



747-8F

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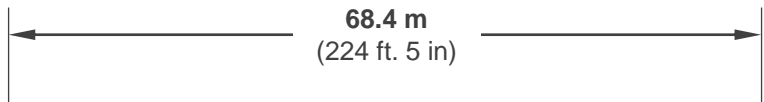
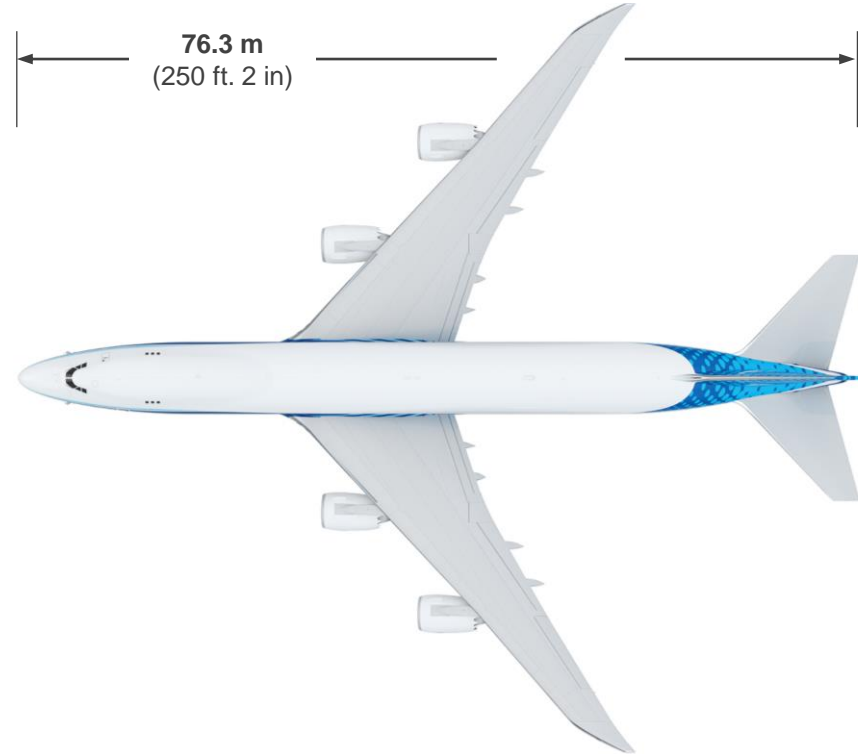
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Boeing 747-8F

General arrangement

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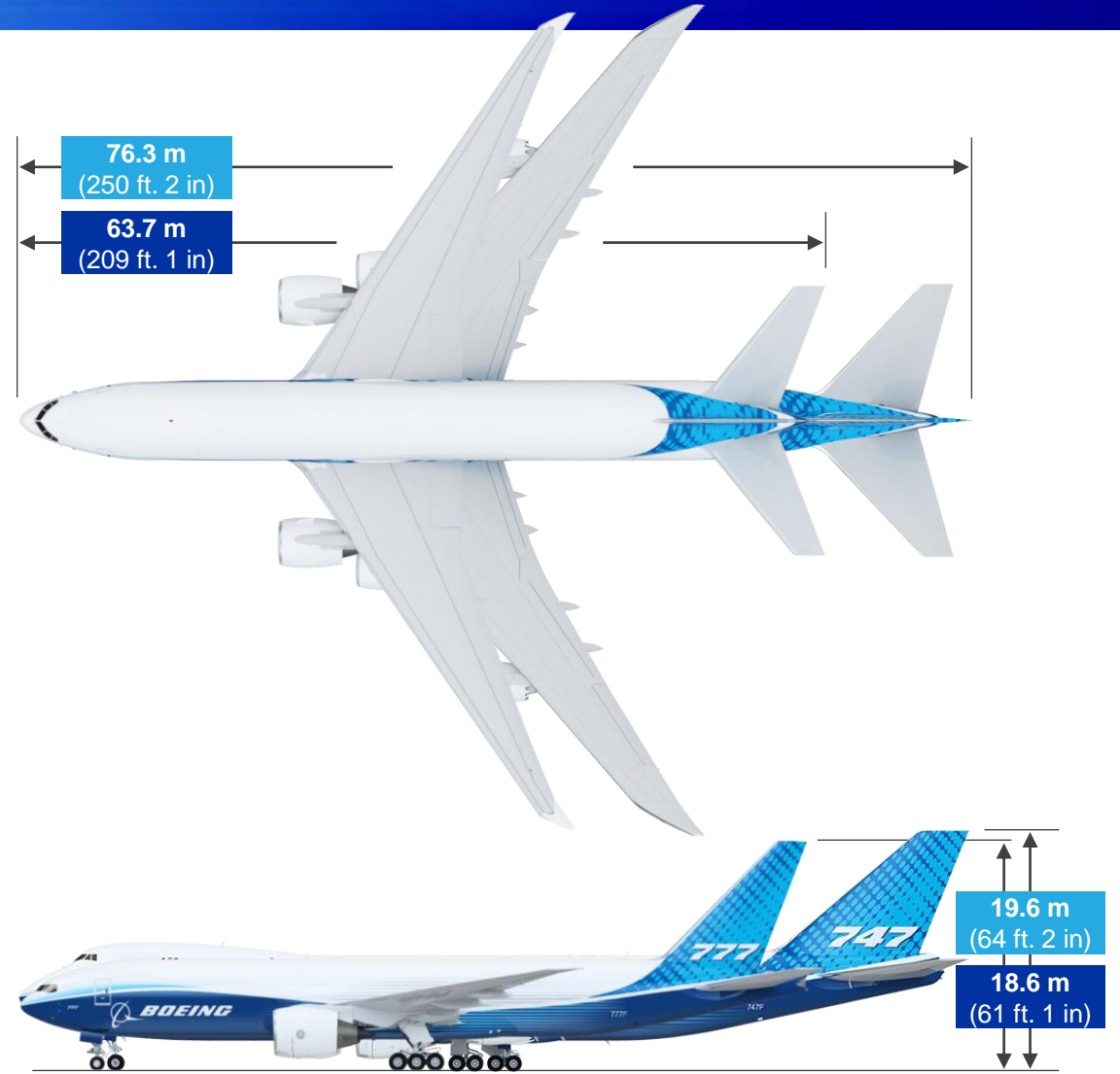
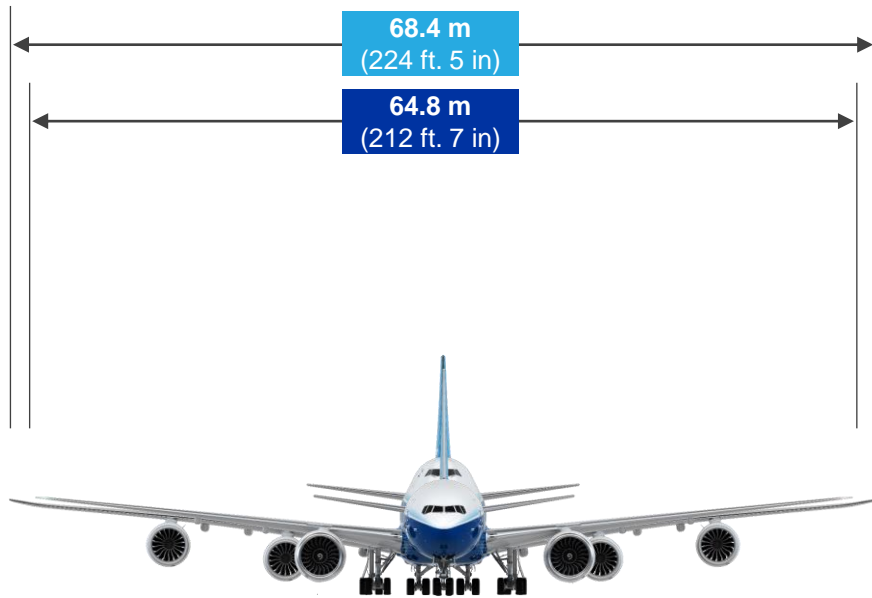


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747-8F and 777F size comparison

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- 747-8F
- 777F



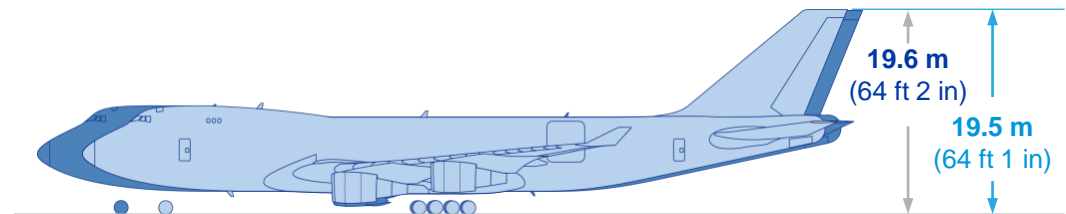
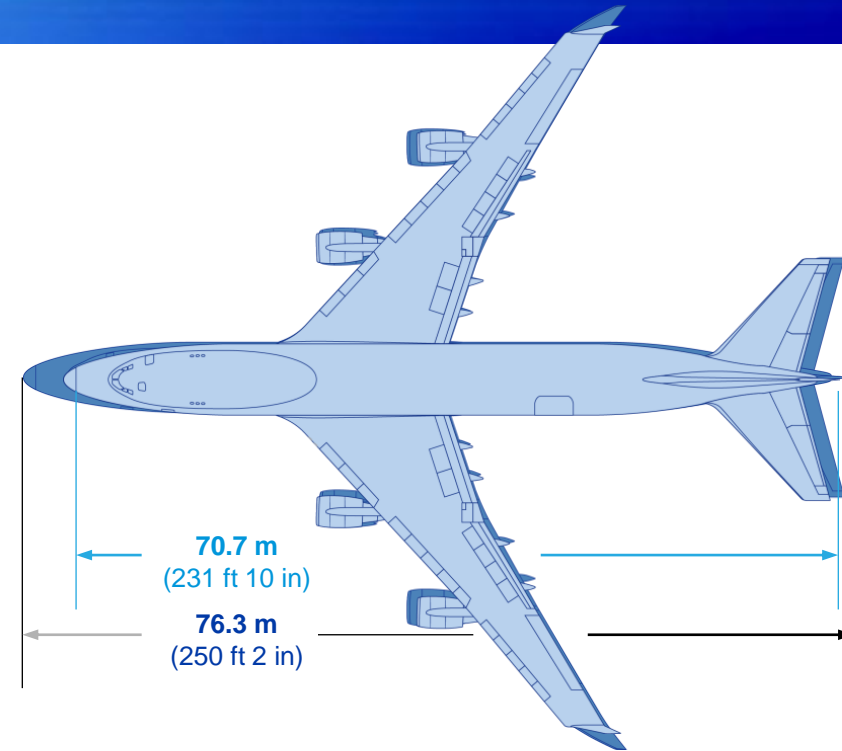
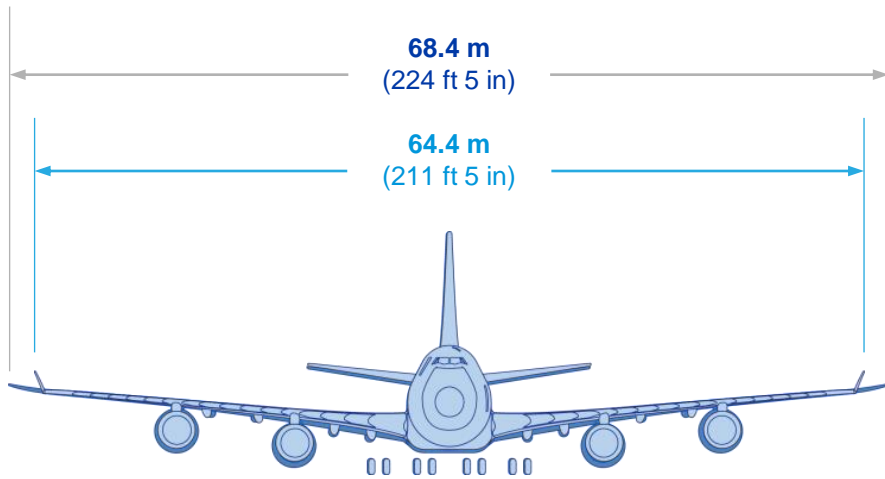
777F length dimension to H-stab; 747-8F length dimension to V-stab

