

# Calculation report

12-05-2020

## Airport details

Name: Henrys Test Land  
Runway: 27L/09R  
Blast protection: 300.0m  
Strip end: 60.0m

## Obstacle details

Name: Boeing777  
Width: 100.0m  
Height: 25.0m  
(Distance) right threshold: 44.0m  
(Distance) left threshold: 44.0m  
(Distance) center: 12.0m

## Re-declaration breakdown

### 09R (Taking Off Towards, Landing Towards)

TORA = Distance From Threshold + Runway Threshold - (Slope Calculation)  
- Strip End  
=  $44.0 + 0.0 - (25.0 * 50.0) - 60.0$   
= 0 (The actual value would be '-1266.0')

ASDA = (R) TORA  
= 0 (The actual value would be '-1266.0')

TODA = (R) TODA  
= 0 (The actual value would be '-1266.0')

LDA = Distance from Threshold - RESA - Strip End  
=  $44.0 - 240.0 - 60.0$   
= 0 (The actual value would be '-256.0')

### 27L (Taking Off Away, Landing Over)

TORA = Original TORA - Blast Protection - Distance From Threshold - Displaced Threshold  
=  $4000.0 - 300.0 - 44.0 - 0.0$   
= 3656.0

ASDA = (R) TORA + STOPWAY  
= 3656.0 + 50.0

TODA = (R) TORA + Clearway  
= 3656.0 + 100.0

LDA = Original LDA - Distance From Threshold - Slope Calculation - Strip End  
=  $4000.0 - 44.0 - (25.0 * 50.0) - 60.0$   
= 2646.0

Runway designator	TORA	TODA	ASDA	LDA
Original Values				
27L	4000.0m	4100.0m	4000.0m	4000.0m
09R	4000.0m	4100.0m	4000.0m	4000.0m
Recalculated Values				
27L	3656.0m	3756.0m	3706.0m	2646.0m
09R	0.0m	0.0m	0.0m	0.0m

### Visualisation of re-declared distances

