

Number: CTSO-C28 Date of approval: Jun 4, 2019 Approved by: Xu Chaoqun

China Civil Aviation Technical Standard Order

This China Civil Aviation Technical Standard Order (CTSO) is issued according to Part 37 of the China Civil Aviation Regulations (CCAR-37). Each CTSO is a criterion which the concerned aeronautical materials, parts or appliances used on civil aircraft must comply with when it is presented for airworthiness certification.

Aircraft Skis

1. Purpose.

This China Civil Aviation Technical Standard Order (CTSO) is for manufacturers applying for aircraft skis CTSO authorization (CTSOA). This CTSO prescribes the minimum performance standards (MPS) that aircraft skis must first meet for approval and use the applicable CTSO mark for identification.

2. Applicability.

This CTSO affects new application submitted after its effective date. Major design changes to article approved under this CTSO will require a new authorization in accordance with section 21.353 of CCAR-21-R4.

3. Requirements.

New models of aircraft skis identified and manufactured on or after

CAAC CTSO-C28 the effective date of this CTSO must meet the strength and performance requirements for skis as set forth in Sections 4 and 5 of National Aircraft Standards Specification NAS 808 dated December 15, 1951. This CTSO's standards apply to the aircraft skis intended for use on all civil aircraft, and the strength requirements are conservative for rotorcraft ski installation.

a. Deviations. For using alternative or equivalent means of compliance to the criteria in this CTSO, the applicant must show that the equipment maintains an equivalent level of safety. Apply for a deviation under the provision of 21.368(a) in CCAR-21-R4.

4. Marking.

a. Mark at least one major component permanently and legibly with all the information of 21.423(b) in CCAR-21-R4.

b. The label also must include the information required in Section 3.6 of Specification NAS 808, except that "NAS Specification No. 808" and "For Installation Geometry, see Ski Installation Drawing No.___" are not required. For skis approved as part of the aircraft design, no identification other than the aircraft manufacturer's part or drawing number is required.

5. Application Data Requirements.

The applicant must furnish the responsible certification personnel

- 2 -

CAAC CTSO-C28 with the related data to support design and production approval. The application data include a statement of conformance as specified in section 21.353(a) (1) in CCAR-21-R4 and one copy each of the following technical data:

a. Operating instructions and equipment limitations, sufficient to describe the equipment's operational capability. Describe any deviations in detail.

b. Installation procedures and limitations, sufficient to ensure that the aircraft skis, when installed according to the installation procedures, still meets this CTSO's requirements. The limitations must identify any unique aspects of the installation. Finally, the limitations also must include a note with the following statement:

"This article meets the minimum performance and quality control standards required by a CTSO. Installation of this article requires separate approval."

c. Schematic drawings of the installation procedures.

d. List of replaceable components, by part number, that makes up the aircraft skis. You should include vendor part number cross-references, when applicable.

e. A component maintenance manual (CMM), covering periodic maintenance, calibration, and repair, for the continued airworthiness of the installed aircraft skis. Include recommended inspection intervals, and

- 3 -

CAAC CTSO-C28 service life. Describe the details of deviations granted, as noted in paragraph 5.a of this CTSO.

f. Material and process specifications list.

g. The quality control system description required by 21.358 in CCAR-21-R4, including functional test specifications. The quality system should ensure that it will detect any change to the approved design that could adversely affect compliance with the CTSO MPS, and reject the article accordingly.

h. Manufacturer's CTSO qualification test report showing results of testing accomplished according to paragraph 3 of this CTSO.

i. A drawing depicting how the article will be marked with the information required by paragraph 4 of this CTSO.

j. List of all drawings and processes (including revision level) that define the article's design. For a minor change, follow the directions in 21.369 of CCAR-21-R4. Show any revisions to the drawing list only on CAAC request.

6. Manufacturer Data Requirements.

Besides the data given directly to the authorities, have the following technical data available for review by the authorities:

a. The functional qualification specifications for qualifying each production article to ensure compliance with this CTSO.

- 4 -

CAAC	CTSO-C28

b. Equipment calibration procedures.

c. Corrective maintenance procedures within 12 months after CTSO authorization.

d. Schematic drawings.

e. Material and process specifications.

7. Furnished Data Requirements.

If furnishing one or more articles manufactured under this CTSO to one entity (such as an operator or repair station), provide one copy of the technical data and information in paragraph 5.a through 5.e of this CTSO. Add any other data or information necessary for the proper installation, certification, and use, or for continued airworthiness, or both, of the aircraft skis.

8. Availability of Referenced Documents.

a. Order NAS documents from:

American Aeronautical Forum, 527 Washington Loan and Trust Building, Washington 4, D.C.

You may also order them online from https://www.aia-aerospace.org.