

# THE PENDULUM TESTING

## The pendulum test in compliance with CEN/TS 16165

This test measures dynamic coefficient of friction (CoF).

The test is designed to replicate a pedestrian heel strike, the point at which most slips occur.

When a pedestrian heel strikes a wet floor a fluid film is created between them, this can cause a slip.

This test works in wet conditions because it generates a similar fluid film between the slider and the floor.

It can be used to accurately test the slip potential on clean and dry or contaminated floors. The test also works with dry contaminants.

## Understanding pendulum data

Pendulum results are referred to as Pendulum Test Values (PTV).

When the test is operated properly, the PTV should be interpreted as shown in the table.

This table relates to pedestrians walking in a straight line on a level surface. For **other activities** or inclined surfaces, the table figures will change.

The slider referred to in the test data is also important. There are two sliders commonly used, one for shod pedestrians, one for barefoot. You need to make sure the right slider has been used.

## Role of the different sliders

**Slider 96** (also known as Four-S rubber):

The harder of the two sliders is used to represent shod pedestrians.

Use in areas where pedestrians are likely to be wearing footwear.

**Slider 57** (also known as TRRL or TRL rubber):

The softer of the two sliders is used to represent barefoot pedestrians.

Use in areas such as swimming pools, bathrooms, changing areas.

PTV	Slip Potential
0 - 24	High
25 - 35	Moderate
36+	Low

# THE PENDULUM TESTING

## ABERDEEN

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2987	SB10, SB60, SB70, SB90	>36	>40	>36	>40
2577	SB10, SB60, SB70, SB90	>36	>40	>36	>40
2576	SB10, SB60, SB70, SB90	>36	>40	>36	>40
2988	SB10, SB60, SB70, SB90	>36	>40	>36	>40
2685	SB1M, SB6M, SB7M, SB9M	>36	>40	>36	>40
2526	SB1R, SB6R, SB7R, SB9R	>40	>40	>40	>40
2536	SB1V, SB6V, SB7V, SB9V	>40	>40	>40	>40
2617	SB10, SB60, SB70, SB90	>36	>40	>36	>40
2628	SB10, SB60, SB70, SB90	>36	>40	>36	>40
2628	SB1M, SB6M, SB7M, SB9M	>36	>40	>36	>40
2628	SB1R, SB6R, SB7R, SB9R	>40	>40	>40	>40
2628	SB1V, SB6V, SB7V, SB9V	>40	>40	>40	>40
2732	SB10, SB60, SB70, SB90	>36	>40	>36	>40

## ATLANTA

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2730	AL10, AL40, AL60, AL70, AL80, AL90	<36	>40	<36	>40
2660	AL10, AL40, AL60, AL70, AL80, AL90	<36	>40	<36	>40
2394	AL10, AL40, AL60, AL70, AL80, AL90	<36	>40	<36	>40

## HUDSON

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2987	SD1B, SD2B, SD7B, SD9B	>36	>40	>36	>40
2988	SD1B, SD2B, SD7B, SD9B	>36	>40	>36	>40
2577	SD1B, SD2B, SD7B, SD9B	>36	>40	>36	>40
2577	SD1L, SD2L, SD7L, SD9L	<36	>40	<36	>40
2577	SD1M, SD2M, SD7M, SD9M	>36	>40	>36	>40
2576	SD1B, SD2B, SD7B, SD9B	>36	>40	>36	>40
2576	SD1L, SD2L, SD7L, SD9L	<36	>40	<36	>40
2576	SD1M, SD2M, SD7M, SD9M	>36	>40	>36	>40
2526	SR1R, SD2R, SD7R, SD9R	>40	>40	>40	>40
2419	SD1B, SD2B, SD7B, SD9B	>36	>40	>36	>40
2852	SD1B, SD2B, SD7B, SD9B	>36	>40	>36	>40
2575	SD1M, SD2M, SD7M, SD9M	>36	>40	>36	>40
2525	SR1R, SD2R, SD7R, SD9R	>40	>40	>40	>40
2013	SD1B, SD2B, SD7B, SD9B	>36	>40	>36	>40

## LUCCA

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2761	LS06, LS60, LS70, LS90	<36	>40	<36	>40
2871	LS06, LS60, LS70, LS90	<36	>40	<36	>40
2870	LS06, LS60, LS70, LS90	<36	>40	<36	>40

## MARMOCHIC

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2660	MR0M, MR9M	<36	>40	<36	>40
2660	MR0P, MR9P	<36	>40	<36	>40

## MERIDA

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2776	AJ10, AJ20, AJ60, AJ90	<36	>40	<36	>40
2679	AJ10, AJ20, AJ60, AJ90	<36	>40	<36	>40

## METALYN

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2730	BM06, BM10, BM40, BM60, BM61, BM70	<36	>40	<36	>40
2810	BM06, BM10, BM40, BM60, BM61, BM70	<36	>40	<36	>40
2660	BM06, BM10, BM40, BM60, BM61, BM70	<36	>40	<36	>40

## OAK PARK

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2793	HR00, HR10, HR20, HR30, HR80	<36	>40	<36	>40
2792	HR00, HR10, HR20, HR30, HR80	<36	>40	<36	>40

