

COMMONWEALTH AIRCRAFT CORPORATION PTY. LTD.

Order No. - 29/3/46  
Amended - Change "A"  
Issued - July, 1942.

Specification No.  
CA.233B.

Specification for

ALUMINIUM - MANGANESE EXTRUDED BARS AND SECTIONS.

This specification shall be considered to be satisfied by:

Australian Emergency Standard  
Specification .. .. . (E)D.643-1942

except as amended by the requirements of clause 2 below -

SPECIAL REQUIREMENTS.

(a) CONDITION.

The material shall be supplied in the "as fabricated" condition.

(b) FORGINGS.

This material may be specified for forgings in which case they shall be supplied in the "as forged" condition. The physical property requirements of clause 2 (b) below will not be applicable.

(c) SELECTION AND PREPARATION OF TEST SAMPLES.

One test sample shall be selected from each parcel and prepared in accordance with the requirements of clauses 15(d) and 3(c) of specification D.T.D. 364A ( (E)D.624-1940 ).

(d) TENSILE TEST.

Test pieces selected and prepared as above shall comply with the following requirements:

Ultimate Tensile Stress	18,000 lb/sq.in. (min)
0.2% Proof Stress	15,000 lb/sq.in. (min)
Elongation on 2 in. or $4\sqrt{A}$ "	15% (min)

(Cont'd.)



3. SIMILAR SPECIFICATIONS.

The following specifications (alloy, type or schedule numbers) are listed for information only and shall not be construed as acceptable alternatives unless all the requirements of the above specification are met and/or the numbers listed are shown on the relevant drawings.

- A.A. 3SE; Alcoa 3SE; S.A.E. 29; P.W.A. 159;
- U.S. Federal QQ-A-356 Condition F.

NOTE: Where drawings call up CA.233-2, material in the "as fabricated" condition complying with the requirements of this specification (CA.233B) will be satisfactory. In due course, reference to dash numbers will be deleted from drawings.

(min) 15,000 lb./sq. in.      15,000 lb./sq. in.      15,000 lb./sq. in.

(min) 15,000 lb./sq. in.      15,000 lb./sq. in.      15,000 lb./sq. in.

(min) 15,000 lb./sq. in.      15,000 lb./sq. in.      15,000 lb./sq. in.

(cont'd)