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747-8F and 747-400F size comparison

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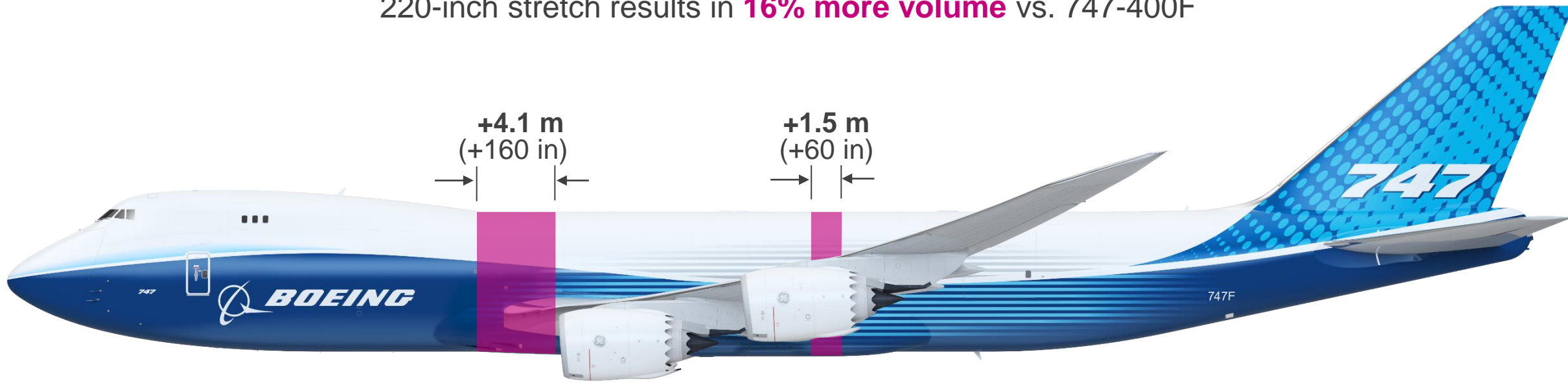


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Stretched to accommodate additional payload

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220-inch stretch results in **16% more volume** vs. 747-400F



4

additional
main deck pallets

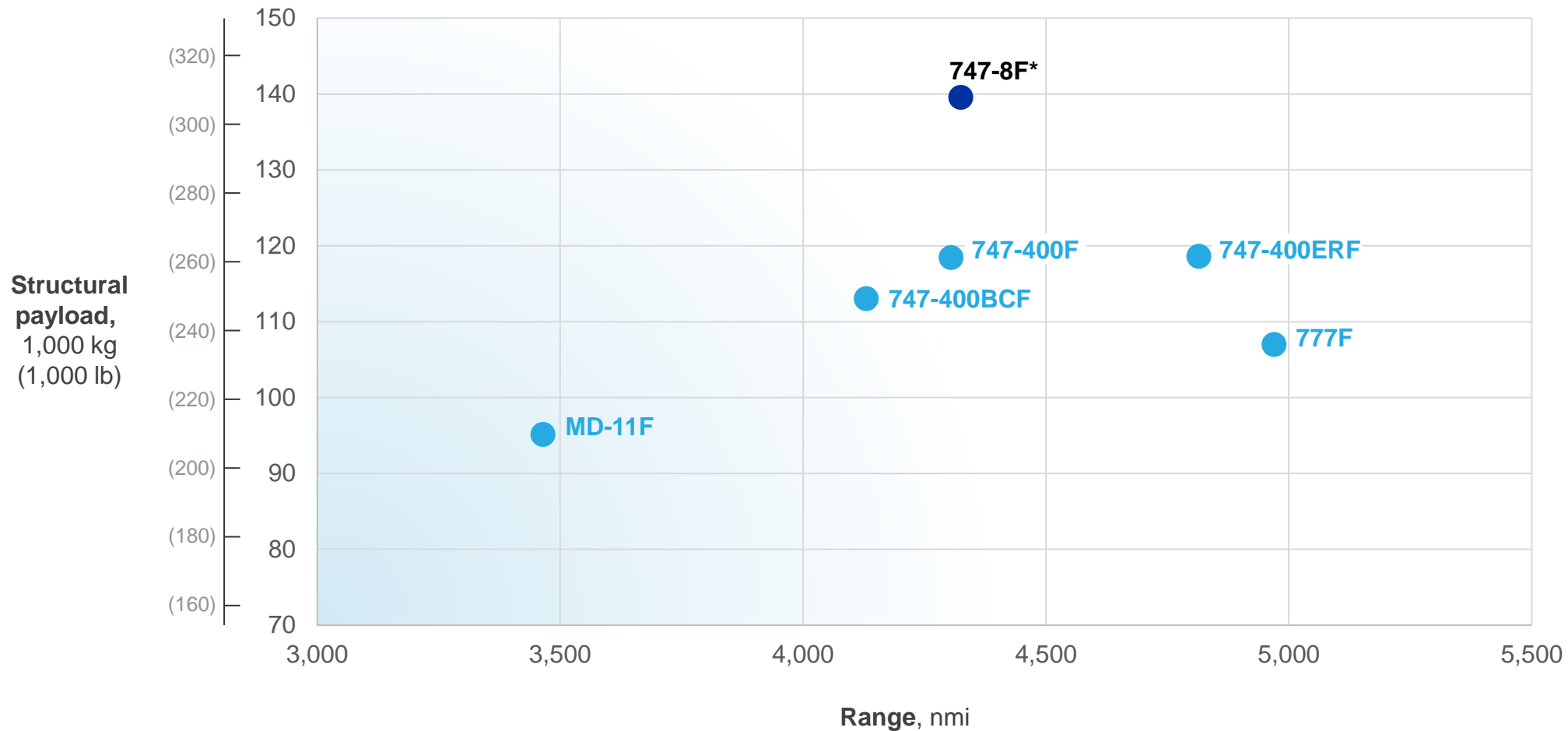
3

additional
lower hold pallets

747-8F offers unmatched payload capability

Maximum structural payload

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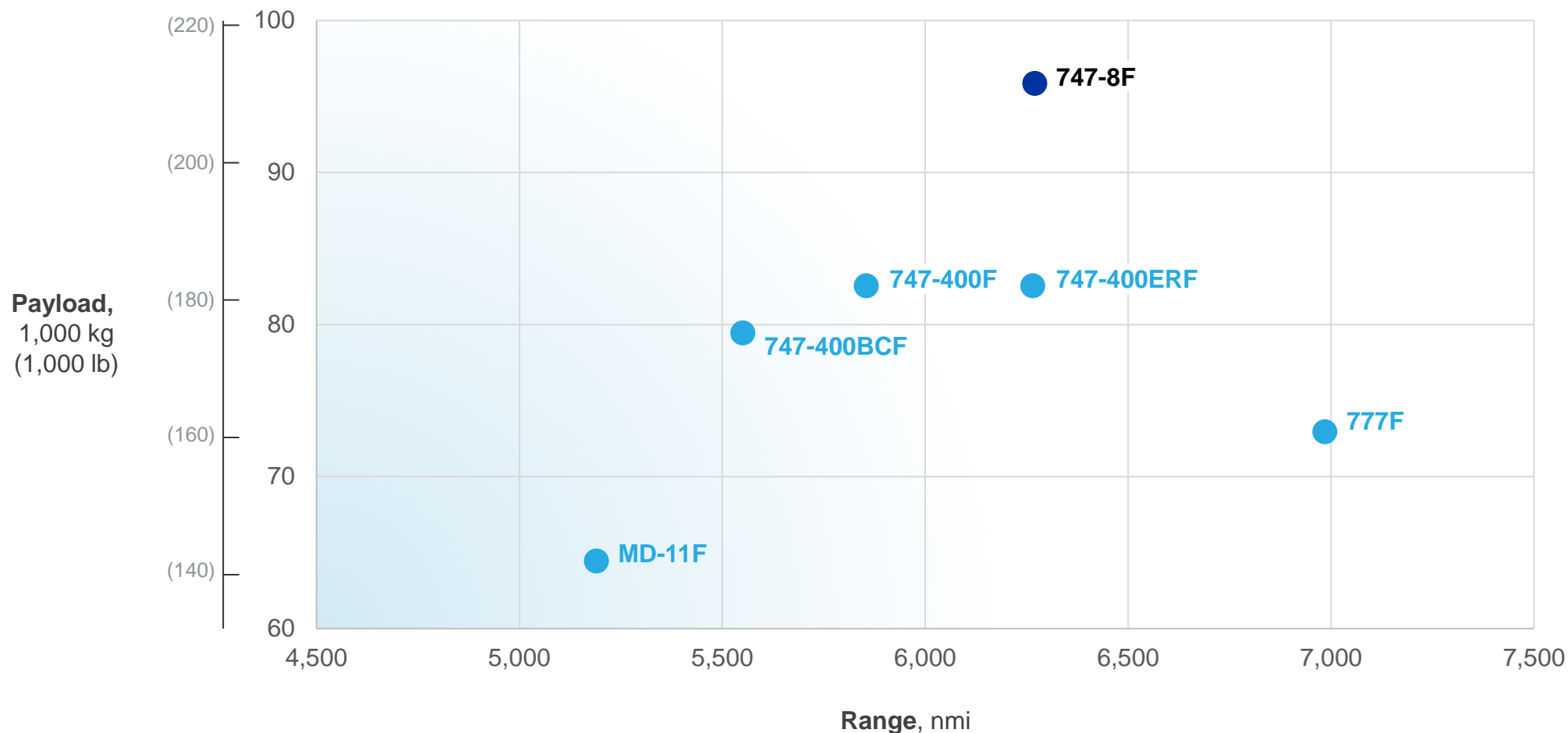
* Reflects maximum landing weight payload
Standard rules
Maximum structural payload
3% fuel factor for MD-11F, 747-400F, 747-400ERF, and 747-400BCF

