

## Product Evaluation

### RE: Review of Oralite 5930 Fluorescent Orange High Intensity Prismatic Sign Sheeting (Work Zone)

#### **PRODUCT**

The Oralite 5930 Fluorescent Orange High Intensity Prismatic Sign Sheeting is manufactured by ORAFOL Reflective solutions Americas located in Mississauga, Ontario.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS**

Oralite 5930 Fluorescent Orange High Intensity Prismatic Sign Sheeting is a highly reflective, weatherproof, self-adhesive films with excellent corrosion and solvent resistance. All Oralite products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Product Web Link: <http://www.orafol.com/>

##### **DESCRIPTION**

Oralite 5930 Fluorescent Orange High Intensity Prismatic Sign Sheeting conforming to all requirements of ASTM D4956 Type IX High Intensity sheeting. The Oralite 5930 series reflective sheeting consists of sealed cells of air backed micro prisms, using total internal reflection.

##### **POTENTIAL USAGE**

Oralite 5930 Fluorescent Orange High Intensity Prismatic Sign Sheeting is ideal for temporary construction work zone signs.

##### **STANDARDS**

ASTM D4956 Standard Specification for Retroreflective Sheeting for Traffic Control  
CALCOAST Industrial Testing Laboratory

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE**

Alberta Transportation has no experience with this product. .

##### **APPLICABLE STANDARDS**

The Alberta Transportation specification for Reflective Sign Sheeting Material is as follows:

Standard Specification for Highway Construction, Specification 7.1 Traffic Accommodation and Temporary Signing

**PRODUCT COMPARISON TO STANDARD**  
 Typical Coefficient of Retroreflection ( $R_A$ ) cd/fc/ft<sup>2</sup> (cd.1x<sup>-1</sup>.m<sup>-2</sup>) of ULG II sheeting:

Observation Angle	Entrance Angle	Fluorescent Orange
Oralite 5930 0.2°	-4°	242
ASTM Type IX 0.2°	-4°	115
Oralite 5930 0.2°	+30°	150
ASTM Type IX 0.2°	+30°	65
Oralite 5930 0.5°	-4°	166
ASTM Type IX 0.5°	-4°	72
Oralite 5930 0.5°	+30°	58
ASTM Type IX 0.5°	+30°	41

Oralite 5930 Fluorescent Orange High Intensity Prismatic Sign Sheeting meets the performance requirements of the ASTM D4956, Type IX Sheeting (High Intensity) Standard Specification for Retroreflective Sheeting for Traffic Control.

**The 3 year Outdoor Weathering test (Durability Study) on sign sheeting materials was not tested for this product.**

**RECOMMENDATIONS:**  
 Oralite 5930 Fluorescent Orange High Intensity Prismatic Sign Sheeting material will be listed as a Trial Product under Alberta Transportation Products List, Sign and Support System – Temporary Orange Work Zone/Construction Signs – Proprietary. Final acceptance as a proven product will be based on field performance.

**TRIAL PROJECTS**  
 West End intersection of the Anthony Henday Drive and Whitemud Drive

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