WEIGHT
910,000 LB (412,770 KG)

PRESSURE ALTITUDE
10,000 (3,048)
8,000 (2,438)
6,000 (1,829)
4,000 (1,219)
2,000 (610)
SEA LEVEL

TIRE SPEED LIMIT
235 MPH

1,000 POUNDS
550  600  650  700  750  800  850  900  950

1,000 METERS
5  7  10  12  13  14  15  16

1,000 FEET
0.5  1.0  1.5  2.0  2.5  3.0  3.5  4.0  4.5
3.3.17 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 747-400ER FREIGHTER (PW4062 ENGINES)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING
  PROCEDURE PRIOR TO FACILITY DESIGN
* ZERO RUNWAY GRADIENT
* ZERO WIND

STANDARD DAY

MAXIMUM TAKEOFF WEIGHT
910,000 LB (412,770 KG)

F.A.R. TAKEOFF RUNWAY LENGTH - 1,000 METERS
HIGHEST ALTITUDE - 1,000 FEET - 1,000 POUNDS
1,000 KILOGRAMS

PRESSURE ALTITUDE
10,000 (3,048)
8,000 (2,438)
6,000 (1,829)
4,000 (1,219)
2,000 (610)
SEA LEVEL

550 600 650 700 750 800 850 900 950
5 6 7 8 9 10 11 12 13 14 15 16
1.5 2.0 2.5 3.0 3.5 4.0 4.5

BRAKE-RELEASE GROSS WEIGHT
1,000 METERS
1,000 FEET
1,000 POUNDS
1,000 KILOGRAMS
3.3.18  F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS -

STANDARD DAY + 31°F (STD + 17°C)

MODEL 747-400ER FREIGHTER (PW4062 ENGINES)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING
  PROCEDURE PRIOR TO FACILITY DESIGN
* ZERO RUNWAY GRADIENT
* ZERO WIND
* AIR CONDITIONING OFF

MAXIMUM TAKEOFF WEIGHT
910,000 LB (412,770 KG)
3.3.20 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS -
STANDARD DAY + 31°F (STD + 17°C)
MODEL 747-400ER FREIGHTER (RB211-524H8-T ENGINES)

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3.3.21 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 747-400 DOMESTIC (CF6-80C2B1 ENGINES)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND CEW PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF, ONE PACK MAY BE OPERATED BY THE APU WITH NO THRUST PENALTY
* ZERO RUNWAY GRADIENT
* ZERO WIND
* 20% ENGINE DERATE

MAX DESIGN TAKEOFF WEIGHT
610,000 LB (276,692 KG)

FLAPS 10
FLAPS 20

PRESSURE ALTITUDE
(3,048)
(1,829)
(1,219)
(610)

4,000
6,000
8,000
10,000

1,000 METERS
1,000 FEET

1,000 POUNDS
1,000 KILOGRAMS

1,000 POUNDS
BRAKE RELEASE GROSS WEIGHT

STANDARD DAY
3.3.22 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS

STANDARD DAY +31°F (STD + 17.2°C)

MODEL 747-400 DOMESTIC (CF6-80C2B1 ENGINES)

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
  AND OEW PRIOR TO FACILITY DESIGN
* AIR CONDITIONING OFF. ONE PACK MAY BE
  OPERATED BY THE APU WITH NO THRUST PENALTY
* ZERO RUNWAY GRADIENT
* ZERO WIND
* 20% ENGINE DERATE

![Graph showing takeoff runway length requirements for 747-400 domestic with CF6-80C2B1 engines.]
3.4.1 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS - FLAPS 25

MODEL 747-400, -400 COMBI, -400 DOMESTIC, -400 FREIGHTER

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NOTES:
• CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE
  AND OEW PRIOR TO FACILITY DESIGN
• ZERO WIND
• APPLICABLE TO ALL TEMPERATURE CONDITIONS

Legend
- DRY RUNWAY
- WET RUNWAY

Max Landing WT
(747-400, -400COMBI)
630,000 LB (285,764 KG)

Max Landing WT
(747-400 DOMESTIC)
574,000 LB (260,562 KG)

Max Landing WT
(747-400 FREIGHTER)
666,000 LB (302,093 KG)
3.4.2 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS - FLAPS 30

NOTES:
* CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE AND OEW PRIOR TO FACILITY DESIGN
* ZERO WIND
* APPLICABLE TO ALL TEMPERATURE CONDITIONS

**Model:**
- 747-400
- 400 Combi
- 400 Domestic
- 400 Freighter

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3.4.3 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS - FLAPS 25

MODEL 747-400ER - FREIGHTER

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NOTES:
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN
- ZERO RUNWAY GRADIENT
- ZERO WIND

FLAPS 25

PRESSURE ALTITUDE
- WET RUNWAY
- DRY RUNWAY

PRES.
ALTITUDE
- WET
- DRY

MAXIMUM LANDING WEIGHT

747-400ER: 652,000 LB (295,743 KG)
747-400ER FREIGHTER: 666,000 LB (302,093 KG)