## PRO ARCHITECTURA 3.0

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2014	C411, C460, C471, C490, C491	<25	>36	<25	>36
2118	C411, C460, C471, C490, C491	>36	>36	<36	>36
2119	C411, C460, C471, C490, C491	>36	>36	>36	>36
2120	C411, C460, C471, C490, C491	>36	>36	>36	>36
2121	C411, C460, C471, C490, C491	>36	>36	<36	>36
2122	C411, C460, C471, C490, C491	>36	>36	>36	>36
2200	C211, C260, C261, C264, C265, C266, C270, C271, C272, C290, C291, C221, C227, C240, C244, C245, C255, C281, C411, C460, C461, C464, C465, C466, C471, C472, C490, C491	<36	>36	<36	>36
2205	C211, C290, C240, C244,	>36	>36	>36	<36
2213	C411, C460, C471, C490, C491, C211, C260, C270, C271, C290, C291	<25	>36	<25	>36
2214	C411, C460, C471, C490, C491	<25	>36	<25	>36
2215	C411, C460, C471, C490, C491	<36	>36	<36	>36
2218	C411, C460, C471, C490, C491	<25	>36	<25	>36
2219	C411, C460, C471, C490, C491	>36	>36	>36	>36
2225	C411, C491				
2226	C441, C491				
2231	C411, C460, C471, C490, C491	<25	>36	<25	>36
2247	C211, C290, C240, C244,	>36	>36	>36	<36
2248	C211, C260, C270, C271, C290, C291, C240, C244	<36	>36	<36	>36
2253	C411, C460, C471, C490, C491	>36	>36	>36	>36
2405	C211, C260, C270, C271, C290, C291	<36	>36	<36	>36
2600	C411, C460, C471, C490, C491	<36	>36	<36	>36
2702	C211, C290, C240, C244,	<36	>36	<36	>36
2706	C211, C260, C270, C271, C290, C291, C240, C244, C290, C411, C460, C471, C490, C491	<36	>36	<36	>36
3213	C300, C390, C344, C349	<36	>36	<36	>36
3214	C300, C390, C344, C349	<36	>36	<36	>36
3245	C300, C390, C344, C349	<36	>36	<36	>36
3246	C300, C390, C344, C349	<36	>36	<36	>36
3709	C300, C310, C311, C360, C361, C371, C372, C390, C391, C320, C335, C349, C352, C355	<25	>36	<25	>36
3753	C300, C310, C311, C360, C361, C371, C372, C390, C391	<25	>36	<25	>36

## PURE BASE

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2360	BZ06, BZ10, BZ40, BZ60, BZ70	>40	>40	>40	>40
2361	BZ06, BZ10, BZ40, BZ60, BZ70	>40	>40	>40	>40
2835	BZ06, BZ10, BZ40, BZ60, BZ70	>40	>40	>40	>40

## PURE LINE 2.0

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2750	UL10, UL60, UL61, UL62, UL70, UL72, UL80, UL90	<36	>40	<36	>40
2751	UL10, UL60, UL61, UL62, UL70, UL72, UL80, UL90	<36	>40	<36	>40
2752	UL10, UL60, UL61, UL62, UL70, UL72, UL80, UL90	<36	>40	<36	>40
2753	UL10, UL60, UL61, UL62, UL70, UL72, UL80, UL90	<36	>40	<36	>40
2754	UL10, UL60, UL61, UL62, UL70, UL72, UL80, UL90	<36	>40	<36	>40
2620	UL10, UL60, UL61, UL62, UL70, UL72, UL80, UL90	<36	>40	<36	>40
2617	UL10, UL60, UL61, UL62, UL70, UL72, UL80, UL90	<36	>40	<36	>40

# THE PENDULUM TESTING

## SPOTLIGHT

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2810	CM0M, CM6M, CM7M, CM9M	<36	>40	<36	>40
2810	CM0L, CM6L, CM7L, CM9L	>36	>40	>36	>40
2660	CM0M, CM6M, CM7M, CM9M	<36	>40	<36	>40
2660	CM0L, CM6L, CM7L, CM9L	>36	>40	>36	>40
2733	CM0M, CM6M, CM7M, CM9M	<36	>40	<36	>40
2394	CM0M, CM6M, CM7M, CM9M	<36	>40	<36	>40
2919	CM05, CM65, CM75, CM95	<36	>40	<36	>40
2030	CM0M, CM6M, CM7M, CM9M	<36	>40	<36	>40

## UNIT FOUR

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2361	CT10, CT60, CT61, CT62, CT70, CT80	>36	>40	>36	>40
2360	CT10, CT60, CT61, CT62, CT70, CT80	>36	>40	>36	>40
2680	CT10, CT60, CT61, CT62, CT70, CT80	>36	>40	>36	>40
2369	CT10, CT60, CT61, CT62, CT70, CT80	>36	>40	>36	>40
2363	CT10, CT60, CT61, CT62, CT70, CT80	>36	>40	>36	>40
2706	CT10, CT60, CT61, CT62, CT70, CT80	>36	>40	>36	>40

## URBAN JUNGLE

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2810	TC10, TC60, TC70, TC90	<36	>40	<36	>40
2660	TC10, TC60, TC70, TC90	<36	>40	<36	>40
2733	TC10, TC60, TC70, TC90	<36	>40	<36	>40

## X-PLANE

Art.-Nr.	Colour code	96-wet	96-dry	57-wet	57-dry
2357	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2356	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2349	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2392	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2353	ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2680	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2352	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2351	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2359	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2354	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40
2362	ZM00, ZM10, ZM20, ZM60, ZM70, ZM90, ZM91	<36	>40	<36	>40