

EAA Data Collection Project Test Card 2

Turning Glide Performance

(SIMULATED ENGINE FAILURE ON TAKEOFF
(180-DEGREE TURN) AND OVERHEAD LANDING (360-DEGREE TURN)):

Risk Designation: Low

Best glide speed (V_G) from previous card:

Best angle of climb speed (V_X):

1. Near a suitable emergency airfield, and at or above 5,000 feet AGL, simulate an engine failure (carb heat, idle, prop high rpm/low pitch). Set V_G .
2. Set a bank angle and fly a 360-degree turn, noting altitude lost at 180 degrees.
3. Stop test at 1,500 AGL or higher. Perform turns at V_G to complete the table below:

Note Altitude Lost for Each

30-degree bank

45-degree bank

180-degree
heading change

360-degree
heading change

180-degree
heading change

360-degree
heading change