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747-8F offers unmatched payload capability

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Volume-limited payload



Standard rules
Volume-limited payload at 112 kg/m³ (7 lb/ft³) density
3% fuel factor for MD-11F, 747-400F, 747-400ERF, and 747-400BCF

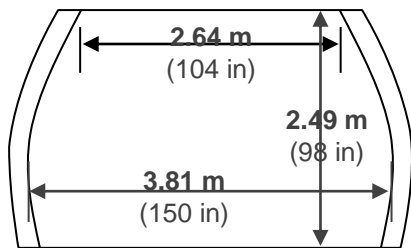
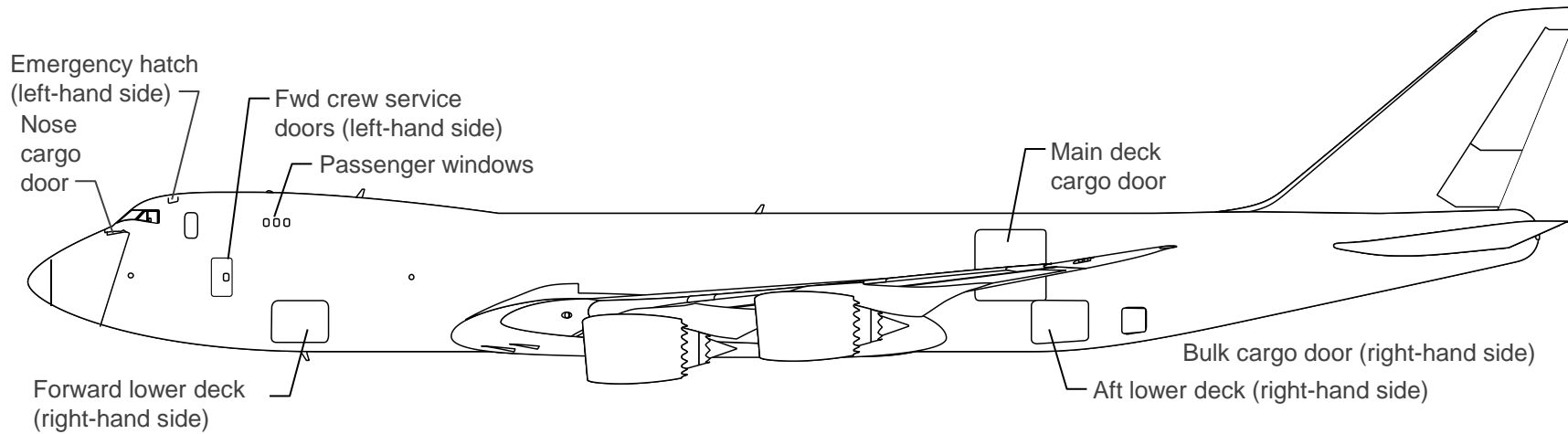
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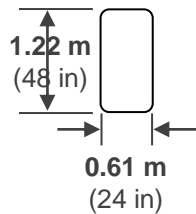
Boeing 747-8F

Cargo and crew doors

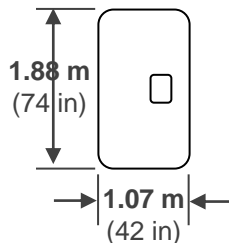
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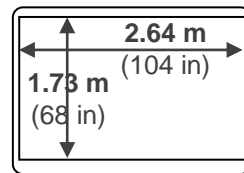
Nose cargo door



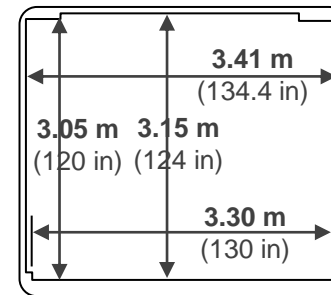
U/D entry door (STA 464)
 Left-hand side



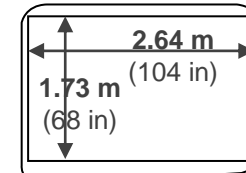
Fwd crew service door (STA 464)
 Left-hand side



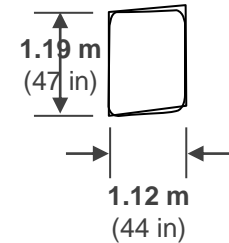
Fwd lower deck cargo door (STA 615)
 Right-hand side



Main deck cargo door (STA 1770)
 Left-hand side



Aft lower deck cargo door (STA 1865)
 Right-hand side



Bulk cargo door (STA 2007)
 Right-hand side

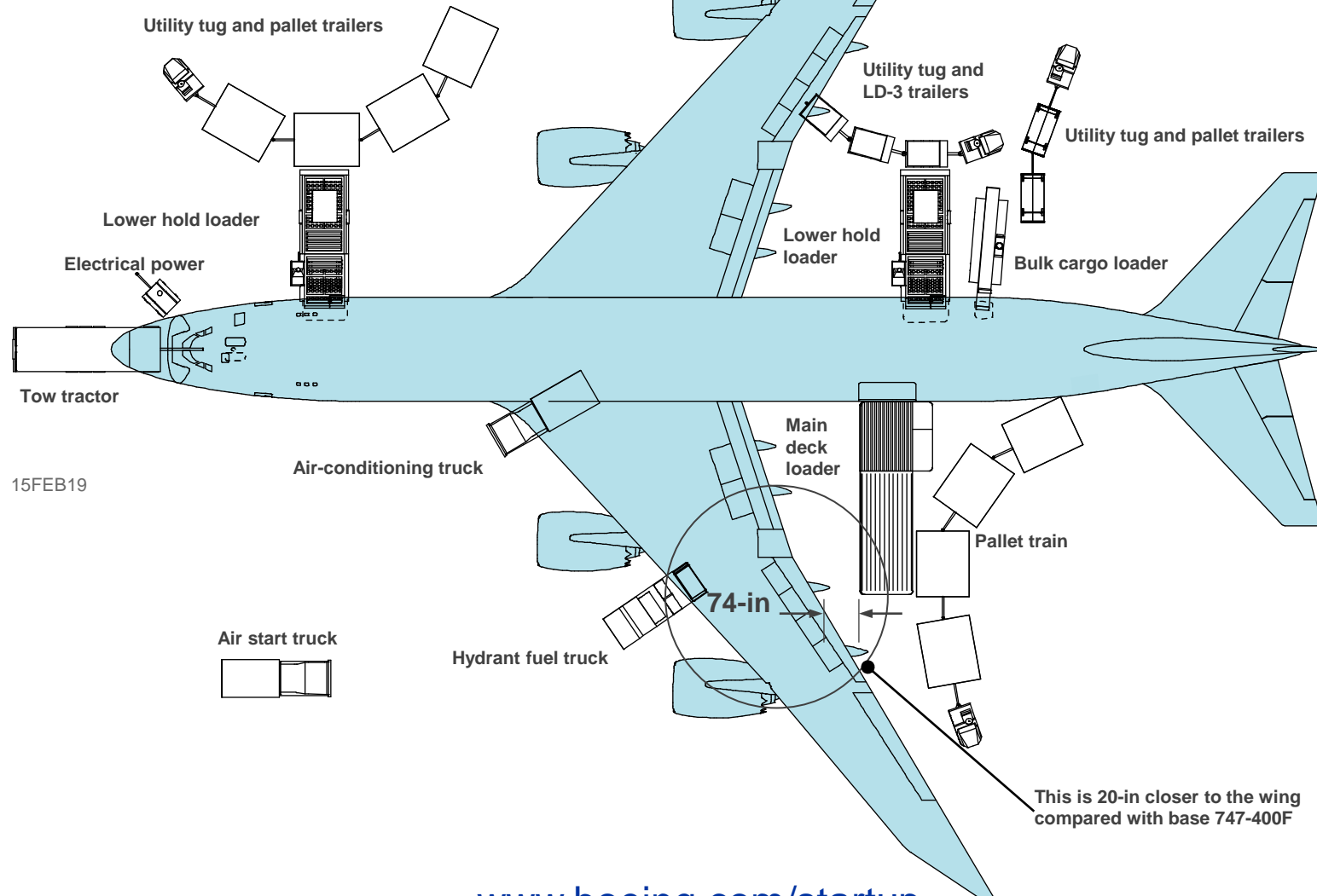
Clear opening dimensions

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The 747-8F has similar ground servicing positions to the 747-400F

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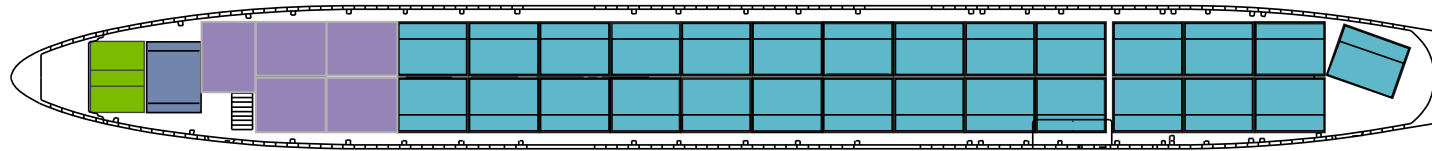


