

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS D-7135
		Former Designation: TMS-7135
TITLE:	Plywood and Wood Fiber Sheet Products	CURRENT REV No.: 1606
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<i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i>		

1.0 APPLICATION

This specification covers plywood material used in school bus floor systems, seat supports, sleeper bunks and other applications.

1.1 Type 1 – Standard School Bus flooring/underlayment – B-C, exterior grade adhesive.

1.2 Type 2 – Optional School Bus - Marine Grade plywood.

1.3 Type 3 – Fungus-rot resistant plywood for School Bus floor – Reserved.

1.4 Type 4 – Sleeper bunk support – Medium Density Overlay (MDO).

1.5 Type 5 – School Bus seat support-base – plywood

1.6 Type 6 – Optional School Bus - Phenolic coated birch plywood.

1.7 Type 7 – Veneered and treated medium density fiberboard (MDF) variant for interior trim applications.

1.8 Type 8 – An MDF similar to Type 7 but with no veneer.

1.9 Type 9 – School Bus seat support-base – oriented strand board (OSB)

1.10 Type 10 – Sleeper bunk support – phenolic coated birch plywood.

2.0 SCOPE

This specification covers the general requirements, property and performance requirements, quality, quality control requirements, source approval and quality control.

2.1 Restricted Chemical Substances

Effective January 1, 2007, all product supplied to the requirements of this specification must comply with the requirements of the MPAPS B-50 specification.

3.0 REFERENCE DOCUMENTS

Unless otherwise specified, the latest issue of all referenced standards shall apply. The following Specifications, Standards, and Regulations are referenced in this specification.

Quality System Standard ISO 9001 or TS-16949	ASTM B 117	FMVSS 302
NAVISTAR MPAPS B-50	ASTM D 1002	MPAPS P-9543
NAVISTAR Manufacturing Standard MS-D-13	ASTM D 2395	MPAPS P-9544
CFR Title 29, Part 1910	ASTM D 3163	AWPA C1 *
CFR Title 49, Part 571.302	ASTM G 154	AWPA C9 *
AATCC Method 30	MPAPS DT-12	NIST PS-1 **
MPAPS K-6931	SAE J2334	AWPA E12-94*
NIST PS-2 **		

* AWPA - American Wood-Preservers' Association

** NIST - National Institute of Standards and Technology

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4.0 REQUIREMENTS

4.1 Material Requirements

Table 1 lists the material requirements.

4.1.1 Plywood: Type 1, 5, and 6

Plywood shall conform to NIST PS-1, B-C panel grade, exterior plywood.

4.1.2 Plywood: Type 2

Plywood shall conform to NIST PS-1, B-B panel grade, exterior plywood.

4.1.3 MDF: Type 7 and 8

A proprietary exterior treated MDF type product. General requirements shall be the same as commercial MDF with further moisture and rot resistance.

4.1.4 OSB: Type 9

OSB shall conform to NIST PS-2.

4.1.5 Pressure Treatment of Plywood: Type 3

Pressure treatment shall conform to requirements of AWWA Standard C1 and C9-Plywood.

4.1.6 Plywood Coating: Type 6

Phenolic film as moisture barrier on one side of panel.

4.1.7 Hardwood veneer: Type 7

The type and finish of the hardwood veneer shall be specified on the engineering print. The veneer shall be bonded with an exterior grade adhesive and comply with APA PS-1 requirements for ply adhesion.

4.2 Property and Performance Requirements

All materials supplied to this specification shall meet the requirements shown in Table 1 as appropriate and in addition shall meet requirements listed below.

4.2.1 Resistance to Mold Growth

4.2.1.1 Method: AATCC Method 30 (American Association of Textile Chemists and Colorists)

4.2.1.2 Shall not exhibit any objectionable odor or growth of mold.

4.2.2 Humidity Corrosion

4.2.2.1 Method: AWWA E12-94

4.2.2.2 Required: Report value.

4.2.3 Corrosion Testing

4.2.3.1 Method: SAE J2334

4.2.3.2 Required: Report value.

4.2.4 Flammability

Material and parts supplied to this specification shall conform to and be certified by the supplier to meet the requirements of the latest issue of Federal Motor Vehicle Safety Standard #302 - Flammability of Interior Materials (CFR 49, Part 571.302) and the requirements of MPAPS P-9544.

4.3 Property and Performance Requirements for Adhesives

4.3.1 Refer to MPAPS K-6931