

APEX Non-Reflective Ceramic Markers

APEX Non-Reflective Ceramic Markers conform to the following specifications:

85-1.04 NON-REFLECTIVE PAVEMENT MARKERS

- Non-reflective pavement markers (Types A and AY) shall be, at the option of the Contractor, either ceramic or plastic conforming to these specifications.
- The top surface of the marker shall be convex with a gradual change in curvature. The top, bottom and sides shall be free of objectionable marks or discoloration that will affect adhesion or appearance.
- The bottom of markers shall have areas of integrally formed protrusions or indentations, which will increase the effective bonding surface area of adhesive. The bottom surface of the marker shall not deviate more than 0.05-inch from a flat surface. The areas of protrusion shall have faces parallel to the bottom of the marker and shall project approximately 0.04-inch from the bottom.

85-104A Non-Reflective Pavement Markers (Ceramic)

- Ceramic non-reflective pavement markers Types A and AY shall consist of a heat-fired, vitreous, ceramic base and a heat-fired, opaque, glazed surface to produce the properties required in these specifications. The markers shall be produced from any suitable combination of intimately mixed clays, shales, talcs, flints, feldspars or other inorganic material which will meet the properties herein required. The markers shall be thoroughly and evenly matured and free from defects which affect appearance or serviceability

Testing

- Tests shall be performed in conformance with the requirements in California Test 669.

Test	Test Description	Requirement
a	Bond strength	700 psi, minimum
b	Glaze thickness	0.007", minimum
c	Hardness	6 Moh, minimum
d	Luminance factor, Type A, white markers only, glazed surface	75, minimum
e	Yellowness index, Type A, white markers only, glazed surface	7, maximum
f	Color-yellow, Type AY, yellow markers only. The chromaticity coordinates shall be within a color box defined in CTM 669	Pass
g	Compressive strength	1500 lbs, minimum
h	Water absorption	2.0%, maximum
i	Artificial weathering, 500 hours exposure, yellowness index	20, maximum