## § 224.101

(3) When FRA grants or denies a petition, or reopens consideration of a petition, written notice is sent to the petitioner and other interested parties and a copy of the notice is placed in the electronic docket of the proceeding.

[70 FR 62176, Oct. 28, 2005, as amended at 74 FR 25173, May 27, 2009]

## Subpart B—Application, Inspection, and Maintenance of **Retroreflective Material**

## § 224.101 General requirements.

All rail freight rolling stock subject to this part shall be equipped with retroreflective sheeting that conforms to the requirements of this part. Notwithstanding any other provision of this chapter, the application, inspection, and maintenance of that sheeting shall be conducted in accordance with this subpart or in accordance with an alternative standard providing at least an equivalent level of safety after special approval of FRA under §224.15.

## §224.103 Characteristics retroreflective sheeting.

Construction. Retroreflective sheeting applied pursuant to this part shall consist of a smooth, flat, transparent exterior film with microprismatic retroreflective elements embedded in or suspended beneath the film so to form a non-exposed retroreflective optical system.

(b) Color. Retroreflective sheeting applied pursuant to this part shall be yellow, fluorescent yellow, or white as specified by the chromaticity coordinates of ASTM International's Standard D 4956-04, "Standard Specification

for Retroreflective Sheeting for Traffic Control." The Director of the Federal Register approves the incorporation by reference of this standard in this section in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You may obtain a copy of the incorporated standard from ASTM International, 100 Barr Harbor Drive. P.O. Box C700. West Conshohocken, PA 19428-2959 or at http://www.astm.org. You may inspect a copy of the incorporated standard at the Federal Railroad Administration, Docket Clerk, 1200 New Jersey Avenue, SE., Washington, DC 20590 or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to http:// www.archives.gov/federal register/ regulations/

code of federal ibr locations.html.

Performance. (c) Retroreflective sheeting applied pursuant to this part shall meet the requirements of ASTM D 4956-04, for Type V Sheeting if metalized or Type VII Sheeting if non-metalized, except for the initial minimum of the coefficient values retroreflection, and shall, as initially applied, meet the minimum values for the coefficient of retroreflection specified in Table 1 of this subpart.

[70 FR 62176, Oct. 28, 2005, as amended at 74 FR 25173, May 27, 2009]

Table 1 of Subpart B to Part 224-MINIMUM COEFFICIENT OF RETROREFLECTION (RA) (IN CANDELA/ Lux/Meter<sup>2</sup>) Requirement FOR. RETROREFLECTIVE SHEETING (MIN-IMUM PHOTOMETRIC PERFORMANCE REQUIREMENTS)

Entrance angle	Observation angle			
	0.2 Degree		0.5 Degree	
	Yellow or fluo- rescent yellow	White	Yellow or fluo- rescent yellow	White
-4°	400 220	600 350	100 45	160 75

(d) Certification. The characters "FRA-224", constituting the manufacturer's certification that the retroreflective sheeting conforms to the requirements of paragraphs (a) through (c) of this section, shall appear at least once on the exposed surface of each

piece of sheeting in the final application. The characters shall be a minimum of three millimeters high, and shall be permanently stamped, etched, molded, or printed within the product and each certification shall be spaced no more than four inches apart.