

A.S. No. C. 305—1949

Australian Standard Specification

for

**Wooden Separators for
Lead-acid Accumulators**



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The following government departments and scientific and industrial organisations were officially represented on the committees entrusted with the preparation of this standard:

Commonwealth Scientific and Industrial Research
Organisation.

Postmaster General's Department.

Australian and New Zealand Railways Conference.

Chamber of Manufacturers.

Electricity Supply Association.

Institution of Automotive and Aeronautical Engineers.

This specification, prepared by the Committee on accumulators of the Association's Electrical Industry Committee, was approved on behalf of Council on 6 October 1949.

NOTE

In order to keep abreast of progress in the industries concerned, Australian standards are subject to periodical review. Suggestions for improvement, addressed to the Headquarters of the Association, will be welcomed.

This specification is intended to include the technical provisions necessary for the supply of the material herein referred to, but does not purport to comprise all the necessary provisions of a contract.

TECHNICAL STANDARD

No. C. 305—1949

INCORPORATING
AUSTRALIAN COMMONWEALTH ENGINEERING STANDARDS ASSOCIATION, FOUNDED 1922
AUSTRALIAN COMMONWEALTH ASSOCIATION OF SIMPLIFIED PRACTICE, FOUNDED 1927
AMALGAMATED 1929

STANDARDS ASSOCIATION OF AUSTRALIA

ESTABLISHED UNDER THE AEGIS
OF THE COMMONWEALTH AND
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PROMOTION OF STANDARDISATION
AND SIMPLIFIED PRACTICE

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PUBLISHED BY THE ASSOCIATION
SCIENCE HOUSE, GLOUCESTER AND ESSEX STREETS, SYDNEY



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PREFACE

The request for specifications covering wooden separators came during the war from departments of the Commonwealth Government for use in relation to the supply of materials required for defence purposes, and subsequently two emergency standard specifications, Nos. (E)D.1504-1943 and (E)D.3003-1943, were issued.

The C.S.I.R. Division of Forest Products had taken a keen interest in this project, and followed it up after the war by submitting a completely new draft which was subsequently expanded to cover separators for all types of accumulators.

It will be noted that this specification applies to separators manufactured from Australian and New Guinea timber only, and no attempt has been made to provide for separators made from timber of overseas origin. Port Orford Cedar, for example, is acknowledged as the best timber for separators and, if available, would be used in preference to the local materials. The performance requirements of the specification could, however, be applied to separators of any timber, as the values of electrical resistance and manganese content are the maximum permissible for the relevant accumulator, regardless of the type of separator.

AUSTRALIAN STANDARD SPECIFICATION

FOR

WOODEN SEPARATORS FOR LEAD-ACID ACCUMULATORS

SECTION 1. SCOPE AND DEFINITIONS

1-1. **Scope.** This specification applies to separator veneers and separators of timber of Australian and New Guinea origin for use in lead-acid accumulators. Separator veneers shall comply with the requirements of Section 2 of this specification. Manufactured separators shall comply with the requirements of Section 3 of this specification.

1-2. **Definitions.** The terms used in this specification shall be interpreted in accordance with A.S. No. O.1, Terms and Definitions used in Timber Grading Rules, and with the following additional definitions:

(a) *Birdseye.* "Birdseye" shall mean a conical depression in the growth rings which, on a back cut surface, appears as a small marking of nearly circular outline resembling an eye.

(b) *Open Side.* The "open side" of a veneer shall mean the surface which curves convexly away from a bevelled or wedge-shaped knife used for slicing and which tends to develop small ruptures.

(c) *Tightly Cut.* "Tightly Cut" veneer shall mean veneer in which no checks are visible when the veneer is flexed across the grain so that either face is convex.

(d) *Nominal Thickness.* The "nominal thickness" of a separator shall mean the thickness of the ribs as specified by the purchaser.

SECTION 2. SEPARATOR VENEERS

2-1. **Timber¹.** The timber from which the veneers are cut shall be one of the following:

Bunya pine		<i>Araucaria bidwilli</i> Hook.
Hoop pine		<i>Araucaria cunninghamii</i> Ait.
North Queensland kauri		<i>Agathis palmerstoni</i> F.V.M.
		<i>Agathis microstachya</i> J. F. Bailey and C. T. White.

NOTE: The trade and botanical names given above are in accordance with A.S. No. O.2. Nomenclature of Australian Timbers.

¹Klinki pine (*Araucaria klinkii* Lauterb.) is under consideration for use as a separator veneer, and will be added to the specification if approved.