

NAVISTAR, INC.		
TMS (TRUCK MATERIAL SPECIFICATION)		NUMBER: TMS-7120
TITLE: Sunvisors		CURRENT REV. No: 1008
		DATE: AUGUST 2010
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	SUPERSEDES ISSUE DATED: June 2006
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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>		
Change Notice: Replaced "International Truck and Engine Corporation" with "Navistar, Inc." per corporate directive; added Type III sunvisor; editorial changes.		
Reference: Files: 16-7; 30-14F		Keywords: Trim, interior trim, trim composites, sunvisor

1.0 APPLICATION

This specification covers requirements for three types of composite sunvisors used in interior applications in NAVISTAR trucks.

2.0 SCOPE

This specification covers the general, durability, performance, design, quality, qualification, shipping and identification, and source approval requirements for sunvisors.

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 CEMS 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
 FMVSS-302
 NAVISTAR Manufacturing Std. MS-D-13
 CFR Title 29, Part 1910
 NAVISTAR TMS-4102
 NAVISTAR TMS-6505
 NAVISTAR TMS-6606
 NAVISTAR TMS-7005
 NAVISTAR TMS-7028
 NAVISTAR TMS-7066
 NAVISTAR TMS-7113
 NAVISTAR TMS-7121
 NAVISTAR TMS-9009
 NAVISTAR TMS-9543
 NAVISTAR TMS-9544
 NAVISTAR CEMS C-14

NAVISTAR CEMS G-1
 NAVISTAR CEMS GT-31
 NAVISTAR CEMS DT-12
 NAVISTAR CEMS A-0 Parts I & II
 NAVISTAR CEMS A-37
 NAVISTAR CEMS B-20
 NAVISTAR CEMS B-50
 ASTM D 751
 ASTM D 1037
 ASTM D 1683
 ASTM D3029
 ASTM D 5420
 ASTM D 5587
 SAE J315
 SAE J1885

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4.0 GENERAL REQUIREMENTS

Individual components of the trim composite/assembly will meet all requirements of the material specification(s) indicated on the engineering drawing for that component and/or subassembly, in addition to meeting all requirements of this specification. Three types of sunvisors are covered: Type I is a cut and sew assembly, and Type II is a heat sealed assembly. Type III is also a heat sealed assembly.

4.1 Composition

The composition of each of the sunvisors is:

4.1.1 Foundation Board: Fiberboard per TMS-7066 or TMS-7072 (thickness - .110”).

4.1.2 Thread (cut and sew only): TMS-7005

4.1.3 Covering: Color, texture and finish of production material supplied must match master samples of the pre-production material originally approved and on file in the Master Fabric Book at the International TDTC Industrial Design Department.

4.1.3.1 Vinyl (Type I): TMS-7121 Type E

4.1.3.2 Vinyl (Type II & Type III): TMS-7121 Type L

4.1.3.3 Welting (if required - Type I only): TMS-7121 Type L

4.1.3.4 Fabric (Type I only): TMS-7113 – the type shall be designated on the engineering print.

4.1.4 Padding: An appropriate padding shall be selected by the supplier unless it is specifically designated on the engineering print.

4.1.4.1 Type I per TMS-6606

4.1.4.2 2 lb/ft³ Urethane foam per TMS-6505, Type I.

4.1.4.3 2 lb/ft³ Polyethylene foam (TMS TBD)

4.1.4.4 Type III, 3.98 lb/ft³ Expanded Polypropylene foam (TMS TBD)

4.1.5 Seams (Type I only): Stitch – 5-6 per inch. Report seam strength per ASTM D 1683. The joining seam shall resist slippage of any one yarn or thread. There shall be no fractures at the sew line in any material.

4.1.6 Metal components

4.1.6.1 Zinc Die-casting

4.1.6.1.1 Base Metal: DZ-96-4-05 per CEMS C-14

4.1.6.1.2 Finish: Chrome plating, TMS-4114, SC3 (Class A quality level on exposed top surface of casting, and Class C finish all other areas)

4.1.6.2 Spring Clamp

4.1.6.2.1 Base Metal: Steel, 1050-1065, CEMS A-0 Part I; hardness to be 60-70 HR30N.

4.1.6.2.2 Finish: Phosphate coating, Class B-1, CEMS G-1

4.1.6.3 Steel rods

4.1.6.3.1 Base Metal: Steel, Code 0-202, CEMS A-0, Part II; min hardness to be 90 HRB.

4.1.6.3.2 Finish: Chrome plating per TMS 4102, SC1 or SC2

4.1.6.4 Hinge

4.1.6.4.1 Base Metal: Steel, Code 0-100, CEMS A-0 Part II

4.1.6.4.2 Finish: Zinc plating, Class 8A, CEMS G-20

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