

Pendulum Verification



Introduction

The verification procedure is an extremely important part of the testing procedure. It demonstrates to you, and all those making use of your results, that the instrument has been set up correctly and is functioning properly. The verification process is a key strength of the Pendulum test compared to other slip test methods. The Pendulum Tester should be verified at the start of each day of testing and after re-assembly or transportation of the equipment.



Accessories Required

The following are required in order to carry out the verification process:

- Conditioned rubber slider #55/TRL (881032/1) or #96/4S (881032/2)
- Lapping film – Green for #55/TRL (SX2277) and Pink for #96/4S (SX2276)
- Float Glass (SX2278)
- Pavigrés Conditioned Tile (SX2279/A for #55/TRL) or (SX2279/B for #96/4S)
- Sample Holder (SX2280)

All of the above are available direct from Munro Instruments.



The Verification Process

Verification is achieved by conducting a wet test on lapping film, float glass and then Pavigrés tile. 8 swings should be performed, and the median (or the mean) of the last 5 swings should be calculated. The first 3 swings will allow the rubber to condition itself to the individual surface and then the next 5 swings should be monitored for the verification values. Measurements should be carried out in the wet, spraying the surface after each swing, using the water bottle in the accessory kit. Verification values should be recorded and linked to subsequent test results.



Acceptable Values

The verification surfaces used have a range of acceptable values which differ depending on the rubber slider used.

Surface	Slider #55/TRL	Slider #96/4S
Pink Lapping Film	n/a	59-64PTV
Green Lapping Film	60-66PTV	n/a
Float Glass	5-10PTV	5-10PTV
Pavigrés Tile	13-19PTV	32-36PTV

It should be noted that verification of the Pendulum with the #55/TRL slider was dropped from the UKSRG Guidelines in 2016 (Issue 5). Munro Instruments recommend, for the UK, that verification is conducted only with slider #96/4S even if subsequent testing is conducted with slider #55/TRL.



Troubleshooting

If these values are not obtained, you must not proceed with testing. The pendulum set-up procedure (including slider conditioning) should be re-performed. In particular it is worth checking:

- The machine reads zero when lifted free from the test surface.
- The machine is level.
- The nut holding the Pendulum arm to the Pendulum head is secure (use the C spanner).
- The machine is secure on the surface and does not move when the arm swings (consider anti-slip pads and a weight on the back foot).
- The rubber slider is properly prepared and free from damage.

If you continue to experience difficulties verifying your instrument, please contact Munro Instruments for further assistance, service, or repair.

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