

5270000 DETECTABLE WARNINGS
INTERNAL/INDUSTRY REVIEW COMMENTS

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Comments: (9-7-16, Internal)

Paragraph 527-4 Acceptance is difficult to read. Try this:

Paragraph 527-4 Acceptance is difficult to read. Try this:

The Engineer will base acceptance of **Accept** installed detectable warnings **based** on determining the material, installation, and the following requirements of this Section have been met:

1. **Requirements of this Section have been met.**
2. Color and texture is complete and uniform.
3. 90% of the individual truncated domes are in accordance with Section 705 of the ADA Standards for Transportation Facilities.
 - a. No more than four non-compliant domes are located in any one square foot.
 - b. Non-compliant domes are not located adjacent to other non-compliant domes.

Response: The language will be modified as follows:

▪ **527-4 Acceptance.** ¶
→ ~~The Engineer will base acceptance of installed detectable warnings on determining the material, installation, and the following requirements of this Section have been met.~~ ¶
→ → ~~1. Color and texture is complete and uniform.~~ ¶
→ → ~~2. 90% of the individual truncated domes are in accordance with Section 705 of the ADA Standards for Transportation Facilities.~~ ¶
→ → ~~3. No more than four non-compliant domes are located in any one square foot.~~ ¶
→ → ~~4. Non-compliant domes are not located adjacent to other non-compliant domes.~~ ¶

Change made.

Daniel Strickland
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Comments: (9-7-16, Internal)

1. Section 527-2.1.1: The only sentence in this section appears to be a run-on and recommend rewording.

Response: Language will be modified as shown below:

→ → **527-2.1.1 Preformed Materials:** Use detectable warnings consisting of weather-resistant tiles or pavers that are cast into concrete, ~~or~~ tiles or mats that are surface-applied to concrete or asphalt surfaces with adhesives and mechanical fasteners, or torch-applied preformed thermoplastic. ¶

Change made.

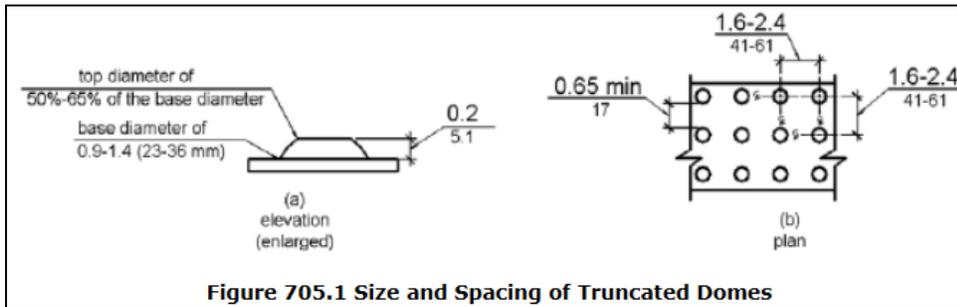
2. Section 527-2.1.2: This section is a little unclear of what the intent is. What does “applied as a secondary application to the substrate” mean?

Response:

3. Section 527-2.4: The first sentence says “Methods and products used to form detectable warnings in wet concrete will not be permitted.” The second sentence says “Use detectable warnings listed on the Department’s Approved Product List (APL).” The APL still has products that are installed in wet concrete so is the plan to remove those at some point in the future?

Response:

4. Section 527-4: Number 2. of the list says that 90% of the individual domes must be in accordance with 705 of ADA Standards (see screenshot below). I know this language was removed from the General Notes of Index 304, however this would be very difficult for inspectors to quantify. Are they supposed to measure and count each individual dome? Should we instead only allow preformed mats that meet 705 and be listed on the APL?



Response:

5. Section 527-4: Number 3. and 4 of the list mentions “non-compliant domes” as it relates to acceptance. Recommend adding clarification such as “in accordance with Section 705 of ADA Standards” to define what exactly a “non-compliant dome” is.

Response:

Anonymous

Comments: (9-15-16)
Looks Great! Thank you.

Response:

Anonymous2

Comments: (9-15-16)
We have reviewed the changes concerning the detectable warnings and have no comments.

Response:

Mary Anne Koos
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Comments: (9-15-16)

1. 527-4 Acceptance. The Engineer will base acceptance of installed detectable warnings on determining the material, installation, and the following requirements of this Section have been met. It seems upon, rather than on would be the better term here.

Response:

2. (9-16-16) Consider whether some of the areas, such as materials acceptance still needs to be included since most detectable warnings now come premade and already are qualified through the APL process. The new language may not be needed.

Response:

Matt Anderson
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Comments: (9-15-16)

527-4 Item 4 is incomplete.

Response:

Sharon Hedrick Harris
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Comments: (9-16-16)

Acceptance standards 2 and 3 appear to be too lenient for a new installation. These may be acceptable maintenance standards for when repairs/replacement should be made, however new installations should be held to a higher standard.

Response:

Art Berger

Comments: (10-12-16)

1.

diagonal pattern.
527-2.1.1 Preformed Materials: Use detectable warnings consisting of weather-resistant tiles or pavers that are cast into concrete, ~~or~~ tiles or mats that are surface-applied to concrete or asphalt surfaces with adhesives and mechanical fasteners, or torch-applied preformed thermoplastic.

Response:

2.

527-2.3 Color/Contrast: Use safety yellow, brick red or black colored detectable warnings on concrete walking surfaces. Use safety yellow colored detectable warnings on asphalt walking surfaces. Acceptable detectable warnings shall meet the following criteria for a duration of three years. *from the date of Final Acceptance.*

Response:

3.

527-2.4 Approved Product List: Methods or products used to form detectable warnings in wet concrete will not be permitted. Use detectable warnings listed on the Department's Approved Product List (APL). Manufacturers seeking evaluation of products for inclusion on the APL shall submit an application in accordance with Section 6 and include certified test reports from an independent lab showing the product meets the requirements of this Section and the ~~Design Standards, Index No. 304 Acceptance Criteria and~~ manufacturer's drawings, specifications and procedures for materials and installation, including touch-up and repair.

Response:

4.

527-3 Installation Procedures.
527-3.1 Surface Preparation and Installation: Prepare the surface in accordance with the manufacturer's recommendations. Use only products and materials appropriate for the surface on which they will be applied. Install in accordance with the manufacturer's instructions, using materials and equipment recommended and approved by the manufacturer. For surface-applied tiles or mats, use adhesives applied over the entire surface and mechanical fasteners.

is this needed?

527-4 Acceptance.
The Engineer will base acceptance of installed detectable warnings on ~~determining the material, installation, and the~~ following requirements of ~~this Section~~ have been met. *finding that*

At least

1. Color and texture is complete and uniform.
2. 90% of the individual truncated domes are in accordance with Section 705 of the ADA Standards for Transportation Facilities.
3. No more than four non-compliant domes are located in any one square foot.
4. Non-compliant domes are not located adjacent to other non-compliant domes.

Response:

5.

527-5.6 Basis of Payment.
Price and payment will be full compensation for all work specified in this Section, including all labor, surface preparation, materials, and incidentals necessary to complete the work. Payment will be made under:
Item No. 527- 2- Detectable Warnings- square foot.

Response:

Comments: (date)

Response:
