# FAA AIRPORT DESIGN CRITERIA FOR GILA BEND MUNICIPAL AIRPORT EXISTING CONFIGURATION

## AIRPORT DESIGN AIRPLANE AND AIRPORT DATA

Aircraft Approach Category B
Airplane Design Group II
Airplane wingspan . . . . . 78.99 feet
Primary runway end approach visibility minimums are visual exclusively
Other runway end approach visibility minimums are visual exclusively
Airplane undercarriage width (1.15 x main gear track) . . . . . 41.01 feet
Airport elevation . . . . . 781 feet

## RUNWAY AND TAXIWAY WIDTH AND CLEARANCE STANDARD DIMENSIONS

Runway centerline to parallel runway centerline simultaneous operations when wake turbulence is not treated as a factor:

VFR operations with no intervening taxiway . . . . . 700 feet
VFR operations with one intervening taxiway . . . . . 700 feet
VFR operations with two intervening taxiways . . . . . 700 feet
IFR approach and departure with approach to near threshold 2500 feet less
100 ft for each 500 ft of threshold stagger to a minimum of 1000 feet.

Runway centerline to parallel runway centerline simultaneous operations when wake turbulence is treated as a factor:

VFR operations . . . . . 2500 feet
IFR departures . . . . . 2500 feet
IFR approach and departure with approach to near threshold . . . . . 2500 feet
IFR approach and departure with approach to far threshold 2500 feet plus
100 feet for each 500 feet of threshold stagger.
IFR approaches . . . . . 3400 feet

Runway centerline to parallel taxiway/taxilane centerline . . . . . 239.5 240 feet
Runway centerline to edge of aircraft parking . . . . . 250.0 250 feet
Runway width . . . . . 75 feet
Runway shoulder width . . . . . 10 feet
Runway blast pad width . . . . . 95 feet
Runway blast pad length . . . . . 150 feet
Runway safety area width . . . . . 150 feet
Runway safety area length beyond each runway end or stopway end, whichever is greater . . . . . 300 feet
Runway object free area width . . . . . 500 feet
Runway object free area length beyond each runway end or stopway end, whichever is greater . . . . . 300 feet
Clearway width . . . . . 500 feet
Stopway width . . . . . 75 feet

Obstacle free zone (OFZ):

Runway OFZ width . . . . . 250 feet
Runway OFZ length beyond each runway end . . . . . 200 feet
Inner-approach OFZ width . . . . . 250 feet
Inner-approach OFZ length beyond approach light system . . . . . 200 feet
Inner-approach OFZ slope from 200 feet beyond threshold . . . . . 50:1

Inner-transitional OFZ slope . . . . . 0:1

Runway protection zone at the primary runway end:

Width 200 feet from runway end . . . . . 250 feet
Width 1200 feet from runway end . . . . . 450 feet
Length . . . . . 1000 feet

Runway protection zone at other runway end:

Width 200 feet from runway end . . . . . 250 feet
Width 1200 feet from runway end . . . . . 450 feet
Length . . . . . 1000 feet

Departure runway protection zone:

Width 200 feet from the far end of TORA . . . . . 500 feet
Width 1200 feet from the far end of TORA . . . . . 700 feet
Length . . . . . 1000 feet

Threshold surface at primary runway end:

Distance out from threshold to start of surface . . . . . 0 feet
Width of surface at start of trapezoidal section . . . . . 400 feet
Width of surface at end of trapezoidal section . . . . . 1000 feet
Length of trapezoidal section . . . . . 1500 feet
Length of rectangular section . . . . . 8500 feet
Slope of surface . . . . . 20:1

Threshold surface at other runway end:

Distance out from threshold to start of surface . . . . . 0 feet
Width of surface at start of trapezoidal section . . . . . 400 feet
Width of surface at end of trapezoidal section . . . . . 1000 feet
Length of trapezoidal section . . . . . 1500 feet
Length of rectangular section . . . . . 8500 feet
Slope of surface . . . . . 20:1

| | | |
|---|---|---|
| Taxiway centerline to parallel taxiway/taxilane centerline | 104.8 | 105 feet |
| Taxiway centerline to fixed or movable object | 65.3 | 65.5 feet |
| Taxilane centerline to parallel taxilane centerline | 96.9 | 97 feet |
| Taxilane centerline to fixed or movable object | 57.4 | 57.5 feet |
| Taxiway width | 56.1 | 56.1 feet |
| Taxiway shoulder width | | 10 feet |
| Taxiway safety area width | 79.0 | 79 feet |
| Taxiway object free area width | 130.6 | 131 feet |
| Taxilane object free area width | 114.8 | 115 feet |
| Taxiway edge safety margin | | 7.5 feet |
| Taxiway wingtip clearance | 25.8 | 26 feet |
| Taxilane wingtip clearance | 17.9 | 18 feet |

