**SPIRALLY WOUNDED PE + PP PIPE SYSTEMS FOR INFRASTRUCTURAL SEWERAGE TYPE PRAGNUM OR SIMILAR FOR UNDERWATER APPLICATION**

1. Application: according the actual “Sewage systems design standards”: thermoplastic pipe system for gravity water drainage of domestic, industrial or rain wastewater.
2. **Product description – spirally wounded ribbed sewer pipe, made heavier by injecting the ribs with concrete(patented technology)**
3. **Profile of the pipe – spirally wounded(ribbed) with smooth inner(compact) pipe made of PE100 reinforced with PP corrugated pipe according EN13476-3, type B**
4. Raw material used to manufacture the product - virgin material, primary certified by independent institution.
5. Production technology – spiral wounding and thermal gluing of a hot-extruded profile around a steel cylinder.
6. **Socket, an integral part of each pipe with integrated copper wire allowing electric fusion welding.**
7. **Type of coupling – by electrofusion welding according to DVS2207.**
8. **Pipe material - PE (polyethylene) + PP (polypropylene).**
9. Effective **standard** length of the pipe without socket - 6m.
10. **Nominal ring stiffness (SN): According to designer’s calculation-no limitation according to**  EN ISO 9969
11. **Ring flexibility:** пръстена ≤6%
12. **Water tightness of the joints - proven by test protocol, tested at 2 bar positive pressure and at -1 bar negative pressure (vacuum).**
13. **Diameter nominal DN: ID (inside diameter) – from DN/ID 300 to DN/ID 1600 every 100mm, DN/ID 1800 and DN/ID 2000mm**
14. System - complete system of pipes, fittings and manholes.
15. **Readable and durable marking, according to the Standard DIN 16961.**
16. **Standards: DIN 16961 for pipes, ATV127 and ISO 9699 for static measurements and calculations, АТV А110 for hydraulic dimensioning and calculations, DIN1610 for sewer pipeline installation and DVS 2207 for coupling the pipes by welding.**
17. **Software for hydraulic (АТV А110) and static (ATV127) calculations of the sewage pipes**:**yes**
18. Manufactured: according ISO 9001
19. Patent: № PCT/HR2013/000020

