

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS D-7127
		Former Designation: TMS-7127
TITLE: Mattresses	CURRENT REV No.: 1706	DATE: June 2017
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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 requirements of a foam tri-laminate mattress and three types of innerspring mattresses that are used in the sleeper compartments of International trucks. Type I is a standard innerspring mattress that is used in service parts, Type II is a premium innerspring mattress that is used in current production, and Type III is an innerspring mattress that tapers from top to bottom to accommodate a smaller bottom width and length of finish mattress.

2.0 SCOPE

This specification covers the general construction, durability, performance requirements, design, quality, qualification, shipping and identification, and source approval procedures for innerspring and foam mattresses.

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
 NAVISTAR Supplier Packing and Shipping Std. D-13
 NABM/ISPA Cornell Test Procedure
 CFR Title 29, Part 1910
 NAVISTAR MPAPS B-50
 NAVISTAR Engineering Design Std. A-16

NAVISTAR MPAPS P-9544
 NAVISTAR MPAPS D-7088
 NAVISTAR MPAPS L-6505
 FMVSS 571.302

4.0 GENERAL REQUIREMENTS

Individual components of the trim composite/assembly must meet all requirements of the material specification(s) indicated on the engineering drawing for the component and/or subassembly in addition to meeting the relevant requirements of this specification. Ticking shall meet the requirements of MPAPS D-7088 unless otherwise specified.

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4.1 Construction of Innerspring Mattress

4.1.1 Innerspring

Type I: The innerspring configuration shall be a Bonnell coil, 312 count (based on full size). The coils shall be 13.5-gauge steel and the helicals shall be 17-gauge steel. The size of the individual parts will be indicated by the engineering drawing. When indicated on the engineering drawing, the innerspring will articulate to fit into the sleeper compartment.

Type II: The innerspring configuration shall be a 5" Holland Maid Innerspring unit 308 count (based on full size). The interior coils shall be 13.5-gauge steel, edge coils shall be 13-gauge steel and the helicals shall be 17.5-gauge steel.

Type III: The innerspring configuration shall be a Marshall Unit, 520 count (based on full size). The coils shall be electronically tempered, 15.5-gauge steel, 5-1/8" Samson technology and will be individually encased by ultrasonically welding special Hanes Quantum non-woven fabric that flexes with the coil. The innerspring unit shall taper from top to bottom to accommodate a smaller bottom width and length of finished mattress. The mattress ticking shall be constructed of a bamboo stretch knit material per MPAPS D-7088, Type IV.

4.1.2 Border Rod

Type I: Border rods shall be made of 9-gauge steel wire.

Type II: Border rods shall be made of 6-gauge steel wire with three Holland Wire edge clips evenly spaced and affixed to the top and bottom border wire on each side of the length on the innerspring.

Type III: Border rods shall be 9-gauge steel wire affixed with c-rings.

4.1.3 Insulator

Type I: The insulator shall be .75 oz. resinated fiber pad, top and bottom.

Type II: The insulator shall be .75 oz. resinated fiber pad, top and bottom.

Type III: The innersprings are individually wrapped in cloth; therefore, an insulator is not required.

4.1.4 Padding

Padding materials shall be sufficient to meet the finished size requirements as well as the performance requirements.

4.1.5 Foam

Foam for innerspring mattresses shall meet the requirements of MPAPS L-6505 with the following ILD requirements unless otherwise specified on the engineering drawing:

4.1.5.1 Topper for Innerspring Mattress

INNERSPRING MATTRESS	DENSITY Type I kg/m ³ [lb/ft ³]	DENSITY Type II kg/m ³ [lb/ft ³]	DENSITY Type III kg/m ³ [lb/ft ³]	ILD Type I N [lb]	ILD Type II N [lb]	ILD Type III N [lb]
Topper	29 [1.25]	29 [1.8]	29 [1.8]	160 [36]	160 [36]	160 [36]

4.2 Construction of Tri-laminate Foam Mattresses

4.2.1 Foam

The foam shall meet the requirements of MPAPS L-6505 with the following requirements unless otherwise specified on the engineering drawing:

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