









New Global tendences

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2 New standards aproved on june 2017 and will be incorporase to buulding CODE this year

UNE 41901 EX.
PENDULUM TEST ON WET
SLIDER 55

UNE 41902 EX.
PENDULUM TEST ON DRY
SLIDER 96







### MEMBER EUROPEAN COMITE CENTC 339 Methods of Slip Resistance

#### REPRESENTANT OF SPANISH DELEGATION



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

#### **CENTS 16165 : Agosto 2016**

### Determination of slip resistance of pedestrian surfaces - Methods of evaluation



Método de la **Rampa Pies descalzos** 



Método de la Rampa Pies calzados



Método del **Péndulo de Fricción** 



Método del **Tribómetro GMG 200** 

4













### 83 of spanish Clients Manufacturers test all this products annualy with us















































































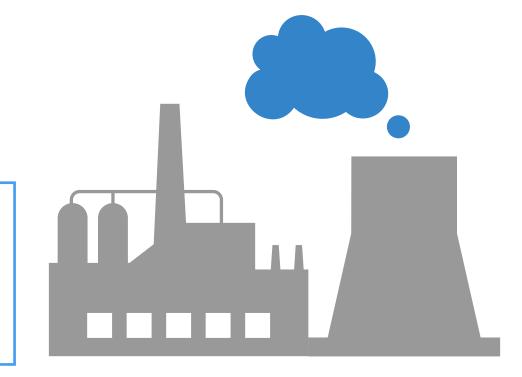




## All agents (manufacturers, laboratories for building quality) adapted for new standards



All manufacturers in Spain have adapted fabrication for compliance with the standards requested



+100 factories of floors (ceramic, plastic, wood, paints)

have & use Pendulum

All exports to international market



+ 45 laboratories for building quality use pendulum for laboratory & on site tests





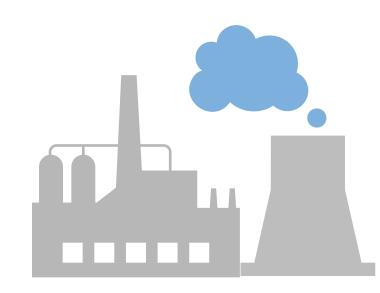


# All agents (manufacturers, laboratories for building quality) adapted for new standards

### Pendulum since 2006



EASY CONTROL manufacture items FACTORIES





EASY CONTROL design & construction Architects





**EASY CONTROL** use & maintenance Laboratories



### 2.3

### Periodic control facilities barefoot floors = Safety for users

- 01
- As in Spain All manufacturers have adapted fabrication & provide items for compliance with the standards requested for barefoot areas.

02

And there were **+ 45 laboratories** for building quality that **use pendulum** for laboratory & on site tests

It allowed

Periodic control facilities

### All barefoot floors have to be tested & meet standards

CLASS 2 35 < Rd\*! 45 Bathrooms and cloakrooms

CLASS 3 Rd\* > 45 Swimming pools areas

NOT COMPLETED NOT PERMISSION to open areas \*(70% floors)

**SOLUTION INITIAL ANTISLIP** treatments as eventual solution

with prevision to change floor in the short & medium term

FINAL SOLUTION NEW FLOORS (about 30% floors changed)



### Slip Resistance Group Spain

Asociación española para la prevención de caídas en el tránsito peatonal.



"Falls are not an ordinary risk of life." It is always a cause-effect relationship.

Home	Activities SRGS	Falls analysis	STOP Slips & falls	Resources	ObSRGS/Observatory	Contact
Association	Advice	Slips & falls	Floors 's problematics	Accessibility Order VIV	¿What is ObSRGS?	
Observatory	Experts	Report D.A.D.O.	STOP falls streets	Regulations CCAA	International projection	
Organization Chart	Courses completed	Falls for ages	STOP falls pools	Acces/Slipperiness	Collaborators SRGS	( 6 9-)
Who we are	Courses 2018-2019	Walking Cycles	Examples bad state	Slipperiness CTE	ObSRGS/Observa	
Independent Authority	Slips, Trips & Falls 2020	No ordinary Risk	Advice falls	Slipperiness Tests		



















Collaborators ObSRGS/ Observatorio de la SRGS

Los contenidos de video no se pueden visionar en formato móvil.



18 million english tourist in 2017 in Spain

Spain received 81.8 million international tourists in 2017, 8.6% more than in the previous year.

17.000 hotels in Spain



















Encavoc realizados nor Laboratorio de Dechaladicidad CI



