

**ANSI/SAE Z26.1-1996 (11.08.1997)**  
**The approval tests of DOT 1081 M501 AS2**



Finnish Accreditation Service

T001 (EN ISO/IEC 17025)

VTT Expert Services Ltd

| Requested by: FERCAM, Bursa, TURKEY

---

**Requested by** FERCAM  
Yeni yalova yolu Alasar mevki 13 km Ovaakca  
Bursa  
TURKEY

**Order** By Email Timo Suomi (Softeco Oy) / Kai Mannersola

**Contact person** VTT Expert Services Ltd  
Senior Expert Kai Mannersola  
Kemistintie 3, FI-02150 ESPOO, FINLAND  
P.O. Box 1001, FI-02044 VTT, FINLAND  
Tel. + 358-20-722 6257  
Mob. +358-40-560 1021  
E-mail: kai.mannersola@vtt.fi

---

**Task** **Tests on 5,0 mm nominal thickness green tinted tempered safety float glass, with or without opaque obscuration band, according to Standard ANSI/SAE Z26.1-1996 (11.08.1997), for use in all locations in a motor vehicle except for windshield.**

**Designated DOT 1081 M501 AS2**

**Samples** The samples were tested partly at FERCAM in Bursa, Turkey and partly at VTT Expert Services Ltd in Espoo, Finland.

**Date of testing** August 2016

**Results** Tempered glass panes made by FERCAM meet the requirements of Standard ANSI/SAE Z26.1-1996.

The test results are in APPENDICES 1-2.

The test methods referred to in this research report are accredited.

Espoo, 29 March 2017



Pekka Sipari  
Product Manager



Kai Mannersola  
Senior Expert

APPENDICES 2 pieces (2 pages)

DISTRIBUTION

Customer

Original

Archive

Original

**Trademark(s)**



**Data**

Material of submitted samples is the following:

Nominal thickness: 5,0 mm ± 0,2 mm  
 Colour: Green  
 Electric wires: -  
 Attention: Opaque obscuration band

**TEST RESULTS**

<i>TEST No. 1 – Light Stability and TEST No. 2 – Luminous Transmittance</i>					
Sample [pcs]	Colour	Light transmittance before irradiation [%] Test 2: Min. 70 %	Light transmittance after irradiation [%] Test 2: Min. 70 %	Per cent of original transmittance [%] Test 1: Min. 95 %	Result
3	green	75,4 / 75,5 / 75,4	75,2 / 75,4 / 75,4	99,7 / 99,9 / 100,0	complies

<i>TEST No. 6 – Impact Ball (227 g, height of drop 3,05 m) Acceptance criterium: Min. 10/12</i>			
Sample [pcs]	Colour	Breakage	Result
12	green	none	complies

<i>TEST No. 7 – Fracture Test</i>				
Sample [pcs]	Colour	Electric wires	Max. weight of a fragment > 4,25 g [pcs]	Result
6	green	-	none	complies

<b>TEST No. 8 – Shot Bag (Height of drop 2,44 m)</b>			
<b>Acceptance criterium: Min. 4/5</b>			
<b>Sample [pcs]</b>	<b>Colour</b>	<b>Breakage</b>	<b>Result</b>
5	green	none	complies

<b>TEST No. 18 – Abrasion Resistance</b>						
<b>Sample [pcs]</b>	<b>Colour</b>	<b>Haze of glass [%]</b>	<b>Haze of track [%]</b>	<b>Net haze [%]</b>	<b>Arithmetic mean [%] Max. 2 %</b>	<b>Result</b>
3	green	0,5 / 0,6 / 0,6	1,5 / 1,4 / 1,5	1,0 / 0,8 / 0,9	0,90	complies