**SCOPE 39 ЛИ**

**Sofia, 15.05.2024**

**Pirinstroyinzhenering EAD**

**Construction testing laboratory**

**Patkontrol**

**Management address**: 2700 Blagoevgrad, 11 Ortseto Str, floor 1

**Laboratory address**: 2700 Blagoevgrad, Pokrovnishko Shosse Str.

**To perform testing of:**

| **Type of the scope:** *flexible* |
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| **№** | **Tested Products** | **Type of Test/Characteristic** | **Testing methods****(standard / validated method)** |
| **1** | **2** | **3** | **4** |
| 1. | Rock materials for: - bitumen mixtures, road pavements, airplane runways and other transportation areas;-non-connected and hydraulically connected mixtures to use in construction facilities and road construction (1)Construction soils (2) | 1.1. Granulometric composition | БДС EN 933-1 (1) |
| 1.2. Density in bulk | БДС EN 1097-3 (1) |
| 1.3. Grains density: -absolute density of grains -dry grains density -grains density in water-saturated surface-dry state -specific density of preliminary dried grains  | БДС EN 1097-6, (1) cl. 7,8,9; Appendix A  |
| 1.4. Water absorption  | БДС EN 1097-6, (1) cl. 7,8,9; Appendix B  |
| 1.5. Sand equivalent  | БДС EN 933-8+A1(1) |
| 1.6. Shape ratio | БДС EN 933-4 (1) |
| 1.7. Magnesium sulfate value  | БДС EN 1367-2 (1) |
| 1.8. Flat grains index | БДС EN 933-3 (1) |
| 1.9. Elastic module  | БДС 15130 (1) (2) |
| 1.10. Deformation module  | БДС 15130 (1) (2) |
| 1.11. Ratio of deformation modules E2:E1  | БДС 15130 (1) (2) |
| 1.12. Fine fraction contents  | БДС EN 933-1 (1) |
| 1.13. Water contents  | БДС EN 1097-5 (1) |
| 1.14. Adhesion between rock material and bitumen (degree of preservation of bitumen film)  | БДС EN 12697-11, cl. 7 (1) |
| 2. | Bitumen | 2.1. Penetration | БДС EN 1426 |
| 2.2. Softening temperature  | БДС EN 1427 |
| 3. | Bituminous mixtures  | 3.1. Volume density | БДС EN 12697-6, Procedure A, B, D  |
| 3.2. Maximal density | БДС EN 12697-5Appendix A |
| 3.3. Air pores content | БДС EN 12697-8  |
| 3.4. Resistance  | БДС EN 12697-34 |
| 3.5. Conditional plasticity  | БДС EN 12697-34 |
| 3.6. Particles size distribution. Granulometric composition  | БДС EN 1297-2+A1 |
| 3.7. Soluble bonding substance contents | БДС EN 12697-1, Appendix B, cl. B.2.1.  |
| 3.8. Indirect tensile strength  | БДС EN 12697-23 |
| 3.9. Sensitivity of bitumen specimen to water  | БДС EN 12697-12, Method A |
| 3.10. Asphalt specimen dimensions:-height;-diameter; | БДС EN 12697-29 |
| 4. | Bituminous layers  | 4.1. Volume density of bituminous specimen (core) | БДС EN 12697-6, Procedure A  |
| 4.2. Thickness of a bituminous pavement  | БДС EN 12697-36Destructive method  |
| 4.3. Degree of compaction | БДС EN 12697-9\* |

***Flexible scope:*** *Implementing a new version of standards/documents or standards/ documents replacing them is allowed. An updated list of standards/documents and their dated versions is provided by the laboratory.*

*\* Repealed but not replaced standard with regard to the testing method.*