SunQuest Aviation Inc.

(561) 627-0037 Fax 627-0131
North County General Aviation Airport · West Palm Beach · Florida

Diamond DA40XSL

SPEEDS

Maximum Take-Off Weight .....2646 lbs
Maximum Landing Weight.....2535 lbs
Maneuvering Load Factor (Normal Category).....+3.8g/-1.52g
Maneuvering Load Factor (Utility Category).....+4.4g/-1.76g
V_A (2646 lbs) .....108 KIAS
V_{NE} .....178 KIAS
V_{NO} .....129 KIAS
V_{FE}.....91 (108 T/O) KIAS
V_Y (flaps T/O) .....66 KIAS
V_Y (flaps 0) .....66 KIAS
V_X (flaps T/O) .....66 KIAS
V_x (flaps 0) .....64 KIAS
V_R (flaps T/O) .....59 KIAS
V_{S1}.....52 KIAS
V_{S0}.....49 KIAS
V_{GLIDE}.....73 KIAS
Recommended Climb.....73 KIAS
Final Approach speed (Flaps up) .....75-80 KIAS
Final Approach speed (Flaps LDG).....75 KIAS
Final Approach speed (Short Field - Flaps 30).....70 KIAS
Max demonstrated X-wind component..... 20 KTS

Engine (Lycoming) IO-360 M1-A
Rated at (2550 RPM) ..... 180 H.P.
Oil Capacity (max)..... 8 qts
Oil Capacity (min)..... 6 qts
Total Fuel Capacity (2 tanks) ..... 51 gal
Total Usable Fuel ..... 50 gal
Useful Load .....846.0 lbs
Center of Gravity Range (1800- 2161 lbs) .....94.5” ~ 100.4”
(2646 lbs) ..... 97.6”~100.4”

WEIGHT & BALANCE	**(lbs) WEIGHT**	**(inches) ARM**	**(in·lbs) MOMENT**
Basic Empty Weight (867DS)	1800.00	97.55	175,590.00
Pilot & Passenger		90.6	
Rear Passengers		128.0	
Baggage Area - Forward		153.1	
Baggage Area - Aft		178.7	
Fuel (Max 50 gal - 300 lbs)		103.5	

Maneuvers	**DA40**
Utility Category	Lazy eights, Chandelles, Steep Turns, no more than 90deg bank. No Spins.
Normal Category	Lazy eights, Chandelles, Steep Turns, no more than 60deg bank. No Spins.