
AIRPLANE FLIGHT MANUAL

DA 40

Airworthiness Category : Normal, Utility
Requirement : JAR-23
Serial Number : _____
Registration : _____
Doc. No. : 6.01.01-E
Date of Issue : 26 June 2000

Signature : _____
Authority : _____
Stamp : _____
Date of approval : _____


DL GmbH
Abteilung Flugtechnik
A-1030 Wien, Schmiedgasse 11
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- | This Flight Manual has been verified for EASA by the Austrian Civil Aviation Authority Austro Control (ACG) as Primary Certification Authority (PCA) in accordance with the valid Certification Procedures and approved by EASA with approval no. 2004-12326
- | This Flight Manual has been approved by EASA on behalf of CAAC-AAD.

DIAMOND AIRCRAFT INDUSTRIES GMBH
N.A. OTTO-STR. 5
A-2700 WIENER NEUSTADT
AUSTRIA

5.3.10 LANDING DISTANCE - FLAPS LDG

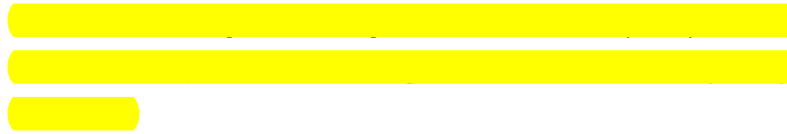
- Conditions:
- Throttle IDLE
 - RPM lever HIGH RPM
 - Flaps LDG
 - Approach speed 73 KIAS (1200 kg, 2646 lb)
71 KIAS (1150 kg, 2535 lb)
63 KIAS (1000 kg, 2205 lb)
58 KIAS (850 kg, 1874 lb)
 - Runway level, asphalt surface

NOTE

A landing mass above 1150 kg (2535 lb) up to 1200 kg (2646 lb) will increase the landing distance over a 50 ft (15 m) obstacle and the landing ground roll distance up to 6%.

Values for ISA and MSL, at 1150 kg (2535 lb)	
Landing distance over a 50 ft (15 m) obstacle	approx. 638 m (2093 ft)
Ground roll	approx. 352 m (1155 ft)

WARNING

CAUTION**CAUTION**

The figures in the following NOTE are typical values. On wet ground or wet soft grass covered runways the landing distance may become significantly longer than stated below. In any case the pilot must allow for the condition of the runway to ensure a safe landing.

NOTE

For landings on dry, short-cut grass covered runways, the following corrections must be taken into account, compared to paved runways (typical values, see CAUTION above):

- Grass up to 5 cm (2 in) long: 5 % increase in landing roll.
- Grass 5 to 10 cm (2 to 4 in) long: 15 % increase in landing roll.
- Grass longer than 10 cm (4 in): at least 25 % increase in landing roll.

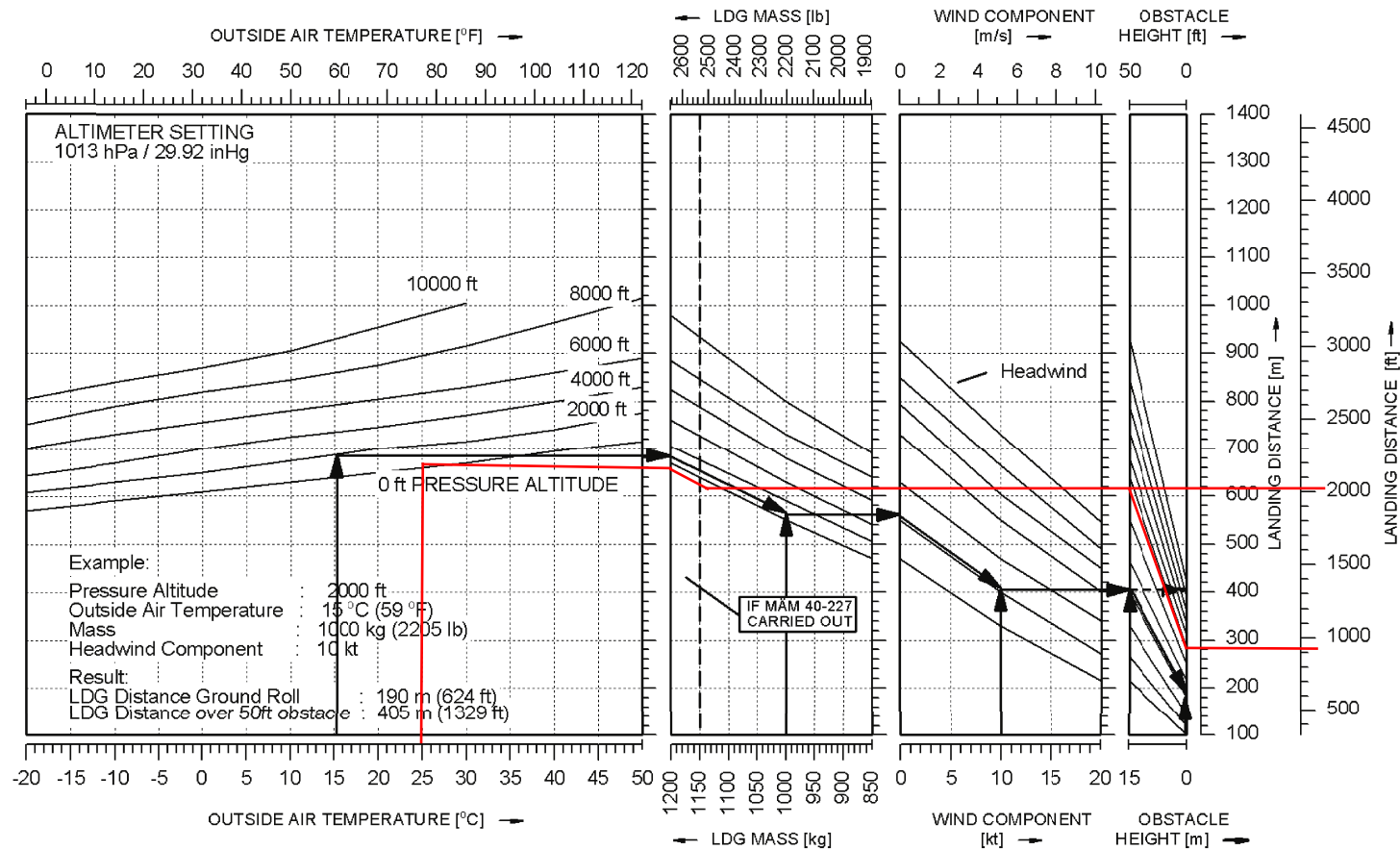
NOTE

On wet grass, a further 10 % increase in landing roll must be expected.

NOTE

A downhill slope of 2 % (2 m per 100 m, or 2 ft per 100 ft) results in an increase in the landing distance of approximately 10 %. The effect on the landing roll can be greater.

DA 40 - LANDING DISTANCES - FLAPS LDG



Reported weather:

- wind 220° at 12 knots
- temperature 25°C (77°F)
- calculated pressure altitude: 369 ft
- calculated density altitude: 1622 ft

Tailwind component: 2 knots
Crosswind component: 12 knots

Landing weight: 2512 pounds

Calculated landing ground roll: 930 ft

Calculated landing distance over 50 ft obstacle: 2020 ft