



ENGINEERING MATERIAL SPECIFICATION

Material Name	File Control No.	Specification Number
PAINTED PLYWOOD, INTERIOR	SMT5011GE5320	SK-M11G9100-A
	SMT5011GE5321 DELTA	SK-M11G9100-B

1. SCOPE

The material defined by this specification is a painted interior grade plywood.

2. APPLICATION

This specification was released originally for material used as a false floor and bulkhead in load compartments and/or as specified on Engineering Drawings.

3. REQUIREMENTS

In addition to the requirements quoted herein, the material defined by this specification must conform in all respects to one of the following standards:-

BS 1455 MR Grade 1 Veneer
DIN 68705 - IW-67 Grade I, sheets 1 and 2
UNE 56.702 H2.09
UNE 56.704 Grade A
UNE 56.705 H1

NOTE: The material must be conditioned for a minimum of 24 h at 23 +/- 2 C and 50 +/- 5 % relative humidity prior to test and tested under the same conditions.

Alternative compositions and constructions may be used provided that they meet:-

- Design Appearance requirements
- Component Engineering functional and feasibility test requirements.
- Laboratory tests quoted in the relevant materials specification.

Approval for the use of such alternative compositions and constructions must be obtained in writing from the Component Engineering and Materials Laboratory areas of Product Engineering.

Engineering approved constructions shall be indicated on all relevant Quality Control documents.

Date	Release No.	Release/Revision
1989 07 31	B/031526TC	Retyped minor changes was 11 sheets
1977 09 23	SM/ER1134TC	Released

WP 3948-a

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3.1 DIMENSIONS

As specified on Engineering Drawings

3.2 THICKNESS, mm 15,0 +/- 0,5
(FLTM EU-BS 50-2)

Or as specified on Engineering Drawings

3.3 NUMBER OF PLIES 7

3.4 CONSTRUCTION, mm

Exterior 2 of 1,5 +/- 0,5

Intermediate 3 of 3,0 +/- 0,5

Remaining 2 of 2,0 +/- 0,5

3.5 COMPOSITION

Face Veneer Limba or Meranti

3.6 DENSITY, min
(EU-BS 50-2)

Based on oven dry weight and original volume 0,45

3.7 MODULUS OF RUPTURE N/mm², min
(BS 4512)

With surface grain 35

Across surface grain 35

3.8 MODULUS OF ELASTICITY, N/mm² min
(BS 4512)

With surface grain , 6 000

Across surface grain 4 250

3.9 PANEL IMPACT mm, min
(BS 4512)

1500

3.10 BULKHEAD FLEXING

When required by the relevant Engineering drawing the finished part shall withstand a centrally applied load of 3500 N without rupture.

3.11 DIMENSIONAL AND DISTORTIONAL STABILITY

After conditioning in accordance with clause 3.12.8 (heat ageing) and clause 3.12.11 (environmental cycling) finished parts shall show no visible evidence of shrinkage distortion or ply delamination.



3.12 PAINTED SURFACE PROPERTIES

3.12.1 Appearance

Colour, gloss and finish shall match the Master Appearance Sample as released by the Design Department.

- 3.12.2 Abrasion Resistance, cycles 500
FLTM EU-BN 8-2,
(10 N weight forces, CS 10 wheels)

After test the specimens must not show any greater signs of deterioration than the Master Sample approved by the Materials Laboratory, Product Engineering.

- 3.12.3 Scuffing Resistance, cycles 500
(FLTM EU-BN 8-4, 9 N weight force, Head A)

After test the specimen must not show any greater signs of deterioration than the Master Sample approved by the Materials Laboratory, Product Engineering.

- 3.12.4 Fastness to Rubbing (Crocking)
(FLTM EU-BN 7-1)

Dry	Rating 5
Wet	Rating 5

- 3.12.5 Fastness To Light 120 SFH Rating 5

The material must not show any fading when compared with AATCC Gray Scale. It shall further show no change in colour tone, gloss or evidence of spotting and it shall be equal to or better than the Master Sample approved by the Materials Laboratory, Product Engineering.

- 3.12.6 H2S Staining
(FLTM EU-AN 2-1) No discolouration or staining

- 3.12.7 Resistance to Ageing and Migration Staining
(FLTM EU-BN 3-1)

After test the specimens must not show any surface deterioration, change in colour tone (hue) or any other defects and they must be better than or equivalent to the Master Sample approved by the Materials Laboratory, Product Engineering.