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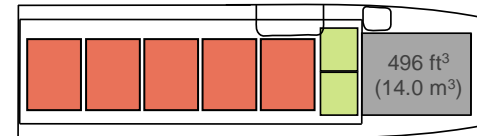
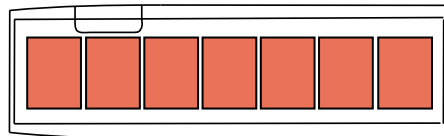
747-8F offers 34 main deck pallet positions

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Main deck
34 positions



Lower hold
12+2 positions



	ULD	Capacity ft ³ (m ³)	Tare lb. (kg)	Deck	Cargo volume
27	96" x 125" x 118" pallet	750 (21.2)	300 (136.1)	Main deck	24,462 ft ³ (692.7 m ³)
5	96" x 125" x 96" pallet	613 (17.4)	300 (136.1)	Main deck	
1	96" x 125" x 96" pallet	607 (17.2)	300 (136.1)	Main deck	
1	96" x 125" x 96" pallet	540 (15.3)	300 (136.1)	Main deck	
12	96" x 125" x 64" pallet	407 (11.5)	290 (131.5)	Lower hold	5,730* ft ³ (162.3* m ³)
2	LD-1 container	175 (5.0)	200 (90.7)	Lower hold	

Total cargo volume 30,192 ft³ (854.9 m³)

Total tare weight 14,080 lb (6,387 kg)

* includes bulk cargo

Main deck pallet arrangements

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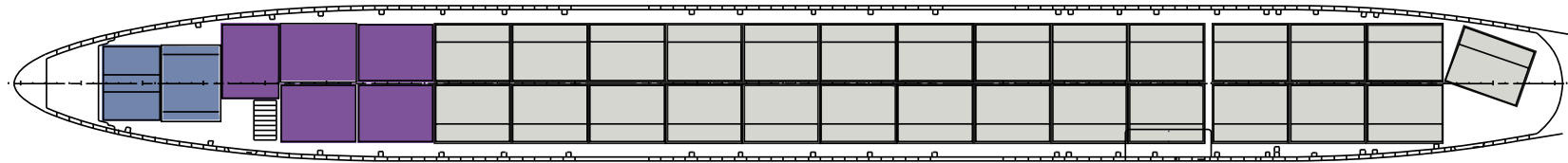
Main deck

■ 2 96-in x 125-in x 96" contoured pallets, $15.3 \text{ m}^3 + 17.2 \text{ m}^3$ (540 + 607 ft^3) = 32.5 m^3 (1,147 ft^3)

■ 5 96-in x 125-in x 96" pallets, 17.4 m^3 (613 ft^3) = 86.8 m^3 (3,065 ft^3)

■ 27 96-in x 125-in contoured pallets, 21.2 m^3 (750 ft^3) = 573.4 m^3 (20,250 ft^3)

Total 692.7 m^3 (24,462 ft^3)



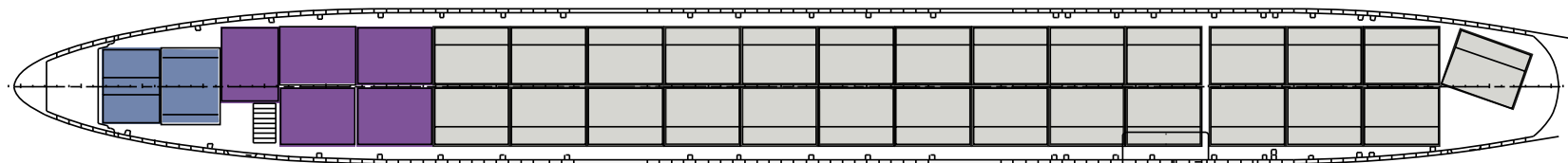
Main deck (alternate)

■ 2 88-in x 125-in x 96" contoured pallets, $14.0 \text{ m}^3 + 15.7 \text{ m}^3$ (493 + 554 ft^3) = 29.6 m^3 (1,047 ft^3)

■ 5 88-in x 125-in x 96" pallets, 15.9 m^3 (560 ft^3) = 79.3 m^3 (2,800 ft^3)

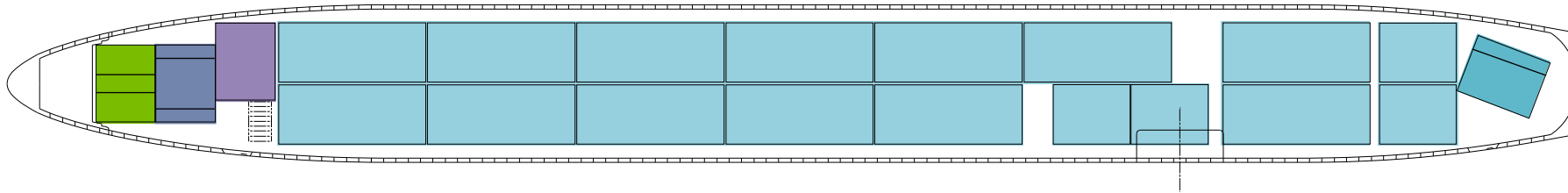
■ 27 88-in x 125-in contoured pallets, 19.3 m^3 (680 ft^3) = 519.9 m^3 (18,360 ft^3)

Total 628.8 m^3 (22,207 ft^3)

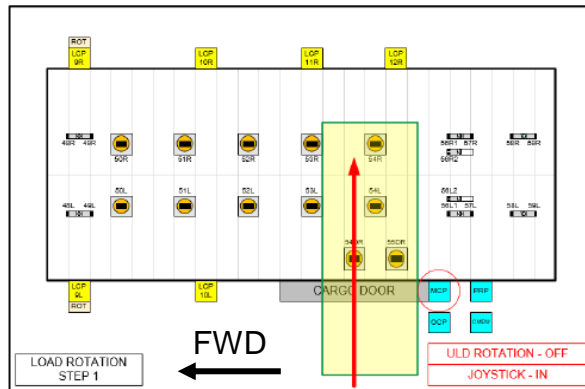


747-8F side cargo door accommodates loading of 20-ft (6-m) ULDs

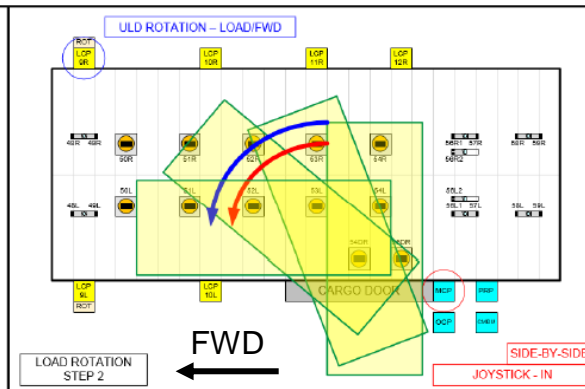
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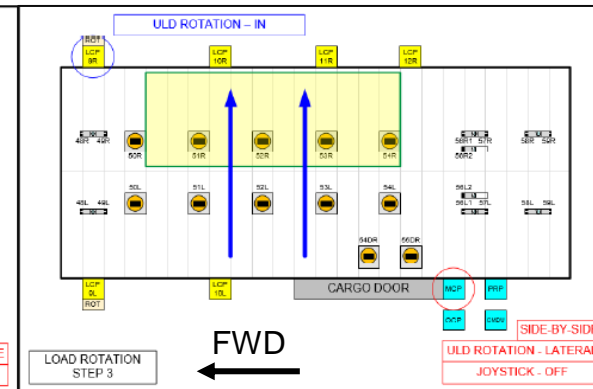
Step 1



Step 2



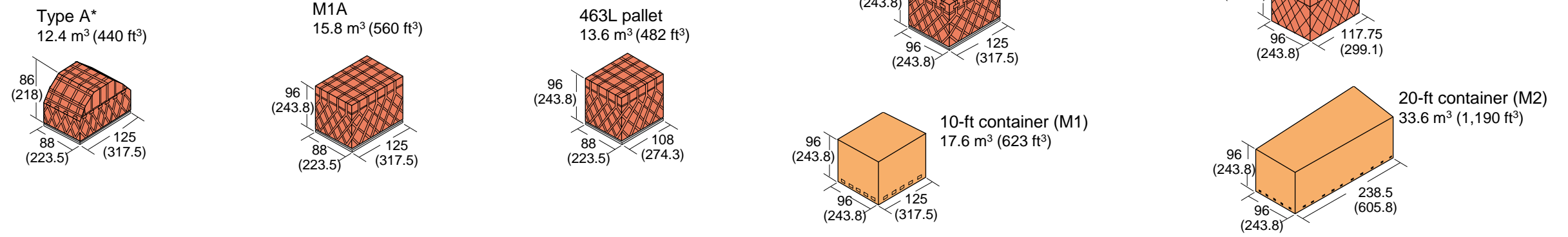
Step 3



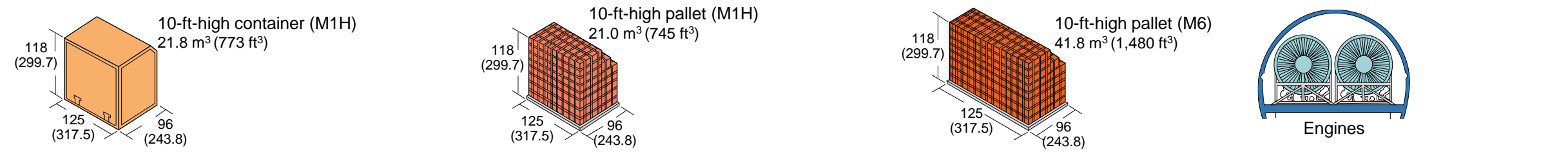
747-8F main deck loading versatility

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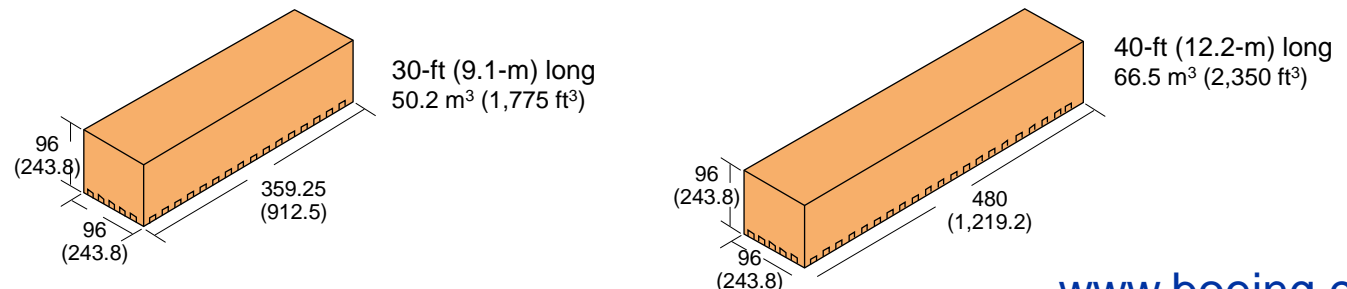
Either nose or side cargo door loading



