**SCOPE 71 ЛИ**

**LABKONSULT PLUS LTD.**

**TESTING LABORATORY**

**Management address:** 1700 Sofia, Lozenets Municipality, 18A, Simeonovsko Shosse Str.

**Laboratory address:** 1540 Sofia, Airport Sofia, North District

**To perform testing of**:

| **Type of the scope:** *flexible* | | | |
| --- | --- | --- | --- |
| **№** | **Tested products** | **Type of test/**  **Characteristic** | **Testing methods (standard/validated method)** |
| 1 | 2 | 3 | 4 |
| **1.** | **PIPES, FITTINGS, ELEMENTS AND SYSTEMS OF PIPELINES – PLASTIC, PRE-INSULATED, CERAMIC, METAL. SANITARY** **TAPWARE AND INDUSTRIAL VALVES** | | |
| 1.1. | Pipes, gutters, fittings, valves, mounting elements, systems and materials of plastics | * + 1. Appearance and colour | БДС EN 12201-2,3,4;  БДС EN 14758-1;  БДС EN ISO 15875-1,2,3;  БДС EN 1519-1;  БДС EN 12666-1+A1;  БДС EN 1555-2,3,4;  БДС EN ISO 1452-2,3,4;  БДС EN 1453-1;  БДС EN 1329-1;  БДС ЕN 1401-1+A1;  БДС ЕN 12200-1;  БДС EN 1451-1;  БДС EN 1852-1+А1;  БДС EN 1455-1;  БДС EN ISО 15874-2,3;  БДС EN ISO 15876-2,3;  БДС EN 13476-1;  БДС EN 13476-2,3+А1;  БДС EN ISO 21003-2,3;  ISO 17484-1;  БДС EN ISO 22391-2,3;  ISO 16422-1,2  БДС ISO 17885;  БДС EN 17176-2+А1;  СД CEN/TS 17176-3 |
| 1.1.2. Dimensions (Geometrical characteristics) | БДС EN ISO 3126;  ISO 161-1;  БДС EN ISO 228-1;  ISO 265-1;  БДС EN 1254-2,3, 20;  БДС EN 10226-1 |
| 1.1.3. Hydrostatic strength (resistance to internal hydrostatic pressure) for pipes/fittings with a diameter up to 1000 mm | БДС ЕN ISO 1167-1,2,3,4;  БДС EN 917;  БДС EN ISO 3458;  БДС ISO 17885;  БДС EN 12106;  ISO 5208;  ISO 17456;  ISO 16422-1,2  БДС EN 12201-3, Annex D;  БДС EN 1555-3, Annex B |
| 1.1.4. Longitudinal reversion | БДС EN ISO 2505 |
| 1.1.5. Tensile strength / yield strength/ at break (rupture) | БДС EN ISO 527-1,2,3;  БДС EN ISO 3167;  БДС ЕN ISO 6259-1,2,3 |
| 1.1.6. Tensile elongation / in yield strength / at break (rupture) | БДС EN ISO 527-1,2,3;  БДС EN ISO 3167;  БДС ЕN ISO 6259-1,2,3 |
| 1.1.7. Melt flow rate | БДС EN ISO 1133-1,2 |
| 1.1.8. Impact resistance of tees | БДС ЕN 1716; ISO 13957 |
| 1.1.9. Leak tightness under internal pressure subjected to bending/ resistance to bending between supports / during and after bending load | БДС EN ISO 3503;  БДС EN ISO 3458;  БДС EN ISO 13783;  БДС EN ISO 13845;  БДС ЕN ISO 1167 -1,2,3,4;  БДС ЕN ISO 8233  БДС EN 1680;  БДС ЕN 12100 |
| 1.1.10. Leak tightness under internal pressure | БДС EN ISO 3458;  БДС ISO 17885;  БДС EN ISO 13783;  БДС EN ISO 13845;  БДС ЕN ISO 1167-1,2,3,4;  БДС EN 917 |
| 1.1.11. Density | БДС EN ISO 1183-1 |
| 1.1.12. Resistance to pull-out and leak tightness under constant longitudinal force | БДС EN ISO 3501;  ISO 17484-1 |
| 1.1.13. Resistance (tensile strength) - of butt welding/ of fabricated and mechanical fittings | ISO 13953;  ISO 13951;  БДС ISO 17885 |
| 1.1.14. Vicat softening temperature VST | БДС EN ISO 306;  БДС EN ISO 2507-1,2,3 |
| 1.1.15. Water content | БДС EN ISO 1269;  БДС EN ISO 15512 |
| 1.1.16. Ring stiffness/ creep ratio | БДС EN ISO 9969;  ISO 13966;  БДС EN ISO 13967;  БДС EN ISO 9967 |
| 1.1.17. *Cross-linking degree*  *of PE* | БДС EN ISO 10147 |
| 1.1.18. Volatile matter content | БДС EN ISO 1269;  БДС EN 12099 |
| 1.1.19. Resistance to slow propagation of crack growth in notched pipes (Notch test) | БДС EN ISO 13479;  БДС ЕN ISO 1167-1,2 |
| 1.1.20. Resistance to slow propagation of crack growth in pipes (Cone test) | ISO 13480;  БДС ЕN ISO 1167-1,2 |
| 1.1.21. Resistance to dichloromethane | БДС ЕN ISO 9852 |
| 1.1.22. Water absorption (water content)/ water diffusion coefficient | БДС EN ISO 62 |
| 1.1.23. Effect of heating | БДС EN ISO 580;  БДС ISO 12091 |
| 1.1.24. Resistance /impact strength/ to impact loading | БДС EN 1705;  БДС EN ISO 11173;  БДС EN ISO 3127;  БДС EN ISO 13263;  БДС EN ISO 6603-1,2;  ISO 17484-1;  БДС EN 13476-2+A1, Annex К;  БДС EN 13476-3+A1, Annex К |
| 1.1.25. Tensile-impact strength | БДС EN ISO 8256 |
| 1.1.26. Leak tightness/ water tightness | БДС EN ISO 13254;  БДС EN ISO 13255;  БДС EN ISO 13846 |
| 1.1.27. Ash content - residue | БДС EN ISO 3451-1,4,5 |
| 1.1.28. Determination of orientation factor (coefficient) in length, by compressibility and by diameter (circumference) and/or by changing the outside diameter | БДС EN 17176-2+А1, Annex Е;  СД CEN/TS 17176-3, Annex В;  БДС EN ISO 2505 |
| 1.1.29. Cohesive /  decohesive strength of fittings for electrofusion  -Peel decohesion test for polyethylene (PE) assemblies for pipes with nominal outside diameter dn ≥90 mm  -Crushing decohesive test for polyethylene (PE) assemblies with nominal outside diameter 16≤dn≤225  - Crushing cohesive test for polyethylene (PE) saddle joints | ISO 13954  БДС ISO 13955  ISO 13956 |
| 1.1.30. Leak tightness under external hydrostatic pressure/ vacuum | БДС EN ISO 3459;  БДС ЕN ISO 13056;  БДС EN ISO 13844 |
| 1.1.31. Deformation by crushing (crushing test) | БДС EN 802;  ISO 9853 |
| 1.1.32. Impact resistance under Charpy and Izod methods | ISO 9854-1,2;  БДС EN ISO 179-1,2;  БДС EN ISO 13802;  БДС EN ISO 180 |
| 1.1.33. Ring flexibility/ integrity of the structure after deflection | БДС EN ISO 13968 |
| 1.1.34. Tensile modulus | БДС EN ISO 527-1,2,3,4;  БДС ЕN ISO 6259-1,3 |
| 1.1.35. Tensile strength of the welding/ adhesive seam | БДС ЕN ISO 13262;  БДС EN ISO 527-1,2,3,4;  БДС EN ISO 12814-2 |
| 1.1.36. Operating torque/ actuation mechanism resistance/ support resistance in opening and closing | БДС EN ISO 8233 |
| 1.1.37. Resistance to adhesion (separation/ delamination) between layers | ISO 17454;  ISO 17484-1 |
| 1.1.38. Long-term hydrostatic strength - time and burst pressure | ISO 17456;  БДС ЕN ISO 1167-1,2 |
| 1.1.39. Resistance to liquid chemicals (mass change, modulus of elasticity, tensile strength / at yield strength / at break and at elongation at yield / at break) | БДС EN ISO 527-1,2,3,4;  БДС ЕN ISO 6259-1,2,3;  ISO 4433-1,2,3;  БДС EN ISO 175;  ISO 17484-1 |
| 1.1.40. Leak tightness of systems with elastomeric sealing rings (diametrical or angular deflection) | БДС ЕN ISO 13259;  БДС EN ISO 13845 |
| 1.1.41. Bending test | БДС EN 12814-1;  БДС EN 1680;  БДС EN 1704;  БДС EN ISO 2818;  ISO 17484-1 |
| 1.1.42. Mechanical strength or flexibility of fittings | БДС EN ISO 13264 |
| 1.1.43. Resistance to stress cracking at tensile creep test (FNCT/ 2NCT) | БДС ISO 16770;  БДС EN ISO 12814-3 |
| 1.1.44. Resistance to delamination at 10% increase in diameter of multilayer pipe | ISO 17484-1 |
| 1.1.45. Crushing resistance of the fittings | ISO 17484-1 |
| 1.1.46. Resistance of external layer to cracks after thermal treatment and bending under internal pressure | ISO 17484-1;  БДС EN ISO 21003-2 |
| 1.1.47. Resistance to tensile load | БДС EN 1555-3, Annex C;  БДС EN 12201-3, Annex Е;  ISO 13951 |
| 1.1.48. Leak tightness of seat and packing | БДС EN 1555-4, Annex А;  БДС EN 12201-4, Annex А;  БДС ЕN ISO 1167-1,2 |
| 1.1.49. Determination of resistance to rapid crack propagation (RCP) | БДС EN ISO 13477 |
| 1.2 | Pipes, fittings and systems of glass-fiber reinforced thermosetting plastics (GRP) based on unsaturated polyester resins (UP) | 1.2.1. Dimensions (Geometrical characteristics) | БДС EN ISO 23856;  БДС ЕN ISO 3126 |
| 1.2.2. Initial tensile properties - tensile strength (circumferential / longitudinal), elongation at break and modulus of elasticity | БДС EN 1393;  ISO 8513;  БДС EN 1394;  ISO 8521;  БДС EN ISO 527-1,4,5 |
| 1.2.3. Initial ring stiffness | БДС EN 1228;  ISO 7685 |
| 1.2.4. Initial ring deflection (ring flexibility, failure resistance in the deformed state) | ISO 10466 |
| 1.2.5. Resistance to internal pressure/ pressure at break for pipes/fittings with diameters up to 1000 mm | БДС EN 1447+A1;  ISO 7509;  ISO 8483;  ISO 7432;  ISO 8521;  ISO 8639;  ISO 8533;  ISO 18851 |
| 1.2.6. Leak tightness under external or internal pressure/ vacuum | ISO 8483;  БДС EN 1119;  ISO 8639;  ISO 7432;  ISO 8533 |
| 1.3 | Pre-insulated pipes, fittings, valves and systems for directly buried hot water networks | 1.3.1. Dimensions (Geometrical characteristics) | БДС EN 253+A1;  БДС EN 448;  БДС EN 488;  БДС EN 489-1;  БДС ЕN ISO 3126;  ISO 3419 |
| 1.3.2. Compressive strength of insulation | БДС EN ISO 844 |
| 1.3.3. Density (bulk) of the insulation | БДС EN ISO 845 |
| 1.3.4. Water absorption of insulation | БДС EN 253+A1;  БДС EN 489-1 |
| 1.3.5. Thermal characteristics of a pre-insulated pipe (coefficient of thermal conductivity, thermal resistance, coefficient of thermal transmittance) | БДС EN 253+A1;  БДС EN ISO 8497 |
| 1.3.6. Density of casing pipe | БДС EN ISO 1183-1 |
| 1.3.7. Resistance /impact strength | БДС EN 253+A1;  БДС EN ISO 3127 |
| 1.3.8. Elongation at break of casing pipe | БДС EN 253+A1 |
| 1.3.9. Melt flow rate of casing pipe | БДС EN ISO 1133-1,2 |
| 1.3.10. Longitudinal reversion of casing pipe | БДС EN ISO 2505 |
| 1.3.11. Vicat softening temperature VST | БДС EN ISO 306;  БДС EN ISO 2507-1,2,3 |
| 1.3.12. Shear strength (axial) | БДС EN 253+A1;  БДС EN 15632-2,4;  БДС EN 15698-1 |
| 1.3.13. Resistance to internal pressure for pipes with a diameter up to 1000mm | ISO 5208 |
| 1.3.14. Leak tightness at external/internal pressure of fittings, valves and system | БДС EN 448;  БДС EN 489-1;  БДС EN 12266-1 |
| 1.3.15. Flexibility | БДС EN 15632-1 |
| 1.3.16. Bending test | БДС EN 448 |
| 1.3.17. Resistance of stress cracking (FNCT) | БДС EN 253+A1;  БДС ISO 16770 |
| 1.3.18. Determination content of voids in the insulation of the pre-insulated pipe:  - number of voids (cells) with a size greater than 10mm, radially;  - number of voids and bubbles with a size greater than 6 mm in a pipe cross-section | БДС EN 253+A1 |
| 1.3.19. Linear water tightness | БДС EN 253+A1 |
| 1.4. | Conduits and conduit fittings for electrical installations and fiber optic cables | 1.4.1. Dimensions (Geometrical characteristics) | БДС EN IEC 61386-21,22,23;  БДС EN 50626-1  БДС ЕN ISO 3126 |
| 1.4.2. Compression resistance at deflection | БДС EN 50626-1;  БДС EN ISO 9969 |
| 1.4.3. Compression resistance under load | БДС EN 61386-1;  БДС EN IEC 61386-22**,**23 |
