ADA Guidelines

/prowac/draft.htm) PDF Version

diameter within the ranges specified.

center-to-center spacing within the range specified.

mm (0.2 in).

domes.

in a square or radial grid pattern and shall comply with R304.

Current Guidelines for Detectable Warnings

Excerpt from the Revised Draft Guidelines for Accessible Public Rights-of-Way (11/23/05). Please note that Advisories are for informational purposes only. (http://www.access-board.gov

R304 Detectable Warning Surfaces

R304.1 General. Detectable warnings shall consist of a surface of truncated domes aligned

R304.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 23 mm (0.9 in) minimum to 36 mm (1.4 in) maximum, a top diameter of 50 percent

Advisory R304.1.1 Dome Size. Where domes are arrayed radially, they may differ in

R304.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a

center-to-center spacing of 41 mm (1.6 in) minimum and 61 mm (2.4 in) maximum, and a

base-to-base spacing of 17 mm (0.65 in) minimum, measured between the most adjacent

Advisory R304.1.2 Dome Spacing. Where domes are arrayed radially, they may differ in

R304.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent gutter,

Advisory R304.1.3 Contrast. Contrast may be provided on the full ramp surface but should not extend to the flared sides. Many pedestrians use the visual contrast at the toe of the ramp

R304.1.4 Size. Detectable warning surfaces shall extend 610 mm (24 in) minimum in the

direction of travel and the full width of the curb ramp (exclusive of flares), the landing, or the

R304.2.1 Perpendicular Curb Ramps. Where both ends of the bottom grade break complying with R303.3.4 are 1.5 m (5.0 ft) or less from the back of curb, the detectable warning shall be

located on the ramp surface at the bottom grade break. Where either end of the bottom grade

break is more than 1.5 m (5.0 ft) from the back of curb, the detectable warning shall be located

street or highway, or walkway surfaces, either light-on-dark or dark-on-light.

to locate the curb ramp opening from the other side of the street.

of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 5

Where do you need detectable warnings?

ADAAG Standards, sections 4.7.7, 4.29, 4.29.5, 4.29.6, and 10.3.1(8).

Curb Ramps, hazardous vehicle ways, reflecting pools, and transit platform edges. See the

(ADA)(1990).

The U.S. Access Board

They develop the minimum design standards for complying with the

ADA. They are responsible for creating ADAAG requirements.

The Department of Justice (DOJ)

The Department of Transportation (DOT)

Who's Who?

The lead agency that oversees the Americans with Disabilities Act

They are the designated agency responsible for enforcing the

standards and implementing regulations of the ADAÂ's Title II (State

and Local Government Services).

The Federal Highway Administration (FHWA)

They are the enforcement authority for overseeing pedestrian

discrimination issues under the Title II implementing regulations.

What are all those Acronyms?

ADA: Americans with Disabilities Act

ADAAG: Americans with Disabilities Act Accessibility Guidelines

PROWAC: Public Rights-of-Way Accessibility Committee The History of Requirements:

1991: Detectable Warning Surfaces were first required with the release of the Americans with Disabilities Act Accessibility

Guidelines. Detectable Warnings were required on hazardous vehicle ways, transit platform edges, and curb ramps. 1994-2001: A suspension was placed on the requirements with the exception of transit platforms so that research could be conducted

regarding the detectability of the varying tactile surfaces such as

grooves, striations, and exposed aggregate. The research found that those surfaces were in fact not detectable due to the similarities to normal surface defects found on sidewalks and roadways. July 26th, 2001: The suspension described above was allowed to expire, and detectable warnings as outlined in ADAAG were again

required **2001-Present:** There have been several advisories and changes added to the requirements. The most recent is the one found above.

Also visit these links for more information: Access Board Links:

ADAAG Standards 1108 Detectable Warning Surfaces

Detectable Warnings [4.7.7] ADAAG Requirements for Detectable Warnings (March 2003)

Advisory R304.2.1 Perpendicular Curb Ramps. Detectable warnings are intended to provide a tactile equivalent underfoot of the visible curbline; those placed too far from the street edge because of a large curb radius may compromise effective crossing analysis.

R304.2 Location and Alignment

blended transition.

on the lower landing.

R304.2.2 Landings and Blended Transitions. The detectable warning shall be located on the

landing or blended transition at the back of curb. R304.2.3 Alignment. The rows of truncated domes in a detectable warning surface shall be

aligned to be perpendicular or radial to the grade break between the ramp, landing, or blended transition and the street. Advisory R304.2.3 Alignment. Where a ramp, landing, or blended transition provides access

to the street continuously around a corner, the vertical rows of truncated domes in a detectable

warning surface should be aligned to be perpendicular or radial to the grade break between the ramp and the street for a 1.2 meter-wide (4.0 ft) width for each crosswalk served. R304.2.3 Rail Crossings. The detectable warning surface shall be located so that the edge nearest the rail crossing is 1.8 m (6 ft) minimum and 4.6 m (15 ft) maximum from the centerline of the nearest rail. The rows of truncated domes in a detectable warning surface shall be

aligned to be parallel with the direction of wheelchair travel.