Side cargo door loading only



Nose cargo door loading (-200/-400F only)



Pallet dimensions shown in inches (centimeters)
Maximum height varies from 78 to 86 in (198 to 218 m), depending on airplane type (e.g., 707, 727, 757, DC-8)

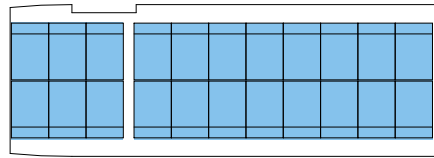
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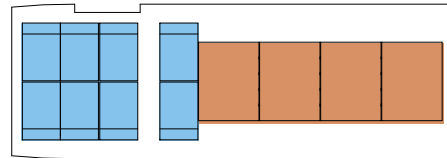
The lower hold can carry any combination of pallets and containers

747-8 Freighter lower hold cargo arrangements

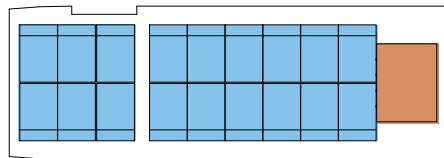
Forward



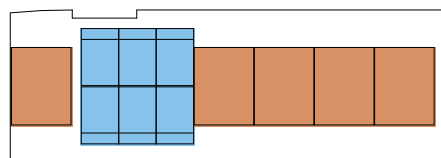
22 LD-1/-3



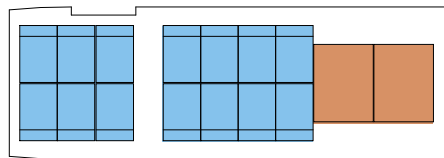
4 pallets and 8 LD-1/-3



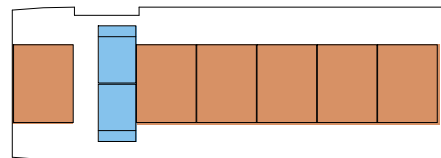
1 pallet and 18 LD-1/-3



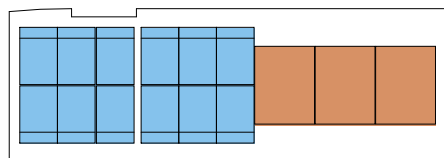
5 pallets and 6 LD-1/-3



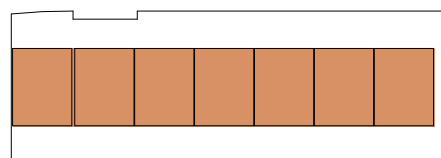
2 pallets and 14 LD-1/-3



6 pallets and 2 LD-1/-3

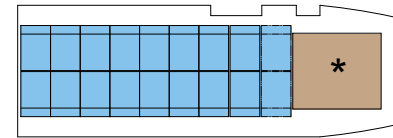


3 pallets and 12 LD-1/-3

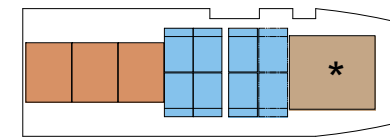


7 pallets

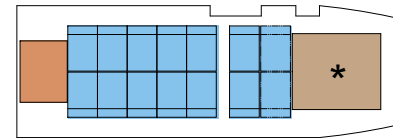
Aft



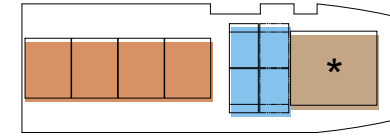
18 LD-1/-3



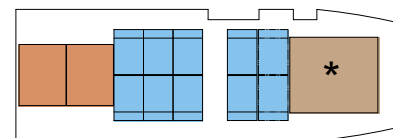
3 pallets and 8 LD-1/-3



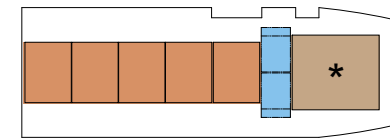
1 pallet and 14 LD-1/-3





4 pallets and 4 LD-1/-3



2 pallets and 10 LD-1/-3



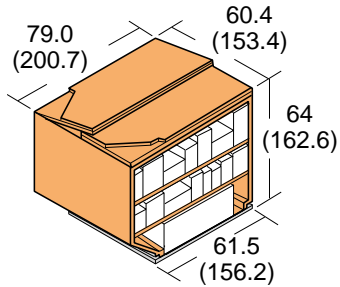
5 pallets and 2 LD-1/-3

 88/96 x 125-in pallet
 LD-1/-3 container

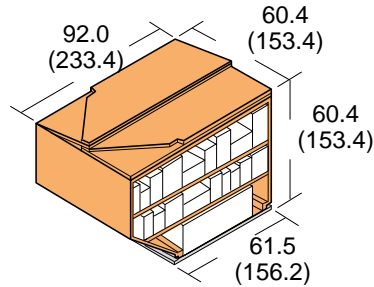
* bulk compartment: 14.0 m³ (496 ft³)
 Most common arrangements shown; movable locks allow for many other possible arrangements
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747-8 Freighter lower hold loading versatility

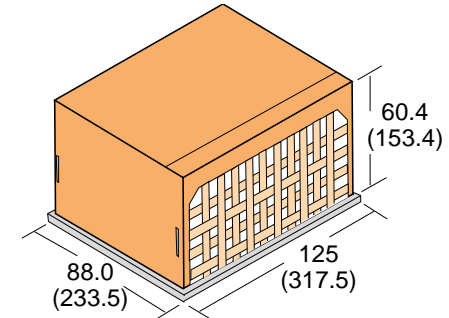
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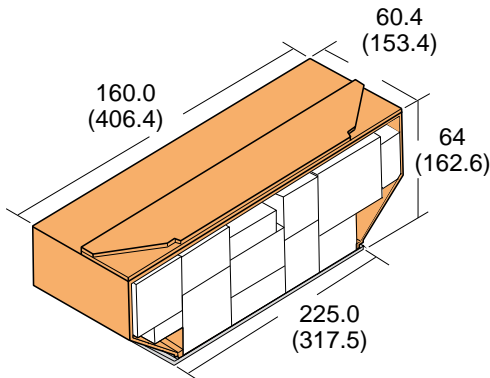
LD-3
4.5 m³ (159 ft³)
1,588-kg (3,500-lb) MGW



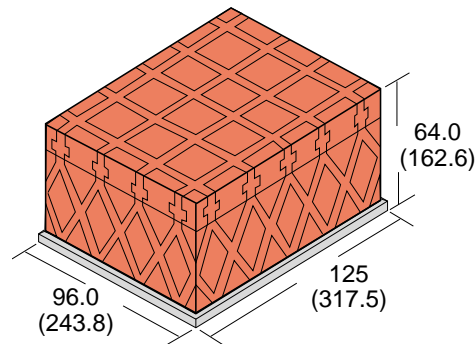
LD-1
4.9 m³ (175 ft³)
1,588-kg (3,500-lb) MGW



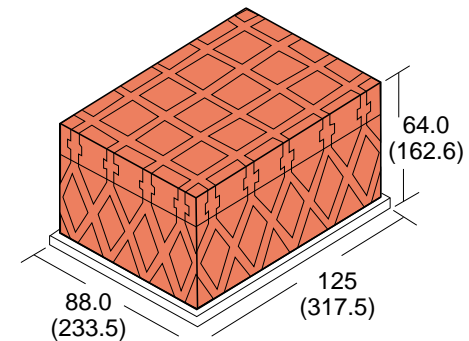
LD-9
10.8 m³ (381 ft³)
4,627-kg (10,200-lb) MGW



LD-6
9.1 m³ (322 ft³)
3,175-kg (7,000-lb) MGW



LD-11
11.5 m³ (407 ft³)
5,035-kg (11,100-lb) MGW



LD-12
10.5 m³ (372 ft³)
4,627-kg (10,200-lb) MGW

Maximum gross weights shown are based on lower hold floor running load capability (116 lb/in), subject to overall airframe structural limits
Pallet dimensions shown in inches (centimeters)

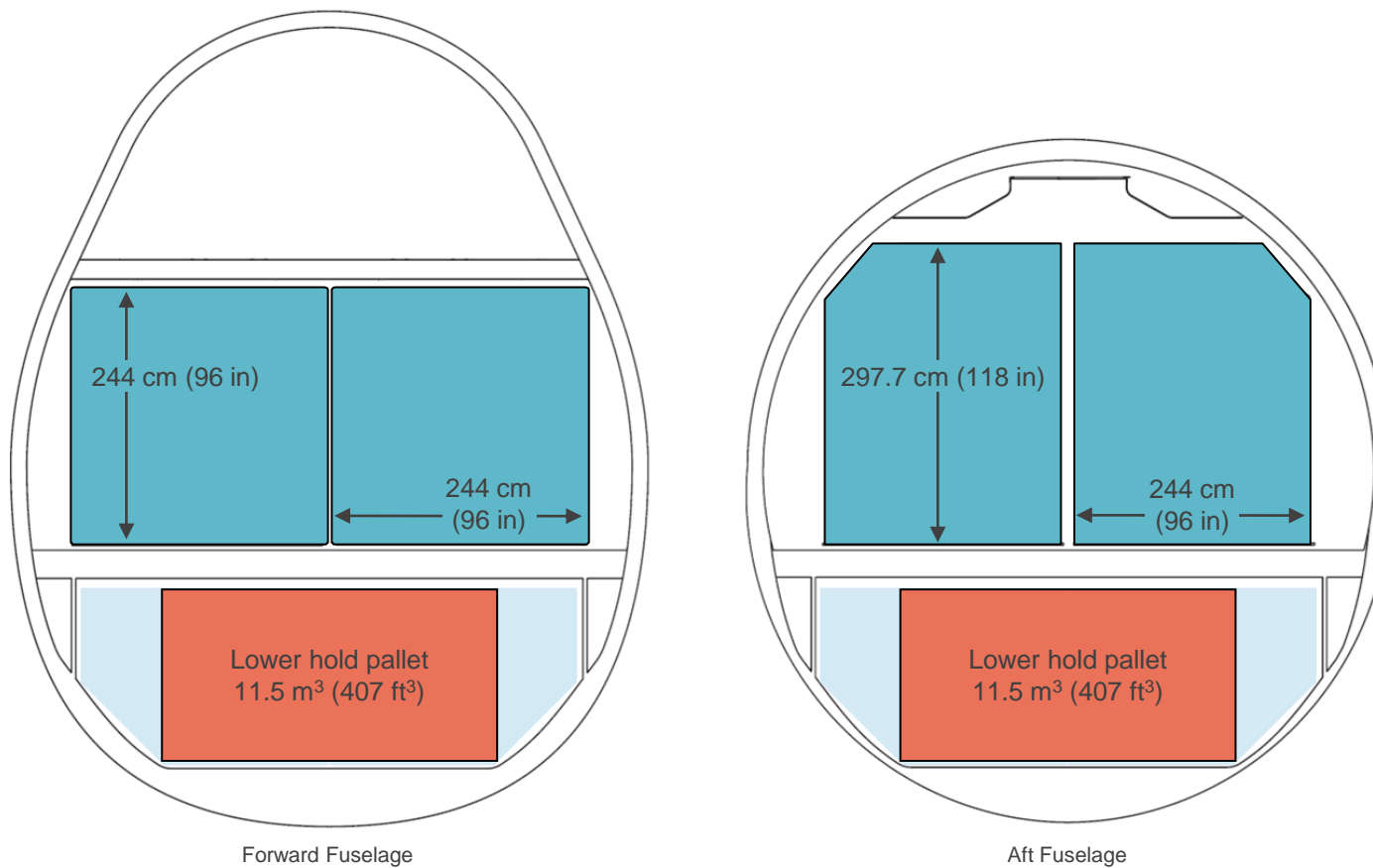
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747-8F and 777F both can carry 3-m (10-ft) tall pallets