| 1.4.4. Resistance to flame propagation | БДС EN 61386-1  БДС EN 50626-1 |
| 1.4.5. Tensile resistance | БДС EN 61386-1;  БДС EN IEC 61386-23;  БДС EN ISO 6259-1,3 |
| 1.4.6. Resistance to impact | БДС EN 61386-1;  БДС EN 50626-1;  БДС EN ISO 3127 |
| 1.4.7. Resistance to suspended load | БДС EN 61386-1 |
| 1.4.8. Resistance against corrosion (in liquids and solutions) | БДС EN 61386-1 |
| 1.4.9. Resistance to bending/ flexibility | БДС EN IEC 61386-21,22,23;  БДС EN 50626-1 |
| 1.5 | Elastomeric seals and hoses of rubber and plastics | 1.5.1. Dimensions (Geometrical characteristics) | БДС EN ISO 1403;  БДС EN ISO 6224;  БДС EN ISO 1307;  БДС EN ISO 4671;  БДС ISO 3302-1,2;  ISO 9691;  БДС EN ISO 5771 |
| 1.5.2. Resistance to internal hydrostatic pressure | БДС EN ISO 1402;  БДС EN ISO 7751 |
| 1.5.3. Adhesion between components | БДС EN ISO 8033 |
| 1.5.4. Tensile strength and elongation at break | БДС ISO 37 |
| 1.5.5. Accelerated aging and heat resistance in the air with determination of hardness, tensile strength and elongation at break | БДС ISO 188;  БДС ISO 37;  БДС ISO 48-4 |
| 1.5.6. Remaining deformation after compression in air at low or elevated temperatures | БДС ISO 815-1,2 |
| 1.5.7. Stress relaxation after compression at low or elevated temperatures | ISO 3384-1,2;  БДС ISO 188 |
| 1.5.8. Remaining deformation after compression in water | БДС EN 681-1, Annex В |
| 1.5.9. Bending tests at low or elevated temperatures | БДС EN ISO 10619-1  БДС EN ISO 10619-2 |
| 1.5.10. Hardness | БДС ISO 48-4 |
| 1.5.11. Loss of mass after heating | БДС EN ISO 176 |
| 1.5.12. Density | БДС ISO 2781 |
| 1.5.13. Testing of hydraulic pulse pressure without bending | БДС EN ISO 6803 |
| 1.5.14. Resistance to the effect of liquids and oils (change in mass and volume) at low and elevated temperatures | БДС ISO 1817 |
| 1.5.15. Preparation of test specimen | БДС ISO 4661-2;  БДС ISO 23529 |
| 1.5.16. Abrasion resistance | БДС ISO 4649 |
| 1.6 | Manholes and inspection chambers, gullies for buildings, drainage channels from plastic | 1.6.1. Appearance, colour | БДС EN 13598-1,2 |
| 1.6.2. Dimensions (Geometrical characteristics) | БДС EN ISO 3126;  БДС EN 476;  БДС EN 1253-1,2,4,5 |
| 1.6.3. Melt flow rate | БДС EN ISO 1133-1,2 |
| 1.6.4. Effect of heating | БДС ISO 12091;  БДС EN ISO 580 |
| 1.6.5. Ring stiffness of the individual sections (vertical rings) | БДС EN ISO 9969;  БДС EN ISO 13268 |
| 1.6.6. Resistance to external loading and deflection/ mechanical strength | БДС EN 1253-1,2;  БДС EN 476;  БДС EN ISO 13266 |
| 1.6.7. Leak tightness (water tightness)/ durability / structural integrity | БДС EN 476;  БДС EN 1253-1,2;  БДС EN ISO 13254;  БДС EN 13598-1,2 |
| 1.6.8. Leak tightness of systems/systems with elastomeric sealing rings (diametrical or angular deflection, or without applied deflection) | БДС ЕN ISO 13259 |
| 1.6.9. Strength / testing to vertical load of steps - deformation under load - remaining deformation after unloading | БДС EN 13101, Annex В |
| 1.6.10. Resistance to pull-out of steps | БДС EN 13101, Annex D |
| 1.6.11. Izod impact strength | БДС EN ISO 180 |
| 1.6.12. Tensile strength | БДС EN ISO 527-1,2,4 |
| 1.6.13. Resistance /impact strength | БДС EN ISO 13263;  БДС EN 13598-2;  БДС EN ISO 3127;  БДС EN 13101, Annex E |
| 1.6.14. Density | БДС EN ISO 1183-1 |
| 1.6.15. Mechanical strength or flexibility of fittings | БДС EN ISO 13264 |
| 1.7 | Sanitary tapware | 1.7.1. Dimensions (Geometrical characteristics) | ISO 49, ISO 7-1;  БДС EN 817;  БДС EN 200;  БДС EN 1111; |
| 1.7.2. Leak tightness of the mixing valve under hydrostatic pressure upstream of the obturator and the obturator in the closed position | БДС EN 817;  БДС EN 816;  БДС EN 200;  БДС EN 1111;  БДС EN 1286;  БДС EN 1287;  БДС EN 15091 |
| 1.7.3. Leak tightness of the mixing valve under hydrostatic pressure downstream of the obturator in the open position | БДС EN 817;  БДС EN 816;  БДС EN 200;  БДС EN 1111;  БДС EN 1286;  БДС EN 1287;  БДС EN 15091 |
| 1.7.4. Leak tightness of the obturator, cross-flow under hydrostatic pressure in the closed position | БДС EN 817;  БДС EN 816;  БДС EN 200;  БДС EN 1111;  БДС EN 1286;  БДС EN 1287;  БДС EN 15091 |
| 1.7.5. Leak tightness during operation of the automatic regulator to the direction of flow of the water flow under dynamic water pressure | БДС EN 817;  БДС EN 816;  БДС EN 200;  БДС EN 1111;  БДС EN 1286;  БДС EN 1287;  БДС EN 15091 |
| 1.7.6. Mechanical resistance (strength) of the mixing valve under hydrostatic pressure upstream/downstream of the obturator in the open/ closed position | БДС EN 817;  БДС EN 816;  БДС EN 200;  БДС EN 1111;  БДС EN 1286;  БДС EN 1287;  БДС EN 15091 |
| 1.7.7. Hydraulic characteristics (flow rate) | БДС EN 817;  БДС EN 816;  БДС EN 200;  БДС EN 1111;  БДС EN 1286;  БДС EN 1287;  БДС EN 15091 |
| 1.7.8. Mechanical strength characteristics of the working mechanism at constant torque | БДС EN 817;  БДС EN 816;  БДС EN 200;  БДС EN 1111;  БДС EN 1286;  БДС EN 1287;  БДС EN 15091 |
