

# Test Method

## Polished Stone Value

**RC 374.01**  
**February 2024**  
**Version 7.0**

### 1 Scope

This test method is based on the reference method BS EN 1097-8:2020 – *Tests for mechanical and physical properties of aggregates – Part 8: Determination of the Polished Stone Value* (“base reference method”). This document describes the changes made to the base reference method to adapt it to Victorian conditions.

### 2 Procedure

**Table 1 – Changes to Clauses in BS EN 1097-8:2020**

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 2024, the recognised sources of PSV control stone are:
	1) SbG	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).
	3) PcS	Panmure control stone with a mean PSV of 54.7
Clauses 6.7 (c), 7.6, 7.7, A.3.2	High alumina cement mortar can be used as an alternative to the synthetic resin and hardener detailed in clauses 6.7 (c), 7.6, 7.7 and A.3.2 in the manufacture of the test specimens.	
Clause 11.2	Same as for BS EN 1097-8:2020, except add to the second paragraph: The specified range for the UK PSV control stone (SbG) is (49.0 +/- 3) The specified range for the Panmure PSV control stone (PcS) is (54.7 +/- 4)	
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.	

## References

- (1) For assigning the mean PSV to 2011 UK PSV control stone:  
Alan DUNFORD, PPR603 – *Establishing a new supply of UK PSV control stone*, Transport Research Laboratory 2013.
- (2) For assigning the mean PSV to Herrnholzer granite:  
Yannick DESCANTES & Erwan HAMARD (Université Gustave Eiffel), *Parameters influencing the polished stone value (PSV) of road surface aggregates*, Construction and Building Materials, December 2015.

## Document Information

Criteria	Details
Document Title	Test Method RC 374.01 – Polished Stone Value
Authorised by	Senior Manager Roads Engineering
Release Date	February 2024
Replaces	Version 6.0 dated February 2022
Contact	StandardsManagementRD@transport.vic.gov.au

## Document History

Version	Date	Description
7.0	February 2024	Re-styled with minor corrections made Removed clause permitting the use of only Mt Fraser Scoria reference stone. Added clause permitting the use of Panmure control stone Updated to permit the manufacture of tiles using high alumina cement or synthetic resin and hardener
6.0	February 2022	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 reference to Descantes & Hamard paper
5.0	March 2014	Updated to reference BS EN 1097-8: 2009 Added specific requirements for control stone
4.0	June 2013	Re-styled with minor corrections made

## Interpretation

In this document, except where the context otherwise requires—

- The word “must” is to be understood as denoting a requirement which is mandatory.
- The word “should” is to be understood as denoting a requirement which is not mandatory but recommended.
- The word “includes” in any form is not a word of limitation. Mentioning anything after “includes” or similar expressions (including “for example”) does not limit what else may be included.
- A reference to a section, clause, schedule or appendix is a reference to a clause of or schedule or appendix of this document.

## Nomenclature

Where any of the following symbols are used within this document, the textual description provided to the right is its intended meaning:

① This symbol intends the accompanying text to be read as INFORMATION. Common information accompanying this symbol includes RATIONALE and GUIDANCE for the associated requirement.

## Copyright

Department of Transport and Planning 2024

Except for any logos, emblems, trademarks, artwork and photography this document is made available under the terms of the Creative Commons Attribution 3.0 Australia license.

The information in this document is protected and no part of this document is to be modified without the prior consent of the Victorian Department of Transport and Planning.

## Disclaimer

The Victorian Department of Transport and Planning accept no liability for any loss or damage to any person, howsoever caused, for information contained in this publication that was copied directly into a specification, contract or standard without further analysis, decomposition and engagement with DTP.