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Fuselage cross section



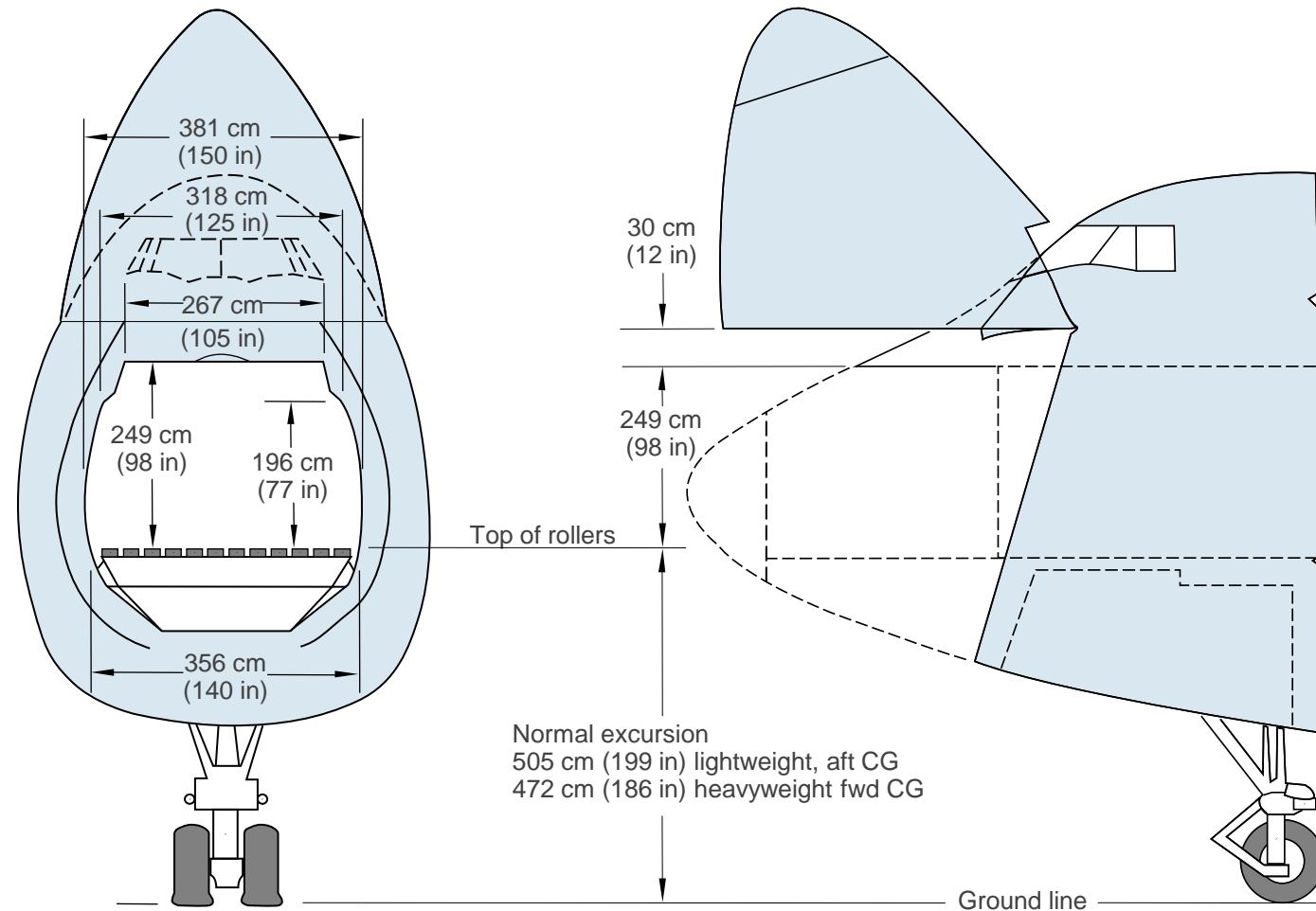
Note that the 747-8F main deck side cargo door is located aft of the wing
Note: main deck clear height is variable

