

# AURA<sup>®</sup> 150 Metalized High Intensity Prismatic Grade Workzone and Delineator Sheeting

Product Code: 0150

Product Data Bulletin

## Product Overview

Aura Optical Systems' AURA<sup>®</sup> 150 Metalized High Intensity Prismatic Grade Sheeting is a microprismatic retroreflective sheeting designed for use on construction work zone barricades, delineators, and other work zone devices.

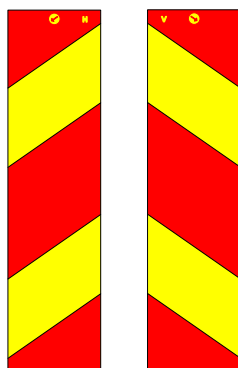
## Key Features

- Metalized, single-ply construction to prevent edge-lifting or delamination
- Aggressive high-tack adhesive for bonding to low surface energy plastics
- Excellent levels of retroreflection from multiple viewing angles
- Exceeds the requirements of EN-12899-1:2007, Class RA2

## Color Availability

Product Code	Color
0150-00	White
0150-01	Yellow
0150-02	Red
0150-SWRYH	Preprinted Red/Yellow Sweden Warning Beacon, Right
0150-SWRYV	Preprinted Red/Yellow Sweden Warning Beacon, Left

## Sweden Right & Left Warning Beacons



## Physical Characteristics & Properties

Durability	Up to 5-years when properly installed in Northern Europe. <sup>†</sup> Vertical exposure only.
Retroreflective Elements	Microprisms, metalized with vacuum-deposited aluminum
Product Thickness	12 mils, excluding release liner
Release Liner	HDPE Release Liner
Adhesive	Aggressive high-tack adhesive for bonding to plastics, aluminum and other substrates.
Application Temperature	15°C (60°F) minimum

<sup>†</sup> Up to 3-years in other locations.

## Retroreflection

Typical Coefficient of Retroreflection (cd/lx/m<sup>2</sup>)

Color	Observation Angle	Entrance Angle		
		5°	30°	40°
White	0.2°	550	400	275
	0.33°	275	250	140
	2.0°	8	7	5
Yellow	0.2°	350	250	180
	0.33°	180	150	90
	2.0°	5	4	3
Red	0.2°	100	75	50
	0.33°	50	45	25
	2.0°	1.5	1.2	1

Minimum Coefficient of Retroreflection. Average of 0° and 90° Rotations. (cd/lx/m<sup>2</sup>)

Color	Observation Angle	Entrance Angle		
		5°	30°	40°
White	0.2°	360	170	110
	0.33°	180	100	95
	2.0°	5	2.5	1.5
Yellow	0.2°	270	135	70
	0.33°	120	70	60
	2.0°	3	1.5	1.0
Red	0.2°	65	30	15
	0.33°	25	14	13
	2.0°	1	0.4	0.3



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## Daytime Color

AURA® 150 will typically have the daytime color listed below and shall fall within the color boundaries identified below by four pairs of chromaticity coordinates (CIE 1931 Standard Colorimetric System) when measured with Standard Illuminant D65 using a 0/45 (45/0) geometry instrument.

Typical Daytime Color:

	x	y	Cap Y%
White	0.305 +/- 0.01	0.325 +/- 0.01	29.5 +/- 1.0
Yellow	0.513 +/- 0.01	0.460 +/- 0.01	17.5 +/- 1.0
Red	0.635 +/- 0.01	0.330 +/- 0.01	4.2 +/- 1.0

Color Boundaries:

Color	1		2		3		4		Cap Y%	
	x	y	x	y	x	y	x	y	Min	Max
White	.305	.315	.335	.345	.325	.355	.295	.325	27	--
Yellow	.545	.454	.487	.423	.427	.483	.465	.534	16	--
Red	.735	.265	.674	.236	.569	.341	.655	.345	3	12

## Application Guidelines

AURA® 150 should be conditioned above 15°C (60°F) for at least 24-hours prior to application. Application should occur using a squeeze roll applicator or by hand using a firm rubber roller or plastic squeegee. Substrates should be cleaned prior to application. Wipe surfaces with rubbing alcohol (or similar solvent cleaner) and allow the surface to completely dry prior to application. Wet application method is NOT recommended.

For application to plastic substrates, especially low surface energy plastics, it is important to flame treat (or otherwise surface treat) the plastic substrate prior to application. Although AURA® 150 is supplied with an aggressive high-tack adhesive designed for many plastics, it should be noted that all plastics are different. Many plastics, including fiberglass laminates, may contain ingredients or components that may migrate to the surface and adversely affect the adhesion or performance of the reflective sheeting. Similarly, the adhesive of AURA® 150 contains components that could potentially migrate into the plastic substrate.

**Therefore, always test the performance of AURA® 150 on each specific substrate.**

## Storage


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

## Warranty Information

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