**SUPPLAMENTARY FILE 1**

Additional measures of slipperiness, hardness and roughness of the materials are presented here in.

1. **Slipperiness**

Physical measures of anti-skidness of all the included materials were performed in laboratory of Slovenian National Building and Civil Engineering Institute based on SIST-TS CEN/TS 16165, Annex C.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Material** | **Thickness**  (m) | **Density**  (kg/m3) | **Average Anti-skidness**  (-) | |
| Parallel | Perpendicular |
| Oak, untreated | 0,018 | 767 | 54 | 75 |
| Oak, lacquered | 0,019 | 724 | 93 | 97 |
| Spruce, untreated | 0,018 | 414 | 69 | 74 |
| Spruce, lacquered | 0,019 | 394 | 91 | 86 |
| Oak imitation (on particleboard) | 0,028 | 674 | 47 | 43 |
| Oak veneer (on particleboard) | 0,017 | 717 | 59 | 55 |
| Kerrock® | 0,012 | 1662 | 29 | 28 |
| Glass | 0,010 | 2505 | 75 | 74 |

1. Hardness

Physical measures of hardness of all the included materials were performed in laboratory of Slovenian National Building and Civil Engineering Institute based on Mosh Method.

|  |  |  |  |
| --- | --- | --- | --- |
| **Material** | **Thickness**  (m) | **Density**  (kg/m3) | **Hardenss (Mohs)**  (-) |
| Oak, untreated | 0,018 | 767 | < 5 |
| Oak, lacquered | 0,019 | 724 | < 5 |
| Spruce, untreated | 0,018 | 414 | < 5 |
| Spruce, lacquered | 0,019 | 394 | < 5 |
| Oak imitation (on particleboard) | 0,028 | 674 | < 5 |
| Oak veneer (on particleboard) | 0,017 | 717 | < 5 |
| Kerrock® | 0,012 | 1662 | < 5 |
| Glass | 0,010 | 2505 | 5 |

Physical measures of hardness of all the included materials were performed in laboratory of Slovenian National Building and Civil Engineering Institute based on Shore D Method.

|  |  |  |  |
| --- | --- | --- | --- |
| **Material** | **Thickness**  (m) | **Density**  (kg/m3) | **Hardenss (Shore D)**  (-) |
| Oak, untreated | 0,018 | 767 | 65 ± 8 |
| Oak, lacquered | 0,019 | 724 | 65 ± 3 |
| Spruce, untreated | 0,018 | 414 | 46 ± 14 |
| Spruce, lacquered | 0,019 | 394 | 47 ± 3 |
| Oak imitation (on particleboard) | 0,028 | 674 | 83 ± 3 |
| Oak veneer (on particleboard) | 0,017 | 717 | 67 ± 1 |
| Kerrock® | 0,012 | 1662 | 89 ± 1 |
| Glass | 0,010 | 2505 | ~ 100 |

1. Roughness

Physical measures of hardness of all the included materials were performed in laboratory of Slovenian National Building and Civil Engineering Institute using roughness tester Mitutoyo SJ-201.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Material** | **Thickness**  (m) | | **Density**  (kg/m3) | **Average Roughness, Ra**  (μm) | | |
| Paraller | Perpendicular | All directions |
| Oak, untreated | | 0,018 | 767 | 4,28 | 6,92 | - |
| Oak, lacquered | | 0,018 | 767 | 1,27 | 3,05 | - |
| Spruce, untreated | | 0,018 | 414 | 4,40 | 7,87 | - |
| Spruce, lacquered | | 0,018 | 414 | 0,58 | 1,61 | - |
| Oak imitation (on particleboard) | | 0,028 | 674 | - | - | 0,71 |
| Oak veneer (on particleboard) | | 0,017 | 717 | - | - | 0,71 |
| Kerrock® | | 0,012 | 1662 | - | - | 0,47 |
| Glass | | 0,010 | 2505 | - | - | 0,01 |