

Polished Stone Value

Test Method
RC 374.01
February 2022

Abstract

Describes changes to the base reference method, BS EN 1097-8:2020 – *Tests for mechanical and physical properties of aggregates - Determination of the polished stone value*, appropriate to Victorian conditions.

1. Procedure

As for BS EN 1097-8:2020, except with the following changes:

Clause in BS EN 1097-8: 2020	Change to:	
Clause 5.2.3	A suitable source of PSV control stone has a mean PSV in the range 46 to 60,	
Clause 5.2.3, Note 1	Source code	At February 2022, the recognised sources of PSV control stone are:
	1) SbG	2011 UK PSV control stone with specified mean PSV of 49.0. Supply controlled by Cooper Wessex (UK), and validated in reference (1).
	2) HhG	German Herrnholzer granite PSV control stone with mean PSV of 56.1. Supply controlled by Technische Universität München (TUM), MPA Bau – Abteilung Baustoffe, Baumbachstrasse 7, 81245 München, Germany, and validated in reference (2).
Clause 5.2.4, Note 1	The Friction Tester Reference Stone shall be Mt Fraser Scoria, instead of the Olivine Basalt as described in clause 5.2.4, Note 1.	
Clauses 7.6 & 7.7	The tiles shall be manufactured with a high alumina cement mortar, instead of the use of epoxy resin as detailed in clauses 7.6 and 7.7.	
Clause 11.2	(Second sentence change only: The specified range for the 2011 UK PSV control stone (SbG) is (49.0 +/- 3)	
Clause 11.3.3	Calculate the PSV to the nearest whole number, from the following equation: PSV = S + X – C , where: S is the mean value for the four aggregate test specimens X is the mean PSV specified for the source of control stone used C is the mean value for the four PSV control stone specimens.	
Clause 12.1	Test Report: Same as for BS EN 1097-8:2020, except add: (j) Three letter source code for the PSV control stone used and batch number, if available.	

Clause in BS EN 1097-8: 2020	Change to:
References	<p>(1) For assigning the mean PSV to 2011 UK PSV control stone Alan DUNFORD, PPR603 – <i>Establishing a new supply of UK PSV control stone</i>, Transport Research Laboratory 2013.</p> <p>(2) For assigning the mean PSV to Herrnholzer granite: Yannick DESCANTES & Erwan HAMARD (Université Gustave Eiffel), <i>Parameters influencing the polished stone value (PSV) of road surface aggregates</i>, Construction and Building Materials, December 2015.</p>

Department of Transport Test Method - Revision Summary
RC 374.01 – Polished Stone Value

Version	Date	Clause	Description of Revision	Authorised by
2.0	February 2022	Abstract Clause references Clauses changed References	Updated to reference BS EN 1097-8: 2020 Clauses have been re-numbered (clause on sampling deleted) Deleted code SwD control stone – supply exhausted. Code HhG control stone has mean PSV of 56.1. Deleted change to Note 2. Adjusted reference to report PPR603 Added Descartes & Hamard paper	Principal Engineer – Pavements, Geotech. & Materials
	March 2014	Full document Clauses above	Updated to reference BS EN 1097-8: 2009 Added specific requirements for control stone	Manager – Construction Materials
	June 2013	Full document	Re-styled with minor corrections made	Manager – Construction Materials

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