| 1.8 | Flexible corrugated metal joints, hoses and showers for sanitary tapware | 1.8.1. Dimensions (Geometrical characteristics) | БДС EN 1113;  БДС EN 1112;  БДС EN 13618;  БДС EN 16146+A1 |
| 1.8.2. Mechanical tensile strength | БДС EN 1113;  БДС EN 1112;  БДС EN 13618;  БДС EN 16146+A1 |
| 1.8.3. Resistance to thermal shock (leak tightness at cold and hot water) | БДС EN 1113;  БДС EN 1112;  БДС EN 13618;  БДС EN 16146+A1 |
| 1.8.4. Pressure resistance at elevated temperature (aging) | БДС EN 1113;  БДС EN 1112;  БДС EN 13618;  БДС EN 16146+A1 |
| 1.8.5. Hydraulic characteristics (flow rate) at Т≤ 30°С | БДС EN 1113;  БДС EN 1112;  БДС EN 13618;  БДС EN 16146+A1 |
| 1.8.6. Resistance to bending and leak tightness at internal hydrostatic pressure after testing | БДС EN 1113;  БДС EN 1112;  БДС EN ISO 10380;  БДС EN 13618;  БДС EN 16146+A1 |
| 1.8.7. Leak tightness (water tightness) at internal hydrostatic pressure | БДС EN 1113;  БДС EN 1112;  БДС EN ISO 10380;  БДС EN 13618 |
| 1.8.8. Determination of internal hydrostatic pressure at 20°C at break | БДС EN ISO 10380 |
| 1.8.9. Elongation to internal water pressure at 20°C | БДС EN ISO 10380 |
| 1.9. | Industrial valves and valves for water supply | 1.9.1. Dimensions (Geometrical characteristics) | БДС EN 1074-1,2,3,4,5,6;  БДС EN 1213;  БДС EN ISO 6708;  БДС EN 13828;  БДС EN 12266-1,2;  БДС EN 12570;  БДС EN 14339;  БДС EN 14384;  БДС EN 10226-1;  ISO 7-1,2;  ISO 49 |
| 1.9.2. Resistance (hydrostatic strength) to internal pressure of the shell and of all pressure containing components | БДС EN 1074-1,2,3,4,5,6;  ISO 5208;  БДС EN 1213;  БДС ЕN ISO 1167-1,3,4;  БДС EN 13828;  БДС EN 13443-1;  БДС EN 12266-1,2 |
| 1.9.3. Resistance (hydrostatic strength/ leak tightness) of the obturator to internal/ external pressure | БДС EN 1074-1,2,3,4,5,6;  ISO 5208;  БДС EN 1213;  БДС ЕN ISO 1167-1,3,4;  БДС EN 13828;  БДС EN 12266-2 |
| 1.9.4. Leak tightness (water tightness) at internal pressure of the shell and of all pressure components | БДС EN 1074-1,2,3,4,5,6;  ISO 5208;  БДС EN 1213;  БДС ЕN ISO 1167-1,3,4;  БДС EN 13828;  БДС EN 13443-1;  БДС EN 12266-1,2 |
| 1.9.5. Seat tightness at high differential pressure | БДС EN 1074-1,2,3,4,5,6;  ISO 5208;  БДС EN 1213;  БДС ЕN ISO 1167-1,3,4;  БДС EN 13828;  БДС EN 12266-1,2 |
| 1.9.6. Seat tightness at low differential pressure | БДС EN 1074-1,2,3,4,5,6;  ISO 5208;  БДС EN 1213;  БДС ЕN ISO 1167-1,3,4;  БДС EN 13828 |
| 1.9.7. Leak tightness of the obturator at maximum / minimum torque | БДС EN 1074-1,2,3,4,5,6;  ISO 5208;  БДС EN 1213;  БДС ЕN ISO 1167-1,3,4;  БДС EN 13828 |
| 1.9.8. Characteristics of airflow (flow rate) | БДС EN 1074-4 |
| 1.9.9. Hydraulic characteristics (flow rate) | БДС EN 1074-1,2,3, 4,5,6;  ISO 5208;  БДС EN 1213;  БДС ЕN ISO 1167-1,3,4;  БДС EN 13828;  БДС EN 13443-1,2 |
| 1.9.10. Resistance to bending moment/ operating torque | БДС EN 1213;  БДС EN 13828 |
| 1.9.11. Turnover for opening / closing | БДС EN 14339;  БДС EN 12266-2;  БДС EN 14384 |
| 1.9.12. Hydraulic characteristics (resistance) - coefficients - kv, cv and ζ, | БДС EN 1267;  БДС EN 1074-6;  БДС EN 14384 |
| 1.10 | Vitrified clay pipe, fittings and systems for drains and sewers | 1.10.1. Dimensions (Geometrical characteristics) | БДС EN 295-3 |
| 1.10.2. Compression strength | БДС EN 295-3 |
| 1.10.3. Breaking load | БДС EN 295-3 |
| 1.10.4. Water absorption | БДС EN 295-3 |
| 1.10.5. Water tightness (resistance to water pressure) | БДС EN 295-3 |
| 1.10.6. Abrasion resistance | БДС EN 295-3 |
| 1.10.7. Shear resistance / deformation | БДС EN 295-3 |
| 1.10.8. Bending tensile strength | БДС EN 295-3 |
| 1.11.9. Bending moment resistance | БДС EN 295-3 |
| 1.10.10. Chemical resistance in solutions of pipes and fittings | БДС EN 295-3 |
| 1.10.11. Tensile strength and elongation at break | БДС ISO 37;  БДС EN 295-3 |
| 1.10.12. Hardness | БДС EN ISO 868;  БДС EN 295-3 |
| 1.10.13 Relaxation of compressive strain | БДС EN 295-3 |
| 1.10.14. Residual deformation under compression in air at low or elevated temperatures | БДС ISO 815-1,2;  БДС EN 295-3 |
| 1.10.15. Melt flow rate | БДС EN ISO 1133-1,2;  БДС EN 295-3 |
| 1.10.16. Tensile strength and elongation at break | БДС EN ISO 527-1,2;  БДС EN 295-3 |
| 1.10.17. Effect of heating | БДС EN 295-3 |
| 1.11 | Metal pipes, fittings, accessories and joints for piping systems (for pipes up to 800mm in diameter) | 1.11.1. Dimensions (Geometrical characteristics) | БДС EN 545;  БДС EN 598+А1;  БДС EN 1254-2,3,4,5,6,8,20;  БДС EN 12842;  БДС EN 10224;  БДС EN 1092-1,2,3;  БДС EN 14525;  БДС EN 1057+A1;  БДС EN 10220;  БДС EN 10216-1,2;  БДС EN 10305-3;  ISO 7-1,2**;**  ISO 49;  БДС EN 10242;  БДС EN ISO 228-1,2; |
| 1.11.2. Resistance to internal hydrostatic pressure | БДС EN 545;  БДС EN 1254-2,3,4,5,6,8,20;  БДС EN 12842;  БДС EN 14525;  БДС EN 10224;  ISO 5208;  БДС EN 1057+A1;  БДС EN 10216-1,2;  БДС EN ISO 1167-1,2;  БДС EN ISO 13846;  БДС EN 10242 |
| 1.11.3. Leak tightness (water tightness) at internal pressure (positive/negative-vacuum) | БДС EN 545;  БДС EN 598+А1;  БДС EN 1254-2,3,4,5,6,8,20;  БДС EN ISO 3458;  БДС EN 12842;  БДС EN 14525;  БДС EN 10224;  ISO 5208;  БДС EN 1057+A1;  БДС EN 10216-1,2+A1;  БДС EN 10242;  БДС EN ISO 13056 |
| 1.11.4. Leak tightness at internal hydrostatic pressure and bending | БДС EN 1254-2,3,6,8,20;  БДС EN ISO 3503 |
| 1.11.5. Resistance to pull-out of fittings | БДС EN 12842;  БДС EN 1254-2,3,6,8,20;  БДС EN ISO 3501 |
| 1.11.6. Mass per unit length | БДС EN 10220 |
| 1.11.7. Density | БДС EN ISO 3369 |
| 1.11.8. Ring stiffness | БДС EN 598+А1 |
| 1.11.9. Resistance to flattening | БДС EN ISO 8492 |
| 1.11.10. Mass per unit area and thickness of coatings | БДС EN ISO 1460;  БДС EN 10242;  БДС EN 545 |
| **2.** | **ROCK MATERIALS AND PRODUCTS, AGGREGATES FOR CONSTRUCTION** | | |
| 2.1 | Rock materials and aggregates for concrete, mortar and road construction | 2.1.1. Particle size distribution (including a fine fraction content) - passed through a sieve with aperture diameter, Di | БДС EN 933-1;  БДС 1097 |
| 2.1.2. Flakiness index. Shape index | БДС EN 933-3,4 |
| 2.1.3. Bulk density, ρb | БДС EN 1097-3 |
| 2.1.4. Particle density:  - apparent, ρа;  - oven-dry density, ρrd;  - saturated and surface-dried, ρssd  **-** pre-dry density, ρp;  -saturated to constant mass, ρcm; | БДС EN 1097-6 |
| 2.1.5. Voids of dry compacted filler | БДС EN 1097-3, 4 |
| 2.1.6. Water absorption | БДС EN 1097-6 |
| 2.1.7. Water content (moisture) | БДС EN 1097-5 |
| 2.1.8. Resistance to freezing and thawing (loss of mass) | БДС EN 1367-1 |
| 2.1.9. Frost resistance by accelerated testing with MgSO4 / Na2SO4 or salts (loss of mass) | БДС EN 1367-2,6 |
| 2.1.10. Fine fraction content (clay and powder particles) – wet sieving | БДС EN 933-1 |
| 2.1.11. Content of organic substances (humus and lightweight contaminators) | БДС EN 1744-1+А1 |
| 2.1.12. Content of crushed particles | БДС EN 933-5 |
| 2.1.13. Shell content | БДС EN 933-7 |
| 2.1.14. Resistance to crunching at static load | БДС EN 206+A2/ NА,  Annex NA.Q; |
| 2.1.15. Loss on ignition | БДС EN 1744-1+А1 |
| 2.1.16. Water-soluble chloride content | БДС EN 1744-1+А1 |
| 2.1.17. Modulus of coarseness/ fineness of sand | БДС EN 12620+А1, Annex В |
| 2.1.18. Particle density | БДС EN 1097-7 |
| 2.1.19. Total sulfur content and sulfur compounds | БДС EN 1744-1 +А1 |
| 2.2 | Rock materials and products - slabs, setts for paving, kerbs, etc. | 2.2.1. Dimensions (Geometrical characteristics) | БДС EN 1341;  БДС EN 1342;  БДС EN 1343;  БДС EN 13373 |
| 2.2.2. Compressive strength | БДС EN 1926 |
| 2.2.3. Bending strength | БДС EN 12372;  БДС EN 13161 |
| 2.2.4. Breaking load | БДС EN 1926;  БДС EN 12372 |
| 2.2.5. Resistance to freezing and thawing (loss of mass/ strength) | БДС EN 12371;  БДС EN 12372;  БДС EN 1926 |
| 2.2.6. Water absorption | БДС EN 13755 |
| 2.2.7. Real and apparent density, porosity, volume of open voids | БДС EN 1936 |
| 2.2.8. Abrasion resistance- Bőhme | БДС EN 14157, Method В |
| **3.** | **FRESH CONCRETE AND MORTAR MIXTURES, HARDENED CONCRETE AND MORTARS; CONCRETE AND REINFORCED CONCRETE PRODUCTS** | | |
| 3.1 | Fresh concrete and hardened concrete | 3.1.1. Slump consistence | БДС EN 12350-2 |
| 3.1.2. Dimensions (Geometric characteristics) | БДС EN 12390-1 |
| 3.1.3. Bulk density | БДС EN 12350-6 |
| 3.1.4. Compressive strength | БДС EN 12390-3;  БДС EN 12504-1;  БДС EN 679;  БДС EN 1354 |
| 3.1.5. Flexural strength | БДС EN 12390-5;  БДС EN 1521 |
| 3.1.6. Tensile splitting strength | БДС EN 12390-6 |
| 3.1.7. Density of hardened concrete | БДС EN 12390-7;  БДС EN 992;  БДС EN 678 |
| 3.1.8. Freeze /thaw resistance (loss of mass and compression strength)  - directly freezing/ thawing;  - with sodium chloride solution | БДС ЕN 206+A2/NА  Annex NA.О, Part NA.О.1;  БДС EN 12390-3;  СД СEN/TS 12390-9 |
| 3.1.9. Water tightness | БДС ЕN 206+A2/NА  Annex NA.N;  БДС EN 12390-6 |
| 3.1.10. Depth of penetration of water under pressure | БДС EN 12390-8 |
| 3.1.11. Compressive strength in structures and precast concrete components (through surface hardness) -rebound number; -expected compressive strength (in situ) | БДС EN 12504-2;  БДС EN 13791;  БДС EN 13791/NA |
| 3.2 | Masonry mortar and rendering and plastering mortar | 3.2.1. Particle size distribution (passed quantity/ residue on sieves) | БДС ЕN 1015-1 |
| 3.2.2. Consistence by flow table | БДС ЕN 1015-2,3 |
| 3.2.3. Bulk density of fresh mortar | БДС ЕN 1015-6 |
| 3.2.4. Workable life | БДС ЕN 1015-9 |
| 3.2.5. Dry bulk density of hardened mortar | БДС ЕN 1015-10 |
| 3.2.6. Compressive strength | БДС ЕN 1015-11;  БДС EN 1052-1 |
| 3.2.7. Flexural strength | БДС ЕN 1015-11;  БДС EN 1052-2 |
| 3.2.8. Adhesive strength on substrate (adhesion / shear) | БДС ЕN 1015-12;  БДС EN 1052-3 |
| 3.2.9. Water-soluble chlorides content of fresh mortars | БДС ЕN 1015-17 |
| 3.2.10. Water absorption coefficient due to capillary action of hardened mortar | БДС ЕN 1015-18 |
| 3.2.11. Water vapour permeability of hardened mortars | БДС ЕN 1015-19 |
| 3.2.12. Thermal conductivity (λ,) and water vapour diffusion coefficient (μ) based on dry bulk density | БДС EN 1745;  БДС ЕN 1015-10 |
| 3.2.13. Determination of pH-value of solutions | БДС ISO 4316 |
| 3.3 | Concrete products - slabs, kerbs, blocks, lids, gully tops, drainage channels, street and garden products, elements, pipes, lintels, etc. | 3.3.1. Appearance and colour | БДС EN 1338;  БДС EN 1339;  БДС EN 1340;  БДС EN 1916 |
| 3.3.2. Shape and dimensions (Geometric characteristics) | БДС EN 1338;  БДС EN 1339;  БДС EN 1340;  БДС EN 1433;  БДС EN 13369;  БДС EN 12390-1;  БДС EN 1916;  БДС EN 846-11;  БДС EN 124-1,2,3,4,5,6 |
| 3.3.3. Compressive strength | БДС EN 12390-3;  БДС EN 12504-1;  БДС EN 1433 |
| 3.3.4. Strength/resistance to shear:  - breaking load;  - shear strength;  - sagging (vertically, horizontally) | БДС EN 846-9 |
| 3.3.5. Water absorption | БДС EN 1338;  БДС EN 1339;  БДС EN 1340;  БДС EN 13369;  БДС EN 1433;  БДС EN 1916 |
| 3.3.6. Strength/ resistance to bending:  - breaking load;  - bending strength;  - sagging (vertically, horizontally) | БДС EN 1339,  БДС EN 1340;  БДС EN 1433;  БДС EN 846-9 |
| 3.3.7. Tensile splitting and bending strength | БДС EN 1338;  БДС EN 12390-6 |
| 3.3.8. Breaking load | БДС EN 1338;  БДС EN 1339;  БДС EN 1916;  БДС EN 846-9 |
| 3.3.9. Thickness of concrete cover | БДС EN 13369;  БДС EN 13198 |
| 3.3.10. Freeze /thaw resistance by cycles of directly freezing and / or by salts (detrmining the loss of mass and strength) | БДС EN 1338;  БДС EN 1339;  БДС EN 1340;  БДС EN 1433;  БДС EN 13198 |
| 3.3.11. Bulk density | БДС EN 12390-7 |
| 3.3.12. Thermal conductivity (λ,) and water vapour diffusion coefficient (μ) based on density | БДС EN 13369;  БДС EN 1745;  БДС EN 12390-7 |
| 3.3.13. Abrasion resistance - Bőhme | БДС EN 1338;  БДС EN 1339;  БДС EN 1340 |
| 3.3.14. Water tightness (resistance to water pressure) | БДС EN 1916 |
| 3.3.15. Crushing strength / bending strength | БДС EN 1916 |
| 3.3.16. Load bearing capacity  (test load)/ductile (residual) deflection | БДС EN 124-1,2,3,4,5,6;  БДС EN 1433 |
| 3.3.17. Frame bearing area of a cover/ grating  -bearing area on the frame, Аb  -bearing pressure on the basis, Pb | БДС EN 124-1,2,3,4,5,6 |
| **4.** | **BINDERS: CEMENT** | | |
| 4.1 | Cement | 4.1.1. Standard consistencе | БДС EN 196-3 |
| 4.11.2. Setting time (initial/ final) | БДС EN 196-3 |
| 4.1.3. Fineness (passed quantity/ residue on sieve) | БДС EN 196-6 |
| 4.1.4. Soundness | БДС EN 196-3 |
| 4.1.5. Flexural strength | БДС EN 196-1 |
| 4.1.6. Compressive strength | БДС EN 196-1 |
| 4.1.7. Loss on ignition | БДС EN 196-2 |
| 4.1.8. Sulphates content (as SO3) | БДС EN 196-2 |
| 4.1.9. Chlorides content | БДС EN 196-2 |
| **5.** | **DRY MIXTURES (ADHESIVES) FOR TILES AND FLOOR COVERINGS** | | |
| 5.1 | Adhesives for tiles (cementitious, dispersion and reactive resin adhesives) | 5.1.1. Open time (via adhesive strength) | БДС EN 12004-2, p.8.1 |
| 5.1.2. Apparent density | БДС EN 543 |
| 5.1.3. Determination of slip | БДС EN 12004-2, cl.8.2 |
| 5.1.4. Transverse deformation | БДС EN 12004-2, cl.8.6 |
| 5.1.5. Tensile adhesion strength  (initial, early, after water immersion, after thermal treatment and after freeze-thaw cycles) | БДС EN 12004-2, cl.8.3 |
| 5.1.6. Density | БДС EN 542 |
| 5.1.7. Shear adhesion strength  (initial, early, after water immersion, after thermal treatment) | БДС EN 12004-2, cl.8.4  БДС EN 12004-2, cl.8.5 |
| 5.2 | Composite adhesives and ready mixtures for floor coverings (screeds).  Self-levelling floor coverings | 5.2.1. Setting time (initial and final) | БДС EN 13454-2;  БДС EN 196-3;  БДС EN 1937;  БДС EN 14016-2 |
| 5.2.2. Flexural strength | БДС EN 13454-2;  БДС EN 13892-1,2;  БДС EN 196-1;  БДС EN 1937;  БДС EN 14016-2 |
| 5.2.3. Compressive strength | БДС EN 13454-2;  БДС EN 13892-1,2;  БДС EN 196-1;  БДС EN 1937;  БДС EN 14016-2 |
| 5.2.4. Shrinkage / swelling | БДС EN 13454-2;  БДС EN 13872;  БДС EN 1937 |
| 5.2.5. Consistency through the flow diameter | БДС EN 13454-2;  БДС EN 12706;  БДС EN 1937 |
| 5.2.6. Abrasion resistance -Bőhme | БДС EN 13892-3 |
| 5.2.7. Bond strength | БДС EN 13892-8;  БДС EN 13408 |
| 5.2.8. Resistance to water penetration (water permeability coefficient) | БДС EN 1062-3 |
| 5.2.9. Determination of pH-value | БДС EN 13454-2 |
| 5.2.10. Impact resistance | БДС EN ISO 6272-1,2 |
| 5.2.11. Surface hardness | БДС EN 13892-6 |
| 5.2.12. Flow characteristics (flow diameter) | БДС EN 12706;  БДС EN 1937 |
| 5.2.13. Bulk density | БДС EN 543;  БДС EN 14016-2 |
| 5.2.14. Fineness of grinding (passed quantity/ residue on sieve) | БДС EN 196-6;  БДС EN 14016-2 |
| 5.2.15. Loss on ignition | БДС EN 196-2;  БДС EN 14016-2 |
| 5.3 | Grouts for tiles | 5.3.1. Transverse deformation | БДС EN 12004-2, cl.8.6 |
| 5.3.2. Flexural strength: standard, after freeze-thaw cycles | БДС EN 13888-2, cl.9.1;  БДС EN 12004-2, cl.8.3 |
| 5.3.3. Compressive strength: standard, after freeze-thaw cycles | БДС EN 13888-2, cl.9.1;  БДС EN 12004-2, cl.8.3 |
| 5.3.4. Drying shrinkage | БДС EN 13888-2, cl.9.3 |
