

Calculation report

07-09-2020

Airport details

Name: (LHR) London Heathrow
Runway: 27R/09L
Runway length: 4000.0m
Blast protection: 300.0m
Strip end: 60.0m

Obstacle details

Name: Boeing737
Width: 100.0m
Height: 12.0m
(Distance) right threshold: 200.0m
(Distance) left threshold: 2000.0m
(Distance) center: 10.0m

Re-declaration breakdown

27R (Taking Off Towards, Landing Towards)

TORA = Distance From Threshold + Runway Threshold - (Slope Calculation)
- Strip End
= $2000.0 + 0.0 - (12.0 * 50.0) - 60.0$
= 1340.0

ASDA = (R) TORA
= 1340.0

TODA = (R) TORA
= 1340.0

LDA = Distance from Threshold - RESA - Strip End
= $2000.0 - 240.0 - 60.0$
= 1700.0

09L (Taking Off Away, Landing Over)

TORA = Original TORA - Blast Protection - Distance From Threshold - Displaced Threshold
= $3660.0 - 300.0 - 200.0 - 306.0$
= 2854.0

ASDA = (R) TORA + STOPWAY
= 2854.0 + 200.0

TODA = (R) TORA + CLEARWAY
= 2854.0 + 200.0

LDA = Original LDA - Distance From Threshold - Slope Calculation - Strip End
= $3394.0 - 200.0 - (12.0 * 50.0) - 60.0$
= 2534.0

Runway designator	TORA	TODA	ASDA	LDA
Original Values				
27R	3660.0m	3660.0m	3660.0m	3660.0m
09L	3660.0m	3660.0m	3660.0m	3394.0m
Recalculated Values				
27R	1340.0m	1340.0m	1340.0m	1700.0m
09L	2854.0m	3054.0m	3054.0m	2534.0m

Visualisation of re-declared distances

