



# DURALAST® Detectable Warning Plate Specification

## General

This specification is applicable for iron castings that will be permanently set into concrete to serve as Detectable Warning Plates (DWP). The castings shall contain truncated domes that meet the requirements of Americans with Disabilities Act Accessibility Guidelines (ADAAG) for Accessible Public Rights-of-Way, Section R304 – Detectable Warning Surfaces. Castings shall have an integral non-slip texture on and between the truncated dome shapes. Castings shall be DURALAST® or approved equal. Approved equal must meet the requirements of this specification.

## Material

Manufacturer shall certify that all castings conform to either Gray Iron ASTM A48 Class 35 B and/or AASHTO M105, Class 35B gray iron and/or ASTM A536 Ductile Iron. Castings must contain a minimum of 85% recycled content.

## Markings

All detectable warning plates shall have the product name or series number (example: DURALAST® logo), country of origin and the manufacturer's identification or name (EJ) permanently cast on the top surface. The bottom of the casting shall have the approved part number and production date (example: mm/dd/yy) for tracking purposes.

## Product Specifics

DWP must comply with ADAAG requirements for dome size, dome spacing and color contrast. All DWP must have an integral iron anchor tab to ensure proper restraint in the concrete slab. Square and Rectangular Plates will be provided with optional bolting for assurance of proper dome spacing during installation. Square and Rectangular castings shall be provided in incremental sizes such as: 18" x 24", 24" x 24", 24" x 30" or 24". Radial castings shall be provided in radii such as: 10', 15', 17.5', 20', 25', 30', or 35'. Castings shall be of uniform quality, free from sand holes, gas holes, cracks, shrinkage and other surface defects. Castings shall be reasonably well cleaned by shot blasting. Runners, risers, fins and other cast-on pieces shall be removed from the castings and such areas shall be ground smooth. As-cast dimensions may vary within accepted foundry tolerances as outlined in the Iron Castings Handbook published by the American Foundrymen's Society, Inc. Nominally, casting dimensional tolerances shall be +/- 1/16 inch per foot. Castings shall be furnished uncoated or as specified by the purchaser.

## Certification/Standards Compliance

ASTM A48 Class 35B	Material
AASHTO M105 Class 35B	Material
ASTM A536 All Grades	Material
ISO 9001:2008	Quality Assurance

## Quality Assurance

System of manufacturing quality assurance must conform to the requirements of ISO 9001:2008 and be certified by a third party.