

The importance of slip resistance testing

SlipSafe Project

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Slip resistance ? – a matter of safety

Why is slip resistant testing important?

Safety first

- Each year many thousands of people get injured by slip accidents
- Slip accidents are biggest single cause of occupational injuries
 - About 650.000 a year causing more than 3 days of absence of work
 - According to a study of the Deutsche gesetzliche Unfallversicherung the damage amounts to about 2 Bill €/year only for Germany and only for occupational injuries

Slip resistance – a matter of safety

There is urgent need for slip safety

- Slip safety (slip resistance) is influenced by many factors:
 - Shoe, lubricant, floor, person etc.

- However the floor is contributing a great part to slip safety –
 - the better the grip, the safer the floor
- Slip resistance testing enables us to get information on the grip and slip prevention of flooring materials needed
- Slip resistance testing - a new invention?



Slip resistance – many different tests



Slip resistance – tests – today´s situation

➤ **Today´s situation**

- Producer face growing responsibility for slip accidents
- Most Memberstates do have different tests
- High cost for having to carry out many different tests on the same product
- Rising threat of liability

➤ **Challenge:**

- Avoid unnecessary burden, costs and legal risks
- Make product safer and reduce legal risks
- Make testing easier and comparable

➤ **Solution:**

- Find the “right” slip resistance test
- Reduce testing costs by reducing the number of slip resistance tests

Slip resistance – tests - a challenge

- **What is the right test?**
- Criterion for the “right” test
 - reflect safety for pedestrian
 - Repeatable and reliable
 - Easy to handle
- **How to find the “right” test method?**
- Two Options:
 - 1) “reinvent the wheel”
 - 2) take what we have

Slip resistance – tests - a challenge

- CEN TC 339 decided for OPTION 1 and made a survey in Europe
 - Which tests are standardized and/or commonly in use
- Result of the survey:
 - More than 20 different standards for all kind of flooring materials
 - Most commonly uses test methods are:

<ul style="list-style-type: none"> ➤ Ramp test (barefoot and shoed) ➤ Pendulum ➤ Tribometer 	laboratory test portable test portable test	}	(all kind of flooring and uses) (no profiled floors)
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- However at least 7 different pendulum tests and 5 different friction tests

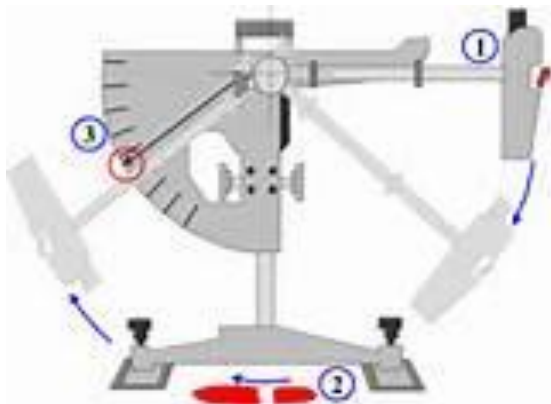
Slip resistance test

- Ramp test
- classification according intended use for all kind of uses and surfaces (structured or not structured)
- Classes R9 (lowest) to R 13 (highest)



Slip resistance test

- Pendulum test
- is a mobile test
- is limited on structured surfaces



Slip resistance test

- Tribometer test
- is a mobile test
- is limited on structured surfaces

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Thank You for Your attention

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