



Polished Stone Values for Surface Treatments

Accepted PSV's for Aggregates used in
Surfacing and Surface Dressing
treatments

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Transportation Waste and Environment Service

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Introduction

The in service skidding performance of surfacing materials is dictated by the ability of the aggregates that make up that surfacing to resist polishing caused by the action of the vehicles tyres passing over it. This property has generally been classified in the UK by Polished Stone Values (PSV) as determined in the laboratory by tests in accordance with BSEN 1097-8.

HD28/04 and HD36/06 respectively set out the general criteria for the determination of wet skidding investigatory levels and suggested PSV levels to achieve the required long term wet skidding performance

The relative performance of aggregates one to another varies not only by aggregate type but also by location, traffic flow, environment and nominal aggregate size. Additionally experience has shown that the in service performance of two aggregates with the same nominal PSV can vary significantly even when laid in the same location. For this reason HS36/06 states "Where designers are knowledgeable or have other experience of particular site conditions, an alternative PSV value can be specified".

Cornwall Council has long undertaken regular monitoring of the skidding resistance of its key network by the use of SCRIM surveys. This data, allied to a regime of recording aggregates sources utilized in surface treatments, has enabled an extensive picture to be built up of the actual in service performance of commonly used aggregates within the County.

In common with other local authorities we have used this data to derive what we consider to be appropriate classifications for differing aggregates sources. For ease of classification we have called this "Accepted PSV". It should be noted that the accepted PSV contained in this document may differ from that achieved in the laboratory. The currently accepted values are set out in the Table 1 below.

The use of any aggregate not listed in this document is prohibited in any surface course or surface treatment which will form the permanent running surface.

Approvals of new aggregate sources must be accompanied by in service data from a reputable source and will be at the absolute discretion of the Infrastructure Asset Manager.

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Table 1 – Accepted PSV's for Cornwall

Supplier	Quarry	Aggregate Type	Accepted PSV*
Aggregate Industries	Ballystockhart	Gritstone	60
	Blackhill	Quartzite	55
	Cansford	Gritstone	68
	Cribarth	Gritstone	68
	Cwm Nant Lleici	Gritstone	68
	Greystone	Dolerite	57
	Hillhead	Quartzite	55
	Melbur	Granite	55
	Millom	Gritstone	60
Cemex	Gilfach	Gritstone	68
	Quartzite	Quartzite	65
Colas	Carnsew	Granite	55
	West of England	Diorite	53
Cormac Solutions	Castle-an-Dinas	Granite	57
Glendinning	Penhill	Gritstone	68
Hanson	Bray Valley	Gritstone	60
	Cashel	Gritstone	60
	Craig Yr Hesg	Gritstone	68
	Hingston Down	Granite	55
Lawer Bros	Chywoon	Granite	55
Tarmac	Bwlch Ffos	Gritstone	68
	Bantry Bay	Gritstone	60
	Dolyhir	Gritstone	60

* Accepted PSV based on in service data

N.B. blending of coarse aggregates to achieve a specified PSV will only be permitted up to and including 57 PSV.

Any blend must be approved by the Infrastructure Asset Management Team prior to supply

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