

5270000 DETECTABLE WARNINGS ON WALKING SURFACES  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Mario Paredes / Ron Simmons  
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Comment: (12-6-10, Internal)

1. Delete the highlighted text (from table in 537-2.2): Average Volume Loss: no more than 0.06 cm<sup>3</sup>

Response: This has been deleted. Change made.

2. Change the highlighted text (from table in 537-2.2): \* Applies only to plastic-cementitious materials.

\*\* Applies only to surface-applied materials.

Response: The standard for testing for water absorption is ASTM D-570, Standard Test Method for Water Absorption of Plastics. No change made.

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Barry Smith  
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Comments: (12-6-10, Internal)

1. Insert the word “consisting”

**527-2.1 Detectable Warning:** Provide Detectable Warnings in accordance with the Americans with Disabilities Act Standards for Transportation Facilities, Section 705. Use Detectable Warnings *consisting* of materials intended for exterior use subject to routine pedestrian traffic and

Response: Word has been added.

2. Delete the word “surface”

**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* adhered to concrete or asphalt ~~substrates~~ *surfaces* ~~– and have~~ *with* mechanical bond or fasteners, or torch-applied preformed thermoplastic. ~~Preformed products may be used only if listed on the Qualified Products List in accordance with 527-2.4.~~

Response: The word “surface” is included to clarify the different methods of application – those cast in place vs. applied to existing surfaces. No change made.

3. How will this be tested?

**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 as listed on the Qualified Products List will *shall* meet the following criteria for a duration of three years.

Response: This criteria has to be met in order to be included on the QPL. No changes made.

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Comments: (12-21-10)

I have a question regarding the Adhesion/Bond requirement for surface applied products from the chart of section 527-2.2. It requires 150 psi minimum, but I don't see in the spec where it is required to be 100% coverage under the product. I read test method 5-589 and did not see it there either.

My question – is there a 100% coverage requirement for this test?

Response: Based on the research that Robert conducted, we determined that 100% adhesion would be required. I guess I missed this in the proposed Spec Revision.

From the Specifications Office: The following was added to 527-3 Installation Procedures – *“For surface-applied tiles or mats, use both full-coverage adhesives and mechanical fasteners.”*

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Comments: (1-4-11)

(Tammie Andrews/Orlando Operations)

As the Spec. is currently written it includes the following details in 527-2.4 Qualified Products List:

.....Application must include manufacturer's installation drawings that describe detailed quality control requirements for installation including, but not limited to: special materials and/or equipment; recommendations for cleaning/preparing substrate surfaces; bonding method describing thickness, spread rate and/or curing time(s) of grout or adhesive materials; mechanical anchorage; and protection of Detectable Warning materials during set-up/curing period.

As proposed, the Spec. deletes the detailed items above. I recommend NOT approving this Spec. change as proposed. There is no value to eliminating the necessary details provided in 527-2.4. In addition, I think we should consider adding a 60 or 90 day warranty period for the mats in to our Specs. I have seen several local projects that have loose or missing mats shortly after installation. The manufacturer's warranty may not be strong enough language to get the contractor back out to fix an installation problem.

Response: The inserted text in this subarticle requires, as a condition for consideration for evaluation for QPL inclusion, the manufacturer to submit drawings, specifications and procedures for materials, installation, touch-up and repair.

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Comments: (1-5-11)

**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.

THAT IS WHAT IT SAYS. Our comment is as follows: There are areas within the same project limits where the detectable warning surfaces are applied to both concrete and asphalt. For aesthetic purposes (consistent use of colors) and costs (2 colors vs. 1 color) it may be beneficial to allow brick red on asphalt surfaces.

Response:

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Comments: (date)

Response:

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Comments: (date)

Response:

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