| 5.3.5. Water absorption | БДС EN 13888-2, cl.9.2 |
| 5.3.6. Chemical resistance (by changing а mass, diameter, compressive strength) | БДС EN 13888-2, cl.9.5 |
| **6.** | **MASONRY UNITS AND ELEMENTS. CERAMIC PRODUCTS** | | |
| 6.1 | Masonry units  (natural and manufactured stone, calcium- silicate, clay, concrete,  autoclaved aerated concrete, etc.), lintels and other elements | 6.1.1. Dimensions (Geometric characteristics) and mass per linear meter | БДС EN 772-2;  БДС EN 772-16, 20;  БДС EN 845-2+А1;  БДС EN 846-11 |
| 6.1.2. Bulk density (net and gross) | БДС EN 1936;  БДС EN 678  БДС EN 772-13 |
| 6.1.3. Thermal conductivity (λ,) and water vapour diffusion coefficient (μ) based on bulk density | БДС EN 1745;  БДС EN 772-13 |
| 6.1.4. Compressive strength | БДС EN 772-1+А1;  БДС EN 1052-1;  БДС EN 679;  БДС EN 1354 |
| 6.1.5. Strength/ resistance to bending:  - breaking load;  - bending strength;  - sagging (vertically, horizontally) | БДС EN 772-6;  БДС EN 12372;  БДС EN 1052-2;  БДС EN 1351;  БДС EN 846-9 |
| 6.1.6. Strength/resistance to adhesion (shear):  - breaking load;  - shear strength;  - sagging (vertically, horizontally) | БДС EN 1052-3;  БДС EN 846-9 |
| 6.1.7. Dimensional change due to moisture movement | БДС EN 772-14 |
| 6.1.8. Water absorption | БДС EN 772-11 |
| 6.1.9. Coefficient of water absorption due to capillary action | БДС EN 772-11 |
| 6.1.10. Initial rate of water absorption | БДС EN 772-11 |
| 6.1.11. Moisture content | БДС EN 772-10;  БДС EN 1353 |
| 6.1.12. Drying shrinkage | БДС EN 680 |
| 6.1.13. Freeze-thaw resistance (equivalent mass, loss of mass, loss of strength) | БДС EN 12371;  БДС EN 15304;  БДС EN 772-18;  БДС EN 772-22 |
| 6.1.14. Water absorption by boiling in water of clay masonry units | БДС EN 772-7 |
| 6.1.15. Moisture expansionof clay masonry units | БДС EN 772-19 |
| 6.1.16. Content of active soluble salts of clay masonry units | БДС EN 772-5 |
| 6.1.17. Determination of percentage area of voids in masonry units (by paper indentation) | БДС EN 772-2 |
| 6.1.18. Determination of volume, net volume and percentage of voids | БДС EN 772-3;  БДС EN 772-9 |
| 6.1.19. Determination of water vapour permeability | БДС EN 772-15;  БДС EN ISO 12572 |
| 6.2 | Roofing products - ceramic, concrete | 6.2.1. Dimensions (Geometric characteristics) | БДС EN 1024;  БДС EN 491 |
| 6.2.2. Water impermeability test - water tightness coefficient | БДС EN 539-1;  БДС EN 491 |
| 6.2.3. Breaking load at flexural strength | БДС EN 538;  БДС EN 491 |
| 6.2.4. Freeze-thaw resistance (loss of mass and strength) | БДС EN 539-2;  БДС EN 491 |
| 6.2.5. Mass of the product | БДС EN 491 |
| 6.3 | Ceramic tiles | 6.3.1. Dimensions (Geometric characteristics) | БДС EN ISO 10545-2 |
| 6.3.2. Water absorption and apparent porosity | БДС EN ISO 10545-3 |
| 6.3.3. Thermal resistance | БДС EN ISO 10545-9 |
| 6.3.4. Frost resistance (determination of water absorption and visual damage) | БДС EN ISO 10545-12 |
| 6.3.5. Rupture/breaking load when bending | БДС EN ISO 10545-4 |
| 6.3.6. Moisture expansion(by boiling in water) | БДС EN ISO 10545-10 |
| 6.3.7. Chemical resistance | БДС EN ISO 10545-13 |
| 6.3.8. Resistance to strains | БДС EN ISO 10545-14 |
| 6.3.9. Coefficient of linear thermal expansion, αl | БДС EN ISO 10545-8 |
| 6.3.10. Apparent relative density and bulk density | БДС EN ISO 10545-3 |
| 6.3.11. Bending strength | БДС EN ISO 10545-4 |
| 6.3.12. Impact resistance/ coefficient of restitution | БДС EN ISO 10545-5 |
| **7.** | **PAINTS, VARNISHES AND COATINGS, MATERIALS FOR CORROSION PROTECTION** | | |
| 7.1 | Paints, varnishes, thinners. Paint and varnish materials and systems. Materials of corrosion protection. | 7.1.1. Viscosity (flow time by use of flow cups) | БДС EN ISO 2431 |
| 7.1.2. Drying time (without gluing and through-dry state) | БДС EN ISO 9117-6;  БДС EN ISO 9117-1;  БДС EN ISO 2808 |
| 7.1.3. Film elasticity (bending around cylindrical mandrel) | БДС EN ISO 1519 |
| 7.1.4. Scratch test resistance | БДС EN ISO 1518-1,2 |
| 7.1.5. Non-volatile and volatile organic matter content | БДС EN ISO 3251;  БДС EN ISO 11890-1 |
| 7.1.6. Impact resistance | БДС EN ISO 6272-1,2;  БДС EN ISO 2808;  БДС EN 14901-1+А1;  БДС EN 15189 |
| 7.1.7. Adhesion (cross-cut test) | БДС EN ISO 2409;  БДС EN ISO 2808 |
| 7.1.8. Hardness of coatings | БДС EN ISO 1522;  БДС EN ISO 2808 |
| 7.1.9. Thickness of coatings | БДС EN ISO 2808;  БДС EN ISO 2178;  БДС EN 14901-1+А1;  БДС EN 545;  БДС EN 15189 |
| 7.1.10. Resistance to humidity | БДС EN ISO 6270-1,2 |
| 7.1.11. Resistance of coatings to thermal effect | БДС EN ISO 3248;  БДС EN 23270 |
| 7.1.12. Chemical resistance of polyurethane coatings in liquids and solutions with subsequent determination of mass change | БДС EN 15189  БДС EN ISO 62 |
| 7.1.13. Common defects of degradation of coatings | БДС EN ISO 4628-1,2,3,4,5 |
| 7.1.14. Resistance of coatings in liquids and oils | БДС EN ISO 2812-1,2;  БДС EN 23270;  БДС EN 14901-1+А1 |
| 7.1.15. Non-volatile-matter content | БДС EN ISO 3251;  БДС EN ISO 3233-1,2;  БДС EN 23270 |