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Boeing 747-8F

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Nose cargo door

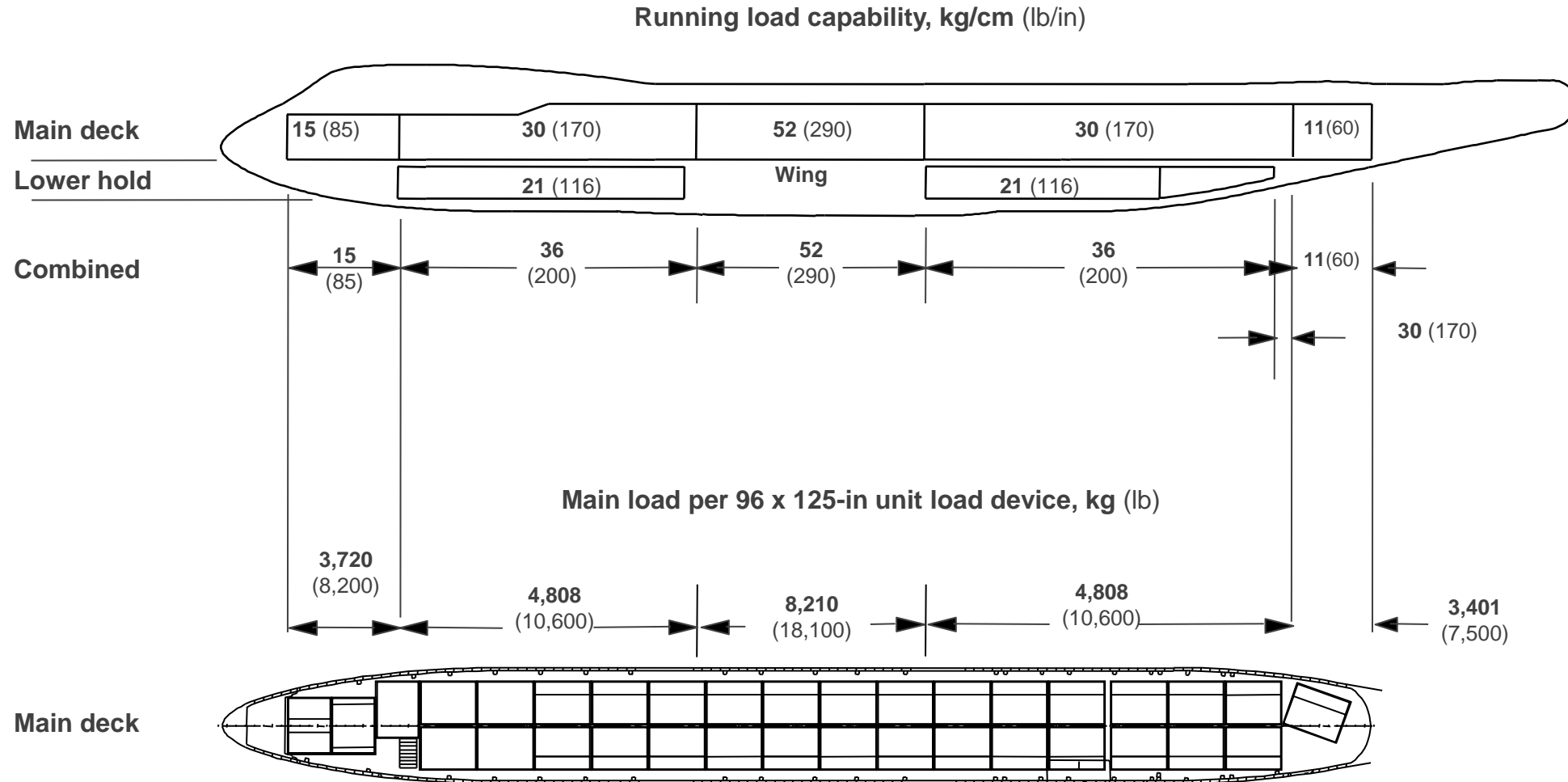


Clear opening dimensions

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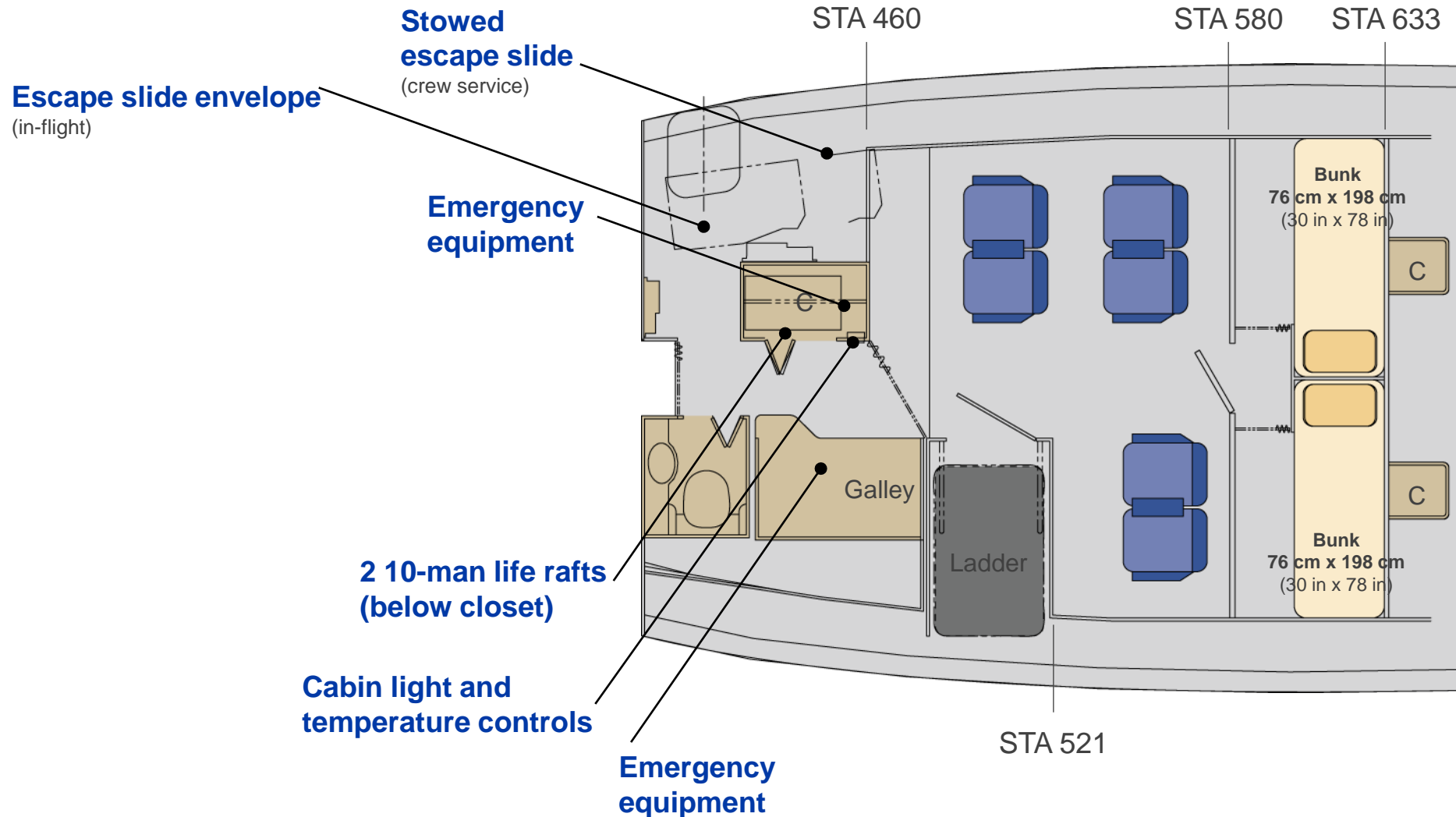
747-8F has the same floor running loading limits as the 747-400F



747-8F offers increased supernumerary area comfort

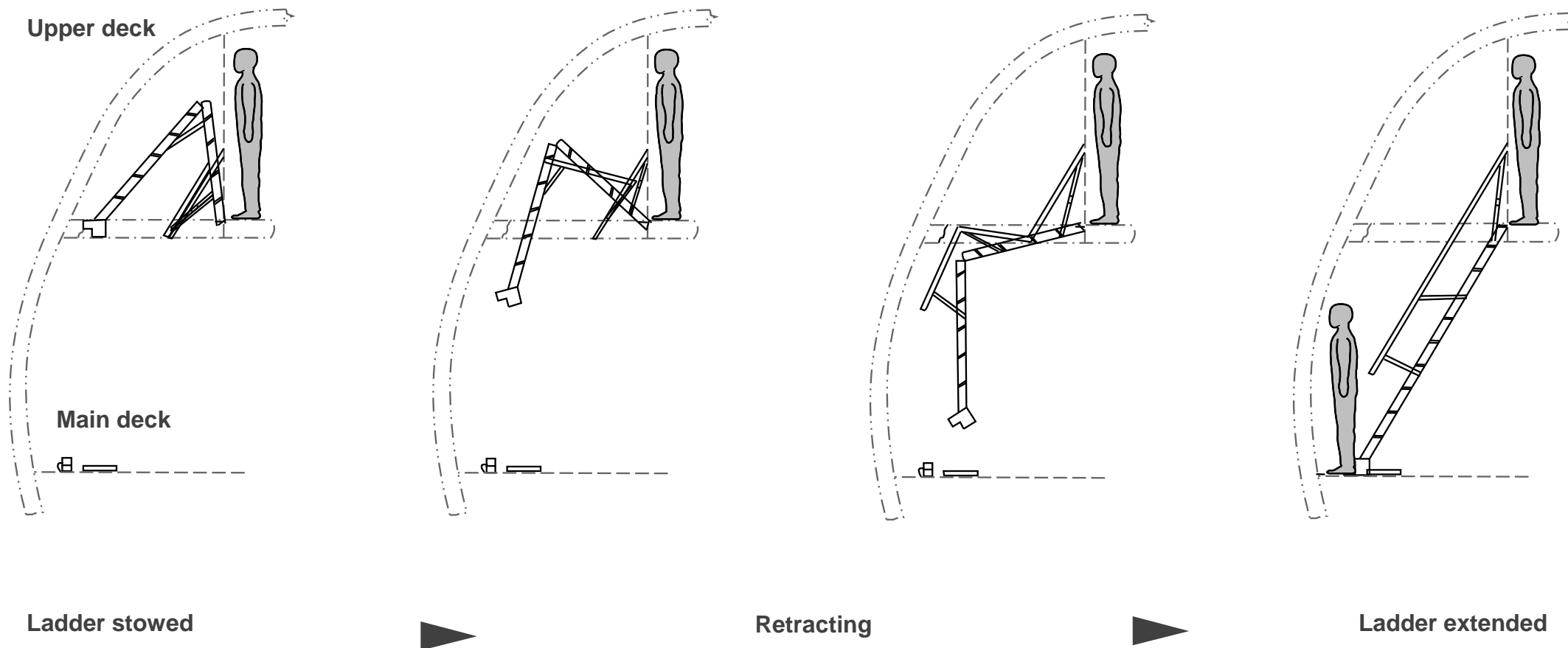
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6 crew seats and 2 bunks



Upper deck access to main deck in flight

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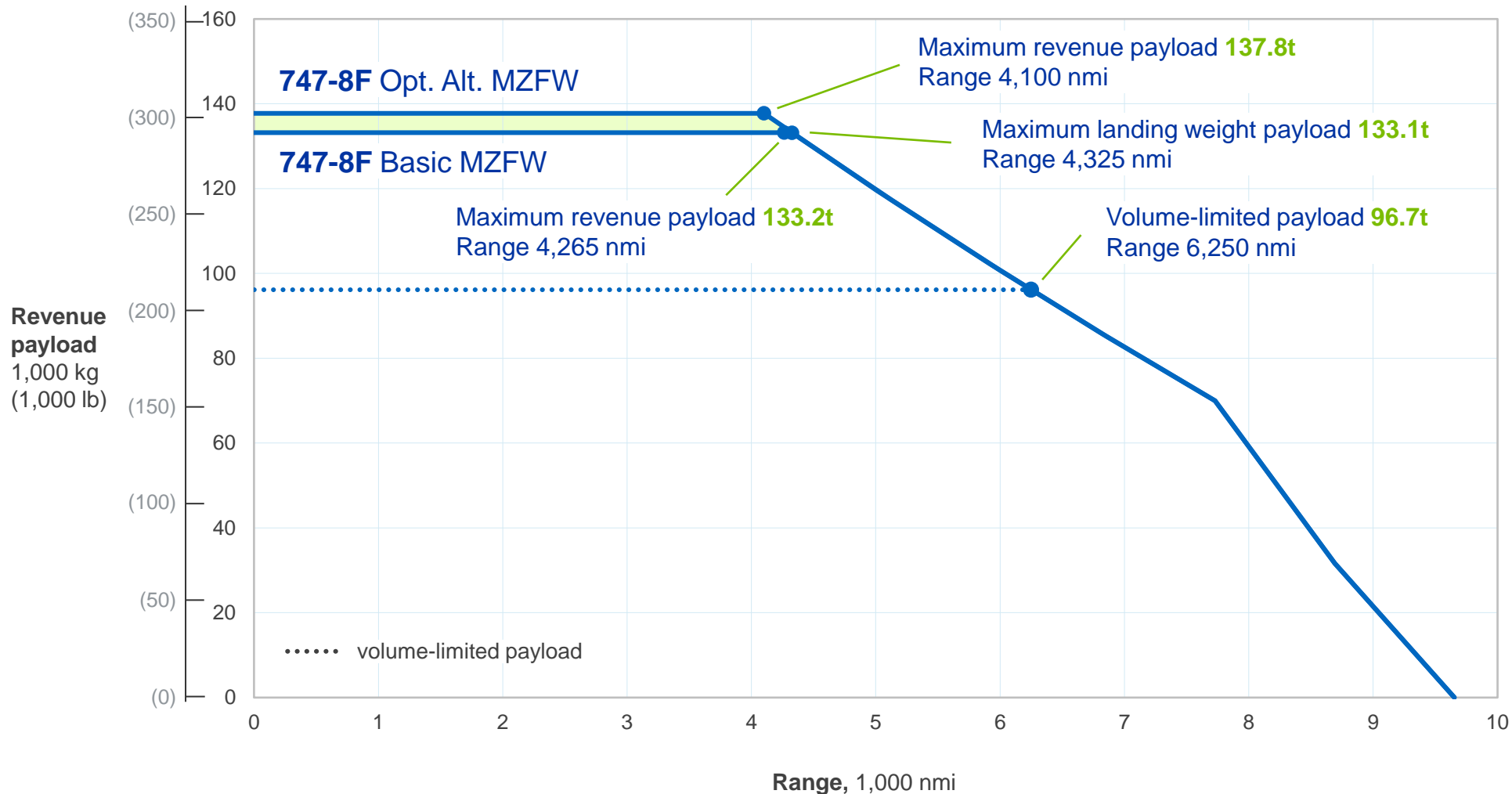


747-8F offers unmatched payload capability

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747-8F

447,700-kg MTOW
(987,000-lb)



Standard rules
Volume-limited payload at 112 kg/m³ (7 lb/ft³) density

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Performance summary

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		747-8F	747-8F **
Engines		GEnx-2B67-P	GEnx-2B67-P
Boeing equivalent thrust/flat-rated temperature	lb/°C	66,500 / 30	66,500 / 30
Cargo arrangement	MD / LD	34 / 12+2	34 / 12+2
Maximum taxi weight	kg (lb)	449,050 (990,000)	449,050 (990,000)
Maximum takeoff weight	kg (lb)	447,700 (987,000)	447,700 (987,000)
Maximum landing weight	kg (lb)	346,100 (763,000)	350,650 (773,000)
Maximum zero fuel weight	kg (lb)	329,750 (727,000)	334,300 (737,000)
Operating empty weight (with tare)	kg (lb)	196,550 (433,300)	196,550 (433,300)
Operating empty weight (without tare)	kg (lb)	190,150 (419,200)	190,150 (419,200)
Fuel capacity	L (U.S. gal)	226,118 (59,734)	226,118 (59,734)
Cruise Mach		0.845	0.845
Maximum structural payload (incl. tare)	kg (lb)	139,600 (307,800)	144,150 (317,800)
Maximum revenue payload (excl. tare)	kg (lb)	133,200 (293,700)	137,750 (303,700)
Design range	nmi (km)	4,265 * (7,900) *	4,100 (7,590)
Maximum landing weight payload (incl. tare)	kg (lb)	139,550 (307,600)	not applicable
Design range	nmi (km)	4,325 (8,010)	
Volume-limited payload (excl. tare)	kg (lb)	95,860 (211,340)	95,860 (211,340)
Design range	nmi (km)	6,270 (11,610)	6,270 (11,610)
Fuel use at maximum revenue payload (3,000 nmi)	kg (lb)	68,862 (151,816)	69,838 (153,967)
Fuel use at volume-limited payload (3,000 nmi)	kg (lb)	61,360 (135,275)	61,360 (135,275)
Total cargo volume	m ³ (ft ³)	854.9 (30,192)	854.9 (30,192)
Main deck cargo volume	m ³ (ft ³)	692.7 (24,462)	692.7 (24,462)
Lower deck cargo volume (excl. bulk)	m ³ (ft ³)	148.2 (5,234)	148.2 (5,234)
Bulk volume	m ³ (ft ³)	14.0 (496)	14.0 (496)
Cargo tare	kg (lb)	6,387 (14,080)	6,387 (14,080)
Fuel factor		0%	0%

* Range limited by maximum landing weight

** Opt. Alt. MZFW

Standard rules

Volume-limited payload at 112 kg/m³ (7 lb/ft³) density

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747-8F is designed to carry more payload

Maximum structural payload

747-8F

447,700-kg (987,000-lb) MTOW
139,550-kg (307,600-lb) payload

747-400F

396,900-kg (875,000-lb) MTOW
118,450-kg (261,100-lb) payload

+21
tonnes

Standard rules
50% annual winds, airways and traffic allowances included
Maximum structural payload
3% fuel factor for 747-400F
Range capability from Hong Kong

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747-8F is designed to carry more payload

Volume-limited payload

747-8F

447,700-kg (987,000-lb) MTOW
95,860-kg (211,340-lb) payload

747-400F

396,900-kg (875,000-lb) MTOW
82,540-kg (181,970-lb) payload

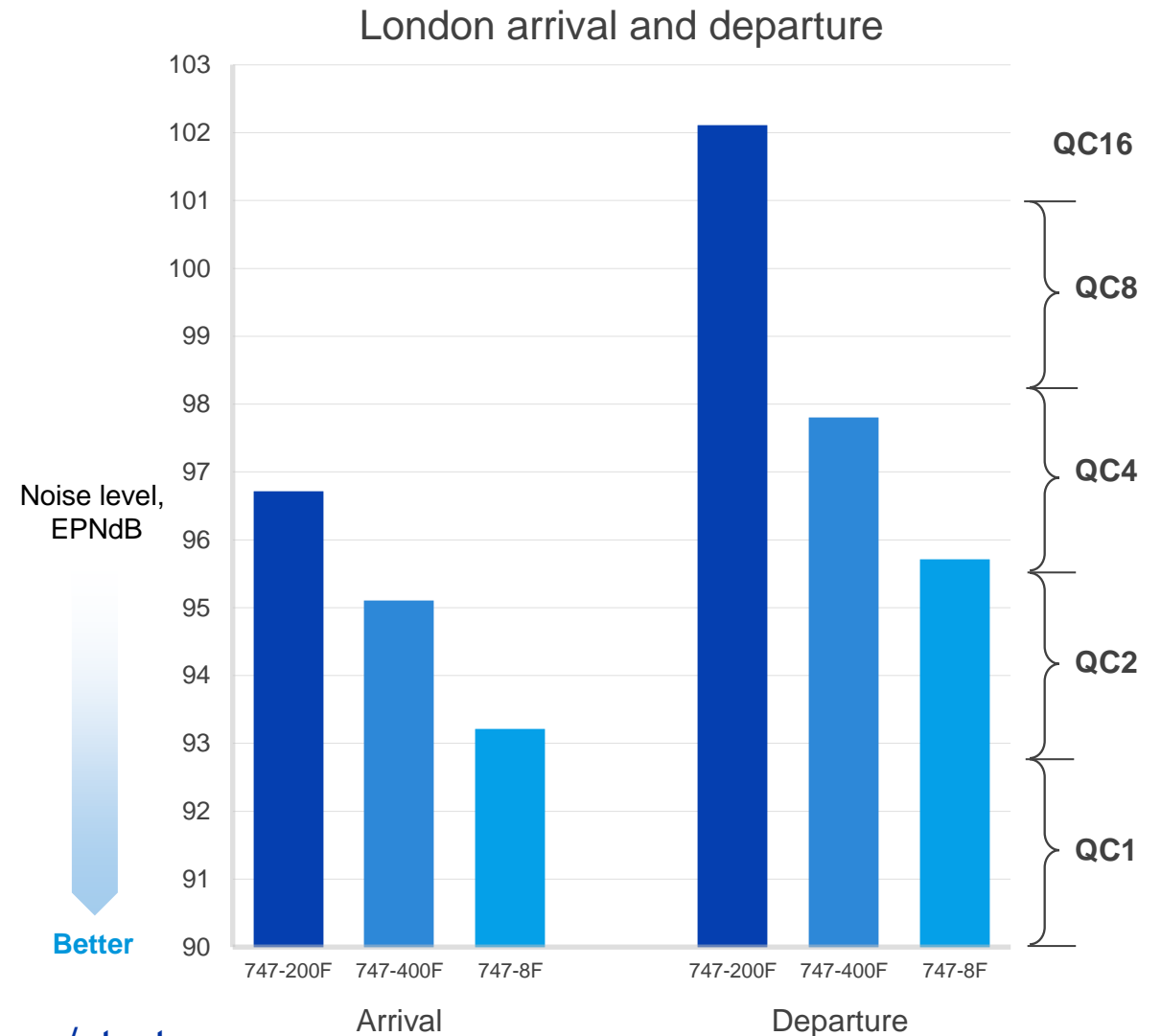
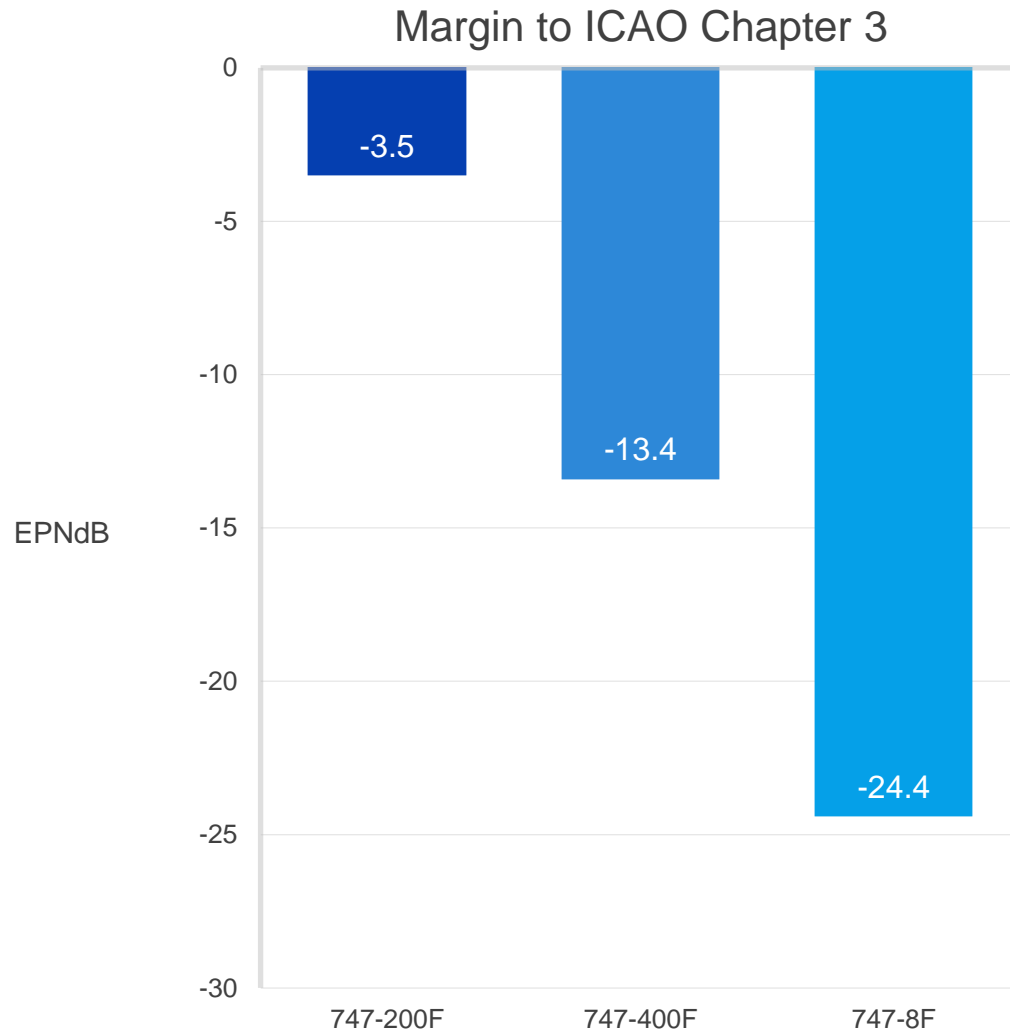
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Standard rules
50% annual winds, airways and traffic allowances included
Volume-limited payload at 112 kg/m³ (7 lb/ft³) density
3% fuel factor for 747-400F
Range capability from Hong Kong

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