

United States of America  
Department of Transportation—Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA5938NM

*This certificate, issued to*

**Quiet Wing Corporation  
1715 114th Ave. SE, Suite 230  
Bellevue, WA 98004**

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the \* Regulations.*

\*(See page 3 of this STC for the Certification Basis.)

*Original Product—Type Certificate Number:*

A3WE

*Make:*

Boeing

*Model:*

All Models of 727, 727-100, 727C, 727-100C, 727-200,  
and 727-200F

*Description of the Type Design Change:* Installation of winglets, associated changes in flap and aileron positions and rigging, and related changes to the navigation beacons. The manufacturing and installation of the components is to be in accordance with the FAA approved VALSAN Master Drawing List 000007, Revision H, or subsequent FAA approved revisions.

*Limitations and Conditions:* The limitations and conditions of Type Certificate A3WE apply except as outlined in pages 3 and 4 of this STC. A copy of this STC must be included in the permanent records of each aircraft modified in accordance with this STC. Approval of this change in type design series applies to Boeing Model 727-100/200 model aircraft that are otherwise unmodified. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of the aircraft

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* May 26, 1988

*Date reissued:* 3/30/1995; 4/30/2002; 3/31/2003

*Date of issuance:* April 8, 1993

*Date amended:* 8/4/1993; 10/15/1993; 4/30/2002  
9/2/2003



*By direction of the Administrator*

(Signature)

Acting Manager, Seattle Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

United States of America  
Department of Transportation—Federal Aviation Administration  
**Supplemental Type Certificate**  
**(Continuation Sheet)**

*Number* SA5938NM

*Issued to:* Quiet Wing Corporation

*Date of Issuance:* April 8, 1993

*Date of Reissuance:* 3/30/1995; 4/30/2002; 3/31/2003

*Date Amended:* 4/30/2002; 9/2/2003

*Limitations and Conditions: (cont'd)*

Airspeed

Limits: See FAA approved VALSAN Airplane Flight Manual Supplement (See Note 2)

C. G.

Range: See FAA approved VALSAN Flight Manual Supplement (See Note 2)

Maximum

Weights: See FAA approved VALSAN Flight Manual Supplement (See Note 2)

Eligible

Serial

Numbers:

All Boeing Model 727, 727-100, 727C, 727-200 and 727-200F Serial Numbers shown on 727 Type Certificate Data Sheet A3WE. FAA approval of a particular serial number is indicated by an FAA approved VALSAN or Winglet Systems, Inc. (WSI) Airplane Flight Manual (AFM) Supplements, VA-CR120W-XXXX, VA-CR120REW-XXX, WSI100W-XXX, WSI100REW-XXX, WSI200W-XXX, or WSI200REW-XXX. The XXXX dash number identifies the appropriate 727 series number, and the supplement will list the effective serial numbers for that series. Example: VA-CR120W-0225 approves 727-225 series aircraft.

Information:

The following VALSAN supplements are applicable and essential to the Boeing Model 727-100/200 modified in accordance with this STC:

Maintenance Manual Supplement VA-CR130W-4  
Structural Repair Manual Supplement VA-CR130W-6  
Supplemental Structural Inspection Document VA-CR281W  
Maintenance Program VA-CR130W-7.

Certification

Basis:

For unmodified systems and structures, the same as shown on Type Certificate Data Sheet A3WE for the Model 727-100/200. For new or extensively modified systems structures, the same as shown on Type Certificate Data Sheet A3WE for the 727-100/200 except the following additional rules apply:

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*Limitations and Conditions: (cont'd)*

FEDERAL AVIATION REGULATION PART 25 – AIRWORTHINESS STANDARDS:

TRANSPORT CATEGORY AIRPLANES, effective 2-1-65, as amended by amendments 25-1 through 25-64, effective 5-17-88 except for the following sections which are limited to showing compliance for the amendments indicated:

Section 25.25, Weight Limits – AMENDMENT 25-63

Section 25.305 (d) & APPENDIX G – AMENDMENT 25-54

Section 25.571 (a), (b), (c) and (d) AMENDMENT 25-54

Section 25.1529 & APPENDIX H – AMENDMENT 25-54

- Note 1: A current VALSAN Weight and Balance Manual Supplement to the Boeing Weight and Balance Manual D6-21200, including a list of equipment included in the certified empty weight and loading instructions, must be in each aircraft at the time of original certification and at all times thereafter, except in the case of operators having an approved weight control system
- Note 2: Model 727-100/200 airplane operation must be in accordance with the FAA approved VALSAN or WSI Airplane Flight Manual Supplements, VA-CR120W-XXXX, VA-CR120REW-XXX, WSI100W-XXX, WSI100REW-XXX, WSI200W-XXX and WSI200REW-XXX. All placards required in either the FAA approved AFM Supplement, the applicable operating rules or the certification basis must be installed in the airplane.
- Note 3: Following modification, aircraft with this modification still meet Stage 2 Noise Requirements.

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