



ENGINEERING MATERIAL SPECIFICATION

Material Name	File Control No.	Specification Number
FINISHED WOODEN INTERIOR SEAT SLATS	SMT5011GE6450	ESD-M11G21-A

1. SCOPE

The material defined by this specification is a lacquered first quality Ramin wood.

2. APPLICATION

This material is generally used in the manufacture of slatted seats.

3. REQUIREMENTS

3.1 PRESERVATIVE

If a preservative is used then clearance must first be obtained from the Toxicology Department, Materials Engineering, Dunton.

3.2 CONDITION PRIOR TO TESTING

Samples shall be conditioned for 48 h minimum at 50 +/- 5 % RH and 23 +/- 2 C prior to test and tested under the same conditions.

(Where the dimensions quoted in Test Methods cannot be achieved, then the tests shall be conducted on 100 mm sections of slat. Unless otherwise stated tests to be made on wood without preservative or surface finish).

3.3 APPEARANCE

The wood shall have a straight evenly spaced grain, free from knots, shakes, splits, discolouration or other unsightly or harmful defects.

3.4	MOISTURE CONTENT, max (ASTM D 2016-74 Method A)	12 %
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3.5	WATER SWELL, max (FLTM EU-BS 51-1)	7,5 %
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3.6	WATER ABSORPTION, max (FLTM EU-BS 51-1)	25 %
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3.7	DENSITY (FLTM EU-BS 50-2)	0,64 - 0,8
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Date	Release No.	Release/Revision
1991 06 28	C01089486	Revised clause 3.9.2 N J Komatsu
1989 07 31	B/031526TC	Retyped minor changes, was 6 sheets
1985 08 05	SM/ER2392TC	Released

WP 3948-a

Page 1 of 3

9009160 0036620 283



3.8 HUMIDITY EXPOSURE

After 120 h at 38 +/- 2 C, 98 +/- 2 % relative humidity the material shall show no evidence of swelling or other harmful deterioration. Slight discolouration allowed.

3.9 FINISHED SURFACE PROPERTIES

3.9.1 Appearance

Colour and finish shall match the Initial Master Appearance Sample (kept in Materials Laboratory).

3.9.2 Abrasion Resistance, cycles 250 (FLTM EU-BN 8-2, 5 N weight force, CS10 wheels)

After test there should be no exposure of the underlying wood.

3.9.3 Weather Resistance, cycles 3 (FLTM EU-BO 15-1)

Coatings shall not crack, split or blister during this test.

3.9.4 Humidity Resistance

After 120 h at 38 +/- 2 C, 98 +/- 2 % RH, there shall be no blooming which is not removable by gentle wiping.

3.9.5 Mould Growth weight loss less than 30 % (ASTM D 2017)

3.9.6 Odour, max rating 2 (BO 131-1)

3.9.7 Flammability

Max Burn rate 100 mm/minute
(ISO3795)

3.10 STATISTICAL PROCESS

Suppliers must conform to the requirements of Ford Quality System Standard Q-101. A mutually acceptable Control Plan as described therein is required for material/source approval. Appropriate statistical tools must be used to analyze process/product data so that variation in the final product is continuously reduced.