



**LAA TYPE ACCEPTANCE DATA SHEET
TADS P27
HORDERN RICHMOND**

Issue 1	Initial issue	Dated 05/03/21	JP
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This TADS is intended as a summary of available information about the propeller type and should be used during the overhaul, operation and permit revalidation phases to help owners and inspectors. Although it is hoped that this document is as complete a summary as possible, other sources contain more complete information, e.g. the manufacturer's website.

Section 1 contains general information about the propeller type and its variants.

Section 2 contains information about the propeller type that the LAA considers **mandatory** and must be complied with.

Section 3 contains advisory information that owners and inspectors should review to help them maintain the propeller in an airworthy condition. If due consideration and circumstances suggest that compliance with the requirements in this section can safely be deferred, is not required or not applicable, then this is a permitted judgement call. This section also provides a useful repository for advisory information gathered through defect reports and experience.

Section 1 Introduction

1.1 Contact Information

UK Contact: Hordern Richmond

Address: Canal Iron Works
Hope Mills
London Road
Stroud
Gloucestershire
GL5 2SH

Tel: 01453 885 853
Email: hello@hordernrichmond.com
Website: www.hordernrichmond.com

Manufacturer contact information:

Address: As above
Tel: As above
Email: As above
Website: As above

1.2 Description

English made wooden propeller from a company dating back to 1937. Although the company effectively closed in the 1990s, in 2014, Hercules Propellers Ltd acquired Hordern Richmond Aircraft Ltd. Both companies are located at the Hercules Propeller Ltd premises in Stroud, Gloucestershire.

Hordern Richmond invented a form of compressed resin impregnated wood called 'Hydulignum'. Being stiff and strong, yet relatively light, Hydulignum proved perfect for the construction of aircraft propellers. The company provided many of the propellers for fighters and bombers during World War II.



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Hordern Richmond propellers are found on a number of LAA administered types, including Aeronca 100, Auster (various models), Chrislea Super Ace, Cosmic Wind, DH Hornet Moth, DH Tiger Moth, Druine Condor, Jodel D9, Rollason Beta, Taylorcraft Plus D, Topsy Belfair and Topsy trainer.

Section 2 Mandatory information for owners, operators and inspectors

At all times, responsibility for the maintenance and airworthiness of an aircraft (including the propeller) rests with the owner. A condition stated on a Permit to Fly requires that: *"the aircraft shall be maintained in an airworthy condition"*.

2.1 Lifed Items

No type-specific information, refer to manufacturer's information wherever possible.

2.2 Operator's Manuals

Where possible, the manuals describing setup, operation and maintenance procedures for the propeller should be obtained from the manufacturer or importer and retained with the aircraft's records.

2.3 Maintenance Schedule

Standard maintenance procedures for wooden propellers apply and refer to specific manufacturer's information wherever possible.

Propellers fitted to LAA administered aircraft that are maintained either in accordance with the manufacturer's maintenance schedule, the CAA Light Aircraft Maintenance Schedule (LAMS) [CAP 411](#) or the LAA Generic Maintenance Schedule, further details of which can be found in LAA Technical Leaflet [TL 2.19: The LAA Generic Maintenance Schedule](#). Note: The CAA and LAA produced maintenance schedules were originally written around the maintenance requirements of aircraft fitted with traditional aircraft engines and propellers.

Some aircraft may have mandated maintenance requirements and/or schedules which are stated on the aircraft's Operating Limitations document and these must be followed.

More information on maintenance schedules can be found in the [Aircraft Maintenance](#) section of the LAA website.

2.4 Airworthiness Directives

There is one AD that affects Hordern Richmond wooden fixed pitch propellers:

<i>Reference ID</i>	<i>Dated</i>	<i>Description</i>
CAA AD 2219 PRE 80	30 Nov 09	Issues with protecting sheathing

Check [CAA CAP 747](#) for amendments to the above or additional Airworthiness Directives.



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2.5 Mandatory Permit Directives

No type-specific MPDs at this time.

Check CAA [CAP 661](#) which lists MPDs issued before 31 January 2012 and is no longer being updated.

The CAA now provides links to MPDs issued after 31 January 2012 on the [CAA MPD Listing](#) page of their website.

The LAA website should be checked for MPDs that are non-type specific in LAA Technical Leaflet [TL 2.22: Non-Type Specific MPDs](#).

2.6 CAA Mandatory Requirements for Airworthiness CAP747 and Civil Aircraft Airworthiness Information and Procedures (CAAIP) CAP562

<i>Reference ID</i>	<i>Dated</i>	<i>Description</i>
CAA AD 2219 PRE 80	30 Nov 09	Issues with protecting sheathing

CAA publications [CAP 747](#) and [CAP 562](#) contain information that may be relevant to LAA administered aircraft and should be checked for applicability.

2.7 LAA Required Modifications (including LAA issued AILs, SBs, etc)

No type-specific required modifications at this time.

2.8 Operating Limitations to be Placarded or Shown by Instrument Markings

The Operating Limitations document for the aircraft will specify aircraft and powerplant limitations for that particular aircraft. Where a propeller is being fitted in accordance with a Propeller Type List ([PTL/1](#)), any limitations proscribed by the relevant [PTL/1](#) document must be adhered to.

Notes:

- Refer to the propeller manufacturer's latest documentation for the definitive parameter values and recommended placards.
- Data stated on the aircraft's Operating Limitations document must be displayed by means of cockpit placards or instrument markings.

Section 3 Advice to owners, operators and inspectors

3.1 General

Where possible, the manuals describing setup, operation and maintenance procedures for the propeller should be obtained from the manufacturer or importer and retained with the aircraft's records.



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3.2 Standard Options

There are no Standard Options for any propellers fitted to LAA administered aircraft at this time.

3.3 Manufacturer's Information (including Service Bulletins, Service Letters, etc)

In the absence of any over-riding LAA classification, inspections and modifications published in the manufacturer's continuing airworthiness data should be satisfied according to the recommendations therein. It is the owner's responsibility to be aware of and supply such information to their inspector.

3.4 Special Inspection Points

None

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Please report any errors or omissions to LAA Engineering: engineering@laa.uk.com