Extract from a report compiled by the Health & Safety Laboratory showing the results of tests undertaken in 2005 into the measurement of surface slipperiness of fibreglass grating.

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Telephone: 01298 21 8000
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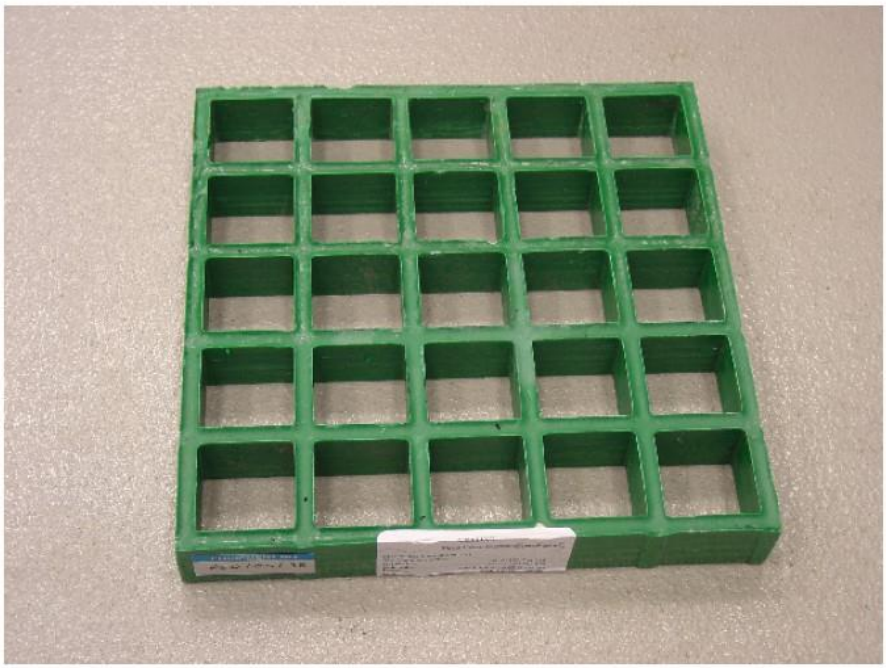
HEALTH & SAFETY LABORATORY

Sample number PED/05/98 – 25mm green concave



Concave surface

***Rz Surface Roughness*:** Not possible to measure edge of ridges

Pendulum SRV (Four-S Rubber Slider)

Condition	Contamination	Test Direction	SRV
As-found	Dry	Direction I:	61
As-found	Dry	Direction II:	60
As-found	Dry	Direction III:	86

Condition	Contamination	Test Direction	SRV
As-found	Water-wet	Direction I:	47
As-found	Water-wet	Direction II:	52
As-found	Water-wet	Direction III:	93

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Flat surface

***Rz Surface Roughness*:** 12.06µm (mean)

Pendulum SRV (Four-S Rubber Slider)

Condition	Contamination	Test Direction	SRV
As-found	Dry	Direction I:	62
As-found	Dry	Direction II:	65
As-found	Dry	Direction III:	68

Condition	Contamination	Test Direction	SRV
As-found	Water-wet	Direction I:	47
As-found	Water-wet	Direction II:	45
As-found	Water-wet	Direction III:	49

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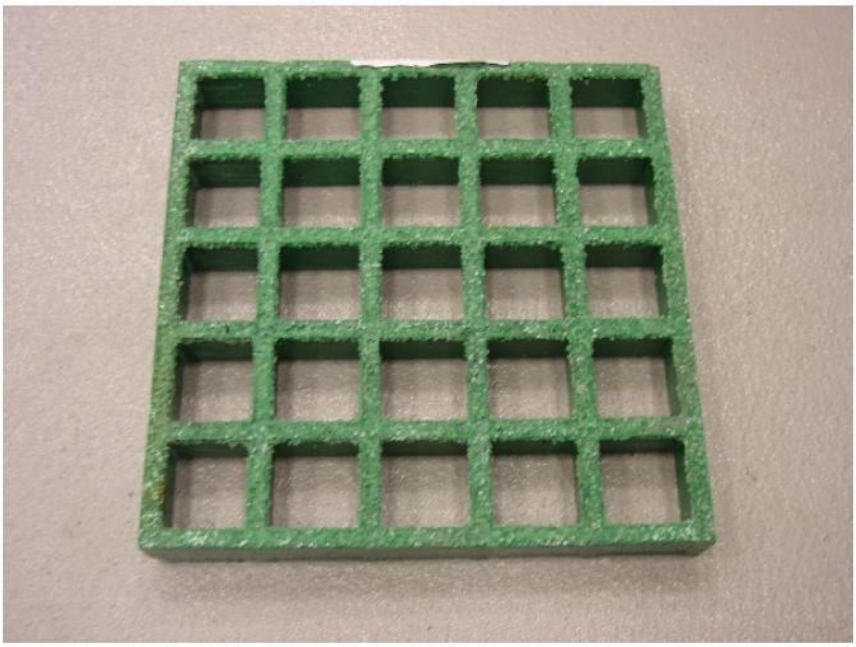
Sample number PED/05/99 – 25mm green gritted



***Rz Surface Roughness*:** Beyond range of instrument

Pendulum SRV (Four-S Rubber Slider)

Condition	Contamination	Test Direction	SRV
As-found	Dry	Direction I:	71
As-found	Dry	Direction II:	79
As-found	Dry	Direction III:	68

Condition	Contamination	Test Direction	SRV
As-found	Water-wet	Direction I:	71
As-found	Water-wet	Direction II:	74
As-found	Water-wet	Direction III:	60

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Sample number PED/05/98 – 25mm green concave
Measurements were conducted on both the concave surface and the flat surface. Given the likelihood of significant wear during use of the concave surface, the flat side of the material was tested to give an indication of how the material might perform without the sharp edges to the concave profile.

Concave surface
Microroughness data for the concave surface could not be generated due to the extremely narrow nature of the edges of the profile.

Pendulum data shows the concave surface to present a low slip risk in both wet and dry conditions when the direction of testing is parallel to the lines of the grid. When the direction of testing is at approximately 45 degrees to the lines of the grid, the sample presents an extremely low slip risk in dry and water-wet conditions.

During testing, shards of plastic were broken off due to the brittle nature of the material and the impact of the pendulum on the surface. Due to the degeneration of the surface during testing, it is believed that the surface when in use and subject to wear, might not perform as during testing.

The pendulum numbers for direction iii in wet conditions suggests that the surface has a higher slip resistance in the wet. It is believed that due to the very narrow edges of the plastic profile, it would not be possible for a film of water to form on these edges and this might explain the erroneous result in water-wet conditions.

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Flat surface
Microroughness data for the flat surface suggests that it would present a moderate slip risk in water-wet conditions.

Pendulum data generated suggest that the surface would present a low/ extremely low slip risk in dry conditions and a low slip risk in water-wet conditions. When differences in slip risk classification based on surface roughness and pendulum data occur, precedence should be given to data generated by the pendulum test method. This surface should therefore be considered to pose a low/ extremely low slip risk in dry conditions, and a low slip risk in the water-wet condition.

Sample number PED/05/99 – 25mm green gritted
Microroughness data could not be generated from the sample, due to the level of roughness exceeding the range of the instrument. This suggests that the microroughness measurement would be at least 100µm, and the sample would therefore present a low slip risk in the water-wet condition.

Pendulum data shows the sample to present an extremely low slip risk in dry conditions and a low slip risk in wet conditions.

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