*REFERENCE: AC 150/5300-13, Airport Design, including Changes 1 through 4.*

# FAA AIRPORT DESIGN CRITERIA FOR GILA BEND MUNICIPAL AIRPORT ULTIMATE CONFIGURATION

## AIRPORT DESIGN AIRPLANE AND AIRPORT DATA

Aircraft Approach Category B
Airplane Design Group II
Airplane wingspan . . . . . 78.99 feet
Primary runway end approach visibility minimums are not lower than 1 mile
Other runway end approach visibility minimums are not lower than 1 mile
Airplane undercarriage width (1.15 x main gear track) . . . . . 41.01 feet
Airport elevation . . . . . 792 feet

## RUNWAY AND TAXIWAY WIDTH AND CLEARANCE STANDARD DIMENSIONS

Runway centerline to parallel runway centerline simultaneous operationswhen wake turbulence is not treated as a factor:

VFR operations with no intervening taxiway . . . . . 700 feet
VFR operations with one intervening taxiway . . . . . 700 feet
VFR operations with two intervening taxiways . . . . . 700 feet
IFR approach and departure with approach to near threshold 2500 feet less
100 ft for each 500 ft of threshold stagger to a minimum of 1000 feet.

Runway centerline to parallel runway centerline simultaneous operations when wake turbulence is treated as a factor:

VFR operations . . . . . 2500 feet
IFR departures . . . . . 2500 feet
IFR approach and departure with approach to near threshold . . . . . 2500 feet
IFR approach and departure with approach to far threshold 2500 feet plus
100 feet for each 500 feet of threshold stagger.
IFR approaches . . . . . 3400 feet

Runway centerline to parallel taxiway/taxilane centerline . . . . . 239.5 240 feet
Runway centerline to edge of aircraft parking . . . . . 250.0 250 feet
Runway width . . . . . 75 feet
Runway shoulder width . . . . . 10 feet
Runway blast pad width . . . . . 95 feet
Runway blast pad length . . . . . 150 feet
Runway safety area width . . . . . 150 feet
Runway safety area length beyond each runway end or stopway end, whichever is greater . . . . . 300 feet
Runway object free area width . . . . . 500 feet
Runway object free area length beyond each runway end or stopway end, whichever is greater . . . . . 300 feet
Clearway width . . . . . 500 feet
Stopway width . . . . . 75 feet

Obstacle free zone (OFZ):

Runway OFZ width . . . . . 400 feet
Runway OFZ length beyond each runway end . . . . . 200 feet
Inner-approach OFZ width . . . . . 400 feet
Inner-approach OFZ length beyond approach light system . . . . . 200 feet
Inner-approach OFZ slope from 200 feet beyond threshold . . . . . 50:1

Inner-transitional OFZ slope . . . . . 0:1

Runway protection zone at the primary runway end:

Width 200 feet from runway end . . . . . 500 feet
Width 1200 feet from runway end . . . . . 700 feet
Length . . . . . 1000 feet

Runway protection zone at other runway end:

Width 200 feet from runway end . . . . . 500 feet
Width 1200 feet from runway end . . . . . 700 feet
Length . . . . . 1000 feet

Departure runway protection zone:

Width 200 feet from the far end of TORA . . . . . 500 feet
Width 1200 feet from the far end of TORA . . . . . 700 feet
Length . . . . . 1000 feet

Threshold surface at primary runway end:

Distance out from threshold to start of surface . . . . . 0 feet
Width of surface at start of trapezoidal section . . . . . 400 feet
Width of surface at end of trapezoidal section . . . . . 1000 feet
Length of trapezoidal section . . . . . 1500 feet
Length of rectangular section . . . . . 8500 feet
Slope of surface . . . . . 20:1

Threshold surface at other runway end:

Distance out from threshold to start of surface . . . . . 0 feet
Width of surface at start of trapezoidal section . . . . . 400 feet
Width of surface at end of trapezoidal section . . . . . 1000 feet
Length of trapezoidal section . . . . . 1500 feet
Length of rectangular section . . . . . 8500 feet
Slope of surface . . . . . 20:1

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|---|---|---|
| Taxiway centerline to parallel taxiway/taxilane centerline | 104.8 | 105 feet |
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| Taxilane centerline to parallel taxilane centerline | 96.9 | 97 feet |
| Taxilane centerline to fixed or movable object | 57.4 | 57.5 feet |
| Taxiway width | 56.1 | 56.1 feet |
| Taxiway shoulder width | | 10 feet |
| Taxiway safety area width | 79.0 | 79 feet |
| Taxiway object free area width | 130.6 | 131 feet |
| Taxilane object free area width | 114.8 | 115 feet |
| Taxiway edge safety margin | | 7.5 feet |
| Taxiway wingtip clearance | 25.8 | 26 feet |
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*REFERENCE: AC 150/5300-13, Airport Design, including Changes 1 through 4.*