

DOCUMENT N°: 2012116920121534

DATE: 2012-06-19

PÁGE 1/-1

TEST PERFORMED:

Several permeability tests on cylindrical specimens submitted by the applicant

SAMPLE REFERENCE:

Sample submitted by requerente.Pavimento Aquastone

DATE OF RECEIPT OF SAMPLE:

2012-05-23

CLIENT :

ACORUS - Engenharia,Lda  
Rua Central de Mandim, S/n  
4475 023 Maia

WORK :

Acorus - Engenharia,Lda

NOTES:

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## 1. Introduction

At the request of the applicant held the LGMC laboratory geotechnical and construction materials testing CICCOPN the vertical and horizontal permeability in cylindrical, shaped and delivered by the applicant ready for test specimens.

In carrying out the tests we followed the procedure described in EN 12697-19 standard is used in cylindrical specimens of bituminous mixtures used in drenates wear layers of road pavements.

## 2. Results

The samples were previously measured (see Report No. 2012116920121415). Permeability tests were performed on June 18, 2012 with water at 24 ° C with column height of water on the specimens and constant flow for a period of 60 s.

The test results obtained allow us to conclude that the specimens observed greater horizontal and vertical permeability values higher than those observed in draining bituminous mixtures applied in wear layers of road pavements.

Vertical permeability				
Specimen	1	2	3	4
Thickness of the test pieces (mm)	64,4	65,0	64,0	63,0
Diameter of test pieces (mm)	102,3	102,3	102,1	102,3
The height of the water column (mm)	300			
vertical flow (m <sup>3</sup> /s)	2,86 E-4	2,37 E-4	3,01 E-4	2,37 E-4
Vertical permeability coefficient (m/s)	7,46 E-3	6,18 E-3	7,76 E-3	6,05 E-3
Kv - Vertical permeability coefficient (average value) (m/s)	6,9 E -3			
Horizontal permeability				
The height of the water column (mm)	333			
Horizontal flow (m <sup>3</sup> /s)	3,80 E-4	5,29 E-4	4,66 E-4	5,35 E-4
Horizontal permeability coefficient (m/s)	3,55 E-3	4,94 E-3	4,37 E-3	5,01 E-3
Kh - Horizontal permeability coefficient (average value) (m/s)	4,5 E-3			