

AURA[®] 135 Conspicuity Tape (After-Market Grade)

Product Code: 0135-AM

Product Data Bulletin

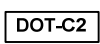
Product Overview

Aura Optical Systems' AURA[®] 135-AM Conspicuity Tape (After-Market Grade) is a microprismatic retroreflective tape designed for use on the sides and rear of trucks, trailers, and other vehicles. It is a cost effective alternative for retrofitting existing trailers. Conforms to the requirements of the FMVSS 108 standard and contains the DOT-C2 marking.

Key Features

- Metalized, single-ply construction to prevent edge-lifting or delamination
- No edge-sealing required
- Excellent levels of retroreflection from multiple viewing angles
- Aggressive high-tack adhesive
- Easily cut or punched for rapid installation
- Tiled microprismatic optics

Physical Characteristics & Properties

Durability	Up to 3-years when properly installed
Retroreflective Elements	Microprisms, metalized with vacuum-deposited aluminum
Tape Thickness	11 mils, excluding release liner
DOT-C2 Marking	
Face Film	Acrylic
Release Liner	HDPE Release Liner
Application Surface	Aluminum. Painted metals. Wet application method is not recommended. Not recommended for unpainted stainless steel.
Application Temperature	15°C (60°F) minimum

Retroreflection

AURA[®] 135-AM Conspicuity will yield the reflectivity levels listed in the tables below when tested in accordance with ASTM E-810. 0° and 90° rotation measurements are averaged.

Typical Coefficient of Retroreflection (cd/lx/m²)

Color	Observation Angle	Entrance Angle		
		-4°	30°	45°
White	0.2°	750	350	200
	0.5°	125	85	50
Red	0.2°	200	85	50
	0.5°	35	20	12

Minimum Requirement per FMVSS 108 Coefficient of Retroreflection (cd/lx/m²)

Color	Observation Angle	Entrance Angle		
		-4°	30°	45°
White	0.2°	250	250	60
	0.5°	65	65	15
Red	0.2°	60	60	15
	0.5°	15	15	4

Color and Size Configurations

Standard roll sizes are 2" x 50 yards in the following color and stripe configurations.

Product Code	Color
0135-117AM	11" Red / 7" White (Alternating Pattern)

Storage

Store in a cool, dry area. Use within 1-year of receipt of the product.

Covered by one or more patents / pending applications. Refer to www.auraopticalsystems.com/images/patents.pdf for more information.



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Daytime Color

The color of the tape shall fall within the four pairs of chromaticity coordinates (CIE 1931 Standard Colorimetric System) when measured with Standard Illuminant D65 using a 0/45 (45/0) geometry instrument.

Color	1		2		3		4		Cap Y%	
	x	y	x	y	X	Y	x	y	Min	Max
White	.303	.300	.368	.366	.340	.393	.274	.329	15	--
Red	.648	.351	.735	.265	.629	.281	.565	.346	2.5	11

Application Guidelines

Aura Optical Systems' AURA® 135-AM Conspicuity Tape should be applied only to clean and dry surfaces when temperatures are above 60°F. Wipe surfaces with rubbing alcohol (or similar solvent cleaner) and allow the surface to completely dry prior to application. Wet application methods should not be utilized. Apply only to surfaces free of rust, dirt, loose paint, or other contaminants.

During application, use a hand squeegee or hand roller to apply pressure to create a permanent bond. Starting from one end of the conspicuity striping, work from the center of the tape towards the edge to push air out from under the tape. It may be necessary to wrap the hand squeegee in a cloth to avoid scratching the surface.

The user should always test compatibility of the tape with the intended application surface. For freshly painted surfaces, the paint should be allowed to cure for at least 48-hours prior to application.

Tape should be applied to flat or gently curved surfaces. Application around sharp curves or complex surfaces is not recommended. Bending the tape around a corner or other sharp angles may cause the tape to lift. Additionally, tape should be trimmed so that it does not overhang off the application surface.


Application over large rivets or sharp corrugations is not recommended. For application over smaller rivets (< 1/2 inch), use a punching tool, such as an arch punch or belt punch, to cut the conspicuity tape around the rivet surface.

Warranty Information

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