

PRODUCT SPECIFICATION

WSA PS - 361- SEW 7 MM BLENDED FINE CRUSHED ROCK MIX FOR PIPE EMBEDMENT

(Replaces Section 2.2 of WITS Specification 95-007.1)

361.1 SCOPE

This specification nominates requirements for fine crushed rock used as pipe embedment within South East Water's district.

This specification does not cover recycled, reuse or waste products.

361.2 DEFINITION

Fine crushed rock is a manufactured product produced from the crushing and screening of non-sedimentary quarried rock (including scoria¹). It has a particle size ≤ 7 mm and varies with the type of rock quarried for production.

361.3 REQUIREMENTS

Embedment fine crushed rock shall consist of hard durable particles free from dust, clay and other deleterious material, produced in a controlled manner to close tolerances of grading, allowing the product to have filtering properties.

Embedment fine crushed rock shall:

- (a) comply with requirements of Table 361.1.
- (b) have a grading² complying with Table 361.2-SEW.
- (c) have a resistivity³ greater than 15 Ohm.m when tested in accordance with AS 1289.4.4.1:1997.
- (d) have a pH in the range of 5 – 9 when determined in accordance with AS 1289.4.3.1:1997.
- (e) be free from noxious weeds as proclaimed by relevant regulators.
- (f) be free from dangerous chemicals as proclaimed by relevant regulators.

TABLE 361.1

GENERAL PROPERTIES OF 7MM EMBEDMENT FINE CRUSHED ROCK

Property	Property Value
Particle Density	(min) 1900Kg/m ³
Plasticity Index	(max) 10
Degradation Factor – Fines	(min) 50

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TABLE 361.2-SEW
7MM CRUSHED ROCK EMBEDMENT GRADING

Sieve Size Mm	Mass of sample passing %
6.70	95-100
4.75	80-95
2.36	40-60
1.18	25-45
0.6	15-35
0.3	5-25
0.15	0-20
0.075	0-10

361.4 QUALITY ASSURANCE

Fine crushed rock shall be quarried, processed and supplied under cover of a certified ISO 9001:2008 management system. The scope of the certification shall include "Quarrying, processing, cleaning and grading of crushed rock products" (or similar).

361.5 AGENCY OR PROJECT SPECIFIC REQUIREMENTS

Maximum moisture content at delivery, %	
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NOTES:

- 1 Use of fine crushed scoria in water reticulation works may be restricted by South East Water due to potential corrosive action of scoria on copper alloy items.
- 2 The grading requirements of this product may not be readily available in all locations.
- 3 Soil resistivity requirements are incorporated to provide optimum corrosion protection of ductile cast iron pipes and fittings when used in conjunction with loose polyethylene sleeving.

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