



Information Kit on Testing Timber Finishes

Introduction

Furntech is the only laboratory in Australasia certified to test timber finishes to the European standards that have been widely adopted in Australia and New Zealand. AFRDI Standard 138 - 00 – *Durability of timber finishes for domestic furniture* was developed in consultation with timber finish suppliers to align performance requirements in the various standards with a range of end uses.

AFRDI 138 has been adopted by the FIAA Furnishing Quality Program as the prequalification standard for timber finishes used on domestic furniture items.

Prices quoted are per sample. Information on Furntech membership is available from the Institute and our website.

Furnishing Quality Program Suite of Tests

AFRDI 138 covers resistance to mechanical damage (scrape, cross cut and impact from dropped ball bearing), resistance to cold liquids and resistance to wet and dry heat.

For testing to the required suite of tests in AFRDI 138:

Minimum sample size: 400 mm x 300 mm (substantially flat) - can be in two pieces 200 mm x 300 mm.

Ageing: Not less than 4 weeks at a temperature not less than 15°C and not more than 30°C with free access to air.

Other test options are set out at the end of this Information Kit.

Published by Furntech-AFRDI, the Australasian Furnishing Research and Development Institute, an independent not-for-profit technical organisation serving furniture buyers and sellers in Australia and New Zealand.

T: (03) 6326 6155 **F:** (03) 6326 3090 **E:** info@furntech.org.au

Information Required

Please complete the attached Testing Request form and include with it details of the preparation of the sample including the trade names of each coat and the treatment (curing time, sanding time, grain of sandpaper, etc.) given between each coat.

Each sample should be clearly identified on the reverse face with the description used on the Testing Request form.

Refer to the Institute's [Information Kit on Freight to Furntech-AFRDI](#). Distribution of this Kit in hardcopy form will include the freight-related information as a supplementary sheet.

Payment

Furntech policy is that **PAYMENT MUST BE MADE BEFORE TESTING COMMENCES**. Please phone 03-6326 6155 to request an invoice if this will help to facilitate payment.

Facilities are available for payment by Visa and MasterCard.

Queries

If you have any problems with any of this please phone Furntech on 03 6326 6155.

Other Test Options

In addition to the suite of tests in AFRDI 138, the Institute offers testing to specific British and European standards.

BS 3962 Part 6 - Resistance to mechanical damage

Minimum sample size: 400 mm x 100 mm x 10 mm (substantially flat)
If the panel surface has a grain pattern, the 400 mm dimension shall be across the grain.

Ageing: Allow final coat to age for at least 28 days at a minimum of 15°C with free access to air.

BS EN 12720 - Surface resistance to cold liquids

Minimum sample size: 400 mm x 300 mm (substantially flat) - can be in two pieces 200 mm x 300 mm.

Ageing: Not less than 4 weeks at a temperature not less than 15°C and not more than 30°C with free access to air.

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- Other:
1. The exposure time to the test liquids is to be agreed upon. Select from:
 - 10 seconds;
 - 2 or 10 minutes;
 - 1, 6, 16 or 24 hours;
 - 7 or 28 days; or
 - other by agreement

NOTE:

2. Other test liquids can be used by agreement. The most common test requirement is for a one-hour exposure to acetone, methylated spirits, turpentine, beetroot juice, coffee, bleach, black marking pen (water based) and light machine oil.

BS EN 12721 - Surface resistance to wet heat

- Minimum sample size: 150 mm x 150 mm (substantially flat) per exposure.
- Ageing: Not less than 4 weeks at a temperature not less than 15° C and not more than 30°C with free access to air.
- Temperature: Select from 55, 70, 85 or 100°C.
- NOTE: The most common test requirement is for exposure to 55°C and 85°C (these are the change points in the values listed in AFRDI 138).

BS EN 12722 - Surface resistance to dry heat

- Minimum sample size: 150 mm x 150 mm (substantially flat) per exposure.
- Ageing: Not less than 4 weeks at a temperature not less than 15°C and not more than 30°C with free access to air.
- Temperature: Select from 55, 70, 85, 100, 120, 140, 160, 180 or 200°C.
- NOTE: The most common test requirement is for exposure to 100°C and 160°C.

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Testing Request – Timber Finishes

Please complete for **each model** to be tested and **fax (03 6326 3090)** or **email** (info@furntech.org.au) one copy and attach another to the sample before dispatch.

All fields must be completed.

ORGANISATION:

PRIMARY CONTACT: (*Who do we contact during testing?*)

STREET ADDRESS:

.....P/CODE:.....

TEL: FAX:.....

WEB:.....

EMAIL:..... ABN:.....

FACTORY NAME:.....

FACTORY ADDRESS:

.....COUNTRY:.....P/CODE:.....

TESTS REQUIRED:

SUITE *or*

MECHANICAL

COLD LIQUIDS SPECIFY LIQUIDS AND TIMES

WET HEAT SPECIFY TEMPERATURE

DRY HEAT SPECIFY TEMPERATURE

Product Description

MODEL NAME/NUMBER: (**PRINT** the name you wish to appear on the certificate)

.....

PROTOTYPE* PRODUCTION SAMPLE

***NOTE: No certificate will be issued for a prototype, and it therefore will not appear on the Furntech-AFRDI Webpage. After prototype testing, a further *production sample* will need to be submitted for full testing at *additional cost* before the product is certified.**

Authorisations and Declaration

I warrant and declare that the information provided is accurate in every detail.

I authorise Furntech-AFRDI or its agents to carry out tests at the quoted price.

Signature of authorised officer:

Name: (**PRINT**)

.....Date:.....

Test sample(s) will not normally be returned. If you do want them returned, please indicate here (note extra freight charges will apply):

YES

Any significant issues pending/impending with product (e.g. field failures, claims, recalls)?

YES (if yes, please attach summary) NO

OPTIONAL: Should the product(s) described above be certified by Furntech-AFRDI, I authorise Furntech-AFRDI to list the compliance certificate on its website.

YES NO

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