FLORIDA DEPARTMENT OF TRANSPORTATION
State Materials Office
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Florida Method of Test
For
Determining the Static Coefficient of Friction of Surface Applied Detectable Warning Surfaces

Designation FM 3- C 1028

FM 3- C 1028 is identical to ASTM C-1028 except with the following provisions:

1. Replace 50-lb (22-kg) weight with,"25-lb (11-kg) weight" in all cases.

2. Add section 3.1.4: "*sticktion*—The tendency of two surfaces in forceful contact, in the presence of a lubricating interface or contaminant, to bond together if there is a period of time between the initial contact and the initiation of motion, as a result of residence time".

3. Change last sentence in 4.2 to read: "Therefore, this test method should be used for the purpose of developing a property of the Detectable Warning Surface under laboratory conditions, and should not be used to determine slip resistance under field conditions unless those conditions are fully described".

4. Omit section 4.3.

5. Change section 4.4 to read: "The static coefficient of friction is determined under both wet and dry conditions with the Neolite heel assemblies on unprepared (as is) test surfaces".

6. In section 5.2, change first sentence to read: "Weight shall be either cylindrical (approximately 6 in. in diameter and approximately 4 in. tall) or of rectangular dimensions with the base measuring approximately 4 by 6 in."

7. Change section 5.3 to read: "Adjustable Neolite Sled Assemblies, two, one to be used for each of the wet and dry conditions".

8. Change section 5.3.1 to read: "Two assemblies, constructed from 8 by 8 by 3/4 in. 6061-T6 aluminum plate or similar material, with two adjustable skids (runners) measuring 3/4 in. by 6 in. of sufficient height to clear the domes. The skids need to be adjustable to permit testing between as well as on top of the domes. An example of a Neolite Sled Assembly is shown in Figure 1. The 1/8 in. thick Neolite heel material is attached to the adjustable skids with contact adhesive.

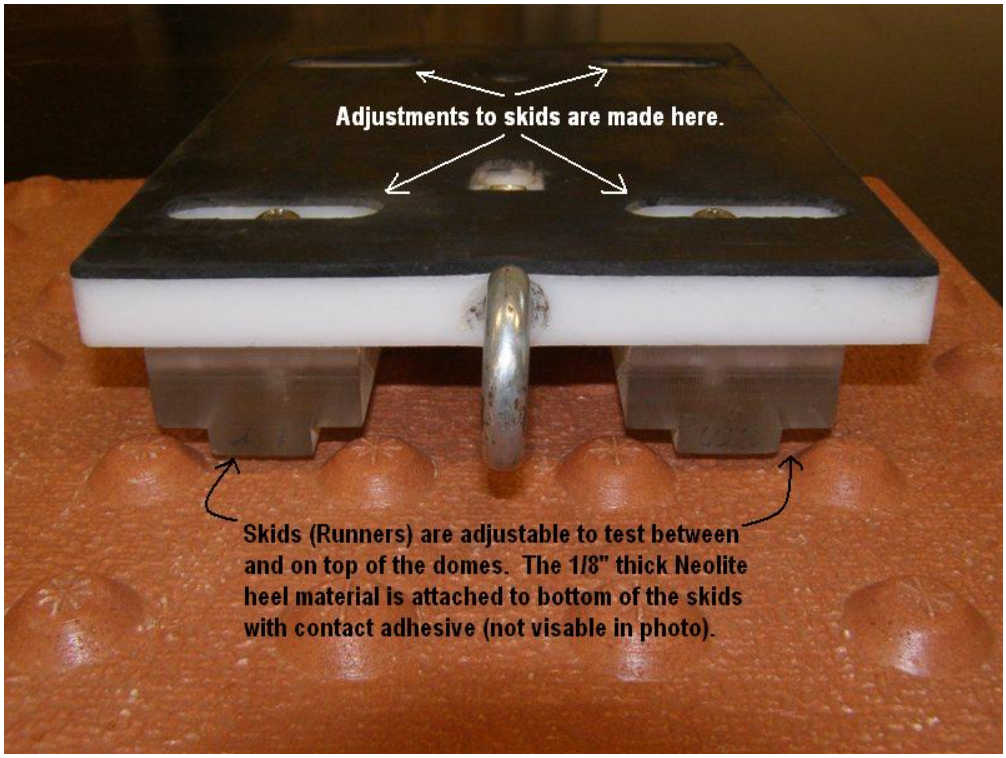

Figure 1. Neolite Sled Assembly

9. Add sentence at end of 7.2, that reads, "Use a clean soft paper towel to remove any remaining dust or debris from the surface of the Neolite test pads before calibrating".

10. Change section 8.1.1 to read: The test area or separate test specimens shall not be less than 8 by 8 in. (203 by 203 mm).

11. Omit second sentence in section 8.1.1, starting with "Bond the separate specimens", etc.

12. Add section 8.2.1 that states: Before placing 25-lb (11-kg) weight on the Neolite Sled Assembly, insure that the force gauge is horizontally and vertically centered with the Neolite Sled Assembly and stabilized to minimize any off-center (horizontal/vertical axis) forces once sled is put into motion.

13. Add note after section 8.2.1 that states: It is beneficial to have Neolite Sled Assembly and force gauge in place before applying 25-lb (11-kg) weight so as to minimize a phenomenon known as sticktion, especially during wet testing.

14. Omit sections 11 and 14.