| 7.1.16. Pull-off test for adhesion | БДС EN ISO 4624;  БДС EN 14901-1+А1;  БДС EN 15189 |
| 7.1.17. Density | БДС EN ISO 2811-1 |
| 7.1.18. Determination of pH-value | БДС ISO 4316 |
| 7.1.19. Hardness of a part/pipe with polyurethane coating | БДС EN 15189;  БДС EN ISO 868 |
| 7.1.20. Water permeability coefficient | БДС EN 1062-3;  БДС EN 1062-11 |
| 7.1.21. Indentation resistance of polyurethane coating | БДС EN 15189 |
| 7.1.22. Cross linkage | БДС EN 14901-1+А1 |
| 7.1.23. Elongation at break of polyurethane coating | БДС EN 15189;  БДС EN ISO 527-3 |
| 7.2 | Adhesives for general application and for plastic elements and systems | 7.2.1. Thermal resistance | БДС EN ISO 75-1,3 |
| 7.2.2. Resistance to internal pressure/ leak tightness | БДС EN ISO 9311-3;  БДС ЕN ISO 1167-1,2,3,4 |
| 7.2.3. Viscosity using a falling-ball (Hoppler method) | БДС EN ISO 12058-1 |
| 7.2.4. Shear strength/tensile strength, through shear strength | БДС EN 1465;  БДС EN ISO 9311-1,2 |
| 7.2.5. Density of adhesive | БДС EN ISO 2811-1;  БДС EN 542 |
| 7.2.6 Viscosity (flow time by use of flow cups) | БДС EN ISO 2431;  БДС EN 12092 |
| 7.2.7. Determining the pH-value of adhesive | БДС ISO 4316 |
| 7.2.8. Bonding strength (adhesion) | БДС 9845 |
| 7.2.9. Tensile strength | БДС EN ISO 527-1,2,3,4 |
| 7.2.10. Flexural strength | БДС EN ISO 178 |
| **8.** | **EXTERNAL AND INTERNAL COVERINGS, PROFILES AND FINISHES** | | |
| 8.1. | Light transmitting profiled sheets.  Plastic foils and cross-linked sheets | 8.1.1. Dimensions (Geometric characteristics) | БДС EN 263;  БДС EN 1013+А1, cl.6.6;  БДС EN ISO 15013;  БДС EN ISO 11963 |
| 8.1.2. Dimensional stability on heating (heat resistance) | БДС EN 263;  БДС EN 1013+А1, cl.6.6;  БДС EN ISO 11501 |
| 8.1.3. Water absorption | БДС EN 263;  БДС EN ISO 62 |
| 8.1.4 Vicat softening temperature VST | БДС EN ISO 306;  БДС EN ISO 2507-1,2,3 |
| 8.1.5. Tensile strength, tension of yield and elasticity modulus, tensile strain | БДС EN ISO 527-1,2,3,4,5 |
| 8.1.6. Thermal stability at heating | БДС EN 263 |
| 8.1.7. Resistance to liquid chemicals | БДС EN 263 |
| 8.1.8. Resistance to cyclic wetting and drying | БДС EN 263 |
| 8.1.9. Impact resistance under Charpy and Izod methods | БДС EN ISO 179-1,2;  БДС EN ISO 180 |
| 8.1.10. Melt flow rate | БДС EN ISO 1133-1,2 |
| 8.1.11. Tensile-impact strength | БДС EN ISO 8256 |
| 8.1.12. Impact resistance with falling body | БДС EN ISO 6603-1,2 |
| 8.2. | Plastics. Resins (unreinforced and reinforced).  Foils and sheets. | 8.2.1. Temperature of deflection under load | БДС EN ISO 75-1,2,3 |
| 8.2.2. Flexural strength | БДС EN ISO 178 |
| 8.2.3. Elasticity modulus in flexure | БДС EN ISO 178 |
| 8.2.4. Tensile strength and elongation | БДС EN ISO 527-1,2,3,4,5 |
| 8.2.5. Compressive properties | БДС EN ISO 604 |
| 8.2.6. Hardness by means of a durometer (Shore) | БДС EN ISO 868 |
| 8.2.7. Dimensional change on heating | БДС EN ISO 11501 |
| 8.2.8. Viscosity using a falling-ball (Hoppler method) | БДС EN ISO 12058-1 |
| 8.2.9. Vicat softening temperature VST | БДС EN ISO 306;  БДС EN ISO 2507-1,2,3 |
| 8.2.10. Melt flow rate | БДС EN ISO 1133-1,2 |
| 8.2.11. Hardness with a ball indentation method | БДС EN ISO 2039-1 |
| 8.3. | Unplasticized poly (vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors. | 8.3.1. Dimensions (Geometric characteristics) | БДС EN 12608-1+А1 |
| 8.3.2. Vicat softening temperature VST | БДС EN ISO 306;  БДС EN ISO 2507-1,2,3 |
| 8.3.3. Resistance /impact strength | БДС EN ISO 3127;  БДС EN 477 |
| 8.3.4. Elasticity modulus in flexure | БДС EN ISO 178 |
| 8.3.5. Tensile-impact strength | БДС EN ISO 8256 |
| 8.3.6. Change of appearance and dimensions after heating | БДС EN 12608-1+А1;  БДС EN 478;  БДС EN 479 |
| 8.3.7. Strength of welded corners and T-joints (tensile and compression bending test) | БДС EN 514 |
| **9.** | **SOLID BIOFUELS** | | |
| 9.1. | Wood briquettes and pellets, coal, wood chips (sawdust), barks and other plant biomass products | 9.1.1. Dimensions (Geometric characteristics) | БДС EN ISO 17225-1,2,3,4;  БДС EN ISO 17827-1,2;  БДС EN 1860-2;  БДС ISO 1953;  БДС EN ISO 17829 |
| 9.1.2. Moisture (total, residual moisture) | БДС EN ISO 18134-1,2,3;  БДС EN 1860-2;  БДС ISO 589 |
| 9.1.3. Ash content | БДС EN ISO 18122;  БДС EN 1860-2;  БДСISO 1171 |
| 9.1.4. Particle density | БДС EN ISO 18847 |
| 9.1.5. Mechanical durability (stability) | БДС EN ISO 17831-1,2 |
| 9.1.6. Appearance and colour | БДС EN 1860-2;  БДС EN ISO 17225-1,2,3,4 |
| 9.1.7. Fine fraction content | **БДС EN ISO 5370** |
| 9.1.8. Determination of particle size distribution /Fine fraction content | БДС EN ISO 17827-1,2;  БДС EN ISO 17830 |
| 9.1.9. Bulk density | БДС EN ISO 17828 |
| 9.1.10. Volatile matter content | БДС EN ISO 18123;  БДС EN 1860-2;  БДС ISO 562 |
| 9.1.11. Non-charcoal parts and foreign impurities content | БДС EN 1860-2 |
| 9.1.12. Small coal content | БДС EN 1860-2;  БДС ISO 1953 |

***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 laboratory.*